

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Columbia River									
Mouth to Tenasillahe Island	10=-COLU0	Bacteria	Marine and shellfish growing area (fecal coliform)	Fall-Winter-Spring	DOE (1993), WA DOE 303d List, CSOs - Astoria	WA DOE Data: Greater than 10% of the samples exceeded estuarine fecal coliform standard (43) near Ilwaco, WA (Hallock and Ehinger, 1993); Combined Sewer Overflows are present in Astoria; Listed for Fecal Coliform on WA DOE 303(d) list.		303(d) List	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Bi-State (93, 94); WA DOE 303(d) List	Bi-state Data - Task 6: Reconnaissance Report (Tetra Tech, 1993).		303(d) List	
		Temperature		Summer	COE Data (1993); USGS (1995); WA DOE 303(d) List	USGS Data (3 Sites): Temperature standard (68) is exceeded 10%/75%/10% at Bradwood; 25%/75%/10% at Kalama; and 25%/75%/25% at Warrendale for the July/Aug/Sep values with maximums of 72.1, 73.8, 72.0 respectively based on daily mean values between 1969-92.		303(d) List	
		Total Dissolved Gas		Year Around	COE Data (1993); WA DOE 303(d) List; NMFS (1995)	1993 Dissolved Gas Monitoring for the Columbia and Snake Rivers (US Army Corp of Engineers, 1993), Fuhrer et al (USGS, 1995).		303(d) List	
		Toxics	Metals (Water)(Mercury)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	Mercury: In general, total recoverable and filtered mercury were not detected above the laboratory detection limit of 0.11 ug/l, except for one total recoverable replicate sample in the back water study (out of 15 and 45 total samples in the backwater and main stem surveys, respectively). It is possible that the average total recoverable concentration exceeded the freshwater standard of 0.012 ug/l, however detection limits were too high for an adequate evaluation. Additional sampling with lower detection limits is recommended (Bi-State Study 1994, 1996).	Did not meet listing criteria	Potential Concern	Addition

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Mouth to Tenasillahe Island	10--COLU0	Toxics	Tissue - PCB		Bi-State (93, 94);94 304(l) list, Part B;WA 303(d)	Levels of PCBs found in some fish (carp, peamouth, sucker) exceed health criteria, OR/WA Health Depts have issued recommendations regarding fish consumption for particular groups (WSDH/OHD,96); reduced bald eagle reproduction in LCR noted (USFWS,96).		303(d) List	
		Toxics	Tissue - 2,3,7,8 - TCDD (Dioxin)		EPA (91); Bi-State (93,94); 94 304(l) list, Part B	Levels of Dioxins found in some fish (carp, peamouth, sucker) exceed health criteria, OR/WA Health Depts have issued recommendations regarding fish consumption for particular groups (WSDH/OHD,96); reduced bald eagle reproduction in LCR noted (USFWS,96).	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
		Toxics	Tissue - Pesticides (DDE, DDT)		Bi-State (93, 94);94 304(l) list, Part B;WA 303(d)	Levels of DDE/DDT found in some fish (carp, peamouth, sucker) exceed health criteria, OR/WA Health Depts have issued recommendations regarding fish consumption for particular groups (WSDH/OHD,96); reduced bald eagle reproduction in LCR noted (USFWS,96).		303(d) List	
		Toxics	Water Column - 2,3,7,8 - TCDD (Dioxin)		EPA (91); Bi-State (93,94); 94 304(l) list, Part A	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
		Toxics	Pesticides (Water)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Atrazine, Dacthal, Deethylatrazine, Eptam, Lindane, Metolachlor, Napropamide and Simazine were found but either do not have or were below any water quality standard, guidance level or guidance values. No other pesticides detected.	Did not meet listing criteria	OK	Addition

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Mouth to Tenasillahe Island	10--COLU0	Toxics	Semi-Volatiles PAHs (Sediment)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>Benzo(a)anthracene, Benzo(g,h,i)perylene, Chrysene, 4-Methylphenol, Pyrene and Total PAHs were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>No standard or other listing guidance values were exceeded, however, because of the screening guidance values exceedence and one indeterminate bioassay test, DEQ includes the segment in the Decision Matrix as a Potential Concern.</p>	Did not meet listing criteria	Potential Concern	

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Mouth to Tenasillahe Island	10--COLU0	Toxics	Dioxins/Furans (Sediment)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>Dioxins/Furans were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>No standard or other listing guidance values were exceeded, however, because of the screening guidance values exceedence and one indeterminate bioassay test, DEQ includes the segment in the Decision Matrix as a Potential Concern.</p>	Did not meet listing criteria	Potential Concern	Addition

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Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Tenasillahe Island	10--COLU0	Toxics	Metals (Water)(Copper)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Copper: Station average total recoverable copper concentrations ranged from 1.0 to 4.6 ug/l in the backwater study with the EPA and Oregon freshwater standard of 6.5 ug/l not exceeded at any of the stations but the saltwater standard (2.9 ug/l) was exceeded at Youngs Bay once out of 15 total sites. Filtered copper concentrations were all below the laboratory detection limit of 1.0 ug/l and did not exceed the Washington freshwater dissolved standard of 5.6 ug/l. 7 of 45 values exceeded the total recoverable standard in the main stem study (Bi-State Study 1994, 1996).</p> <p>However, Professional judgment was used to establish the status of segment for metals in the water column as a potential concern because of quality assurance concerns with the data and the reduction in detections in later studies (1993 data showed 1 of 15 samples exceeded the water quality criteria and USGS found 0 exceedences during 4 sampling events at 4 sites) and due to better analytical methods. The Bi-state Report noted that there was difficulty in measuring relatively low concentrations of metals in ambient waters and that the accurate measurement and evaluation of water column concentrations of metals in the Lower Columbia River has been a recurring problem. Because of these Quality Assurance concerns identified with the 1991 main stem study, greater reliance was placed on the backwater study completed in 1993 and the USGS data from 1994. In addition the different samples were not comparable because the 1991 data were whole water samples, the 1993 data was total and filtered values and the 1994 data is filtered. All concentrations decreased</p>	Did not meet listing criteria	Potential Concern	Addition

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					USGS Data	between studies which is believed to be the result of better QA procedures and analytical methods. For these reasons and the limited sampling at each site, this data was used to identify which parameters may be of concern rather than listing the segment.			

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Mouth to Tenasillahe Island	10--COLU0	Toxics	Metals (Water)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Antimony: Antimony was not detected above the laboratory detection limit of 3.0 ug/l in the total recoverable or filtered metals samples except at one site out of 15 backwater sites where it was at detection levels and at 0 of 45 main stem sites. All concentrations were below EPA criterion of 30 ug/l (Bi-State Study 1994, 1996).</p> <p>Beryllium: Neither total recoverable nor filtered beryllium were detected above laboratory detection limit of 2.0 ug/l which was lower than EPA lowest observed effects level of 5.3 ug/l for freshwater organism at 15 backwater and 45 main stem sites (Bi-State Study 1994, 1996).</p> <p>Chromium: Total recoverable chromium was infrequently (1 of 15 and 3 of 45 samples in backwater and main stem studies respectively) and filtered chromium was not detected in the backwater study above the detection limit of 1.0 ug/l. These concentrations were lower than the chronic freshwater and saltwater standards of 50 and 11 ug/l, respectively (Bi-State Study 1994, 1996).</p> <p>Nickel: Station average total recoverable nickel ranged from below detection (5.0 ug/l) to 6.0ug/l and did not exceed the Oregon standard (88 ug/l) at any of the 15 backwater sites. Filtered nickel concentrations were generally below detection limits of 5.0 ug/l and did not exceed Washington freshwater and saltwater dissolved standards of 83 and 7.9 ug/l, respectively (Bi-State Study 1994, 1996).</p> <p>Thallium: Station average total recoverable concentrations ranged from below detection (1.0 ug/l) to 1.1 ug/l with</p>	Did not meet listing criteria	OK	Addition

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					USGS Data	<p>no value exceeding the Oregon freshwater lowest observable effects level (40 ug/l) at any of the 15 backwater sites. Filtered concentrations ranged from below detection to 1.2 ug/l with no values above the Oregon standard (Bi-State Study 1994, 1996).</p> <p>Zinc: Station average total recoverable concentration ranged from below detection limits (3.0 ug/l) to 16.7 ug/l. No values in the backwater study (out of 15 sites) exceeded Oregon freshwater and saltwater standards (57 and 86 ug/l respectively). Filtered concentrations were generally below detection, except for zinc detected in one sample at each of five stations with no values above the Oregon standard. 3 out 45 main stem sites exceeded the total recoverable standard (Bi-State Study 1994, 1996).</p> <p>Cyanide: Cyanide was not detected above the laboratory detection limit of 2 ug/l in any sample. The detection limit is lower than the 5.2 ug/l freshwater standard but is slightly higher than the saltwater standard of 1 ug/l (Bi-State Study 1994, 1996).</p>			
		Toxics	Radionuclides		Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Elevated concentrations of radionuclides were detected, however, a standard or other listing criteria were not exceeded. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that bioassays did not show any toxicity (May 1996)).	Did not meet listing criteria	Potential Concern	

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Mouth to Tenasillahe Island	10--COLU0	Toxics	Pesticides (Sediment)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>Aldrin, Alpha-BNC, Delta-BHC, Dieldrin, Endin, DDD, DDE and DDT were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>No standard or other listing guidance values were exceeded, however, because of the screening guidance values exceedence and one indeterminate bioassay test, DEQ includes the segment in the Decision Matrix as a Potential Concern.</p>	Did not meet listing criteria	Potential Concern	
		Toxics	Metals (Water)(Silver)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Silver: In general, total recoverable and filtered silver were not detected above the laboratory detection limit of 1.0 ug/l, except for one total recoverable replicate sample in the back water study (out of 15 and 45 total samples in the backwater and main stem surveys, respectively). It is possible that the average total recoverable concentration exceeded the freshwater standard of 0.12 ug/l, however detection limits were too high for an adequate evaluation. Additional sampling with lower detection limits is recommended (Bi-State Study 1994, 1996).</p>	Did not meet listing criteria	Potential Concern	Addition

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Mouth to Tenasillahe Island	10--COLU0	Toxics	Trace Metals (Sediment)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>Arsenic, Cadmium, Chromium, Copper, Iron, Mercury, Nickel, Silver, Zinc, Cyanide and Tributyltin were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>No standard or other listing guidance values were exceeded, however, because of the screening guidance values exceedence and one indeterminate bioassay test, DEQ includes the segment in the Decision Matrix as a Potential Concern.</p> <p>Arsenic: Sediment arsenic concentrations ranged from 3.6 to 13.6 mg/kg with concentrations exceeding the Ontario's lowest effect level of 6 mg/kg at 4 of 15 backwater sites. 1 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Cadmium: Sediment cadmium concentrations ranged from 0.49 to 1.9 mg/kg with concentrations exceeding Ontario's lowest effect level of 0.6 mg/kg at 14 of 15 backwater sites. 8 of 54</p>	Did not meet listing criteria	Potential Concern	

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						<p>main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Chromium: Sediment chromium concentrations ranged from 14.8 to 31.1 mg/kg with concentrations exceeding Ontario's lowest effect level of 26 mg/kg at 2 of 15 backwater sites. 0 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Copper: Sediment copper concentrations ranged from 19.3 to 49.9 mg/kg with concentrations exceeding Ontario's lowest effect level of 16 mg/kg at 14 of 15 backwater sites. 8 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Iron: Sediment iron concentrations ranged from 15,500 to 39,000 mg/kg with concentrations exceeding Ontario's lowest effect level of 20,000 mg/kg at 9 of 15 backwater sites. 3 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Nickel: Sediment nickel concentrations ranged from 14.0 to 24.8 mg/kg with concentrations exceeding Ontario's lowest effect level of 16 mg/kg at 7 of 15 backwater sites. 1 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Silver: Sediment silver concentrations was detected at only one site (3.1 mg/kg) with detection limits ranging from 0.08 to 0.49 mg/kg with concentrations at the one site exceeding Ontario's lowest effect level of 0.5</p>			

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		Toxics	Metals (Water)(Iron)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>mg/kg out of 15 backwater sites. 6 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Zinc: Sediment zinc concentrations ranged from 68.3 to 155 mg/kg with concentrations exceeding Ontario's lowest effect level of 120 mg/kg at 4 of 15 backwater sites. 2 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Iron: Total recoverable concentrations ranged from 188 to 2, 523 ug/l with only one value exceeding the Oregon Standard (1,000 ug/l) at one backwater site out of 15. Filtered concentrations ranged form 6 to 442 ug/l (there is not recommended criteria for dissolved iron as it is not considered a priority toxic pollutant by EPA). 4 out of 45 sites exceeded the total recoverable standard in the main stem study. The measured concentrations of iron were typical of unpolluted waters and were primarily associated with the fine particulate clays that are transported with the suspended sediments of the river (Bi-State Study 1994, 1996).</p>	Did not meet listing criteria	Potential Concern	Addition

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Mouth to Tenasillahe Island	10--COLU0	Toxics	Metals (Water)(Aluminum)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Aluminum exceeded EPA criteria of 87 ug/l at 15 of 15 backwater sites and 11 of 45 main stem sites. Aluminum is not considered a priority toxic pollutant by EPA (which has not determined dissolved concentrations standards for this metal). The measured concentrations were typical of unpolluted waters and are primarily associated with the fine particulate clays that are transported with the suspended sediments of the river (Bi-State Study 1994, 1996). Additionally, DEQ does not have a standard for Aluminum.	Did not meet listing criteria	OK	Addition

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Mouth to Tenasillahe Island	10--COLU0	Toxics	Trace Metals (Sediment)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>Antimony, Lead, Mercury and Cyanide Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem.</p> <p>Antimony: Sediment antimony was not detected at any station out of 15 backwater sites. Lowest detection limits ranged from 0.23 mg/kg to 0.41 mg/kg which were lower than the Ontario reference level of 2 mg/kg (Bi-State Study 1994, 1996).</p> <p>Lead: Sediment lead concentrations ranged from detection limits (9.5 - 18.1 mg/kg) to 26.3 mg/kg with no concentrations exceeding Ontario's lowest effect level of 31 mg/kg at 15 backwater sites. 0 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Mercury: Sediment mercury concentrations ranged from 0.06 to 0.18 mg/kg with concentrations exceeding Long and Morgan's ER-L of 0.15 mg/kg at 1 of 15 backwater sites. 0 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Cyanide: Sediment cyanide concentrations were detected at one station (0.172 mg/kg) (detection limit of 0.1 mg/kg). The concentration exceeded Ontario's lowest effect level of 0.1 mg/kg out of 15 backwater sites.</p>	Did not meet listing criteria	OK	Addition

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Mouth to Tenasillahe Island	10--COLU0	Toxics	Metals (Water)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Cadmium: Neither total recoverable nor filtered cadmium were detected above the laboratory detection limit of 0.18 ug/l in any backwater sample (15 sites) which was lower than both the lowest total recoverable standard (freshwater) of 0.7 ug/l and the Washington (freshwater) dissolved standard of 0.6 ug/l. Only 3 of 45 samples had detectable concentrations in the main stem study with only one value above any standard (Bi-State Study 1994, 1996).</p> <p>Selenium: In general, total recoverable and filtered selenium were not detected above lab detection limits of 3.0 ug/l, except for one sample in the backwater study (15 total sites). The reported concentrations were all lower than freshwater and marine standards of 5.0 and 71 ug/l respectively. 3 of 45 values exceeded the total recoverable standard in the main stem study (Bi-State Study 1994, 1996).</p> <p>Thallium: Station average total recoverable concentrations ranged from below detection (1.0 ug/l) to 1.1 ug/l with no value exceeding the Oregon freshwater lowest observable effects level (40 ug/l) at any of the 15 backwater sites. Filtered concentrations ranged from below detection to 1.2 ug/l with no values above the Oregon standard (Bi-State Study 1994, 1996).</p> <p>Zinc: Station average total recoverable concentration ranged from below detection limits (3.0 ug/l) to 16.7 ug/l. No values in the backwater study (out of 15 sites) exceeded Oregon freshwater and saltwater standards (57 and 86 ug/l respectively). Filtered concentrations were generally below detection, except</p>	Did not meet listing criteria	Potential Concern	Addition

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					USGS Data	<p>for zinc detected in one sample at each of five stations with no values above the Oregon standard. 3 out of 45 main stem sites exceeded the total recoverable standard (Bi-State Study 1994, 1996).</p> <p>Cyanide: Cyanide was not detected above the laboratory detection limit of 2 ug/l in any sample. The detection limit is lower than the 5.2 ug/l freshwater standard but is slightly higher than the saltwater standard of 1 ug/l (Bi-State Study 1994, 1996).</p>			

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Mouth to Tenasillahe Island	10--COLU0	Toxics	Metals (Water)(Lead)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Lead: Total recoverable concentrations measured in the Backwater study ranged from below detection (0.8 ug/l) to 2.0 ug/l with a median concentration equivalent to the detection limit. The Oregon standard (1.3 ug/l based on a hardness of 50 mg/l) was exceeded at three sites. Filtered lead concentrations were generally below the detection limit of 0.8 ug/l with the exception of lead detected in one of the three field replicate samples at each of three sites. The average concentrations were all below the Washington freshwater dissolved standard of 0.9 ug/l. Total recoverable values exceeded the Oregon standard at 21 of 45 main stem sites (Bi-State Study 1994, 1996).</p> <p>However, Professional judgment was used to establish the status of segment for metals in the water column as a potential concern because of quality assurance concerns with the data and the reduction in detections in later studies (1993 data showed 1 of 15 samples exceeded the water quality criteria, the USGS did not analyze for lead) due to better analytical methods. The Bi-state Report noted that there was difficulty in measuring relatively low concentrations of metals in ambient waters and that the accurate measurement and evaluation of water column concentrations of metals in the Lower Columbia River has been a recurring problem. Because of these Quality Assurance concerns identified with the 1991 main stem study, greater reliance was placed on the backwater study completed in 1993 and the USGS data from 1994. In addition the 1991 data is whole water samples, the 1993 data is both total and filtered values and the 1994 data is filtered. All concentrations decreased between</p>	Did not meet listing criteria	Potential Concern	Addition

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					USGS Data	studies which is believed to be the result of better QA procedures and better analytical methods. For these reasons and the limited sampling at each site, this data was used to identify which parameters may be of concern rather than listing the segment.			
		Toxics	Arsenic (Water)	Year Around	USGS data, Bi-state Program	USGS data from 4 sites (Warrendale, Hayden Island, Columbia and Beaver): 14 of 16 samples exceeded Water Quality Standard for Arsenic, Table 20. Values where 1ug/l.		303(d) List	Addition
Tenasillahe Island to Willamette River	10--COLU037	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DOE (1993), WA DOE 303d List, CSOs - Portland	WA DOE Data: Greater than 10% of the samples exceeded fecal coliform standard (400) near Sauvie Island (Hallock and Ehinger, 1993); Combined Sewer Overflows are present in Portland; Listed for Fecal Coliform on WA DOE 303(d) list.		303(d) List	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Bi-State (93, 94); WA DOE 303(d) List	Bi-state Data - Task 6: Reconnaissance Report (Tetra Tech, 1993).		303(d) List	
		pH		Spring	DOE (93); CORP (94); Wa DOE 303(d) list	DEQ Data (Site 402293; RM 102.5): 42% (3 of 7) Spring values exceed pH standard (6.5 - 8.5) with a maximum of 8.6 between 91-95; USGS Data: 2 of 17 values exceeded standard in April/May in 1994 (USGS, 1996).		303(d) List	
		Temperature		Summer	COE Data (1993); USGS (1995); WA DOE 303(d) List	USGS Data (3 Sites): Temperature standard (68) is exceeded 10%/75%/10% at Bradwood; 25%/75%/10% at Kalama; and 25%/75%/25% at Warrendale for the July/Aug/Sep values with maximums of 72.1, 73.8, 72.0 respectively based on daily mean values between 1969-92.		303(d) List	
		Total Dissolved Gas		Year Around	COE Data (1993); WA DOE 303(d) List; NMFS (1995)	1993 Dissolved Gas Monitoring for the Columbia and Snake Rivers (US Army Corp of Engineers, 1993), Fuhrer et al (USGS, 1995).		303(d) List	

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tenasillahe Island to Willamette River	10--COLU037	Toxics	Radionuclides		Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Elevated concentrations of radionuclides were detected, however, a standard or other listing criteria were not exceeded. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that bioassays did not show any toxicity (May 1996)).	Did not meet listing criteria	Potential Concern	

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tenasillahe Island to Willamette River	10--COLU037	Toxics	Metals (Water)(Copper)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Copper: Station average total recoverable copper concentrations ranged from 1.0 to 4.6 ug/l in the backwater study with the EPA and Oregon freshwater standard of 6.5 ug/l not exceeded at any of the stations but the saltwater standard (2.9 ug/l) was exceeded at Youngs Bay once out of 15 total sites. Filtered copper concentrations were all below the laboratory detection limit of 1.0 ug/l and did not exceed the Washington freshwater dissolved standard of 5.6 ug/l. 7 of 45 values exceeded the total recoverable standard in the main stem study (Bi-State Study 1994, 1996).</p> <p>However, Professional judgment was used to establish the status of segment for metals in the water column as a potential concern because of quality assurance concerns with the data and the reduction in detections in later studies (1993 data showed 1 of 15 samples exceeded the water quality criteria and USGS found 0 exceedences during 4 sampling events at 4 sites) due to better analytical methods. The Bi-state Report noted that there was difficulty in measuring relatively low concentrations of metals in ambient waters and that the accurate measurement and evaluation of water column concentrations of metals in the Lower Columbia River has been a recurring problem. Because of these Quality Assurance concerns identified with the 1991 main stem study, greater reliance was placed on the backwater study completed in 1993 and the USGS data from 1994. In addition the different samples were not comparable because the 1991 data were whole water samples, the 1993 data was total and filtered values and the 1994 data is filtered. All concentrations decreased</p>	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Columbia River</i>	Sub	<i>Lower Columbia</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
					USGS Data	between studies which is believed to be the result of better QA procedures and analytical methods. For these reasons and the limited sampling at each site, this data was used to identify which parameters may be of concern rather than listing the segment.			
		Toxics	Arsenic (Water)	Year Around	USGS Data, Bi-state Program	USGS data from 4 sites (Warrendale, Hayden Island, Columbia and Beaver): 14 of 16 samples exceeded Water Quality Standard for Arsenic, Table 20. Values where 1ug/l.		303(d) List	Addition

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tenasillahe Island to Willamette River	10--COLU037	Toxics	Metals (Water)(Lead)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Lead: Total recoverable concentrations measured in the Backwater study ranged from below detection (0.8 ug/l) to 2.0 ug/l with a median concentration equivalent to the detection limit. The Oregon standard (1.3 ug/l based on a hardness of 50 mg/l) was exceeded at three sites. Filtered lead concentrations were generally below the detection limit of 0.8 ug/l with the exception of lead detected in one of the three field replicate samples at each of three sites. The average concentrations were all below the Washington freshwater dissolved standard of 0.9 ug/l. Total recoverable values exceeded the Oregon standard at 21 of 45 main stem sites (Bi-State Study 1994, 1996).</p> <p>However, Professional judgment was used to establish the status of segment for metals in the water column as a potential concern because of quality assurance concerns with the data and the reduction in detections in later studies (1993 data showed 1 of 15 samples exceeded the water quality criteria, the USGS did not analyze for lead) due to better analytical methods. The Bi-state Report noted that there was difficulty in measuring relatively low concentrations of metals in ambient waters and that the accurate measurement and evaluation of water column concentrations of metals in the Lower Columbia River has been a recurring problem. Because of these Quality Assurance concerns identified with the 1991 main stem study, greater reliance was placed on the backwater study completed in 1993 and the USGS data from 1994. In addition the 1991 data is whole water samples, the 1993 data is both total and filtered values and the 1994 data is filtered. All concentrations decreased between</p>	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Columbia River</i>	Sub	<i>Lower Columbia</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
					USGS Data	studies which is believed to be the result of better QA procedures and better analytical methods. For these reasons and the limited sampling at each site, this data was used to identify which parameters may be of concern rather than listing the segment.			
		Toxics	Semi-Volatiles PAHs (Sediment)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Benzo(a)anthracene, Benzo(g,h,i)perylene, Chrysene, 4-Methylphenol, Pyrene and Total PAHs were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature. No standard or other listing guidance values were exceeded, however, because of the screening guidance values exceedence and one indeterminate bioassay test, DEQ includes the segment in the Decision Matrix as a Potential Concern.	Did not meet listing criteria	Potential Concern	

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tenasillahe Island to Willamette River	10--COLU037	Toxics	Trace Metals (Sediment)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>Arsenic, Cadmium, Chromium, Copper, Iron, Mercury, Nickel, Silver, Zinc, Cyanide and Tributyltin were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>No standard or other listing guidance values were exceeded, however, because of the screening guidance values exceedence and one indeterminate bioassay test, DEQ includes the segment in the Decision Matrix as a Potential Concern.</p> <p>Arsenic: Sediment arsenic concentrations ranged from 3.6 to 13.6 mg/kg with concentrations exceeding the Ontario's lowest effect level of 6 mg/kg at 4 of 15 backwater sites. 1 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Cadmium: Sediment cadmium concentrations ranged from 0.49 to 1.9 mg/kg with concentrations exceeding Ontario's lowest effect level of 0.6 mg/kg at 14 of 15 backwater sites. 8 of 54</p>	Did not meet listing criteria	Potential Concern	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Columbia River</i>	Sub	<i>Lower Columbia</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
						<p>main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Chromium: Sediment chromium concentrations ranged from 14.8 to 31.1 mg/kg with concentrations exceeding Ontario's lowest effect level of 26 mg/kg at 2 of 15 backwater sites. 0 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Copper: Sediment copper concentrations ranged from 19.3 to 49.9 mg/kg with concentrations exceeding Ontario's lowest effect level of 16 mg/kg at 14 of 15 backwater sites. 8 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Iron: Sediment iron concentrations ranged from 15,500 to 39,000 mg/kg with concentrations exceeding Ontario's lowest effect level of 20,000 mg/kg at 9 of 15 backwater sites. 3 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Nickel: Sediment nickel concentrations ranged from 14.0 to 24.8 mg/kg with concentrations exceeding Ontario's lowest effect level of 16 mg/kg at 7 of 15 backwater sites. 1 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Silver: Sediment silver concentrations was detected at only one site (3.1 mg/kg) with detection limits ranging from 0.08 to 0.49 mg/kg with concentrations at the one site exceeding Ontario's lowest effect level of 0.5</p>			

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
		Toxics	Dioxins/Furans (Sediment)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>mg/kg out of 15 backwater sites. 6 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Zinc: Sediment zinc concentrations ranged from 68.3 to 155 mg/kg with concentrations exceeding Ontario's lowest effect level of 120 mg/kg at 4 of 15 backwater sites. 2 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Dioxins/Furans were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>No standard or other listing guidance values were exceeded, however, because of the screening guidance values exceedence and one indeterminate bioassay test, DEQ includes the segment in the Decision Matrix as a Potential Concern.</p>	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tenasillahe Island to Willamette River	10--COLU037	Toxics	Metals (Water)(Iron)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	Iron: Total recoverable concentrations ranged from 188 to 2, 523 ug/l with only one value exceeding the Oregon Standard (1,000 ug/l) at one backwater site out of 15. Filtered concentrations ranged form 6 to 442 ug/l (there is not recommended criteria for dissolved iron as it is not considered a priority toxic pollutant by EPA). 4 out of 45 sites exceeded the total recoverable standard in the main stem study. The measured concentrations of iron were typical of unpolluted waters and were primarily associated with the fine particulate clays that are transported with the suspended sediments of the river (Bi-State Study 1994, 1996).	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tenasillahe Island to Willamette River	10--COLU037	Toxics	Pesticides (Sediment)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>Aldrin, Alpha-BNC, Delta-BHC, Dieldrin, Endin, DDD, DDE and DDT were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>No standard or other listing guidance values were exceeded, however, because of the screening guidance values exceedence and one indeterminate bioassay test, DEQ includes the segment in the Decision Matrix as a Potential Concern. Levels of DDE/DDT found in some fish (carp, peamouth, sucker) exceed health criteria, OR/WA Health Depts have issued recommendations regarding fish consumption for particular groups (WSDH/OHD,96); reduced bald eagle reproduction in LCR noted (USFWS,96).</p>	Did not meet listing criteria	Potential Concern	
		Toxics	Tissue - Pesticides (DDE, DDT)		Bi-State (93, 94);94 304(l) list, Part B;WA 303(d)				303(d) List

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tenasillahe Island to Willamette River	10--COLU037	Toxics	Metals (Water)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Cadmium: Neither total recoverable nor filtered cadmium were detected above the laboratory detection limit of 0.18 ug/l in any backwater sample (15 sites) which was lower than both the lowest total recoverable standard (freshwater) of 0.7 ug/l and the Washington (freshwater) dissolved standard of 0.6 ug/l. Only 3 of 45 samples had detectable concentrations in the main stem study with only one value above any standard (Bi-State Study 1994, 1996).</p> <p>Selenium: In general, total recoverable and filtered selenium were not detected above lab detection limits of 3.0 ug/l, except for one sample in the backwater study (15 total sites). The reported concentrations were all lower than freshwater and marine standards of 5.0 and 71 ug/l respectively. 3 of 45 values exceeded the total recoverable standard in the main stem study (Bi-State Study 1994, 1996).</p> <p>Thallium: Station average total recoverable concentrations ranged from below detection (1.0 ug/l) to 1.1 ug/l with no value exceeding the Oregon freshwater lowest observable effects level (40 ug/l) at any of the 15 backwater sites. Filtered concentrations ranged from below detection to 1.2 ug/l with no values above the Oregon standard (Bi-State Study 1994, 1996).</p> <p>Zinc: Station average total recoverable concentration ranged from below detection limits (3.0 ug/l) to 16.7 ug/l. No values in the backwater study (out of 15 sites) exceeded Oregon freshwater and saltwater standards (57 and 86 ug/l respectively). Filtered concentrations were generally below detection, except</p>	Did not meet listing criteria	Potential Concern	Addition

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Basin	<i>Columbia River</i>	Sub	<i>Lower Columbia</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
					USGS Data	for zinc detected in one sample at each of five stations with no values above the Oregon standard. 3 out of 45 main stem sites exceeded the total recoverable standard (Bi-State Study 1994, 1996).			
						Cyanide: Cyanide was not detected above the laboratory detection limit of 2 ug/l in any sample. The detection limit is lower than the 5.2 ug/l freshwater standard but is slightly higher than the saltwater standard of 1 ug/l (Bi-State Study 1994, 1996).			
		Toxics	Pesticides (Water)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Atrazine, Dacthal, Deethylatrazine, Eptam, Lindane, Metolachlor, Napropamide and Simazine were found but either do not have or were below any water quality standard, guidance level or guidance values. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Tissue - 2,3,7,8 - TCDD (Dioxin)		EPA (91); Bi-State (93,94); 94 304(l) list, Part B	Levels of Dioxins found in some fish (carp, peamouth, sucker) exceed health criteria, OR/WA Health Depts have issued recommendations regarding fish consumption for particular groups (WSDH/OHD,96); reduced bald eagle reproduction in LCR noted (USFWS,96).	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
		Toxics	Metals (Water)(Mercury)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	Mercury: In general, total recoverable and filtered mercury were not detected above the laboratory detection limit of 0.11 ug/l, except for one total recoverable replicate sample in the back water study (out of 15 and 45 total samples in the backwater and main stem surveys, respectively). It is possible that the average total recoverable concentration exceeded the freshwater standard of 0.012 ug/l, however detection limits were too high for an adequate evaluation. Additional sampling with lower detection limits is recommended (Bi-State Study 1994, 1996).	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tenasillahe Island to Willamette River	10--COLU037	Toxics	Water Column - 2,3,7,8 - TCDD (Dioxin)		EPA (91); Bi-State (93,94); 94 304(l) list, Part A	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
		Toxics	Tissue - PCB		Bi-State (93, 94); 94 304(l) list, Part B	Levels of PCBs found in some fish (carp, peamouth, sucker) exceed health criteria, OR/WA Health Depts have issued recommendations regarding fish consumption for particular groups (WSDH/OHD,96); reduced bald eagle reproduction in LCR noted (USFWS,96).		303(d) List	

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tenasillahe Island to Willamette River	10--COLU037	Toxics	Trace Metals (Sediment)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>Antimony, Lead, Mercury and Cyanide Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem.</p> <p>Antimony: Sediment antimony was not detected at any station out of 15 backwater sites. Lowest detection limits ranged from 0.23 mg/kg to 0.41 mg/kg which were lower than the Ontario reference level of 2 mg/kg (Bi-State Study 1994, 1996).</p> <p>Lead: Sediment lead concentrations ranged from detection limits (9.5 - 18.1 mg/kg) to 26.3 mg/kg with no concentrations exceeding Ontario's lowest effect level of 31 mg/kg at 15 backwater sites. 0 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Mercury: Sediment mercury concentrations ranged from 0.06 to 0.18 mg/kg with concentrations exceeding Long and Morgan's ER-L of 0.15 mg/kg at 1 of 15 backwater sites. 0 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Cyanide: Sediment cyanide concentrations were detected at one station (0.172 mg/kg) (detection limit of 0.1 mg/kg). The concentration exceeded Ontario's lowest effect level of 0.1 mg/kg out of 15 backwater sites.</p>	Did not meet listing criteria	OK	Addition

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tenasillahe Island to Willamette River	10--COLU037	Toxics	Metals (Water)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Antimony: Antimony was not detected above the laboratory detection limit of 3.0 ug/l in the total recoverable or filtered metals samples except at one site out of 15 backwater sites where it was at detection levels and at 0 of 45 main stem sites. All concentrations were below EPA criterion of 30 ug/l (Bi-State Study 1994, 1996).</p> <p>Beryllium: Neither total recoverable nor filtered beryllium were detected above laboratory detection limit of 2.0 ug/l which was lower than EPA lowest observed effects level of 5.3 ug/l for freshwater organism at 15 backwater and 45 main stem sites (Bi-State Study 1994, 1996).</p> <p>Chromium: Total recoverable chromium was infrequently (1 of 15 and 3 of 45 samples in backwater and main stem studies respectively) and filtered chromium was not detected in the backwater study above the detection limit of 1.0 ug/l. These concentrations were lower than the chronic freshwater and saltwater standards of 50 and 11 ug/l, respectively (Bi-State Study 1994, 1996).</p> <p>Nickel: Station average total recoverable nickel ranged from below detection (5.0 ug/l) to 6.0ug/l and did not exceed the Oregon standard (88 ug/l) at any of the 15 backwater sites. Filtered nickel concentrations were generally below detection limits of 5.0 ug/l and did not exceed Washington freshwater and saltwater dissolved standards of 83 and 7.9 ug/l, respectively (Bi-State Study 1994, 1996).</p> <p>Thallium: Station average total recoverable concentrations ranged from below detection (1.0 ug/l) to 1.1 ug/l with</p>	Did not meet listing criteria	OK	Addition

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Basin	<i>Columbia River</i>	Sub	<i>Lower Columbia</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
					USGS Data	<p>no value exceeding the Oregon freshwater lowest observable effects level (40 ug/l) at any of the 15 backwater sites. Filtered concentrations ranged from below detection to 1.2 ug/l with no values above the Oregon standard (Bi-State Study 1994, 1996).</p> <p>Zinc: Station average total recoverable concentration ranged from below detection limits (3.0 ug/l) to 16.7 ug/l. No values in the backwater study (out of 15 sites) exceeded Oregon freshwater and saltwater standards (57 and 86 ug/l respectively). Filtered concentrations were generally below detection, except for zinc detected in one sample at each of five stations with no values above the Oregon standard. 3 out 45 main stem sites exceeded the total recoverable standard (Bi-State Study 1994, 1996).</p> <p>Cyanide: Cyanide was not detected above the laboratory detection limit of 2 ug/l in any sample. The detection limit is lower than the 5.2 ug/l freshwater standard but is slightly higher than the saltwater standard of 1 ug/l (Bi-State Study 1994, 1996).</p>			

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tenasillahe Island to Willamette River	10--COLU037	Toxics	Metals (Water)(Silver)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	Silver: In general, total recoverable and filtered silver were not detected above the laboratory detection limit of 1.0 ug/l, except for one total recoverable replicate sample in the back water study (out of 15 and 45 total samples in the backwater and main stem surveys, respectively). It is possible that the average total recoverable concentration exceeded the freshwater standard of 0.12 ug/l, however detection limits were too high for an adequate evaluation. Additional sampling with lower detection limits is recommended (Bi-State Study 1994, 1996).	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Metals (Water)(Aluminum)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Aluminum exceeded EPA guidance values of 87 ug/l at 15 of 15 backwater sites and 11 of 45 main stem sites. Aluminum is not considered a priority toxic pollutant by EPA (which has not determined dissolved concentrations standards for this metal). The measured concentrations were typical of unpolluted waters and are primarily associated with the fine particulate clays that are transported with the suspended sediments of the river (Bi-State Study 1994, 1996). Additionally, DEQ does not have a standard for Aluminum.	Did not meet listing criteria	OK	Addition
Willamette River to Bonneville Dam	10--COLU102	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	DOE (93), USGS (95), Bi-State (93, 94)	WA DOE Data: Less than 10% of the samples exceeded fecal coliform standard (400) between Willamette and Bonneville Dam (Hallock and Ehinger, 1993); USGS Data: Historical data (76-94) indicates consistently low concentrations (<40) (Fuhrer et al, 1996).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	USGS (1995)	Bi-state Data - Task 6: Reconnaissance Report (Tetra Tech, 1993), Fuhrer et al (USGS, 1995).	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	pH		Spring	DOE (93); CORP (94); Wa DOE 303(d) list	DEQ Data (Site 402293; RM 102.5): 42% (3 of 7) Spring values exceed pH standard (6.5 - 8.5) with a maximum of 8.6 between 91-95; USGS Data: 2 of 17 values exceeded standard in April/May in 1994 (USGS, 1996).		303(d) List	
		Temperature		Summer	COE Data (93); USGS (90-92,95); WA DOE 303(d) List	USGS Data (3 Sites): Temperature standard (68) is exceeded 10%/75%/10% at Bradwood; 25%/75%/10% at Kalama; and 25%/75%/25% at Warrendale for the July/Aug/Sep values with maximums of 72.1, 73.8, 72.0 respectively based on daily mean values between 1969-92.		303(d) List	
		Total Dissolved Gas		Year Around	COE Data (1993); WA DOE 303(d) List; NMFS (1995)	1993 Dissolved Gas Monitoring for the Columbia and Snake Rivers (US Army Corp of Engineers, 1993), Fuhrer et al (USGS, 1995).		303(d) List	

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Metals (Water)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Cadmium: Neither total recoverable nor filtered cadmium were detected above the laboratory detection limit of 0.18 ug/l in any backwater sample (15 sites) which was lower than both the lowest total recoverable standard (freshwater) of 0.7 ug/l and the Washington (freshwater) dissolved standard of 0.6 ug/l. Only 3 of 45 samples had detectable concentrations in the main stem study with only one value above any standard (Bi-State Study 1994, 1996).</p> <p>Selenium: In general, total recoverable and filtered selenium were not detected above lab detection limits of 3.0 ug/l, except for one sample in the backwater study (15 total sites). The reported concentrations were all lower than freshwater and marine standards of 5.0 and 71 ug/l respectively. 3 of 45 values exceeded the total recoverable standard in the main stem study (Bi-State Study 1994, 1996).</p> <p>Thallium: Station average total recoverable concentrations ranged from below detection (1.0 ug/l) to 1.1 ug/l with no value exceeding the Oregon freshwater lowest observable effects level (40 ug/l) at any of the 15 backwater sites. Filtered concentrations ranged from below detection to 1.2 ug/l with no values above the Oregon standard (Bi-State Study 1994, 1996).</p> <p>Zinc: Station average total recoverable concentration ranged from below detection limits (3.0 ug/l) to 16.7 ug/l. No values in the backwater study (out of 15 sites) exceeded Oregon freshwater and saltwater standards (57 and 86 ug/l respectively). Filtered concentrations were generally below detection, except</p>	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Columbia River</i>	Sub	<i>Lower Columbia</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
					USGS Data	<p>for zinc detected in one sample at each of five stations with no values above the Oregon standard. 3 out of 45 main stem sites exceeded the total recoverable standard (Bi-State Study 1994, 1996).</p> <p>Cyanide: Cyanide was not detected above the laboratory detection limit of 2 ug/l in any sample. The detection limit is lower than the 5.2 ug/l freshwater standard but is slightly higher than the saltwater standard of 1 ug/l (Bi-State Study 1994, 1996).</p>			
		Toxics	Metals (Water)(Mercury)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	Mercury: In general, total recoverable and filtered mercury were not detected above the laboratory detection limit of 0.11 ug/l, except for one total recoverable replicate sample in the back water study (out of 15 and 45 total samples in the backwater and main stem surveys, respectively). It is possible that the average total recoverable concentration exceeded the freshwater standard of 0.012 ug/l, however detection limits were too high for an adequate evaluation. Additional sampling with lower detection limits is recommended (Bi-State Study 1994, 1996).	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Metals (Water)(Copper)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Copper: Station average total recoverable copper concentrations ranged from 1.0 to 4.6 ug/l in the backwater study with the EPA and Oregon freshwater standard of 6.5 ug/l not exceeded at any of the stations but the saltwater standard (2.9 ug/l) was exceeded at Youngs Bay once out of 15 total sites. Filtered copper concentrations were all below the laboratory detection limit of 1.0 ug/l and did not exceed the Washington freshwater dissolved standard of 5.6 ug/l. 7 of 45 values exceeded the total recoverable standard in the main stem study (Bi-State Study 1994, 1996).</p> <p>However, Professional judgment was used to establish the status of segment for metals in the water column as a potential concern because of quality assurance concerns with the data and the reduction in detections in later studies (1993 data showed 1 of 15 samples exceeded the water quality criteria and USGS found 0 exceedences during 4 sampling events at 4 sites) due to better analytical methods. The Bi-state Report noted that there was difficulty in measuring relatively low concentrations of metals in ambient waters and that the accurate measurement and evaluation of water column concentrations of metals in the Lower Columbia River has been a recurring problem. Because of these Quality Assurance concerns identified with the 1991 main stem study, greater reliance was placed on the backwater study completed in 1993 and the USGS data from 1994. In addition the different samples were not comparable because the 1991 data were whole water samples, the 1993 data was total and filtered values and the 1994 data is filtered. All concentrations decreased</p>	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Columbia River</i>	Sub	<i>Lower Columbia</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
					USGS Data	between studies which is believed to be the result of better QA procedures and analytical methods. For these reasons and the limited sampling at each site, this data was used to identify which parameters may be of concern rather than listing the segment.			

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Trace Metals (Sediment)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>Antimony, Lead, Mercury and Cyanide Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem.</p> <p>Antimony: Sediment antimony was not detected at any station out of 15 backwater sites. Lowest detection limits ranged from 0.23 mg/kg to 0.41 mg/kg which were lower than the Ontario reference level of 2 mg/kg (Bi-State Study 1994, 1996).</p> <p>Lead: Sediment lead concentrations ranged from detection limits (9.5 - 18.1 mg/kg) to 26.3 mg/kg with no concentrations exceeding Ontario's lowest effect level of 31 mg/kg at 15 backwater sites. 0 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Mercury: Sediment mercury concentrations ranged from 0.06 to 0.18 mg/kg with concentrations exceeding Long and Morgan's ER-L of 0.15 mg/kg at 1 of 15 backwater sites. 0 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Cyanide: Sediment cyanide concentrations were detected at one station (0.172 mg/kg) (detection limit of 0.1 mg/kg). The concentration exceeded Ontario's lowest effect level of 0.1 mg/kg out of 15 backwater sites.</p>	Did not meet listing criteria	OK	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Metals (Water)(Iron)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	Iron: Total recoverable concentrations ranged from 188 to 2, 523 ug/l with only one value exceeding the Oregon Standard (1,000 ug/l) at one backwater site out of 15. Filtered concentrations ranged form 6 to 442 ug/l (there is not recommended criteria for dissolved iron as it is not considered a priority toxic pollutant by EPA). 4 out of 45 sites exceeded the total recoverable standard in the main stem study. The measured concentrations of iron were typical of unpolluted waters and were primarily associated with the fine particulate clays that are transported with the suspended sediments of the river (Bi-State Study 1994, 1996).	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Metals (Water)(Lead)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Lead: Total recoverable concentrations measured in the Backwater study ranged from below detection (0.8 ug/l) to 2.0 ug/l with a median concentration equivalent to the detection limit. The Oregon standard (1.3 ug/l based on a hardness of 50 mg/l) was exceeded at three sites. Filtered lead concentrations were generally below the detection limit of 0.8 ug/l with the exception of lead detected in one of the three field replicate samples at each of three sites. The average concentrations were all below the Washington freshwater dissolved standard of 0.9 ug/l. Total recoverable values exceeded the Oregon standard at 21 of 45 main stem sites (Bi-State Study 1994, 1996).</p> <p>However, Professional judgment was used to establish the status of segment for metals in the water column as a potential concern because of quality assurance concerns with the data and the reduction in detections in later studies (1993 data showed 1 of 15 samples exceeded the water quality criteria, the USGS did not analyze for lead) due to better analytical methods. The Bi-state Report noted that there was difficulty in measuring relatively low concentrations of metals in ambient waters and that the accurate measurement and evaluation of water column concentrations of metals in the Lower Columbia River has been a recurring problem. Because of these Quality Assurance concerns identified with the 1991 main stem study, greater reliance was placed on the backwater study completed in 1993 and the USGS data from 1994. In addition the 1991 data is whole water samples, the 1993 data is both total and filtered values and the 1994 data is filtered. All concentrations decreased between</p>	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Columbia River</i>	Sub	<i>Lower Columbia</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
					USGS Data	studies which is believed to be the result of better QA procedures and better analytical methods. For these reasons and the limited sampling at each site, this data was used to identify which parameters may be of concern rather than listing the segment.			

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Metals (Water)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	<p>Antimony: Antimony was not detected above the laboratory detection limit of 3.0 ug/l in the total recoverable or filtered metals samples except at one site out of 15 backwater sites where it was at detection levels and at 0 of 45 main stem sites. All concentrations were below EPA criterion of 30 ug/l (Bi-State Study 1994, 1996).</p> <p>Beryllium: Neither total recoverable nor filtered beryllium were detected above laboratory detection limit of 2.0 ug/l which was lower than EPA lowest observed effects level of 5.3 ug/l for freshwater organism at 15 backwater and 45 main stem sites (Bi-State Study 1994, 1996).</p> <p>Chromium: Total recoverable chromium was infrequently (1 of 15 and 3 of 45 samples in backwater and main stem studies respectively) and filtered chromium was not detected in the backwater study above the detection limit of 1.0 ug/l. These concentrations were lower than the chronic freshwater and saltwater standards of 50 and 11 ug/l, respectively (Bi-State Study 1994, 1996).</p> <p>Nickel: Station average total recoverable nickel ranged from below detection (5.0 ug/l) to 6.0ug/l and did not exceed the Oregon standard (88 ug/l) at any of the 15 backwater sites. Filtered nickel concentrations were generally below detection limits of 5.0 ug/l and did not exceed Washington freshwater and saltwater dissolved standards of 83 and 7.9 ug/l, respectively (Bi-State Study 1994, 1996).</p> <p>Thallium: Station average total recoverable concentrations ranged from below detection (1.0 ug/l) to 1.1 ug/l with</p>	Did not meet listing criteria	OK	Addition

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Basin	<i>Columbia River</i>	Sub	<i>Lower Columbia</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
					USGS Data	<p>no value exceeding the Oregon freshwater lowest observable effects level (40 ug/l) at any of the 15 backwater sites. Filtered concentrations ranged from below detection to 1.2 ug/l with no values above the Oregon standard (Bi-State Study 1994, 1996).</p> <p>Zinc: Station average total recoverable concentration ranged from below detection limits (3.0 ug/l) to 16.7 ug/l. No values in the backwater study (out of 15 sites) exceeded Oregon freshwater and saltwater standards (57 and 86 ug/l respectively). Filtered concentrations were generally below detection, except for zinc detected in one sample at each of five stations with no values above the Oregon standard. 3 out 45 main stem sites exceeded the total recoverable standard (Bi-State Study 1994, 1996).</p> <p>Cyanide: Cyanide was not detected above the laboratory detection limit of 2 ug/l in any sample. The detection limit is lower than the 5.2 ug/l freshwater standard but is slightly higher than the saltwater standard of 1 ug/l (Bi-State Study 1994, 1996).</p>			

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Willamette River to Bonneville Dam	10--COLU102	Toxics	Metals (Water)(Silver)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data;	Silver: In general, total recoverable and filtered silver were not detected above the laboratory detection limit of 1.0 ug/l, except for one total recoverable replicate sample in the back water study (out of 15 and 45 total samples in the backwater and main stem surveys, respectively). It is possible that the average total recoverable concentration exceeded the freshwater standard of 0.12 ug/l, however detection limits were too high for an adequate evaluation. Additional sampling with lower detection limits is recommended (Bi-State Study 1994, 1996).	Did not meet listing criteria	Potential Concern	Addition	
		Toxics	Pesticides (Water)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Atrazine, Dacthal, Deethylatrazine, Eptam, Lindane, Metolachlor, Napropamide and Simazine were found but either do not have or were below any water quality standard, guidance level or guidance values. No other pesticides detected.	Did not meet listing criteria	OK	Addition	
		Toxics	Tissue - Pesticides (DDE, DDT)		Bi-State (93, 94);94 304(l) list, Part B;WA 303(d)	Levels of DDE/DDT found in some fish (carp, peamouth, sucker) exceed health criteria, OR/WA Health Depts have issued recommendations regarding fish consumption for particular groups (WSDH/OHD,96); reduced bald eagle reproduction in LCR noted (USFWS,96).			303(d) List	
		Toxics	Metals (Water)(Aluminum)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Aluminum exceeded EPA criteria of 87 ug/l at 15 of 15 backwater sites and 11 of 45 main stem sites. Aluminum is not considered a priority toxic pollutant by EPA (which has not determined dissolved concentrations standards for this metal). The measured concentrations were typical of unpolluted waters and are primarily associated with the fine particulate clays that are transported with the suspended sediments of the river (Bi-State Study 1994, 1996). Additionally, DEQ does not have a standard for Aluminum.	Did not meet listing criteria	OK	Addition	

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Arsenic (Water)	Year Around	USGS Data, Bi-state Program	USGS data from 4 sites (Warrendale, Hayden Island, Columbia and Beaver): 14 of 16 samples exceeded Water Quality Standard for Arsenic, Table 20. Values where 1ug/l.		303(d) List	Addition

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Trace Metals (Sediment)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>Arsenic, Cadmium, Chromium, Copper, Iron, Mercury, Nickel, Silver, Zinc, Cyanide and Tributyltin were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>No standard or other listing guidance values were exceeded, however, because of the screening guidance values exceedence and one indeterminate bioassay test, DEQ includes the segment in the Decision Matrix as a Potential Concern.</p> <p>Arsenic: Sediment arsenic concentrations ranged from 3.6 to 13.6 mg/kg with concentrations exceeding the Ontario's lowest effect level of 6 mg/kg at 4 of 15 backwater sites. 1 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Cadmium: Sediment cadmium concentrations ranged from 0.49 to 1.9 mg/kg with concentrations exceeding Ontario's lowest effect level of 0.6 mg/kg at 14 of 15 backwater sites. 8 of 54</p>	Did not meet listing criteria	Potential Concern	

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Basin	<i>Columbia River</i>	Sub	<i>Lower Columbia</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
						<p>main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Chromium: Sediment chromium concentrations ranged from 14.8 to 31.1 mg/kg with concentrations exceeding Ontario's lowest effect level of 26 mg/kg at 2 of 15 backwater sites. 0 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Copper: Sediment copper concentrations ranged from 19.3 to 49.9 mg/kg with concentrations exceeding Ontario's lowest effect level of 16 mg/kg at 14 of 15 backwater sites. 8 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Iron: Sediment iron concentrations ranged from 15,500 to 39,000 mg/kg with concentrations exceeding Ontario's lowest effect level of 20,000 mg/kg at 9 of 15 backwater sites. 3 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Nickel: Sediment nickel concentrations ranged from 14.0 to 24.8 mg/kg with concentrations exceeding Ontario's lowest effect level of 16 mg/kg at 7 of 15 backwater sites. 1 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Silver: Sediment silver concentrations was detected at only one site (3.1 mg/kg) with detection limits ranging from 0.08 to 0.49 mg/kg with concentrations at the one site exceeding Ontario's lowest effect level of 0.5</p>			

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Basin	<i>Columbia River</i>	Sub	<i>Lower Columbia</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
						<p>mg/kg out of 15 backwater sites. 6 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p> <p>Zinc: Sediment zinc concentrations ranged from 68.3 to 155 mg/kg with concentrations exceeding Ontario's lowest effect level of 120 mg/kg at 4 of 15 backwater sites. 2 of 54 main stem study sites exceeded the guidance values in 1991 (Bi-State Study 1994, 1996).</p>			

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Semi-Volatiles PAHs (Sediment)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Benzo(a)anthracene, Benzo(g,h,i)perylene, Chrysene, 4-Methylphenol, Pyrene and Total PAHs were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	
		Toxics	Radionuclides		Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Elevated concentrations of radionuclides were detected, however, a standard or other listing criteria were not exceeded. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that bioassays did not show any toxicity (May 1996)).	Did not meet listing criteria	Potential Concern	

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Pesticides (Sediment)	Year Around	The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	<p>Aldrin, Alpha-BNC, Delta-BHC, Dieldrin, Endin, DDD, DDE and DDT were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>No standard or other listing guidance values were exceeded, however, because of the screening guidance values exceedence and one indeterminate bioassay test, DEQ includes the segment in the Decision Matrix as a Potential Concern.</p>	Did not meet listing criteria	Potential Concern	

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Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Dioxins/Furans (Sediment)		The Health of the River 1990-1996: Integrated Technical Report May 1996; Identification of Sources of Pollutants to the Lower Columbia River Basin (DEQ, Draft, 6/96); Bi-State Study Data	Dioxins/Furans were found in elevated levels in sediments when compared to certain guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. There were no indications of a beneficial use impairment (The Tetra Tech studies completed for the Lower Columbia Bi-State Program noted that of 15 bioassays one showed acute toxicity, but the reason for the toxicity could not be determined, the other 14 showed not toxicity (May 1996)). For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Tissue - PCB		Bi-State (93, 94); 94 304(l) list, Part B	No standard or other listing guidance values were exceeded, however, because of the screening guidance values exceedence and one indeterminate bioassay test, DEQ includes the segment in the Decision Matrix as a Potential Concern. Levels of PCBs found in some fish (carp, peamouth, sucker) exceed health criteria, OR/WA Health Depts have issued recommendations regarding fish consumption for particular groups (WSDH/OHD,96); reduced bald eagle reproduction in LCR noted (USFWS,96).		303(d) List	
		Toxics	Tissue - 2,3,7,8 - TCDD (Dioxin)		EPA (91); Bi-State (93,94); 94 304(l) list, Part B	Levels of Dioxins found in some fish (carp, peamouth, sucker) exceed health criteria, OR/WA Health Depts have issued recommendations regarding fish consumption for particular groups (WSDH/OHD,96); reduced bald eagle reproduction in LCR noted (USFWS,96).	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Columbia River</i>		Sub <i>Lower Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River to Bonneville Dam	10--COLU102	Toxics	Water Column - 2,3,7,8 - TCDD (Dioxin)		EPA (91); Bi-State (93,94); 94 304(l) list, Part A	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
Bonneville Dam to The Dalles Dam	10--COLU146	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Year Around	Columbia Gorge Windsurfing Association	Data from two sites at Hood River (the Hook and Rowena) for May - Sept. 1997 show no exceedences of E. coli standard of 406/ml. Only one sample was above 100/ml (344).	Did not meet listing criteria	OK	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Columbia River</i>	Sub	<i>Middle Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Columbia River										
Bonneville Dam to The Dalles Dam	10--COLU146	Temperature		Summer	COE Data (1993); WA DOE 303(d) List	US Army Corp of Engineers, Systems Operation Review - Appendix M, Water Quality (1994). 1993 Dissolved Gas Monitoring for the Columbia and Snake Rivers (US Army Corp of Engineers, 1993). Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream		303(d) List		
		Total Dissolved Gas		Year Around	COE Data (1993); WA DOE 303(d) List; NMFS (1995)			303(d) List		
		Toxics	Tissue - 2,3,7,8 - TCDD (Dioxin)				EPA (91); Bi-State (93,94); 304(l) list, Part B	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
		Toxics	Water Column - 2,3,7,8 - TCDD (Dioxin)				EPA (91); Bi-State (93,94); 94 304(l) list, Part A	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
The Dalles Dam to John Day Dam	10--COLU191.6	Temperature		Summer	COE Data (1993); WA DOE 303(d) List	US Army Corp of Engineers, Systems Operation Review - Appendix M, Water Quality (1994). 1993 Dissolved Gas Monitoring for the Columbia and Snake Rivers (US Army Corp of Engineers, 1993). Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream		303(d) List		
		Total Dissolved Gas		Year Around	COE Data (1993); WA DOE 303(d) List; NMFS (1995)			303(d) List		
		Toxics	Water Column - 2,3,7,8 - TCDD (Dioxin)				EPA (91); Bi-State (93,94); 304(l) list, Part A	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
		Toxics	Tissue - 2,3,7,8 - TCDD (Dioxin)				EPA (91); Bi-State (93,94); 304(l) list, Part B	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Columbia River</i>	Sub	<i>Middle Columbia</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
John Day Dam to McNary Dam	10--COLU215.6	Temperature		Summer	COE Data (1993); WA DOE 303(d) List	US Army Corp of Engineers, Systems Operation Review - Appendix M, Water Quality (1994).		303(d) List		
		Total Dissolved Gas		Year Around	COE Data (1993); WA DOE 303(d) List; NMFS (1995)	1993 Dissolved Gas Monitoring for the Columbia and Snake Rivers (US Army Corp of Engineers, 1993).		303(d) List		
		Toxics	Tissue - 2,3,7,8 - TCDD (Dioxin)			EPA (91); Bi-State (93,94); 304(l) list, Part B	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
		Toxics	Water Column - 2,3,7,8 - TCDD (Dioxin)			EPA (91); Bi-State (93,94); 304(l) list, Part A	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
McNary Dam to Washington Border	10--COLU292	Temperature		Summer	COE Data (1993); WA DOE 303(d) List	US Army Corp of Engineers, Systems Operation Review - Appendix M, Water Quality (1994).		303(d) List		
		Total Dissolved Gas		Year Around	COE Data (1993); WA DOE 303(d) List; NMFS (1995)	1993 Dissolved Gas Monitoring for the Columbia and Snake Rivers (US Army Corp of Engineers, 1993).		303(d) List		
		Toxics	Tissue - 2,3,7,8 - TCDD (Dioxin)			EPA (91); Bi-State (93,94); 304(l) list, Part B	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
		Toxics	Water Column - 2,3,7,8 - TCDD (Dioxin)			EPA (91); Bi-State (93,94); 304(l) list, Part A	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	

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Basin <i>Deschutes</i>		Sub <i>Beaver Creek/South Fork Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Beaver Creek Mouth to Alkali Creek		25E-BEAV0							
		Flow Modification			USGS and WRD Data; IWR (ODFW); ODFW (1993); NPS Assessment - segment 89: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 89: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 89: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 89: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Beaverdam Creek Mouth to Headwaters		25E-BEAD0							
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data: 9 days exceeded temperature standard (64) in 1995 (see USFS (1991) for additional data).		303(d) List	
Camp Creek Mouth to Headwaters		25E-CAMP0							
		Flow Modification			NPS Assessment - segment 105: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 105: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 105: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Crooked River, South Fork Mouth to Headwaters		25E-CRSF0							
		Flow Modification			WRD Data; NPS Assessment - segment 600: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			ODFW		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 600: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>Deschutes</i>	Sub	<i>Beaver Creek/South Fork Crooked</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Dippingvat Creek Mouth to Headwaters	25E-DIPP0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Sites at National Forest boundary and River Mile 1.0): 31 and 67 days exceeded temperature standard (64) with maximums of 66 and 68 respectively in 1995 (see USFS (1993) for additional data).		303(d) List	
Powell Creek Mouth to Headwaters	25E-POWE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at National Forest boundary): 45 days with a maximum of 68 exceeded temperature standard (64) in 1995 (see USFS (1991, 1994) for additional data).		303(d) List	
Roba Creek Mouth to Headwaters	25E-ROBA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Sites at National Forest boundary and River Mile 1.25): 34 and 77 days exceeded temperature standard (64) with maximums of 65 and 73 respectively in 1995 (see USFS (1994) for additional data)		303(d) List	
Sugar Creek Mouth to Headwaters	25E-SUGA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at RM 0.1): 42, no data (for days in 1993), and 74 days exceeded previous standard (58) with maximum values of 74, 63, and 68 in 1991, 1993 and 1994 respectively (USFS, 91-93).		303(d) List	
Tamarack Creek Mouth to Headwaters	25E-TAMA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at National Forest boundary): 35 days exceeded temperature standard (64) with a maximum value of 65 in 1994 (see USFS (1994) for additional data).		303(d) List	
Twelvemile Creek Mouth to Long Hollow Creek	25E-TWEL0	Flow Modification				NPS Assessment - segment 90: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Habitat Modification				NPS Assessment - segment 90: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Deschutes</i>		Sub <i>Beaver Creek/South Fork Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Long Hollow Creek	25E-TWEL0	Sedimentation			NPS Assessment - segment 90: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 90: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wolf Creek, North Fork Mouth to Headwaters	25E-WONF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at National Forest boundary): 77 days with a maximum of 73 exceeded temperature standard in 1995 (see USFS (1991 and 1993) for additional data).		303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Little Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Big Marsh Creek Mouth to Headwaters	25C-MABI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Numerous sites): 7 day average of daily maximums were generally below standard (64), especially above the marsh, in 1989 and 1991.	Did not meet listing criteria	OK	
Crescent Creek Mouth to Crescent Lake	25C-CRES0	Flow Modification Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 31: severe, data (DEQ, 1988) USFS Data; ODFW Data; NPS Assessment - segment 31: severe, data (DEQ, 1988)	USFS Data (2 Sites: Above and Below Big Marsh Cr): 7 day average of daily maximums of 68.3/68.5 with 56/60 days respectively exceeding standard (64) in 1989; ODFW Data (RM 18.5): 7 day average of daily maximum of 73.6 with 102 days exceeding 64 in 1994.	No supporting data or information	Need Data 303(d) List	
East Lake Lake	25C.EAST	Toxics	Tissue: Mercury		DEQ Data	OSHD Fish Consumption Advisory: Average level of mercury was 0.64 ppm with large Brown Trout having levels approaching 3 ppm which exceeded national screening standard (0.6 ppm). Source of mercury is natural (OSHD, 1994).	Source of mercury is natural (OSHD, 1994). Removed from list because of natural conditions.	OK	Removed (4)
Little Deschutes River Mouth to Crescent Creek	25C-DELI0	Bacteria Flow Modification Habitat Modification Nutrients Sedimentation			NPS Assessment - segment 30: severe, data (DEQ, 1988) WRD Data; NPS Assessment - segment 30: severe, data (DEQ, 1988) NPS Assessment - segment 30: severe, data (DEQ, 1988) NPS Assessment - segment 30: severe, data (DEQ, 1988) NPS Assessment - segment 30: severe, data (DEQ, 1988)		No supporting data or information No supporting data or information No supporting data or information No supporting data or information No supporting data or information	Need Data Need Data Need Data Need Data Need Data	

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Basin <i>Deschutes</i>		Sub <i>Little Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Crescent Creek	25C-DELI0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data; NPS Assessment - segment 30: severe, data (DEQ, 1988)	ODFW Data (4 Sites between RM 62 - 80): 7 day average of daily maximums exceeded standard (64) with values ranging from approximately 68 to over 73 in 1994.		303(d) List	
Crescent Creek to Hemlock Creek	25C-DELI57	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data; NPS Assessment: severe, data (DEQ, 1988)	ODFW Data (4 Sites: Between RM 62.0 - 80.0): 7 day average of daily maximums exceeded standard (64) ranging from approximately 68 to over 73 in 1994.		303(d) List	
Paulina Creek									
Mouth to Paulina Lake	25C-PAUL0	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data (1992-1994)	USGS Data (Site 14063300; below Paulina Lake outlet): 7 day average of daily maximums of 70.9/64.9/71.9 with 69/8/65 days exceeding standard (64) in 1992/1993/1994 respectively.		303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Lower Crooked</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Allen Creek Mouth to Headwaters	25G-ALLE0	Flow Modification			WRD Data; NPS Assessment - segment 79: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 79: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 79: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 79: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Benefield Creek Mouth to Headwaters	25G-BENE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data: 0 days exceeded previous standard (58) with a maximum value of 56 recorded in 1991 (USFS, 1991).	Did not meet listing criteria	OK	
Canyon Creek Mouth to Headwaters	25G-CANY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at 1000 ft below O'Neil Creek): 55 days exceeded previous standard (58) with a maximum value of 69 recorded in 1994 (USFS, 1994).		303(d) List	
Coyle Creek Mouth to Headwaters	25G-COYL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Willow Creek): 53 days exceeded previous standard (58) with a maximum value of 67 recorded in 1994 (USFS, 1994).		303(d) List	
Crooked River Mouth to Baldwin Dam	25G-CROO0	Aquatic Weeds or Algae	Aquatic Growth		NPS Assessment: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 66: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402187 and 404084; RM 29.9 and 47.9): 36% (8 of 22) and 9% (1 of 11) Summer values exceeded fecal coliform standard (400) with maximum values of 1100 and 460 respectively between WY 86 - 95.		303(d) List	

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Basin <i>Deschutes</i>	Sub <i>Lower Crooked</i>									
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Baldwin Dam	25G-CROO0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 66: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402187, 404084; RM 29.9, 47.9): 10% (2 of 20) and 9% (1 of 11) of FWS values exceeded fecal coliform standard (400) with maximum values of 1100 and 460 respectively between WY 86 - 95.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ Data	DEQ Data (2 Sites: 402187 and 404084; RM 29.9 and 47.9): 2% (1 of 48) and 0% (0 of 24) of annual values exceeded rearing standard (8 mg/l) with a minimum of 7.3 and 9.5 respectively between WY 86 - 95 (cool/cold water fishery, rearing annually).	Did not meet listing criteria	OK		
		Flow Modification				USGS and WRD Data; IWR (ODFW); ODFW (1993); NPS Assessment - segment 66: moderate, data (DEQ, 1988)	Summer Steelhead populations are depressed in part due to low summer flows due to diversion from Prineville to below Smith Rocks and low flows during non-irrigation season for reservoir refill (IWR-70354, USGS gage-14080500), (ODFW, 1993).			303(d) List
		Habitat Modification				NPS Assessment - segment 66: moderate, data (DEQ, 1988)		No supporting data or information		Need Data
		Nutrients				NPS Assessment - segment 66: moderate, data (DEQ, 1988)		No supporting data or information		Need Data
		pH			Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 402187 and 404084; RM 29.9 and 47.9): 4% (1 of 24) and 42% (5 of 12) Summer values exceeded pH standard (6.5 - 8.5) with maximum values of 8.6 and 9.2 respectively between WY 86 - 95.			303(d) List
		pH			Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 402187 and 404084; RM 29.9 and 47.9): 8% (2 of 24) and 42% (5 of 12) FWS values exceeded standard (6.5 - 8.5) with maximum values of 8.6 and 8.7 respectively between WY 86 - 95.			303(d) List
		Sedimentation					NPS Assessment - segment 66: moderate, data (DEQ, 1988)		No supporting data or information	

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Basin <i>Deschutes</i>		Sub <i>Lower Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Baldwin Dam	25G-CROO0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; DEQ Data (TIP, 1994); NPS Assessment - segment 66: moderate, data (DEQ, 1988)	BLM Data (Site at Smith Rocks): 7 day average of daily maximum of 71.1 with 86 days exceeding standard (64) in 1994; DEQ Data (Site 402187; RM 29.9): 63% (15 of 24) exceeded standard with a maximum value of 74.3 between WY 86-95.		303(d) List	
Baldwin Dam to Prineville Reservoir	25G-CROO57	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	DEQ Data	DEQ Data (2 Sites: 402187 and 404084; RM 29.9 and 47.9): 2% (1 of 48) and 0% (0 of 24) of annual values exceeded rearing standard (8 mg/l) with minimums of 7.3 and 9.5 respectively between WY 86 - 95 (cold water fishery, rearing annually).	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (3 Sites: Below Bowman Dam; Near Hwy 27-MP8; At Castle Rock): 7 day average of daily maximums were 59.1/59.6 (with no values above 64); 63.4/nd ; and nd/61.0 in 1993/1994 respectively.	Did not meet listing criteria	OK	
		Total Dissolved Gas			ODFW (1989); Prineville Reservoir Management Plan (USBR, 1992)	ODFW Data: Rainbow Trout captured below Bowman Dam after high flows were discharged from the dam in 4/89 showed signs of "gas bubble disease" and elevated saturation levels (108 - 109%) were measured with a saturometer.		303(d) List	
Dry Creek Mouth to Headwaters	25G-DRY0	Flow Modification			WRD Data		No supporting data or information	Need Data	
Fintcher Creek Mouth to Headwaters	25G-FINT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at RM 0.01): 15/84 days exceeded previous standard (58) with maximum values of 63/67 recorded in 1991/1992 respectively (USFS, 1991, 1992). The stream did exceed the 64°F criteria in 1992, however, 1992 was a drought year and 1991 did not exceed the criteria.	Did not meet listing criteria	Potential Concern	

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Basin <i>Deschutes</i>	Sub	<i>Lower Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Harvey Creek Mouth to Headwaters	25G-HARV0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (1 Site): 7 day average of daily maximum of 68.8 with 37 days (based on running average) exceeding standard (64) in 1995. Data also available for 1991(USFS, 1991).		303(d) List	
Lemon Creek Mouth to Headwaters	25G-LEMO0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data: 7 days exceeded previous standard (58) with a maximum value of 74 recorded in 1991 (USFS, 1991).		303(d) List	
Little Hay Creek Mouth to Headwaters	25G-HALI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 65.3/59.3 with 16/0 days (based on running average) exceeding standard (64) in 1994/1995 respectively. 1994 data was not used because it was a drought year and a second years data was available.	Did not meet listing criteria	Potential Concern	
Little McKay Creek Mouth to Headwaters	25G-MCLI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (3 Sites: Data shown for site at mouth, Rd 33): 7 day average of daily maximums of 75.5/70.1 with 58/51 days (based on running average) exceeding standard (64) in 1994/1995. Data also available for 1991 - 1993 (USFS, 1991 - 1993).		303(d) List	
Marks Creek Mouth to Headwaters	25G-MARK0	Flow Modification			NPS Assessment - segments 106 & 620: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segments 106 & 620: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segments 106 & 620: moderate, observation (DEQ, 1988)	USFS Data (2 Sites): 7 day average of daily maximums of 85.0/71.9 with 72/48 days below Peterson Creek; 72.9/69.6 with 73/39 days above Little Hay Creek (based on running average) exceeded standard (64) in 1994/1995 respectively.		303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Lower Crooked</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
McKay Creek									
Mouth to Little McKay Creek	25G-MCKA0	Flow Modification			WRD Data; NPS Assessment - segments 78 & 619: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segments 78 & 619: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 78 & 619: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segments 78 & 619: severe, observation (DEQ, 1988)	USFS Data (2 Sites: Data shown for site at National Forest boundary): 7 day average of daily max of 78.4/72.2 with 63/58 days (based on running average) exceeding standard (64) in 1994/1995 respectively. Data also available for 1991-1993 (USFS, 91-93).		303(d) List	
Mill Creek									
Mouth to Headwaters	25G-MILLO	Flow Modification			NPS Assessment - segment 80: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 80: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 80: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 80: severe, observation (DEQ, 1988)	USFS Data (2 Sites: Data shown for site at National Forest boundary): 7 day average of daily maximums of 76.9/76.2 with 65/76 days (based on running average) exceeding standard (64) in 1994/1995 respectively. Data also available for 91-93 (USFS, 91-93).		303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Lower Crooked</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mill Creek, East Fork Mouth to Headwaters	25G-MIEF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Wildcat Campground near mouth): 7 day average of daily maximums of 73.4/74.2 with 65/72 days (based on running average) exceeding standard (64) in 1994/95 respectively. Data also available for 1991 - 1993 (USFS, 1991 - 1993).		303(d) List	
Mill Creek, West Fork Mouth to Headwaters	25G-MIWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: Data shown for site upstream of East Fork): 7 day average of daily maximums of 72.4/70.7 with 54/43 days (based on running average) exceeding standard (64) in 1994/1995 respectively. Data also available for 1991 (USFS, 1991).		303(d) List	
Ochoco Creek Mouth to Camp Branch	25G-OCH00	Flow Modification			WRD Data; NPS Assessment - segment 81: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 81: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 81: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 81: moderate, observation (DEQ, 1988)	USFS Data (Site below McAllister Creek): 7 day average of daily maximums of 68.5/66.5 with 38/24 days (based on running average) exceeding standard (64) in 1994/1995 respectively.		303(d) List	
Ochoco Reservoir Reservoir	25G.OCHO	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (1985); NPS Assessment - segment 505: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 505: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Deschutes</i>	Sub	<i>Lower Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Reservoir	25G.OCHO	Toxics	Tissue: Mercury		DEQ Data	DEQ Data, no fish consumption recommendations given.	Did not meet listing criteria	Potential Concern	
		Turbidity			ODFW		No supporting data or information	Need Data	

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Badger Creek									
Mouth to Highland Ditch	25J-BADG0	Flow Modification			NPS Assessment - segments 42 & 43: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 42: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 42: moderate, data (DEQ, 1988)	USFS Data (3 Sites) at Highland Ditch, 7 day average of daily maximum of 58.3°F in 1997; at Bonny Crossing 66.6 °F in 1994; 61.0°F in 1995 and 58.8°F in 1997. At USFS Boundary 66.6°F in 1997. At mouth in 1995 was 61.3°F. 1994 site at Bonny Crossing exceeded criteria, however, it was a drought year. Most of stream meets water temperature criteria section at Forest Service boundary exceeded in 1997, however, above and below this area met the criteria. Will set listing status as potential concern need to collect additional data, including at the mouth, to evaluate status of the stream.	Did not meet listing criteria	Potential Concern	Removed (5)
Badger Creek (Warm Springs Reservation)									
Mouth to Headwaters	25J-BAWS0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Temperature			ODFW (1995) - Bull Trout Habitat		No supporting data or information	Need Data (Entirely Tribal Waters)	
Bakeoven Creek									
Mouth to Deep Creek	25J-BAKE0	Flow Modification			WRD Data; ODFW (1990, 1995); NPS Assessment - segment 55: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Deep Creek	25J-BAKE0	Habitat Modification			NPS Assessment - segment 55: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 55: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 55: moderate, observation (DEQ, 1988)	BLM Data (Site near Maupin): 7 day average of daily maximum of 70.9 with 59 days exceeding standard (64) in 1994.		303(d) List	
Barlow Creek Mouth to Headwaters	25J-BARLO	Habitat Modification			NPS Assessment - segment 50: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 50: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. for 1995 was 55.2°F	Did not meet listing criteria	OK	Addition
Beaver Creek Mouth to Headwaters	25J-BEAV0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Temperature			Salmon & Steelhead Plan (ODFW, 1990) - Bull Trout Habitat		No supporting data or information	Need Data (Entirely Tribal Waters)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Boulder Creek Mouth to headwaters	25J-BOUL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Two USFS sites: No temperature exceedences, 7 day Ave. Max. for 1995; upper site was 53.6°F; lower was 58.6 °F.	Did not meet listing criteria	OK	Addition
Bronx Canyon Mouth to Headwaters	25J-BRON0	Sedimentation			NPS Assessment - segment 603: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Buck Hollow Creek Mouth to Headwaters	25J-BUCK0	Dissolved Oxygen (DO)			NPS Assessment - segment 38: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			B.H. Plan (NRCS, 1994); Salmon Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 38: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			B.H. Plan (NRCS, 1994); Salmon Plan (ODFW, 1990); NPS Assessment - segment 38: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Buck Hollow Plan (NRCS, 1994); Salmon Plan (ODFW, 1990); NPS Assessment - segment 38: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; Buck Hollow Plan (1994); ODFW (1990, 1995)	BLM Data (3 Sites): 7 day average of daily maximums of 79.8/78.7 with 75/128 days near Mouth; nd/81.9 with nd/151 days near Bronx Canyon; nd/78.8 with nd/119 days near Spears Canyon exceeding standard (64) in 1993/1994 respectively.		303(d) List	
Camas Creek Mouth to headwaters	25J-CAMA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. for 1995 was 60.8°F	Did not meet listing criteria	OK	Addition

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Cedar Creek Mouth to Headwaters	25J-CEDA0	Flow Modification			NPS Assessment - segment 49: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1994)	USFS Data (1 Site): 7 day average of daily maximum of 49.1 did not exceed temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Clear Creek Mouth to Clear Creek Ditch	25J-CLEA0	Flow Modification			NPS Assessment - segment 52: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 52: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site at Rd 42 in 1995, 7 day ave. max. temperature was 65.5°F, exceeded temperature standard of 64°F.		303(d) List	Addition
Coyote Creek Mouth to Headwaters	25J-COYO0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Crane Creek Mouth to Lost Creek	25J-CRAN0	Flow Modification			NPS Assessment - segment 48: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Deep Creek Mouth to Headwaters	25J-DEEP0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site near mouth): 7 day average of daily maximum of 72.9 with 76 days exceeding standard (64) in 1994.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Deschutes</i>	Sub	<i>Lower Deschutes</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Deschutes River Mouth to White River	25--DESC0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402176; RM 1.0): 0% (0 or 43) FWS values exceeded fecal coliform standard (400) between WY 86-95.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402176; RM 1.0): 0% (0 of 29) Summer values exceeded fecal standard (400) between WY 86 - 95.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	DEQ Data	DEQ Data (Site 402176; RM 1.0): 0% (0 of 75) values exceeded rearing DO standard (8 mg/l or 90% saturation) between WY 86 - 95 (cold water fishery, rearing annually).	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402176; RM 1.0): 2% (1 of 44) FWS values exceeded pH standard (6.5 - 8.5) with a maximum value of 8.9 between WY 86 - 95.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 21: moderate, data (DEQ, 1988)	DEQ Data (Site 402176; RM 1.0): 23% (7 of 30) Summer values exceeded standard (6.5 - 8.5) with a maximum value of 9.1 between WY 86 - 95.			303(d) List
		Sedimentation			NPS Assessment - segment 21: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 21: moderate, observation (DEQ, 1988)	DEQ Data (Site 402176; RM 1.0): 50% (16 of 32) Summer values exceeded standard (64) with a maximum value of 76 and with exceedences recorded each year between WY 86 - 95; 7 day average of daily maximum of 74.0 exceeded standard (64) in 1995.			303(d) List
White River to ReRegulating Dam	25--DESC046.4	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 415252; RM 96.8): 0% (0 of 22) FWS values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK (Partially Tribal Waters)	

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
White River to ReRegulating Dam	25--DESC046.4	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 415252; RM 96.8): 0% (0 of 22) Summer values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK (Partially Tribal Waters)		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - July 31	DEQ Data	DEQ Data (Site 415252; RM 96.8): 21% (6 of 21) October - June values exceeded spawning DO standard (11 mg/l or 95% saturation) with a minimum of 8.9 mg/l (86%) between WY 86 - 95 (cold water fishery, spawning approximately from October to June).		303(d) List (Partially Tribal Waters)		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	July 1 - October 31	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment: moderate, data (DEQ, 1988)	DEQ Data (Site 415252; RM 96.8): 5% (1 of 20) July - September values exceeded rearing DO standard (8 mg/l or 90% saturation) with a minimum of 7.5 between WY 86 - 95 (cold water fishery, rearing only approximately from July - September).	Did not meet listing criteria	OK (Partially Tribal Waters)		
		Flow Modification			NPS Assessment - segment 22: moderate, data (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)		
		Nutrients			NPS Assessment - segment 22: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)		
		pH			October 1 - April 30	DEQ Data; NPS Assessment - segment 22: moderate, data (DEQ, 1988)	DEQ Data (Site 415252; RM 96.8): 5% (1 of 18) FWS values exceeded standard (6.5 - 8.5) with a maximum value of 8.7 between WY 86 - 95.	Did not meet listing criteria	OK (Partially Tribal Waters)	
		pH			May 1 - September 30	DEQ Data; NPS Assessment - segment 22: moderate, data (DEQ, 1988)	DEQ Data (Site 415252; RM 96.8): 9% (3 of 31) May - September values exceeded standard (6.5 - 8.5) with a maximum value of 8.6 between WY 86 - 95.	Did not meet listing criteria	OK (Partially Tribal Waters)	

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
White River to ReRegulating Dam	25--DESC046.4	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	Bull Trout Habitat	DEQ Data (Site 415252; RM 96.8): 100% (24 of 24) Summer values exceeded Bull Trout temperature standard (50) with a maximum value of 64 between WY 86 - 95; 7 day average of daily maximum of 57.6 exceeded standard (50) in 1995.		303(d) List (Partially Tribal Waters)	
		Toxics	Pesticides		NPS Assessment - segment 22: moderate, observation (DEQ, 1988)				
Dry Creek Mouth to Headwaters	25J-DRY0	Dissolved Oxygen (DO)			NPS Assessment - segment 115: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Habitat Modification			NPS Assessment - segment 115: moderate, observation (DEQ, 1988)				
		Nutrients			NPS Assessment - segment 115: moderate, observation (DEQ, 1988)				
		Sedimentation			NPS Assessment - segment 115: moderate, observation (DEQ, 1988)				
		Temperature			NPS Assessment - segment 115: moderate, observation (DEQ, 1988)				

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	25J-DRY0	Toxics	Pesticides		NPS Assessment - segment 115: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
Ferry Canyon Mouth to Headwaters	25J-FERR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site: Near BLM House): 7 day average of daily maximums of 73.4 with 74 days respectively exceeding temperature standard (64) in 1994.		303(d) List	Addition
Finnegan Canyon Mouth to Headwaters	25J-FINN0	Sedimentation			NPS Assessment - segment 603: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Forest Creek Mouth to Headwaters	25J-FORE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at National Forest boundary): 7 day average of daily maximum of 49.0/49.6°F with 0 days exceeding standard (64) in 1994/95.	Did not meet listing criteria	OK	
Frog Creek Mouth to Headwaters	25J-FROG0	Flow Modification			NPS Assessment - segment 51: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (3 Sites: Data shown for lower site above Frog Creek Ditch): Maximum temperatures of 45 and 46 recorded in 1991 and 1992 did not exceed standard (64).	Did not meet listing criteria	OK	
Frog Springs Canyon Mouth to Headwaters	25J-FRSP0	Nutrients			NPS Assessment - segment 54: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 54: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 54: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Gate Creek									
Mouth to Headwaters	25J-GATE0	Flow Modification			NPS Assessment - segment 46: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment (DEQ, 1988); NPS Assessment - segments 46 & 47: severe/moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to FSR 4811		Sedimentation			White River Watershed Analysis (1995); NPS Assessment - segments 46 & 47: severe/moderate, data/observation (DEQ, 1988)	Redband trout is a USFS sensitive species, percent surface fine sediments are excessive (White River Watershed Analysis (USFS, 1995)).		303(d) List	
Mouth to Headwaters		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site below FS Road 48): 7 day average of daily maximums of 69/75 with 29/69 days exceeding standard (64) in 1993/1994 respectively. In 1995 site at mouth was 69.6 °F		303(d) List	
Hauser Creek									
Mouth to Headwaters	25J-HAUS0	Sedimentation			NPS Assessment - segment 603: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Haystack Reservoir									
Reservoir	25J.HAYS	Nutrients			NPS Assessment - segment 504: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Jordan Creek									
Mouth to Headwaters	25J-JORD0	Habitat Modification			NPS Assessment - segment 41: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 41: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Pen Creek		Temperature			NPS Assessment - segment 41: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Pen Creek to Headwaters	25J-JORD10	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 41: moderate, data (DEQ, 1988)	USFS Data (Site above FS Road 27): 7 day average of daily maximum of 63.9 with 4 days exceeding standard (64) in 1994.	Did not meet listing criteria	OK	

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lake Simtustus Reservoir	25J.SIMT	Bacteria			NPS Assessment - segment 509: moderate, data (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Chlorophyll a		Spring-Summer-Fall	Initial Consultation Document (PGE, 7/96); Atlas of Oregon Lakes (1985), NPS Assessment - segment 509: moderate, observation (DEQ, 1988)	PGE Data: High level of productivity with chlorophyll a values ranging from 20 - 40 ug/l in the summer months and late summer blue-green algae blooms noted in study. PSU Data: A Chlorophyll a value of 19.1 that exceeded chlorophyll criteria (15 ug/l) was measured near the center of the lake in 6/82 with an algal bloom noted (PSU, 1985).		303(d) List (Partially Tribal Waters)	Addition
		Nutrients			NPS Assessment: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		pH		Summer	Initial Consultation Document (PGE, 7/96); Atlas of Oregon Lakes (DEQ, 1985); NPS Assessment - segment 509: moderate, observation (DEQ, 1988)	PGE Data: Based on a 1995 study, pH in the surface water of the lakes regularly exceeds 9.0 in the Summer. PSU Data: A pH value of 8.9 that exceeded pH standard (6.5 - 8.5) was measured near the center of the lake in 6/82 with an algal bloom noted (PSU, 1985).		303(d) List (Partially Tribal Waters)	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	Initial Consultation Document (PGE, 7/96);	PGE Data: Based on 1994/1995 study, temperature in the surface water of the lakes regularly exceeds 17.8 °C in the Summer.	Did not meet listing criteria	Potential Concern (Partially Tribal Waters)	Addition
Macks Canyon Mouth to Headwaters	25J-MACSO	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site near mouth): 7 day average of daily maximum of 75.6 with 104 days exceeding standard (64) in 1994.		303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season				
McCubbins Gulch Mouth to Headwaters	25J-MCCU0	Habitat Modification			NPS Assessment segment 53: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation			NPS Assessment segment 53: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Mill Creek Mouth to Mill Creek Canal	25J-MILL0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990)	No supporting data or information	Need Data (Entirely Tribal Waters)	
		Flow Modification			Salmon & Steelhead Plan (ODFW, 1990)	No supporting data or information	Need Data (Entirely Tribal Waters)	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)	No supporting data or information	Need Data (Entirely Tribal Waters)	
Mouth to Headwaters		Temperature			ODFW (1995) - Bull Trout Habitat	No supporting data or information	Need Data (Entirely Tribal Waters)	
Nena Creek Mouth to Headwaters	25J-NENA0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 57: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data (Partially Tribal Waters)	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 57: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data (Partially Tribal Waters)	

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	25J-NENA0	Sedimentation			NPS Assessment - segment 57: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Temperature							
Oak Canyon									
Mouth to Headwaters	25J-OAKC0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site near mouth): 7 day average of daily maximum of 73.8/75.9/70.7 °F for years 1994/1996/1997 all exceed standard (64°F).		303(d) List	
Rattlesnake Creek									
Mouth to Headwaters	25J-RATT0	Sedimentation			NPS Assessment - segment 64: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rock Creek									
Mouth to Headwaters	25J-ROCK0	Flow Modification			ODFW (1995); NPS Assessment - segment 45: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			ODFW (1995); NPS Assessment - segment 45: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			White River Watershed Analysis (1995); NPS Assessment - segment 45: severe, data (DEQ, 1988)	White River Watershed Analysis (USFS, 1995).		303(d) List	
Mouth to Rock Creek Reservoir		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at National Forest boundary): 7 day average of daily maximum of 73.4/79.3/67.1°F exceed temperature standard (64) in 1993/94/97. 1993 and 1994 were drought years, however, the stream also exceeded the temperature criteria in 1997.		303(d) List	Addition

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Below FS 4810 to headwaters	25J-ROCK10	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above burn): 7 day average of daily maximum of 55.9/62.1 did not exceed temperature standard (64) in 1993/94. At FS Rd 4810 in 1993 was 57.0°F		OK	Addition
Rock Creek Reservoir to below FS 4810	25J-ROCK6.5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site below burn): 7 day average of daily maximum of 66.9°F in 1997 did exceed temperature standard (64)		303(d) List	Addition
Seekseequa Creek									
Mouth to South Fork	25J-SEEK0	Dissolved Oxygen (DO)			NPS Assessment - segment 112: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Habitat Modification			NPS Assessment - segment 112: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Nutrients			NPS Assessment - segment 112: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Sedimentation			NPS Assessment - segment 112: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Temperature			NPS Assessment - segment 112: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
Shitike Creek									
Mouth to River Mile 10	25J-SHI0	Dissolved Oxygen (DO)			NPS Assessment - segment 114: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to River Mile 10	25J-SHI0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990), NPS Assessment - segment 114: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Nutrients			NPS Assessment - segment 114: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990), NPS Assessment: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Temperature			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Toxics	Pesticides		NPS Assessment - segment 114: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
Sixteen Canyon Mouth to headwaters	25J-SIXT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	BLM site at mouth in 1993, 7 day ave. max. temperature was 86.1°F, exceeded temperature standard of 64°F.		303(d) List	Addition
Tenino Creek Mouth to Headwaters	25J-TENI0	Dissolved Oxygen (DO)			NPS Assessment - segment 113: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Habitat Modification			NPS Assessment - segment 113: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	25J-TENI0	Nutrients			NPS Assessment - segment 113: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Sedimentation			NPS Assessment - segment 113: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Temperature			NPS Assessment - segment 113: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Entirely Tribal Waters)	
Tenmile Creek Mouth to headwaters	25J-TENM0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	BLM site above falls in 1993, 7 day ave. max. temperature was 76.0°F, exceeded temperature standard of 64°F.		303(d) List	Addition
Threemile Creek Mouth to Threemile Ditch	25J-THRE0	Flow Modification			ODFW (1995); NPS Assessment - segment 44: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			ODFW (1995); NPS Assessment - segment 44: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 44: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 44: moderate, data (DEQ, 1988)	USFS Data (Site at Forest Boundary): 7 day average of daily maximums of 64/68 with 4/26 days exceeding standard (64) in 1993/1994 respectively.		303(d) List	
Threemile Ditch to Headwaters	25J-THRE10	Temperature		Summer	USFS Data	USFS Data (Site at Rocky Burn): 7 day average of daily maximums of 53/55 with 0/0 days did not exceed standard (64) in 1993/1994 respectively.	Did not meet listing criteria	OK	

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Tygh Creek									
Mouth to Jordan Creek	25J-TYGH0	Flow Modification			NPS Assessment - segment 40: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 40: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 40: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 40: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Jordan Creek to Headwaters	25J-TYGH7	Temperature		Summer	USFS Data	USFS Data (Site below FS Road 27): 7 day average of daily maximum of 60 with 0 days exceeding standard (64) in 1994.	Did not meet listing criteria	OK	
Wapinitia Creek									
Mouth to Headwaters	25J-WAPI0	Flow Modification			NPS Assessment - segment 56: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 56: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 56: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 56: moderate, observation (DEQ, 1988)	BLM Data (3 Sites: site near mouth): 7 day average of daily maximums of 71.6/64.4 with 52/7 days exceeding standard (64) in 1993/1994 respectively; upper site in 1994 was 70.3°F and lower site in 1994 was 65.2°F.		303(d) List	
Warm Springs River									
Mouth to Badger Creek	25J-WARM0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data (Entirely Tribal Waters)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Badger Creek	25J-WARM0	Sedimentation			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Temperature			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data (Entirely Tribal Waters)	
Badger Creek to Headwaters	25J-WARM27.5	Temperature			ODFW (1995) - Bull Trout Habitat		No supporting data or information	Need Data (Partially Tribal Waters)	
Warm Springs River, South Fork									
Mouth to Headwaters	25J-WASF0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data (Entirely Tribal Waters)	
White River									
Mouth to Rock Creek	25J-WHIT0	Bacteria			NPS Assessment (DEQ, 1988); NPS Assessment - segment 39: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			ODFW (1995); NPS Assessment - segment 39: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 39: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (2 Sites): 7 day average of daily maximums of 71.2/nd/64.3 with 45/nd/3 days at National Forest Boundary and 74.8/70.8/75.2 with 100/58/72 days below Lower Falls exceeding standard (64) in 1992/1993/1994 respectively.			303(d) List

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Basin <i>Deschutes</i>		Sub <i>Lower Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Rock Creek to Headwaters	25J-WHIT12	Bacteria			NPS Assessment (DEQ, 1988); NPS Assessment - segment 39: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			ODFW (1995); NPS Assessment - segment 39: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 39: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Willow Creek Mouth to McMean Springs	25J-WILL0	Flow Modification			WRD Data; NPS Assessment - segments 107 & 108: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segments 107 & 108: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 107 & 108: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segments 107 & 108: moderate, observation (DEQ, 1988)	BLM Data (Site near mouth): 7 day average of daily maximum of 75.9 with 115 days exceeding standard (64) in 1994; USFS Data (Site at Road 54 Crossing): 7 day average of daily maximum of 76.8 with 55 days exceeding standard (64) in 1995.		303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Middle Columbia / Deschutes</i>			Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season				
Fulton Canyon Mouth to Headwaters	25A-FULT0	Nutrients			NPS Assessment - segment 65: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 65: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 65: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Spanish Hollow Creek Mouth to Headwaters	25A-SPAN0	Flow Modification			NPS Assessment - segment 63: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 63: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 63: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 63: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 63: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	

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Basin <i>Deschutes</i>		Sub <i>Trout</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Amity Creek Mouth to Headwaters	25I-AMIT0	Flow Modification			NPS Assessment - segment 236: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 236: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 236: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 236: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 236: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Antelope Creek Mouth to Headwaters	25I-ANTE0	Flow Modification			WRD Data; NPS Assessment - segment 62: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 62: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 62: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 62: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Auger Creek Mouth to Headwaters	25I-AUGE0	Habitat Modification			Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including lack of LWD and pools, is a primary reason (USFS, 1995).		303(d) List	

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Basin <i>Deschutes</i>		Sub		<i>Trout</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Headwaters	25I-AUGE0	Sedimentation				USFS Data (1995), Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including high substrate embeddedness, is a primary reason		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data, Trout Creek Watershed Assessment (USFS, 1995)	USFS Data (3 Sites; Data shown for National Forest boundary): 7 day average of daily maximum of 71.0 with 38 days (based on running average) exceeding standard (64) in 1994. Data also available in 1991 - 1993 Annual Reports (USFS, 1991-1994).		303(d) List	
Big Log Creek Mouth to Headwaters	25I-BIGL0	Habitat Modification				Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including lack of LWD and pools, is a primary reason (USFS, 1995).		303(d) List	
		Sedimentation				USFS Data (1995), Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including high substrate embeddedness, is a primary reason		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data, Trout Creek Watershed Assessment (USFS, 1995)	USFS Data (2 Sites; Data shown for National Forest boundary): 7 day average of daily maximums of 68.4/72.1/66.1 with 14/59/20 days (based on 7 day running average) in 1993/1994/1995 respectively. Data also available in 1991 - 1992 Annual USFS Reports.		303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Trout</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Bull Creek Mouth to Headwaters	25I-BULL0	Habitat Modification			Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including lack of LWD and pools, is a primary reason (USFS, 1995).		303(d) List	
		Sedimentation			USFS Data (1995), Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including sediment load, is a primary reason (USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Trout Creek Watershed Assessment (USFS, 1995)	USFS Data (Site at Road 2725 and 200 Junction): 7 day average of daily maximum of 72.3 with 70 days (based on running average) exceeding standard (64) in 1994. Data also available in 1992 - 1993 in Annual Reports (USFS, 1992-1994).		303(d) List	
Cartwright Creek Mouth to Headwaters	25I-CART0	Habitat Modification			Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including lack of LWD and pools, is a primary reason (USFS, 1995).		303(d) List	
		Sedimentation			USFS Data (1995), Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including high substrate embeddedness, is a primary reason		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Deschutes</i>		Sub		<i>Trout</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Headwaters	25I-CART0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data, Trout Creek Watershed Assessment (USFS, 1995)	USFS Data (Site at National Forest boundary): 7 day average of daily maximums of 73.9/70.5 with 72/38 days (based on running average) exceeding standard (64) in 1994/1995 respectively. Data also available in 1991-1993 in Annual Reports (USFS, 1991-1994).		303(d) List	
Dick Creek Mouth to Headwaters	25I-DICK0	Habitat Modification				Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including lack of LWD, is a primary reason (USFS, 1995).		303(d) List	
		Sedimentation				USFS Data (1995), Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including high cobble embeddedness, is a primary reason (USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data, Trout Creek Watershed Assessment (USFS, 1995)	USFS Data (Site at 2725/200 Road Junction): 20, 80, and 41 days exceeded previous standard (58) with maximum values of 74, 71, and 86 recorded in 1991, 1993 and 1994 respectively (USFS, 1991, 1993, 1994).		303(d) List	
Dutchman Creek Mouth to Headwaters	25I-DUTC0	Habitat Modification				Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including lack of LWD and pools, is a primary reason (USFS, 1995).		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Deschutes</i>		Sub	<i>Trout</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	25I-DUTC0	Sedimentation			USFS Data (1995), Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including high substrate embeddedness, is a primary reason		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Trout Creek Watershed Assessment (USFS, 1995)	USFS Data (3 Sites: Data shown for site at National Forest boundary): 7 day average of daily maximums of 73.3/68.2 with 64/24 days (based on running average) exceeding standard (64) in 1994/1995. Data also available in 1991 and 1993 Annual Reports.		303(d) List	
Hay Creek									
Mouth to Headwaters	25I-HAY0	Flow Modification			WRD Data; NPS Assessment: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 110: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 110: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 110: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mud Springs Creek									
Mouth to Headwaters	25I-MUDS0	Habitat Modification			NPS Assessment - segment 501: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Potlid Creek									
Mouth to Headwaters	25I-POTL0	Habitat Modification			Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including lack of LWD and pools, is a primary reason (USFS, 1995).		303(d) List	

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Basin <i>Deschutes</i>	Sub	<i>Trout</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	25I-POTL0	Sedimentation			USFS Data (1995), Trout Creek Watershed Assessment (USFS, 1995)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including substrate embeddedness, is a primary reason (USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Trout Creek Watershed Assessment (USFS, 1995)	USFS Data (Site at National Forest boundary): 7 day average of daily maximums of 69.9/67.9 with 50/35 days (based on running average) exceeding standard (64) in 1994/1995. Data also available in 1991 - 1993 Annual Reports (USFS, 1991 - 1994).		303(d) List	
Tenmile Creek Mouth to Headwaters	25I-TENM0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site above falls): 7 day average of daily maximum of 76 with 131 days exceeding standard (64) in 1993.		303(d) List	
Trout Creek Mouth to Headwaters	25I-TROU0	Flow Modification			NPS Assessment - segments 58 - 60: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Trout Creek Watershed Assessment (USFS, 1995); NPS Assessment - segments 58 - 60: moderate, observation (DEQ, 1988)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated at 10% of historic salmonid levels. Degradation of instream habitat, including lack of LWD and pools, is a primary reason (USFS, 1995).		303(d) List	
		Nutrients			NPS Assessment - segments 58 - 59: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			ODFW (1990); Trout Creek Watershed Assessment (USFS, 1995); NPS Assessment - segments 58 - 61: moderate, observation (DEQ, 1988)	Trout Creek Watershed is of extreme importance to the Deschutes River fishery and is presently estimated to sustain 10% of historic salmonid levels. Degradation of instream habitat, including high substrate embeddedness, is a primary reason		303(d) List	

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Basin <i>Deschutes</i>		Sub		<i>Trout</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Headwaters	25I-TROU0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; BLM Data; Trout Creek Watershed Assessment (USFS, 1995); NPS Assessment - segments 58 - 61: moderate, observation (DEQ, 1988)	BLM Data (2 Sites: Near mouth and At Ashwood): 7 day ave of daily max of 79/83 and nd/86 respectively above standard (64) in 93/94; USFS data (At NF boundary): 7 day ave of daily max of 63.6/73/69 with 0/71/26 days above 64 in 93/94/95 (USFS, 1991-1994).			303(d) List	
		Toxics	Pesticides		NPS Assessment - segments 58 - 59: moderate, observation (DEQ, 1988)					No supporting data or information
Trout Creek, West Fork Mouth to Headwaters	25I-TRWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at RM 0.1): 7 day average of daily maximum of 58 with 0 days above standard (64) in 1994. Data also available in 1992 (USFS Monitoring Reports, 1992, 1994).	Did not meet listing criteria	OK		
Ward Creek Mouth to Headwaters	25I-WARD0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site near mouth): 7 day average of daily maximum of 95.5 with 59 days exceeding standard (64) in 1994.			303(d) List	
Wilson Creek Mouth to Headwaters	25I-WILS0	Flow Modification			NPS Assessment - segment 111: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Sedimentation			NPS Assessment - segment 111: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature			NPS Assessment - segment 111: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Alkali Creek Mouth to Headwaters	25F-ALKA0	Flow Modification			NPS Assessment - segment 103: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 103: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 103: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 103: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Allen Creek Mouth to Headwaters	25F-ALLE0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)		USFS Data (2 Sites: Data shown for site at National Forest boundary): 7 day average of daily maximums of 68.2/65.1 with 36/13 days (based on running average) exceeding standard (64) in 1994/1995 respectively.		303(d) List
Antelope Flat Reservoir Reservoir	25F.ANTE	Nutrients			NPS Assessment - segment 98: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 98: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Turbidity			ODFW		No supporting data or information	Need Data	

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Bear Creek Mouth to Headwaters	25F-BEAR0	Flow Modification			WRD Data; NPS Assessment - segment 99, 100, 101: moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 99, 100, & 101: moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 99, 100, & 101: moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 99, 100, & 101: moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
Brush Creek Mouth to Headwaters	25F-BRUS0	Flow Modification			NPS Assessment - segment 82: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995); ODFW (1993); NPS Assessment - segment 82: moderate, observation (DEQ, 1988)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Sedimentation			NPS Assessment - segment 82: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; North Fork Crooked River Watershed Analysis (USFS, 1995); NPS Assessment - segment 82: moderate, observation (DEQ, 1988)	USFS Data (Site at National Forest boundary): 7 day average of daily maximums of 62.6/62.5 with 0/0 days (based on running average) exceeding standard (64) in 1994/1995 respectively.	Did not meet listing criteria	OK	
Buck Creek Mouth to Headwaters	25F-BUCK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (Site at mouth): 7 day average of daily maximum of 63.9 with 0 days (based on running average) exceeding standard (64) in 1995.	Did not meet listing criteria	OK	Removed (1)

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>			Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season				
Camp Creek								
Mouth to South Fork Camp Creek	25F-CAMP0	Flow Modification			WRD Data; NPS Assessment - segment 91 & 92: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Habitat Modification			WRD Data; NPS Assessment - segment 91 & 92: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 91 & 92: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 91 & 92: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Camp Creek, Middle Fork								
Mouth to Headwaters	25F-CAMF0	Flow Modification			NPS Assessment - segment 96: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 96: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 96: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 96: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Camp Creek, South Fork								
Mouth to Headwaters	25F-CASF0	Flow Modification			WRD Data; NPS Assessment - segment 93: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 93: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 93: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	

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Basin <i>Deschutes</i>	Sub	<i>Upper Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Camp Creek, West Fork Mouth to Headwaters	25F-CAWF0	Flow Modification			NPS Assessment - segment 97: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 97: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 97: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 97: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Conant Creek Mouth to Headwaters	25F-CONA0	Flow Modification			NPS Assessment - segment 74: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 74: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 74: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 74: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Crazy Creek Mouth to Headwaters	25F-CRAZ0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency, and high width:depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	25F-CRAZ0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (Site at RM 0.01): 24, nd (for days in 93), and 47 days exceeded previous standard (58) with maximum values of 65, 70, and 68 recorded in 1991, 1993, and 1994 respectively (USFS, 1991, 1993, 1994).		303(d) List	
Crazy Creek, East Fork Mouth to Headwaters	25F-CREF0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data: 58 days exceeded previous standard (58) with a maximum value of 66 recorded in 1994 (USFS, 1994).		303(d) List	
Crazy Creek, West Fork Mouth to Headwaters	25F-CRWF0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data: 76 days exceeded previous standard (58) with a maximum value of 75 recorded in 1994 (USFS, 1994).		303(d) List	
Crooked River Prineville Reservoir to North Fork Crooked R	25F-CROO070.5	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	NPS Assessment - segment 68: moderate, data (DEQ, 1988); DEQ Data	DEQ Data (Site 404156; RM 105): 10% (2 of 21) Summer values exceeded fecal coliform standard (400) with a maximum value of 540 between WY 86 - 95.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	NPS Assessment - segment 68: moderate, data (DEQ, 1988); DEQ Data	DEQ Data (Site 404156; RM 105): 0% (0 of 15) FWS values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK	

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Basin <i>Deschutes</i>	Sub	<i>Upper Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Prineville Reservoir to North Fork Crooked R	25F-CROO070.5	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	DEQ Data	DEQ Data (Site 404156; RM 105): 5% (2 of 41) of annual values respectively exceeded rearing standard (8 mg/l) with a minimum of 7.5 between WY 86 - 95 (cold water fishery, rearing annually).	Did not meet listing criteria	OK	
		Habitat Modification	NPS Assessment - segment 68: moderate, data (DEQ, 1988)	No supporting data or information	Need Data				
		Nutrients	NPS Assessment - segment 68: moderate, data (DEQ, 1988)	No supporting data or information	Need Data				
		pH		Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 68: severe, data	DEQ Data (Site 404156; RM 105): 21% (4 of 19) FWS values exceeded standard (6.5 - 8.5) with a maximum value of 8.7 between WY 86 - 95.		303(d) List	
		pH		Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 68: severe, data	DEQ Data (Site 404156; RM 105): 59% (13 of 22) Summer values exceeded standard (6.5 - 8.5) with a maximum value of 8.7 between WY 86 - 95.		303(d) List	
		Sedimentation	NPS Assessment - segment 68: moderate, data (DEQ, 1988)	No supporting data or information	Need Data				
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 68: moderate, data (DEQ, 1988)	DEQ Data (Site 404156; RM 105): 68% (15 of 22) Summer values exceeded standard (64) with a maximum value of 26.5 between WY 86 - 95.		303(d) List	
		N. Fk Crooked R to South Fork/Beaver Cr Confluence	25F-CROO111	Flow Modification			NPS Assessment - segment 88: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data
				Habitat Modification			NPS Assessment - segment 88: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data
Sedimentation					NPS Assessment - segment 88: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		

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Basin	<i>Deschutes</i>	Sub	<i>Upper Crooked</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
N. Fk Crooked R to South Fork/Beaver Cr Confluence	25F-CROO111	Temperature			NPS Assessment - segment 88: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Crooked River, North Fork									
Mouth to Headwaters	25F-CRNF0	Flow Modification			North Fork Crooked River Watershed Analysis (USFS, 1995); IWR (ODFW); USGS; NPS Assessment - segments 83, 84 & 87: moderate, observation (DEQ, 1988)	Redband Trout populations are fragmented and depressed in part due to low flows caused by stream diversions (ODFW, 1993), IWR (70356) not met as measured at USGS gage (14078500).		303(d) List	
		Habitat Modification			NPS Assessment - segments 83, 84 & 87: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 83, 84 & 87: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; BLM Data; North Fork Crooked River Watershed Analysis (USFS, 1995); NPS Assessment - segments 83, 84 & 87: severe/moderate, observation (DEQ, 1988)	BLM Data (2 Sites: Near RM 6 & 18): 7 day ave of daily max were 81/72/84 and 80/76/80 respectively in 92/93/94; USFS Data (5 Sites; data shown for 30/42 Rd Jct): 7 day ave of daily max of 67.4 with 37 days exceeding std (64) in 94 (data avail for 92-95).		303(d) List	
Deep Creek									
Mouth to Headwaters	25F-DEEP0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; ODFW (1993); North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (3 Sites: Data shown for site at RM 0.1 for 1995): 60 days exceeded temperature standard (64) with maximum value of 70 recorded in 1995 (for other data, see USFS, 1992 - 1994).		303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Deer Creek Private Reservoir to Headwaters	25F-DEER1	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at National Forest boundary): 7 day average of daily maximum of 70.4 with 47 days (based on running average) exceeding standard (64) in 1995. Data also available for 1992 (USFS, 1992).		303(d) List	Segment Modification
Derr Creek Mouth to Headwaters	25F-DERR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: Jackson Creek and Middle site): 55 and 82 days exceeded previous standard (58) with maximum values of 86 and 82 respectively in 1994 (USFS, 1994).		303(d) List	
Double Corral Creek Mouth to Headwaters	25F-DOUB0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (3 Sites: Data shown for Jackson Creek confluence; RM 0.01): 33/nd/40 days exceeded previous standard (58) with maximum values of 77/75/81 in 1991/1993/1994 respectively (USFS, 1991, 1993, 1994).		303(d) List	
Drake Creek Mouth to Headwaters	25F-DRAK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at National Forest boundary): 7 day average of daily maximum of 73.3 with 64 days (based on running average) exceeding standard (64) in 1994.		303(d) List	
Florida Creek Mouth to Headwaters	25F-FLOR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at National Forest boundary): 7 day average of daily maximum of 61.9 with 0 days (based on running average) exceeding standard (64) in 1994. Data also available in 1991 and 1993 Annual Reports (USFS, 1991, 1993 - 1994).	Did not meet listing criteria	OK	

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Fox Canyon Creek Mouth to Headwaters	25F-FOXC0	Flow Modification			NPS Assessment - segment 86: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995); NPS Assessment - segment 86: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 86: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 86: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Fox Creek Mouth to Headwaters	25F-FOX0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995); NPS Assessment - segment 86: moderate, observation (DEQ, 1988)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)		USFS Data (Site at National Forest boundary): 7 day average of daily maximums of 78.0/73.3 with 41/64 days (based on running average) exceeding standard (64) in 1994/1995 respectively.		303(d) List
Gray Creek Mouth to Headwaters	25F-GRAY0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	25F-GRAY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (3 Sites: Data shown for confluence with North Fork): 7 day average of daily maximums of 79.9/77.1 with 93/84 days (based on running average) exceeding standard (64) in 1994/1995. Data also available for 1992 and 1993 (USFS, 1992, 1993).		303(d) List	
Hammer Creek Mouth to Headwaters	25F-HAMMO	Flow Modification			NPS Assessment - segment 77: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 77: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Happy Camp Creek Mouth to Headwaters	25F-HAPP0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (3 Sites: Data shown for Deep Creek confluence): 31/nd/82 days exceeded previous standard (58) with maximum values of 75/69/81 recorded in 1991/1993/1994 respectively (USFS, 1991, 1993, 1994).		303(d) List	
Horse Heaven Creek Mouth to Headwaters	25F-HORS0	Flow Modification			NPS Assessment - segments 70 & 237: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segments 70 & 237: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 70 & 237: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	25F-HORS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; North Fork Crooked River Watershed Analysis (USFS, 1995); NPS Assessment - segments 70 & 237: moderate, observation (DEQ, 1988)	USFS Data (3 Sites: Data shown for site at National Forest boundary): 7 day average of daily maximum of 78.7 with 80 days (based on running average) exceeding standard (64) in 1995. Data also available for 1991 - 1993 (USFS, 1991 - 1993).		303(d) List	
Howard Creek Mouth to Headwaters	25F-HOWA0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (Site at National Forest Boundary): 7 day average of daily maximums of 69.3/69.6 with 44/31 days (based on running average) exceeding standard (64) in 1994/1995 respectively. Data also available for 1991 and 1992 (USFS, 1991, 1992).		303(d) List	
Howard Creek, East Fork Mouth to Headwaters	25F-HOEF0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (2 Sites: At 22/200 Jct. and Above confluence with West Fork): 7 day average of daily maximums of 67.4 with 32 days and 69.8 with 41 days (based on running average) respectively exceeding standard (64) in 1994.		303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Howard Creek, West Fork Mouth to Headwaters	25F-HOWF0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (Site above confluence with East Fork): 7 day average of daily maximum of 60.4 with 0 days (based on running average) exceeding standard (64) in 1994. Data also available for 1991 - 1993 (USFS, 1991 - 1993).	Did not meet listing criteria	OK	
Indian Creek Mouth to Headwaters	25F-INDI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (Site at National Forest boundary): 7 day average of daily maximums of 71.3/70.1 with 47/59 days (based on running average) exceeding standard (64) in 1994/1995 respectively.		303(d) List	
Jackson Creek Mouth to Headwaters	25F-JACK0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (3 Sites: Data shown for Deep Creek confluence): 50/nd/84 days exceeded previous standard (58) with maximum values of 81/75/78 recorded in 1991/1993/1994 respectively (USFS, 1991, 1993, 1994).		303(d) List	
Johnson Creek Mouth to Headwaters	25F-JOHN0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)		No supporting data or information	Need Data	

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Kloutchman Creek Reservoir to Headwaters	25F-KLOO0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: Data shown for National Forest boundary): 7 day average of daily maximums of 82.9/70.8 with 48/54 days (based on running average) exceeding standard (64) in 1994/1995 respectively. Data also available in 1991 - 1993 in Annual Reports.		303(d) List	Segment Modification
Little Bear Creek Mouth to Headwaters	25F-BELI0	Flow Modification			NPS Assessment - segment 102: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 102: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 102: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 102: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Little Horse Heaven Creek Mouth to Headwaters	25F-HOLI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at RM 1.8): 7 day average of daily maximum of 73.3 with 43 days (based on running average) exceeding standard (64) in 1995. Data also available for 1992 and 1993 (USFS 1992, 1993).		303(d) List	
Little Summit Creek Mouth to Headwaters	25F-SULI0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	25F-SULI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (3 Sites: Data shown for 1995 at sites above and below L. Summit Prairie): 50 and 54 days exceeded temperature standard (64) with maximum values 68 and 67 recorded in 1995 respectively (see USFS, 1991, 1993, 1994 for additional data).		303(d) List	
Lookout Creek Mouth to Headwaters	25F-LOOK0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
Mouth to FS Road 4220		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (2 Sites: Data shown for site at National Forest boundary): 7 day average of daily maximums of 75.2/73.4 with 94/60 days (based on running average) exceeding standard (64) in 1994/1995 respectively. Data available for 91 and 93 (USFS, 91, 93). Site above FS Road 4215, 7 day average maximum water temperatures 75/74/74°F for 1994/95/96. Site above Jungle Creek, 7 day average maximum was 67 in 1997.		303(d) List	Segment Modification
FS Road 4220 to Headwaters	25F-LOOK1.5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: Data Below FS Road 4220): 7 day average of daily maximums of 64°F for 1997 (at junction of FS Road 4220 and 50): 7 day average maximum 60/59/59°F for 1994/96/97 no exceedences of water temperature standard (64°F).	Did not meet listing criteria	OK	Removed (5)
Lost Creek Mouth to Headwaters	25F-LOST0	Flow Modification			NPS Assessment - segment 72: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 72: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Deschutes</i>	Sub	<i>Upper Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	25F-LOST0	Sedimentation			NPS Assessment - segment 72: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 72: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Lytle Creek Mouth to Headwaters	25F-LYTLO	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1994), North Fork Crooked River Watershed Analysis (USFS, 1995)	USFS Data (Site at mouth): 7 day average of daily maximum of 67.5 with 26 days (based on running average) exceeding standard (64) in 1995.		303(d) List	
Newsom Creek Mouth to Headwaters	25F-NEWS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 76: moderate, observation (DEQ, 1988)	USFS Data (Site at National Forest boundary): 7 day average of daily maximums of 62.3/58.8 with 0/0 days (based on running average) exceeding standard (64) in 1994/1995. Data also available in 1991 - 1993 Annual Reports (USFS, 1992 - 1994).	Did not meet listing criteria	OK	
Newsome Creek Mouth to Headwaters	25F-NEWS0	Flow Modification			NPS Assessment - segments 75 & 76: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 75 & 76: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Peterson Creek Mouth to Headwaters	25F-PETE0	Flow Modification			NPS Assessment - segment 85: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	25F-PETE0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995); NPS Assessment - segment 85: moderate, observation (DEQ, 1988)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995).		303(d) List	
		Sedimentation			NPS Assessment - segment 85: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; North Fork Crooked River Watershed Analysis (USFS, 1995); NPS Assessment - segment 85: moderate, observation (DEQ, 1988)	USFS Data (3 Sites: Data shown for site at National Forest boundary): 7 day average of daily maximums of 75.8/74.7 with 66/73 days (based on running average) exceeding standard (64) in 1994/1995. Data also available in 1991 - 1993 (USFS, 1991 - 1993).		303(d) List	
Pine Creek Mouth to Headwaters	25F-PINE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at National Forest boundary): 7 day average of daily maximum of 73.8 with 45 days (based on running average) exceeding standard (64) in 1994. Data also available in 1991- 1992 Annual Reports (USFS, 1991-1992, 1994).		303(d) List	
Pole Creek Mouth to Headwaters	25F-POLE0	Flow Modification			NPS Assessment - segment 95: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 95: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 95: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Porter Creek Mouth to Headwaters	25F-PORT0	Habitat Modification			North Fork Crooked River Watershed Analysis (USFS, 1995)	Redband Trout populations are depressed and fragmented due to habitat degradation (ODFW, 1993); Habitat factors such as limited LWD, low pool frequency and high width/depth ratio are below desired condition (N Fk Crooked R Watershed An, USFS, 1995). USFS Data (3 Sites: Data shown for Site at Rd 42 Crossing): 7 day average of daily maximum of 77.9 with 65 days (based on running average) exceeding standard (64) in 1994. Data also available for 1991 and 1993 (USFS, 1991 and 1993).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, North Fork Crooked River Watershed Analysis (USFS, 1995)			303(d) List	
Prineville Reservoir Reservoir	25F.PRIN	Habitat Modification			NPS Assessment - segment 67: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Prineville Reservoir Environmental Assessment (USBR, 1992); NPS Assessment - segment 67: moderate, data (DEQ, 1988)	Reservoir is considered one of the best year-round fisheries. Fish production is limited by several factors, including sediment deposition, that reduces available bass habitat (USBR, 1992).	Did not meet listing criteria	Potential Concern	
		Temperature			NPS Assessment - segment 67: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Turbidity		Year Around	Prineville Reservoir Environmental Assessment (USBR, 1992); NPS Assessment - segment 67: moderate, observation (DEQ, 1988)	Reservoir is considered one of the best year-round fisheries. Fish production is limited by several factors, including heavy loads of silt and clay during spring runoff, decreasing light penetration and food production (USBR, 1992).	Did not meet listing criteria	Potential Concern	
Sanford Creek Mouth to Headwaters	25F-SANF0	Flow Modification			NPS Assessment - segment 104: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 104: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Deschutes</i>		Sub <i>Upper Crooked</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	25F-SANF0	Sedimentation			NPS Assessment - segment 104: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 104: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sheep Rock Creek Mouth to Headwaters	25F-SHEE0	Flow Modification			NPS Assessment - segment 73: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 73: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 73: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sherwood Creek Mouth to Headwaters	25F-SHER0	Flow Modification			NPS Assessment - segment 76: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 76: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 76: moderate, observation (DEQ, 1988)	USFS Data (Site at National Forest boundary): 7 day average of daily maximums of 58.8/55.4 with 0/0 days (based on running average) exceeding standard (64) in 1994/1995 respectively. Data also available in 91 - 93 Annual Reports (USFS, 1991-1994).	Did not meet listing criteria	OK	
Shotgun Creek Mouth to Headwaters	25F-SHOT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data		USFS Data: 52 days exceeded previous standard (58) with a maximum value of 67 recorded in 1991 (USFS, 1991).	303(d) List	
Toggle Creek Mouth to Headwaters	25F-TOGG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data		USFS Data (Site at Jackson Creek confluence): 89 days exceeded previous standard (58) with a maximum value of 81 recorded in 1994 (USFS, 1994).	303(d) List	

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Basin <i>Deschutes</i>	Sub	<i>Upper Crooked</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Wickiup Creek Mouth to Headwaters	25F-WICK0	Flow Modification			NPS Assessment - segment 69: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 69: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 69: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 69: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 69: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wildcat Creek Mouth to Headwaters	25F-WILD0	Temperature		Summer	USFS Data	USFS Data (Site at Road 1680-50): 7 day average of daily maximum of 67.9 with 54 days (based on running average) exceeding standard (64) in 1995.		303(d) List	
Yank Gulch Creek Mouth to Headwaters	25F-YANK0	Flow Modification			NPS Assessment - segment 94: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 94: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 94: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Deschutes</i>		Sub <i>Upper Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Candle Creek Mouth to Headwaters	25B-CAND0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at Road 1290): 7 day averages of daily maximums were generally below 50 degrees with no values above standard (64) in 1989 - 1992.	Did not meet listing criteria	OK	
Canyon Creek Mouth to Headwaters	25B-CANY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (2 Sites: Road 12 and 1420): 7 day average of daily maximums were generally below 50 with 0 days above standard (64) in 1989 - 1992.	Did not meet listing criteria	OK	
Crane Prairie Reservoir Reservoir	25B.CRAN	Aquatic Weeds or Algae	Aquatic Growth		Atlas of Oregon Lakes (DEQ, 1988); NPS Assessment - segment 33: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification pH			NPS Assessment - segment 33: severe, data (DEQ, 1988) Atlas of Oregon Lakes (1985); NPS Assessment - segment 33: severe, data (DEQ, 1988)		No supporting data or information No supporting data or information	Need Data Need Data	
Deschutes River Lake Billy Chinook to Steelhead Falls	25--DESC120	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402178; RM 133.4): 0% (0 of 23) of Summer values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402178; RM 133.4): 5% (2 of 44) FWS values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	August 1 - October 31	DEQ Data	DEQ Data (Site 402178, RM 133.4): 5% (1 of 20) of August - October values met rearing DO standard (8.0 mg/l or 90% saturation) with a minimum of 7.7 between WY 86 - 95 (cold water fishery, rearing only approximately from August - October).	Did not meet listing criteria	OK	

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Basin <i>Deschutes</i>		Sub <i>Upper Deschutes</i>									
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96		
Lake Billy Chinook to Steelhead Falls	25--DESC120	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	November 1 - July 31	DEQ Data	DEQ Data (Site 402178; RM 133.4): 0% (0 of 31) November - July values met spawning DO standard (11.0 mg/l or 95% saturation) between WY 86 - 95 (cold water fishery, spawning approximately from November - July).	Did not meet listing criteria	OK			
		Flow Modification				NPS Assessment - segment 23: moderate, data (DEQ, 1988)			Need Data		
		pH			May 1 - September 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 24 & 25: severe, data (DEQ, 1988)	DEQ Data (Site 402178; RM 133.4): 74% (25 of 34) May - September values exceeded pH standard (6.5 - 8.5) with a maximum value of 9.5 between WY 86 - 95.			303(d) List	
		pH			October 1 - April 30	DEQ Data; NPS Assessment - segments 24 & 25: severe, data (DEQ, 1988)	DEQ Data (Site 402178; RM 133.4): 6% (1 of 17) October - April values exceeded pH standard (6.5 - 8.5) with a maximum value of 8.7 between WY 86 - 95.	Did not meet listing criteria	OK		
		Sedimentation					NPS Assessment - segment 23: moderate, data (DEQ, 1988)		No supporting data or information		Need Data
		Temperature		Rearing 64 F (17.8 C)		Summer	ODFW Data (1994); NPS Assessment - segment 23: moderate, data (DEQ, 1988)	ODFW Data (Site at Steelhead Falls): 7 day average of daily maximums did not exceed temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Steelhead Falls to North Unit Main Canal	25--DESC128	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402178; RM 133.4): 5% (2 of 44) FWS values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK			
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402178; RM 133.4): 0% (0 of 23) Summer values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK			
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	November 1 - July 31	DEQ Data	DEQ Data (Site 402178, RM 133.4): 0% (0 of 31) November - July values met spawning standard (11.0 mg/l or 95% saturation) between WY 86 - 95 (cold water fishery, spawning approximately from November - July).	Did not meet listing criteria	OK			

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Basin <i>Deschutes</i>		Sub <i>Upper Deschutes</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Steelhead Falls to North Unit Main Canal	25--DESC128	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	August 1 - October 31	DEQ Data	DEQ Data (Site 402178; RM 133.4): 5% (1 of 20) of August - October values met rearing standard (8.0 mg/l or 90% saturation) with a minimum of 7.7 between WY 86 - 95 (cold water fishery, rearing only approximately from August - October).	Did not meet listing criteria; Need diurnal data	OK	
					Flow Modification	ODFW (1993); USGS & WRD Data; IWR (ODFW); NPS Assessment - segments 24 & 25: severe/moderate, data (DEQ, 1988)	Rainbow and Brown Trout populations are reduced, IWR (70695) is not met at USGS gage (14070500) due to irrigation diversions at Bend (ODFW, 1993).		303(d) List
		pH		May 1 - September 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 24 & 25: severe, data (DEQ, 1988)	DEQ Data (Site 402178; RM 133.4): 74% (25 of 34) of May - September values exceeded pH standard (6.5 - 8.5) with a maximum value of 9.5 between WY 86 - 95.		303(d) List	
		pH		October 1 - April 30	NPS Assessment - segments 24 & 25: severe, data (DEQ, 1988)	DEQ Data (Site 402178; RM 133.4): 6% (1 of 17) of October - April values exceeded pH standard (6.5 - 8.5) with a maximum value of 8.7 between WY 86 - 95.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM (1993, 1994); ODFW (1994); DEQ Data (Site 402178, RM 133.4) - Ambient Monitoring (305(b) Report (DEQ, 1994)); NPS Assessment - segments 24 & 25: severe/moderate, data (DEQ, 1988); ODFW data	BLM Data (Cline Falls): 7 day ave of daily max exceeded standard (64) with 78/1993, 79.8/1994; ODFW Data (at RM 141, 164): 7 day ave of daily max exceeded 64 with 84.2, 66.6 in 1994; DEQ Data (402178; RM 133): 78% Summer values exceeded 64 from WY 86-95. Two ODFW sites at RM 141 in 1994 was 80.6°F and at RM164 was 66.6°F.		303(d) List	
North Unit Irrigation Canal to Central Or Canal	25--DESC165	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402181; RM 166.5): 5% (1 of 20) of FWS values exceeded fecal coliform standard (400) with a maximum value of 540 between WY 86 - 95.	Did not meet listing criteria	OK	

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Basin <i>Deschutes</i>		Sub <i>Upper Deschutes</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
North Unit Irrigation Canal to Central Or Canal	25--DESC165	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402181; RM 166.5): 0% (0 of 19) Summer values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	NPS Assessment - segment 26: moderate, data (DEQ, 1988)	DEQ Data (Site 402181; RM 166.5): 0% (0 of 49) annual values exceeded rearing DO standard (8 mg/l or 90% saturation) between WY 86 - 95 (cold water fishery, rearing annually).	Did not meet listing criteria	OK		
		Flow Modification			NPS Assessment - segment 26: severe, data (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment - segment 26: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients			NPS Assessment - segment 26: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		pH			Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 26: severe, data (DEQ, 1988)	DEQ Data (Site 402181; RM 166.5): 20% (5 of 25) Summer values exceeded pH standard (6.5 - 8.5) with a maximum value of 8.8 between WY 86 - 95.		303(d) List	
		pH			Fall-Winter-Spring	NPS Assessment - segment 26: severe, data (DEQ, 1988)	DEQ Data (Site 402181; RM 166.5): 0% (0 of 24) FWS values exceeded pH standard (6.5 - 8.5) between WY 86 - 95.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 26: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
					NPS Assessment - segment 26: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Central Oregon Canal to Little Deschutes	25--DESC171	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402181; RM 164.9): 0% (0 of 24) Summer values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK		

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Basin <i>Deschutes</i>		Sub <i>Upper Deschutes</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Central Oregon Canal to Little Deschutes	25--DESC171	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402181; RM 164.9): 0% (0 of 20) FWS values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - July 31	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 27: moderate, data (DEQ, 1988)	DEQ Data (Site 402363, RM 191.7): 39% (15 of 38) of October - July values exceeded spawning DO standard (11 mg/l or 95% saturation) with a minimum value of 7.3 between WY 85 - 95 (cold water fishery, spawning approximately from October - July).		303(d) List		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	August 1 - October 31	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 27: moderate, data (DEQ, 1988)	DEQ Data (Site 402363; RM 191.7): 7% (1 of 14) August - September values exceeded rearing DO standard (8 mg/l or 90% saturation) with a minimum value of 7.3 between WY 86 - 95 (cold water fishery, rearing only approximately from August - September).	Did not meet listing criteria	OK		
		Flow Modification			Upper Deschutes Management Plan (USFS, 1995); WRD Data; ODFW (1993); NPS Assessment - segment 27: moderate, data (DEQ, 1988)	Low flows significantly affect the Brown Trout spawning habitat in the river (only 24% is useable) and high flows limit the suitability for trout (Upper Deschutes River Instream Flow Assessment,		303(d) List		
		Habitat Modification			Upper Deschutes Management Plan (USFS, 1995); NPS Assessment - segment 27: moderate, data (DEQ, 1988)	Lack of large woody debris in the channel limits the cover and protection from the velocity of high flows for trout (Upper Deschutes River Instream Flow Assessment, 1994).		303(d) List		
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402363; RM 191.7): 0% (0 of 24) FWS values exceeded pH standard (6.5 - 8.5) between WY 86 - 95.	Did not meet listing criteria	OK	
		pH			Summer	DEQ Data	DEQ Data (Site 402363; RM 191.7) 0% (0 of 28) Summer values exceeded pH standard (6.5 - 8.5) between WY 86 - 95.	Did not meet listing criteria	OK	

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Basin <i>Deschutes</i>		Sub		<i>Upper Deschutes</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Central Oregon Canal to Little Deschutes	25--DESC171	Sedimentation			Upper Deschutes Management Plan (USFS, 1995); NPS Assessment - segment 27: moderate, data (DEQ, 1988)	Spawning gravels contain a high percent of fines that limit embryo survival rates for trout (Upper Deschutes River Instream Flow Assessment, 1994).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; DEQ Data	USFS Data (Site at RM 173): 7 day average of daily max below standard (64) in 91-93 (14 days exceeded in 92); DEQ Data (402363, RM 191.7): 11% of values exceeded 64 with a maximum value of 64.4 between WY 86 - 95; 7 day ave of daily max of 62.7 in 1995.	Did not meet listing criteria	OK	
		Turbidity		Spring/Summer	Upper Deschutes Management Plan (USFS, 1995); NPS Assessment: moderate, data (DEQ, 1988)	Turbidity is increased as much as 30 fold when irrigation water is released in early spring and remains to twice background until late July (USFS, 1995).		303(d) List	
Little Deschutes to Wickiup Reservoir	25--DESC192.5	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402181; RM 164.9): 0% (0 of 24) Summer values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402181; RM 164.9): 0% (0 of 20) FWS values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	August 1 - October 31	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 28: moderate, data (DEQ, 1988)	DEQ Data (Site 402363; RM 191.7): 7% (1 of 14) August - September values exceeded rearing DO standard (8 mg/l or 90% saturation) with a minimum value of 7.3 between WY 86 - 95 (cold water fishery, rearing only approximately from August - September).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - July 31	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 28: moderate, data (DEQ, 1988)	DEQ Data (Site 402363; RM 191.7): 39% (15 of 38) of October - July values exceeded spawning DO standard (11 mg/l or 95% saturation) with a minimum value of 7.3 between WY 85 - 95 (cold water fishery, spawning approximately October - July).		303(d) List	

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Basin <i>Deschutes</i>		Sub		<i>Upper Deschutes</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Little Deschutes to Wickiup Reservoir	25--DESC192.5	Flow Modification			Upper Deschutes Management Plan (USFS, 1995); WRD Data, ODFW (1993); NPS Assessment - segment 28: severe, data (DEQ, 1988)	Low flows significantly affect the Brown Trout spawning habitat in the river (only 24% is useable) and high flows limit the suitability for trout (Upper Deschutes River Instream Flow Assessment,		303(d) List		
		Habitat Modification			Upper Deschutes Management Plan (USFS, 1995); NPS Assessment - segment 28: severe, data (DEQ, 1988)	Lack of large woody debris in the channel limits the cover and protection from the velocity of high flows for trout (Upper Deschutes River Instream Flow Assessment, 1994).		303(d) List		
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402363; RM 191.7): 0% (0 of 24) FWS values exceeded pH standard (6.5 - 8.5) between WY 86 - 95.	Did not meet listing criteria	OK	
		pH			Summer	DEQ Data	DEQ Data (Site 402363; RM 191.7) 0% (0 of 28) Summer values exceeded pH standard (6.5 - 8.5) between WY 86 - 95.	Did not meet listing criteria	OK	
		Sedimentation				Upper Deschutes Management Plan (USFS, 1995); NPS Assessment - segment 28: severe, data (DEQ, 1988)	Spawning gravels contain a high percent of fines that limit embryo survival rates for trout (Upper Deschutes River Instream Flow Assessment, 1994).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)		Summer	USFS Data (1991 - 1993); DEQ Data; NPS Assessment - segment 28: severe, data (DEQ, 1988)	USFS Data (Site at RM 173.0): 7 day average of daily maximums below standard (64) in 1991 - 1993 (14 days exceeded in 1992); DEQ Data (Site 402363; RM 191.7): 11% (3 of 28) of values exceeded standard (64) with a maximum value of 64.4 between WY 86 - 95.	Did not meet listing criteria	OK	
		Turbidity			Spring/Summer	Upper Deschutes Management Plan (USFS, 1995); NPS Assessment - segment 28: severe, data (DEQ, 1988)	Turbidity is increased as much as 30 fold when irrigation water is released in early spring and remains to twice background until late July (USFS, 1995).		303(d) List	
Wickiup Reservoir to Crane Prairie Reservoir	25--DESC237	Flow Modification			NPS Assessment - segment 29: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment - segment 29: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		

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Basin <i>Deschutes</i>		Sub <i>Upper Deschutes</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Wickiup Reservoir to Crane Prairie Reservoir	25--DESC237	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 29: moderate, data (DEQ, 1988)	USFS Data (Site at Browns Crossing): 7 day average of daily maximum exceeded standard (64) ranging up to 75 degrees in 1992.		303(d) List	
Crane Prairie Reservoir to Little Lava Lake	25--DESC244	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near Snow Creek): 7 day average of daily maximums were below standard (64) with no values above 64 in 1991 and 1993.	Did not meet listing criteria	OK	
Fall River Mouth to Headwaters	25B-FALL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near Indian Creek): 7 day average of daily maximum of 50.1 °F was below standard (64) with 0 values exceeding the standard in 1992.	Did not meet listing criteria	OK	
Indian Ford Mouth to Headwaters	25B-INDI0	Aquatic Weeds or Algae	Aquatic Growth		NPS Assessment - segment 37: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 37: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 37: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Jack Creek Mouth to Headwaters	25B-JACK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data - Bull Tout Habitat	USFS Data (Site at Road 1420): 7 day average of daily maximums were generally below 50 with 0 days above standard (64) in 1990 - 1993.	Did not meet listing criteria	OK	
Jefferson Creek Mouth to Headwaters	25B-JEFF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data - Bull Tout Habitat	USFS Data (Site at Road 1290): 7 day average of daily maximums were generally below 50 with 0 days above standard (64) in 1990 - 1992.	Did not meet listing criteria	OK	
Lake Billy Chinook Reservoir	25B.CHIN	Bacteria			NPS Assessment - segment 510: moderate, data (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	

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Basin <i>Deschutes</i>		Sub <i>Upper Deschutes</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Reservoir	25B.CHIN	Chlorophyll a		Spring-Summer-Fall	Initial Consultation Document (PGE, 7/96); Atlas of Oregon Lakes (1985), Warm Springs (94); NPS Assessment - segment 510: moderate, observation (DEQ, 1988)	PGE Data: High level of productivity with chlorophyll a values ranging from 20 - 40 ug/l in the summer months and late summer blue-green algae blooms noted in study. PSU Data: 33% (1 of 3) Chlorophyll a values ranging between 2.3 - 21.8 exceeded chlorophyll a standard (15 ug/l) near the Dam in 1982 with algal blooms noted (PSU, 1985).		303(d) List (Partially Tribal Waters)	Addition
			Nutrients						
		pH		Summer	Initial Consultation Document (PGE, 7/96); Atlas of Oregon Lakes (DEQ, 1988; NPS Assessment - segment 510: moderate, observation (DEQ, 1988)	PGE Data: Based on a 1995 study, pH in the surface water of the lakes regularly exceeds 9.0 in the Summer. PSU Data: 100% (3 of 3) pH values ranging between 8.8 - 9.4 exceeded pH standard (6.5 - 8.5) near the Dam in 1982 with algal blooms noted (PSU, 1985).		303(d) List (Partially Tribal Waters)	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	Initial Consultation Document (PGE, 7/96)	PGE Data: Based on 1994/1995 study, temperature in the surface water of the lakes regularly exceeds 17.8 °C in the Summer.	Did not meet listing criteria	Potential Concern (Partially Tribal Waters)	Addition
Lake Creek, North Fork Mouth to Suttle Lake	25B-LANF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Road 300): 7 day average of daily maximums were above standard (64) with values ranging up to 73 in 1990 and 1991.	May be due to Suttle Lake discharge	303(d) List	
Lake Creek, South Fork Mouth to Suttle Lake	25B-LASF0	Temperature		Summer	USFS Data	USFS Data (Site at Road 50): 7 day average of daily maximums were above standard (64) with values ranging up to 80 in 1991.	May be due to Suttle Lake discharge	303(d) List	

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Basin <i>Deschutes</i>		Sub <i>Upper Deschutes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Metolius River Mouth to Headwaters	25B-MET00	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402367; RM 30.3): 0% (0 of 23) Summer values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK (Partially Tribal Waters)	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402367; RM 30.3): 0% (0 of 21) FWS values exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK (Partially Tribal Waters)	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402367; RM 30.3): 0% (0 of 23) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 86 - 95.	Did not meet listing criteria	OK (Partially Tribal Waters)	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	Year Around	DEQ Data	DEQ Data (Site 402367; RM 30.0): 0% (0 of 23) November - June values exceeded spawning DO standard (11 mg/l or 95% saturation) between WY 86 - 95 (cold water fishery, spawning approximately from November - June).	Did not meet listing criteria	OK (Partially Tribal Waters)	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	July 1 - October 31	DEQ Data	DEQ Data (Site 402367; RM 30.0): 0% (0 of 24) July - October values exceeded rearing DO standard (8 mg/l or 90% saturation) between WY 86 - 95 (cold water fishery, rearing only approximately from July - October).	Did not meet listing criteria	OK (Partially Tribal Waters)	
		pH		Summer	DEQ Data	DEQ Data (Site 402367; RM 30.3): 0% (0 of 24) Summer values exceeded pH standard (6.5 - 8.5) between WY 86 - 95.	Did not meet listing criteria	OK (Partially Tribal Waters)	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402367; RM 30.3): 0% (0 of 23) FWS values exceeded pH standard (6.5 - 8.5) between WY 86 - 95.	Did not meet listing criteria	OK (Partially Tribal Waters)	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at Bridge 99): 7 day average of daily maximums were generally below 50 with no days above standard (64) in 1989 and 1991.	Did not meet listing criteria	OK (Partially Tribal Waters)	

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Basin <i>Deschutes</i>		Sub <i>Upper Deschutes</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Odell Lake Lake	25B.ODEL	Chlorophyll a		Summer	Atlas of Oregon Lakes (85); Sweet (90); McHugh(79)	PSU/Sweet Data: 20% (1 of 5) chlorophyll a values exceeded standard (15 ug/l) with a maximum of 21.4; heavy blooms of Anabaena reported (Sweet, 1990).	Did not meet listing criteria	Potential Concern	
		pH		Summer	Atlas of Oregon Lakes (DEQ, 1988), Sweet (1990)	PSU/Sweet Data: 4 of 6 Summer and early Fall values exceeded pH standard (6.5 - 8.5) with maximum values up to 9.5 reported in numerous studies (Sweet, 1990): 9.3 in 8/82, (PSU, 85); 9.5 in 9/82, (Nelson and Delwiche, 83); and 9.3 in 10/88, (Sweet, 90).		303(d) List	
Roaring Creek Mouth to Headwaters	25B-ROAR0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at Road 1290): 7 day average of daily maximums were generally below 50 with 0 days above standard (64) in 1990 - 1992.	Did not meet listing criteria	OK	
Squaw Creek Mouth to Alder Springs	25B-SQUA0	Temperature		Summer	ODFW Data (1994); NPS Assessment - segment 36: severe, data (DEQ, 1988)	USFS Data (Site Below Alder Springs): 7 day average of daily maximums of 63.6 did not exceed standard (64) in 1995. 1994 ODFW data also available.		OK	
Alder Springs to Maxwell Ditch	25B-SQUA5	Flow Modification			ODFW (1993); WRD Data; IWR (ODFW); NPS Assessment - segment 36: severe, data (DEQ, 1988)	Summer Steelhead used stream historically, stream is over-appropriated and this reach goes dry each year from May to October (ODFW, 1993).		303(d) List	
		Habitat Modification Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 36: severe, data (DEQ, 1988) ODFW Data (1994); NPS Assessment - segment 36: severe, data (DEQ, 1988)	USFS Data (Site Above Alder Springs): 7 day average of daily maximums of 70.6°F exceeded standard (64) in 1995. 1994 ODFW data also available.	No supporting data or information	Need Data 303(d) List	
Suttle Lake Lake	25B.SUTT	Chlorophyll a		Spring-Summer-Fall	Atlas of Oregon Lakes (85); Sweet (90); McHugh(79); NPS Assessment - segment 513: moderate, observation (DEQ, 1988)	PSU/Sweet data: 71% (5 of 7) chlorophyll a values exceed standard (15 ug/l) with insufficient data to determine if 3 month averages are exceeded; algae blooms reported (Sweet, 1990).	Did not meet listing criteria	Potential Concern	

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Basin <i>Deschutes</i>		Sub		<i>Upper Deschutes</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lake	25B.SUTT	Nutrients			NPS Assessment - segment 513: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	Atlas of Oregon Lakes (DEQ, 1988), Sweet (1990); NPS Assessment - segment 513: moderate, observation (DEQ, 1988)	PSU/Sweet Data: 14% (1 of 7) pH values exceeded pH standard (6.5 - 8.5) with a maximum value of 8.7; periodic algae blooms have been reported (Sweet, 1990).	Did not meet listing criteria	Potential Concern	
Tumalo Creek Mouth to Columbia Southern Canal	25B-TUMA0	Flow Modification			ODFW (1993); WRD Data; IWR (ODFW); NPS Assessment - segment 34: severe, data (DEQ, 1988)	Stream is an important potential rearing and spawning tributary for Deschutes River Rainbow and Brown Trout, lower 1.5 miles (up to Tumalo Feed canal) is often dewatered between April 15 to October 15 (ODFW, 1993).		303(d) List	
Columbia Southern Canal to Headwaters	25B-TUMA11.5	Habitat Modification Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 34: severe, data (DEQ, 1988) USFS Data	USFS Data (Above and Below Falls): 7 day average of daily maximums were below standard (64) with no values exceeding 64 in 1991 and 1993.	No supporting data or information Did not meet listing criteria	Need Data OK	
Wickiup Reservoir Reservoir	25B.WICK	Flow Modification pH			NPS Assessment - segment 32: severe, data (DEQ, 1988) Atlas of Oregon Lakes (1985); NPS Assessment - segment 32: severe, data (DEQ, 1988)		No supporting data or information No supporting data or information	Need Data Need Data	

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Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Goose Lake</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bauers Creek Mouth to Headwaters	42D-BAUE0	Flow Modification			NPS Assessment - segments 72 and 518: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 72 and 518: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site BA5120, 37-20-18 sesw): 7 day average of daily maximums exceeded temperature standard (64) for 11/80/64 7-day periods in 1993/1994/1995 respectively.		303(d) List	
Camp Creek Mouth to Headwaters	42D-CAMP0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site CP5420, 37-19-28 sese): 7 day average of daily maximums exceeded temperature standard (64) for 5/65/27 7-day periods in 1993/1994/1995 respectively.		303(d) List	
Camp Creek, East Fork Mouth to Headwaters	42D-CAEF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site EC5320, 37-19-27 sesw): 7 day average of daily maximums exceeded temperature standard (64) for 15/87/76 7-day periods in 1993/1994/1995 respectively.		303(d) List	
Cogswell Creek Mouth to Headwaters	42D-COGS0	Sedimentation			NPS Assessment - segment 303: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cottonwood Creek Mouth to Cottonwood Res	42D-COTT0	Flow Modification			NPS Assessment - segment 70: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 70: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 70: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Goose Lake</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Cottonwood Res to	42D-COTT15	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site CT5240, 38-18-15 sene): 7 day average of daily maximums exceeded temperature standard (64) for 0 and 0 7-day periods in 1993 and 1995 respectively.	Did not meet listing criteria	OK	
Cottonwood Meadows Reservoir									
Reservoir	42D.COTT	Aquatic Weeds or Algae	Marcophytes		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 334: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 334: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			NPS Assessment - segment 334: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cox Creek									
Mouth to Headwaters	42D-COX0	Flow Modification			NPS Assessment - segment 71: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 71: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 71: severe, observation (DEQ, 1988)	USFS Data (2 Sites: CX5040, 37-20-17 sene and CX5280, 37-20-17 sene): 7 day average of daily maximums exceeded temperature standard (64) for 13/86/90 and nd/nd/52 7-day periods in 1993/1994/1995 respectively.		303(d) List	
Cox Creek, North Fork									
Mouth to Headwaters	42D-CONF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site NC5280, 37-20-6 sese): 7 day average of daily maximums exceeded temperature standard (64) for 48 and 83 7-day periods in 1994 and 1995 respectively.		303(d) List	
Crane Creek									
Mouth to Headwaters	42D-CRAN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site CE5020, 40-21-7 nene): 7 day average of daily maximums exceeded temperature standard (64) for 74 7-day periods in 1992.		303(d) List	

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Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Goose Lake</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Dent Creek Mouth to Headwaters	42D-DENT0	Sedimentation			NPS Assessment - segment 297: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site DN5000, 39-17-6 senw): 7 day average of daily maximums exceeded temperature standard (64) for 15 and 98 7-day periods in 1993 and 1995 respectively.		303(d) List	
Dog Lake Lake	42D.DOG	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 336: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 336: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 336: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Drews Creek Mouth to Drews Reservoir	42D-DREW0	Dissolved Oxygen (DO)			NPS Assessment - segment 68: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 68: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 68: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 68: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 68: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Drews Reservoir to	42D-DREW15	Flow Modification			NPS Assessment - segment 67: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Goose Lake</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Drews Reservoir to	42D-DREW15	Sedimentation			NPS Assessment - segment 67: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 67: moderate, observation (DEQ, 1988)	USFS Data (Site DW5120, 38-17-18 swnw): 7 day average of daily maximums exceeded temperature standard (64) for 21/77/nd/96 7-day periods in 1992/1993/1994/1995 respectively.		303(d) List	
Drews Valley Reservoir Reservoir	42D.DREW	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 69: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 69: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 69: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Hay Creek Drews Reservoir to	42D-HAY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site HA5080, 40-16-1 senw): 7 day average of daily maximums exceeded temperature standard (64) for 23 and 27 7-day periods in 1993 and 1995 respectively.		303(d) List	
Kelley Creek Mouth to Headwaters	42D-KELL0	Sedimentation			NPS Assessment - segment 303: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Muddy Creek Mouth to Headwaters	42D-MUDD0	Habitat Modification			NPS Assessment - segment 296: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 296: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Goose Lake</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	42D-MUDD0	Temperature			NPS Assessment - segment 296: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Quartz Creek									
Mouth to Headwaters	42D-QUAR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site QC5080): 7 day average of daily maximums exceeded temperature standard (64) for 96 7-day periods in 1996.		303(d) List	Addition
Shingle Mill Creek									
Mouth to Headwaters	42D-SHIN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site SM5400, 38-19-5 sese): 7 day average of daily maximums exceeded temperature standard (64) for 54 and 32 7-day periods in 1994 and 1995 respectively.		303(d) List	
Tandy Creek									
Mouth to Headwaters	42D-TAND0	Sedimentation			NPS Assessment - segment 303: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Thomas Creek									
Mouth to Jaunta Ditch	42D-THOM0	Dissolved Oxygen (DO)			NPS Assessment - segments 292 and 293: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segments 292 and 293: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 292 and 293: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW; NPS Assessment - segments 292 and 293: severe, observation (DEQ, 1988)	ODFW Data (2 Sites: approximately RM 20 and RM 10): 7 day average of daily maximums of 78.2 and 81.3 respectively exceeded temperature standard (64) in 1993.		303(d) List	
Jaunta Ditch to Headwaters	42D-THOM19.3	Biological Criteria	Benthic Macroinvertebrates		USFS Data	USFS Data (Site L1, 37S-18E-35 swnw; L2,37S-18E-27 nwnw; L3,37S-18E-19; L4,37S-18E-25): BCI of 58, 65, 85 and 67 respectively indicated poor conditions (except for site L3, BCI was good) in 1994 with indication of sedimentation and organic enrichment.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Goose Lake</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Jaunta Ditch to Headwaters	42D-THOM19.3	Dissolved Oxygen (DO)			NPS Assessment - segment 291: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 291: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 291: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 291: severe, data (DEQ, 1988)	USFS Data (4 Sites: TH5010,38-19-16 swne; TH5595,37-18-27 swnw; TH5880,37-18-20 nenw; and TH6100): 7 day average of daily maximums exceeded temperature standard (64) with 68/87; 69/nd; 23/nd; and 1/nd 7-day periods in 1993/1995 respectively.		303(d) List	
Warner Creek Mouth to Headwaters	42D-WARN0	Dissolved Oxygen (DO)			NPS Assessment - segment 298: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 298: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 298: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Lake Abert</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Augur Creek Mouth to North Fork	42B-AUGU0	Biological Criteria	Benthic Macroinvertebrates		USFS Data	USFS Data (Site P6 35S-17E-21swse): BCI of 74 indicated fair conditions in 1994 with indication of some sedimentation. Excellent (93-96) BCI values were found in 1990. Change may be due, in part, to low water and different sampling techniques in 1994.	Did not meet listing criteria	OK	
					NPS Assessment - segments 59 and 60: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segments 59 and 60: moderate, observation (DEQ, 1988)	USFS Data (2 Sites) AU5235: 7 day average of daily maximums exceeded temperature standard (64) for 60/69/71 7-day periods in 1994/95/96. Site AU5920: 1/27/0/0 7-day periods in 1993/94/95/96.		303(d) List	
Bear Creek Mouth to Headwaters	42B-BEAR0	Biological Criteria	Benthic Macroinvertebrates		USFS Data	USFS Data (Site P4): BCI of 75 indicated fair conditions in 1994 with indication of sedimentation and organic enrichment. Good (83-88) BCI values were found in 1989-1990. Change may be due, in part, to low water and different sampling technique in 1994.	Did not meet listing criteria	OK	
				Temperature	Rearing 64 F (17.8 C)		Summer	USFS Data	USFS Data (Site BE4800, 34-18-21 nenw): 7 day average of daily maximums exceeded temperature standard (64) for 10/51/21 7-day periods in 1993/1994/1995 respectively.
Ben Young Creek Mouth to Headwaters	42B-BENY0	Flow Modification			NPS Assessment - segment 400: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
					NPS Assessment - segment 400: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 400: moderate, observation (DEQ, 1988); USFS data	Site in 1997, continuous monitoring data, temperature continually above the temperature standard (64) during July and August, high of 76°F		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Lake Abert</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Chewaucan River Mouth to Bagley Ditch	42B-CHEW0	Dissolved Oxygen (DO)			NPS Assessment - segment 63: severe, data (DEQ, 1988)		No supporting data or information	Need Data		
		Flow Modification			NPS Assessment - segment 63: severe, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment - segment 63: severe, data (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients			NPS Assessment - segment 63: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Sedimentation			NPS Assessment - segment 63: severe, data (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 63: severe, data (DEQ, 1988)	USFS Data (4 Sites: CH4450, 33-18-26 swnw; CH4790, 34-18-21 nenw; CH4835, 34-18-28 senw; CH4915, 35-18-9 nene): 7 day average of daily maximums exceeded standard (64) for 45/60/81; 31/60/81; nd/61/80; 64/60/74 7-day periods in 1993/1994/1995 respectively.		303(d) List		
Bagley Ditch to Headwaters	42B-CHEW27.5	Biological Criteria	Benthic Macroinvertebrates		USFS Data		USFS Data (2 Sites: P7, 34S-18E-16 swnw and P8,35S-18E-34 swse): BCI of 62 and 70 respectively indicated stress conditions in 1994 with indication of sedimentation. Fair-good (74 and 82) BCI values were found in 1990.		303(d) List	
		Flow Modification			NPS Assessment - segment 62: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Sedimentation			NPS Assessment - segment 62: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 62: moderate, observation (DEQ, 1988)	USFS Data (4 Sites: CH4450, 33-18-26 swnw; CH4790, 34-18-21 nenw; CH4835, 34-18-28 senw; CH4915, 35-18-9nene): 7 day average of daily max exceeded temperature standard (64) for 45/60/81; 31/60/81; nd/61/80; 64/60/74 7-day periods in 1993-95		303(d) List		

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Lake Abert</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Coffeepot Creek Mouth to Headwaters	42B-COFF0	Biological Criteria	Benthic Macroinvertebrates		USFS Data	USFS Data (Site P1, 35S-18E-3 nwnw): BCI of 61 indicated poor conditions in 1994 with indication of sedimentation and organic enrichment. Fair (70) BCI values were found in 89-90. Change may be due, in part, to low water and different sample techniques.	Did not meet listing criteria	Potential Concern	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data			USFS Data (Site CO4920, 35-18-9 nwnw): 7 day average of daily maximums exceeded temperature standard (64) for 59 and 80 7-day periods in 1994 and 1995 respectively.	303(d) List
Crooked Creek Mouth to Headwaters	42B-CROO0	Dissolved Oxygen (DO)			NPS Assessment - segment 71: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 71: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 71: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 71: severe, observation (DEQ, 1988)	USFS Data (Site CK4940, 37-21-29 nwnw): 7 day average of daily maximums exceeded temperature standard (64) for 15 7-day periods in 1992.	303(d) List		
Dairy Creek Mouth to Headwaters	42B-DAIR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: DY5200, 36-18-7 nenw and DY5350, 36-17-3 swnw): 7 day average of daily maximums exceeded temperature standard (64) for 12/52/29 and nd/51/5 7-day periods in 1993/1994/1995 respectively.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Lake Abert</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Deadhorse Creek Mouth to Headwaters	42B-DEAD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site DH5360, 36-17-3 nsw): 7 day average of daily maximums exceeded temperature standard (64) for 0 and 0 7-day periods in 1994 and 1995 respectively.	Did not meet listing criteria	OK	
Elder Creek Mouth to Beaver Creek	42B-ELDE0	Biological Criteria	Benthic Macroinvertebrates		USFS Data	USFS Data (Site P2, 34S-17E-20 swnw): BCI of 75 indicated fair conditions in 1994 with indication of sedimentation. Good (85) BCI values were found in 1989.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 57: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: EL5300, 35-17-25 nesw and EL6540, 34-17-20 nsw): 7 day average of daily maximums exceeded temperature standard (64) for 59/40 and 46/26 7-day periods in 1994/1995 respectively.		303(d) List	
Little Coffeepot Creek Mouth to Headwaters	42B-COFL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	Site in 1997, continuous monitoring data, temperature continually above the temperature standard (64) during July and August, high of 71°F.		303(d) List	Addition
Loveless Creek Mouth to Headwaters	42B-LOVE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site LV5900, 37-21-16 senw): 7 day average of daily maximums exceeded temperature standard (64) for 0 and 0 7-day periods in 1992 and 1995 respectively.	Did not meet listing criteria	OK	
Morgan Creek Mouth to Headwaters	42B-MORG0	Biological Criteria	Benthic Macroinvertebrates		USFS Data	USFS Data (Site P9, 36S-17E-26 nene): BCI of 83 indicated good conditions in 1994 with indication of sedimentation. Good (89) and Excellent (91) BCI values were found in 1989 and 1990 respectively.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Lake Abert</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	42B-MORG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	Site in 1997, continuous monitoring data, temperature continually above the temperature standard (64) during July and August, high of 72°F		303(d) List	Addition
Moss Creek									
Moss Ditch to Headwaters	42B-MOSS0	Sedimentation			NPS Assessment - segment 299: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Schoolhouse Creek									
Mouth to Headwaters	42B-SCHO0	Sedimentation			NPS Assessment - segment 300: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Shoestring Creek									
Mouth to Headwaters	42B-SHOE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	3 Sites in 1996/97, continuous monitoring data, temperature continually above the temperature standard (64) during July and August at two of the three sites, high of 72°F		303(d) List	Addition
Shoestring Creek, West Fork									
Mouth to Headwaters	42B-SHWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites) WF5300: 7 day average of daily maximums exceeded temperature standard (64) for 54 7-day periods in 1996. Site WF5800: 28 7-day periods in 1996		303(d) List	Addition
South Creek									
Mouth to Headwaters	42B-SOUT0	Sedimentation			NPS Assessment - segment 61: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 61: severe, observation (DEQ, 1988); USFS data	Site in 1996/97, continuous monitoring data, temperature continually above the temperature standard (64) during July and August, high of 81.7°F		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Lake Abert</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Swamp Creek Mouth to Headwaters	42B-SWAM0	Biological Criteria	Benthic Macroinvertebrates		USFS Data	USFS Data (Site P3, 36S-18E-15 swse): BCI of 65 indicated extreme stress conditions in 1994 with indication of sedimentation and organic enrichment. Good (85) BCI value was found in 1990. Change may be due to low water and different sampling technique.	Did not meet listing criteria	Potential Concern	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	Two Sites in 1997, continuous monitoring data, temperature continually above the temperature standard (64) during July and August, high of 81°F		303(d) List	Addition
Willow Creek Mouth to Headwaters	42B-WILLO	Flow Modification			NPS Assessment - segment 64: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 64: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 64: severe, observation (DEQ, 1988)	USFS Data (Site WL4780): 7 day average of daily maximums exceeded temperature standard (64) for 58 7-day periods in 1995.		303(d) List	
Witham Creek Mouth to Headwaters	42B-WHIT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site WT6540, 34-17-20 senw): 7 day average of daily maximums exceeded temperature standard (64) for 0 7-day periods in 1995.	Did not meet listing criteria	OK	

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Basin <i>Goose & Summer Lakes</i>		Sub		Summer Lake		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Ana River Mouth to Headwaters		42A-ANA0	Sedimentation			NPS Assessment - segment 55: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Bear Creek Mouth to Headwaters		42A-BEAR0	Flow Modification			NPS Assessment - segment 56: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Sedimentation			NPS Assessment - segment 305: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Benny Creek Mouth to Headwaters		42A-BENNO	Sedimentation			NPS Assessment - segment 295: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Bridge Creek Mouth to S Fork Bridge Cr		42A-BRID0	Flow Modification			NPS Assessment - segments 52 and 306: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Sedimentation			NPS Assessment - segments 52 and 306: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 52 and 306: moderate, observation (DEQ, 1988)	USFS Data (3 Sites: BR4800, 29-13-21sene and BR5060, 29-13-29 swse and BR6080): 7 day average of daily maximums were 14.0/16.9/14.0/15.4/15.0 °C; 14.2/18.5/14.5/15.4/15.2°C and 10.8/12.4/10.7/11.7/11.1°C in 1993/94/95/96/97 all years all sites except one meet temperature standard (64).	Did not meet listing criteria	OK
S Fork Bridge Cr to Headwaters meet listing	OK	42A-BRID15	Biological Criteria			Benthic	USFS Data	USFS Data (Site S3, 29S-13E-29 swse):	Did not
			Macroinvertebrates				BCI of 86 indicated good conditions in 1994 with indication of sedimentation. BCI values indicated good (84-86) in 6/90 and excellent (98-100) in 9/90 and 8/89.	criteria	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Summer Lake</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
S Fork Bridge Cr to Headwaters listing	OK	42A-BRID15	Temperature (17.8 C)	Rearing 64 F	Summer	USFS Data nwse): 7 day average of daily maximums were 10.8/12.4/10.7/11.7/11.1°C in 1993/94/95/96/97 all years all sites meet temperature standard (64).	USFS Data (Site: BR6080, 30-12-11 criteria		Did not meet
Buck Creek Mouth to Headwaters	42A-BUCK0	Biological Criteria	Benthic Macroinvertebrates		USFS Data	USFS Data (Site S2, 29S-12E-12 nesw): BCI of 77 indicated fair conditions in 1994 with indication of sedimentation. BCI values indicated excellent conditions 98/100 in 1989/1990 respectively.	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 51: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 51: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 51: moderate, observation (DEQ, 1988)	USFS Data (2 Sites: BK4910, 29-12-12 nesw and BK5760, 30-12-12 swne): 7 day average of daily maximums were 18.8/15.2/19.0/15.4/16.1/15.8°C and 16.0/11.5/16.0/13.8/14.0/13.5°C in 1992/93/94/95/96/97 All years but two at one site meet temperature standard (64).	Did not meet listing criteria	Potential Concern	
Guyer Creek Mouth to Headwaters	42A-GUYE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site GY5360, 30-13-27 nws): 7 day average of daily maximums were 17.0/15.0/15.6/15.0 °C in 1994/95/96/97 met temperature standard (64).	Did not meet listing criteria	OK	
Harvey Creek Mouth to Headwaters	42A-HARV0	Sedimentation			NPS Assessment - segment 301: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	Goose & Summer Lakes	Sub	Summer Lake						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Silver Creek									
Mouth to Thompson Valley Res	42A-SILV0	Flow Modification			NPS Assessment - segment 54: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 54: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site SI4530, 29-14-20 nesw): 7 day average of daily maximums were 22.8/24.1 in 1993/97 exceeded temperature standard (64).		303(d) List	
Silver Creek, North Fork									
Mouth to Headwaters	42A-SINF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site SN5050, 37-21-16 senw): 7 day average of daily maximums were 12.7/15.4/12.3/12.9/12.5 °C in 1993/94/95/96/97 all meet temperature standard (64).	Did not meet listing criteria	OK	
Silver Creek, West Fork									
Mouth to Silver Ck Marsh	42A-SIWF0	Biological Criteria	Benthic Macroinvertebrates		USFS Data	USFS Data (Site S1, 29S-13E-12 nesw): BCI of 65 indicated poor conditions in 94 with indication of sedimentation and organic enrichment. Excellent (94)/Fair (75) BCI values found in 89/90. Change may be due to low water and different techniques in 94.	Did not meet listing criteria	Potential Concern	
		Flow Modification			NPS Assessment - segment 307: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 307: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 307: moderate, observation (DEQ, 1988)	USFS Data (2 Sites: WS4460, 29-14-8 nenw and WS4740, 29-13-36 nene): 7 day average of daily maximums were nd/nd/27.0/21.2/21.8/21.4°C and 27.0/21.0/27.0/22.6/22.6/22.0 °C in 1992/93/94/95/96/97 exceeded temperature standard (64) .		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Goose & Summer Lakes</i>	Sub	<i>Summer Lake</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Silver Ck Marsh to Headwaters	42A-SIWF10	Flow Modification			NPS Assessment - segment 53: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 53: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 53: moderate, observation (DEQ, 1988)	USFS Data (3 Sites: WS5050, 30-13-10 sene; WS5580, 30-13-20 sene; and WS6360, 30-12-26 nesw): 7 day average of daily maximums were nd/13.1/16.4/12.8/13.8/13.3; 18.2/12.7/18.0/12.9/13.3/12.6°C and nd/13.0/17.1/12.5/13.3/12.6 °C in 1992/93/94/95/96/97 all meet temperature standard (64) except one site two years.	Did not meet listing criteria	OK	
Thompson Reservoir Reservoir	42A.THOM	Dissolved Oxygen (DO)			NPS Assessment - segment 304: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 304: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 304: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Timothy Creek Mouth to Headwaters	42A-TIMO0	Sedimentation			NPS Assessment - segment 294: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Goose & Summer Lakes</i>		Sub <i>Warner Lakes</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Burnt Creek Mouth to Headwaters	42C-BURN0	Biological Criteria	Benthic Macroinvertebrates		USFS Data	USFS Data (Site L5, 40S-21E-11 nwne): BCI of 57 indicated extreme stressed conditions in 1994 with indication of sedimentation and organic enrichment. Poor (66-69) BCI values were found in 1989-1990 respectively.		303(d) List	
					NPS Assessment - segment 302, moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (4 Sites: BT5720 40-22-6 senw; BT5910; BT6100 39-21-34 nesw; BT6600): 7 day average of daily maximums exceeded temperature standard (64) for 92/85/64; nd/nd/71; 72/61/44; and nd/nd/0 7-day periods in 1993/1994/1995 respectively.		303(d) List	
Camas Creek Mouth to Headwaters	42C-CAMA0	Dissolved Oxygen (DO)			NPS Assessment - segment 78: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
					NPS Assessment - segment 78: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
					NPS Assessment - segment 78: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
					NPS Assessment - segment 78: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; BLM data; NPS Assessment - segment 78: severe, observation (DEQ, 1988)	USFS Data (Site CS5500, 39-22-5 nese): 7 day average of daily maximums exceeded temperature standard (64) for 3/81/53 7-day periods in 1993/1994/1995 respectively. BLM data also available.		303(d) List	
Crump Lake Lake	42C.CRUM	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segments 323: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Goose & Summer Lakes</i>		Sub		<i>Warner Lakes</i>					
Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lake	42C.CRUM	Nutrients			NPS Assessment - segments 323: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Deep Creek Mouth to Headwaters	42C-DEEP0	Flow Modification			NPS Assessment - segments 288 - 290: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 289: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 288 - 290: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; BLM (1993, 1994); NPS Assessment - segments 288 - 290: moderate/ severe, observation (DEQ, 1988)	USFS Data (Site DP5700, 40-22-29 sesw): 7 day average of daily maximums exceeded temperature standard (64) for 22/84/52 7-day periods in 1993/1994/1995 respectively. Two BLM sites in 1997 were 76.3/79.6°F.		303(d) List	
Dismal Creek Mouth to Headwaters	42C-DISM0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: DL5760, 40-22-32 nwn and DL6700, 41-22-16 nwnw): 7 day average of daily maximums exceeded temperature standard (64) for nd/7/0 and 3/nd/nd 7-day periods in 1993/1994/1995 respectively.	Did not meet listing criteria	Potential Concern	
Drake Creek Mouth to Headwaters	42C-DRAK0	Flow Modification			NPS Assessment - segment 289: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 289: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 289: moderate, observation (DEQ, 1988); BLM data	Two BLM sites: 7 day ave. max temperature in 1997 was 72.4/79.6°F, exceeded temperature standard of (64°F)		303(d) List	Addition

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Basin <i>Goose & Summer Lakes</i>		Sub		<i>Warner Lakes</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Fifteenmile Creek Mouth to Headwaters	42C-FIFT0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (2 Sites: Lower and Upper): 7 day average of daily maximums of 75.3 with 51 days and 75.0 with 71 days respectively exceeded temperature standard (64) in 1994. Three BLM sites in 1997 72.1/54.6/78.3°F area of spring is cool otherwise stream exceeds temperature standard (64).		303(d) List	
Hart Lake Lake	42C.HART	Nutrients			NPS Assessment - segments 322: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Honey Creek Mouth to Little Honey Cr	42C-HONE0	Flow Modification			NPS Assessment - segments 73 and 74: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 73 and 74: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM; NPS Assessment - segments 73 and 74: moderate, observation (DEQ, 1988)	BLM Data (Lower Site): 7 day average of daily maximums of 91 with 87 days exceeding temperature standard (64) in 1994. Three BLM sites in 1997 were 75.9/77.9/80.1°F.		303(d) List	
Little Honey Cr to Headwaters	42C-HONE15	Flow Modification			NPS Assessment - segment 74: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 74: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 74: moderate, observation (DEQ, 1988)	USFS Data (Site HY5620, 36-22-29 swse): 7 day average of daily maximums exceeded temperature standard (64) for 0/4/1 7-day periods in 1993/1994/1995 respectively.	Did not meet listing criteria	Potential Concern	

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Basin <i>Goose & Summer Lakes</i>		Sub		<i>Warner Lakes</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Horse Creek Mouth to Headwaters	42C-HORS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: HO5600, 40-22-5 nenw and HO5760, 39-22-31 nenw): 7 day average of daily maximums exceeded temperature standard (64) for 71/nd/nd and nd/28/78 7-day periods in 1993/1994/1995 respectively. BLM data also available.		303(d) List	
Little Honey Creek Mouth to Headwaters	42C-HOLI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site LH5960, 36-22-19 swse): 7 day average of daily maximums exceeded temperature standard (64) for 8/56/19 7-day periods in 1993/1994/1995 respectively.		303(d) List	
Mud Creek Mouth to Headwaters	42C-MUD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site MD6120, 38-21-13 sese): 7 day average of daily maximums exceeded temperature standard (64) for 61/20/67/39 7-day periods in 1992/1993/1994/1995 respectively.		303(d) List	
Parsnip Creek Mouth to Headwaters	42C-PARS0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Lower Site): 7 day average of daily maximums of 68.8 exceeded temperature standard (64) in 1993. Two BLM sites in 1997 were 73.8/68.7°F.		303(d) List	
Polander Creek Mouth to Headwaters	42C-POLA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site PO5620, 40-22-20 sesw): 7 day average of daily maximums exceeded temperature standard (64) for 84 and 61 7-day periods in 1994 and 1995 respectively.		303(d) List	
Porcupine Creek Mouth to Headwaters	42C-PORC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site PC6500, 38-21-2 swse): 7 day average of daily maximums exceeded temperature standard (64) for 24/18/65/8 7-day periods in 1992/1993/1994/1995 respectively.		303(d) List	

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Basin <i>Goose & Summer Lakes</i>		Sub			<i>Warner Lakes</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Rosa Creek Mouth to Headwaters	42C-ROSA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site RS5940, 38-21-30 swne): 7 day average of daily maximums exceeded temperature standard (64) for 0 7-day periods in 1992 - 1995 respectively.	Did not meet listing criteria	OK		
Snyden Creek Mouth to Headwaters	42C-SNYD0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Upper Site): 7 day average of daily maximums of 76.2°F exceeded temperature standard (64) in 1997.		303(d) List	Addition	
Snyder Creek Mouth to Headwaters	42C-SNYD0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Lower Site): 7 day average of daily maximums of 75.2 with 67 days exceeding temperature standard (64) in 1994.		303(d) List		
Twelvemile Creek Mouth to National Forest Boundary	42C-TWEL0	Flow Modification			NPS Assessment - segments 81 and 82: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Sedimentation			NPS Assessment - segments 81 and 82: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data		
National Forest Boundary to Headwaters	42C-TWEL10	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segments 81 and 82: moderate/severe, observation (DEQ, 1988)	USFS Data (Site TW6400,): 7 day average of daily maximums exceeded temperature standard (64) for 0 7-day periods in 1995.	Did not meet listing criteria	OK		
Twelvemile Creek (Honey Creek) Mouth to Headwaters	42C-TWEH0	Flow Modification			NPS Assessment - segment 76: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Sedimentation			NPS Assessment - segment 76: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature			NPS Assessment - segment 76: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		

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Basin <i>Goose & Summer Lakes</i>		Sub		Warner Lakes					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Twelvemile Creek (Twentymile Creek) Mouth to National Forest Boundary	42C-TWEL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segments 81 and 82: moderate/severe, observation (DEQ, 1988)	BLM Data (2 Sites: Lower and Upper): 7 day average of daily maximums of 82.0 with 84 days and 80.4 with 84 days respectively exceeded temperature standard (64) in 1994. Two BLM sites in 1997 were 78.6/74.1°F, new middle site in 1997 was 78.2°F .		303(d) List	
Twelvemile Creek, North Fork Mouth to Headwaters	42C-TWNFO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site NT6600): 7 day average of daily maximums exceeded temperature standard (64) for 4 7-day periods in 1995.		303(d) List	
Twentymile Creek Mouth to Headwaters	42C-TWENO	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (1 site): 7 day average of daily maximums of 77.1 with 57 days exceeding temperature standard (64) in 1994. 1997 data 77.3°F		303(d) List	
Willow Creek Mouth to Headwaters	42C-WILLO	Biological Criteria	Benthic Macroinvertebrates		USFS Data	USFS Data (Site L6, 40S-21E-13 swnw): BCI of 60 indicated stress conditions in 1994 with indication of sedimentation and organic enrichment. Excellent to good (98-86) BCI values were found in 1989-1990 respectively.	Did not meet listing criteria	Potential Concern	
		Sedimentation			NPS Assessment - segments 302: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site WI5680, 40-22-7 nesw): 7 day average of daily maximums exceeded temperature standard (64) for 38/51/51 7-day periods in 1993/1994/1995 respectively.		303(d) List	

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Basin	<i>Grande Ronde</i>	Sub	<i>Imnaha</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Big Sheep Creek Mouth to Owl Cr	31B-SHBI0	Habitat Modification			Big Sheep Creek Watershed Analysis (USFS, 1995)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. LWD is limited to that used in restoration projects, pool frequency, and width:depth ratios are below desired feature conditions (Big Sheep Cr Watershed Assessment, USFS, 95).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Big Sheep Creek Watershed Analysis (1995)	USFS Data (Site at Echo Cr): 7 day moving average of daily maximums of 69.6/64.4 exceeded temperature standard (64) in 1992/1993.		303(d) List	
Owl Cr to Wilderness Boundary	31B-SHBI29	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data, Bull Trout Habitat, Big Sheep Creek Watershed Analysis (1995)	USFS Data (3 Sites: Below Canal; Above Lick Cr; and At Echo Cr): 7 day moving average of daily maximums of nd/58.8; 68.3/64.2; and 69.6/64.4 exceeded Bull Trout temperature standard (50) in 1992/1993 respectively.		303(d) List	
Camp Creek Mouth to Headwaters	31B-CAMP0	Flow Modification			NPS Assessment - segment 330: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 330: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 330: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 330: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cow Creek Mouth to Headwaters	31B-COW0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 74.9 exceeded temperature standard (64) in 1993 but data was questionable due to unusual data points and probe malfunction in September.	Supporting data in question (USFS Comments, 2/96)	Potential Concern	

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Basin	<i>Grande Ronde</i>	Sub	<i>Imnaha</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Grouse Creek Mouth to headwaters	31B-GROU0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1992 data shows exceedence of temperature criteria, 7 day ave. max. 65.3°F		303(d) List	Addition
Gumboot Creek Mouth to Headwaters	31B-GUMB0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 66.0 exceeded temperature standard (64) in 1992.		303(d) List	
Imnaha River Mouth to Crazyman Cr	31B-IMNA0	Bacteria			Wallowa County Salmon Recovery Plan (1993)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 327: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segments 325 - 327: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 325 - 329: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 325 - 329: moderate, observation (DEQ, 1988)	Imnaha R Chinook runs are declining. Redds have declined (average of 47 in 1952-57; average of 10 in 1982-87); excess fine sediment from natural landslides have been identified as high priority (Wallowa Salmon Recovery Plan, 1993).	Landslide was natural phenomena not related to human use (Wallowa Salmon Recovery Plan, 93)	Potential Concern	
Mouth to Summit Creek		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data; NPS Assessment - segments 325 - 329: moderate, observation (DEQ, 1988); USFS data	DEQ Data (Site Below Imnaha): 7 day moving average of daily maximums of 69.1 with 21 days exceeding temperature standard (64) in 1995. Two USFS sites in 1993 below Lightning Creek 65.5°F and below Cow Creek 74.9°F.		303(d) List	
Mouth to Crazyman Cr		Toxics	Mercury		Wallowa County Salmon Recovery Plan (1993)		No supporting data or information	Need Data	

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Basin	<i>Grande Ronde</i>	Sub	<i>Imnaha</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Summit Cr to North/South Fork Confluence	31B-IMNA45	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (2 Sites: At Indian Crossing and Nine Point Creek): 7 day moving average of daily maximums of 56.2 and 61.5 respectively exceeded Bull Trout temperature standard (50) in 1993; DEQ Data (Cloverdale Camp ground): 7 day ave of 57.2 in 1995.		303(d) List	
Crazyman Cr to Headwaters	31B-IMNA50.7	Sedimentation			Wallowa County Salmon Recovery Plan (1993) - may be due to Natural Causes		No supporting data or information	Need Data	
		Toxics	Mercury		Wallowa County Salmon Recovery Plan (1993)		No supporting data or information	Need Data	
Lick Creek									
Mouth to Mud Springs Creek	31B-LICK0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data, Bull Trout Habitat, Big Sheep Creek Watershed Analysis (1995)	USFS Data (Site at mouth): 7 day moving average of daily maximums of 66.4 exceeded Bull Trout temperature standard (50) in 1992.		303(d) List	
Lightning Creek									
Mouth to Headwaters	31B-LIGN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 65.3 and 66.5 exceeded temperature standard (64) in 1992 and 1993 respectively.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Grande Ronde</i>		Sub		<i>Lower Grande Ronde</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Broady Creek Mouth to Headwaters	31F-BROA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at confluence with West Fork): 7 day moving average of daily maximums of 58.6 did not exceed temperature standard (64) in 1992.	Did not meet listing criteria	OK	
Butte Creek Mouth to Washington Border	31F-BUTTO	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at mouth): 7 day moving average of daily maximums of 69.2/65/65°F exceeded Bull Trout temperature standard (50) in 1994/95/96.	Exceedences are natural as watershed is wilderness area (USFS, 2/96)	OK	
Chesnimnus Creek Mouth to Headwaters	31F-CHES0	Flow Modification			NPS Assessment - segment 304 and 305: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Wallowa County Salmon Recovery Plan (1993); Clearwater (1993)	Summer Steelhead are a stock of concern. Pools and Width/Depth Ratio have been identified as being below or near Forest Plan Standard and Guidelines (Upper Joseph Creek Watershed Analysis, USFS, 1995)		303(d) List	
		Sedimentation			NPS Assessment - segment 304 and 305: moderate, observation (DEQ, 1988)	Summer Steelhead are a stock of concern. Embeddedness has been identified as being below or near Forest Plan Standard and Guidelines (Upper Joseph Creek Watershed Analysis, USFS, 1995)		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 304 and 305: moderate, observation/data (DEQ, 1988)	USFS Data (2 Sites: At Forest Service boundary and At Vigne Campground): 7 day moving average of daily maximums of 64.0/80.5 and nd/68.8 exceeded temperature standard (64) in 1992/1993 respectively.		303(d) List	
Courtney Creek Mouth to Headwaters	31F-COUR0	Flow Modification			NPS Assessment - segment 292: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 292: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub <i>Lower Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Crooked Creek Mouth to Washington Border	31F-CROO0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 75.0/71/65°F exceeded temperature standard (64) in 1994.	Exceedences are natural as watershed is wilderness area and is in recovery from wildfires and flooding (USFS, 2/96)	OK	
Crow Creek Mouth to Headwaters	31F-CROW0	Flow Modification			NPS Assessment - segment 306: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 306: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 306: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 306: moderate, data (DEQ, 1988)	USFS Data (Site at National Forest Boundary): 7 day moving average of daily maximums of 71.1 exceeded temperature standard (64) in 1992.		303(d) List	
Davis Creek Mouth to Headwaters	31F-DAVIO	Flow Modification			NPS Assessment - segment 303: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 303: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 303: moderate, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day moving average of daily maximums of 68.0 exceeded temperature standard (64) in 1992.		303(d) List	
Devils Run Creek Mouth to Headwaters	31F-DEVIO	Flow Modification			NPS Assessment - segment 324: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub <i>Lower Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	31F-DEVIO	Sedimentation			NPS Assessment - segment 324: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 324: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Elk Creek Mouth to Headwaters	31F-ELK0	Flow Modification			NPS Assessment - segment 322: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Wallowa County Salmon Recovery Plan (1993); Clearwater (1993)	Summer Steelhead are a stock of concern. Pools, Width/Depth Ratio and Large Woody Debris have been identified as being below or near Forest Plan Standard and Guidelines (Upper Joseph Creek Watershed Analysis, USFS, 1995)		303(d) List	
		Sedimentation			NPS Assessment - segment 322: moderate, observation (DEQ, 1988)	Summer Steelhead are a stock of concern. Embeddedness has been identified as being below Forest Plan Standard and Guidelines (Upper Joseph Creek Watershed Analysis, USFS, 1995)		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 322: moderate, data (DEQ, 1988)	USFS Data (2 Sites: Lower and Upper): 7 day moving average of daily maximums of 64.4 and 69.4 respectively exceeded temperature standard (64) in 1993.		303(d) List	
Grande Ronde River State Line to Wallowa R	31--GRAN037.1	Habitat Modification			Wallowa County Salmon Recovery Plan (1993)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Lack of large woody debris has been identified as a high priority between Wildcat Creek to State Line (Wallowa County Salmon Recovery Plan, 1993).		303(d) List	
		pH			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub		<i>Lower Grande Ronde</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
State Line to Wallowa R	31--GRAN037.1	Sedimentation			Wallowa County Salmon Recovery Plan (1993); NPS Assessment - segment 271: moderate, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Excess fine sediment have been identified as high priority (Wallowa County Salmon Recovery Plan, 1993).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; WA DOE 303(d) List; NPS Assessment - segment 271: moderate, observation (DEQ, 1988)	USFS Data (2 Sites: Below Elbow and Above Alder Creeks): 7 day moving average of daily maximums of 72.8 and 70.6 respectively exceeded temperature standard (64) in 1993.		303(d) List	
Grossman Creek Mouth to Headwaters		31F-GROS0	Temperature		NPS Assessment - segment 294: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Joseph Creek Washington Border to Crow/Elk Creek Confluence		31F-JOSE0	Flow Modification		NPS Assessment - segment 302: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
			Sedimentation		NPS Assessment - segment 302: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
			Temperature	Rearing 64 F (17.8 C)	Summer	USFS; NPS Assessment - segment 302: moderate, observation (DEQ, 1988)	USFS Data (Site at mouth of Tamarack): 7 day moving average of daily maximums of 80.3 exceeded temperature standard (64) in 1992; ODFW thermograph at RM 44.0 has recorded summer temperatures above 80 since 1988 (Wallowa Salmon Recovery Plan, 1993).	303(d) List	
Peavine Creek Mouth to East/West Fork Confluenc		31F-PEAV0	Flow Modification		NPS Assessment - segment 323: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
			Habitat Modification		Joseph Creek Watershed Analysis (1995)	Summer Steelhead are a stock of concern. Pools, Width/Depth Ratio and Large Woody Debris have been identified as being below or near Forest Plan Standard and Guidelines (Upper Joseph Creek Watershed Analysis, USFS, 1995)		303(d) List	

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Basin <i>Grande Ronde</i>		Sub <i>Lower Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to East/West Fork Confluenc	31F-PEAV0	Sedimentation			NPS Assessment - segment 323: moderate, observation (DEQ, 1988)	USFS Data (2 Sites: At confluence with West Fork and At mouth): 7 day moving average of daily maximums of 65.8 and 72.2 respectively exceeded temperature standard (64) in 1993.	No supporting data or information	Need Data	303(d) List
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 323: moderate, data (DEQ, 1988)				
Salmon Creek Mouth to Headwaters	31F-SALM0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data	ODFW Data (2 Sites: Lower and Upper): 7 day moving average of daily maximums of 80.1/71.6 and 77.8/77.5 exceeded temperature standard (64) in 1992/1993 respectively.		Need Data	303(d) List
Swamp Creek Mouth to Headwaters	31F-SWAM0	Flow Modification			NPS Assessment - segment 303: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 303: moderate, observation (DEQ, 1988)				
		Temperature			NPS Assessment - segment 303: moderate, observation (DEQ, 1988)				
Wallupa Creek Mouth to Headwaters	31F-WALL0	Temperature			NPS Assessment - segment 293: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wenaha River Mouth to Butte Creek	31F-WENA0	Dissolved Oxygen (DO)	Salmonid spawning:inter gravel DO>8mg/l,water<9mg/l		USFS Data Umatilla Forest Plan Monitoring and Evaluation Report 1996	USFS Forest Plan Report noted on Pg 12 that DO was below 90 percent saturation (75%). One sample in Sept. 1996, DO was 9.6 mg/l, did not do intergravel DO.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Grande Ronde</i>		Sub <i>Lower Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Butte Creek	31F-WENA0	Sedimentation			Wallowa County Salmon Recovery Plan (1993)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (167 in 1964; 58/92); excess fine sediment has been identified as high priority - much of the drainage is wilderness (Wallowa Co Salmon Recovery Plan, 93). USFS Data (3 Sites): 7 day moving average of daily maximums, Near Mill Bar for 1992/93/94/95 were 75.0/67/73.9/70°F; At Wilderness Boundary for 1992/93/96 was 71.2/67.9/66°F; and Below Butte Creek for 1992/93 was 66.1/62.5°F exceeded temperature standard (64) all but one site one year.	Exceedences are natural as watershed is wilderness area (USFS, 2/96)	Potential Concern	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data			303(d) List	
Butte Cr to Headwaters	31F-WENA14.7	Flow Modification			NPS Assessment (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (167 in 1964; 58/92); excess fine sediment has been identified as high priority - much of the drainage is wilderness (Wallowa Co Salmon Recovery Plan, 93). USFS Data (Site at North/South Forks): 7 day moving average of daily maximums of 58.9/57/56°F exceeded Bull Trout temperature standard (50) in 1994/95/96.	Exceedences are natural as watershed is wilderness area (USFS, 2/96)	Need Data	
		Habitat Modification			NPS Assessment (DEQ, 1988)			Need Data	
		Sedimentation			Wallowa County Salmon Recovery Plan (1993); NPS Assessment (DEQ, 1988)			Potential Concern	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat			OK	
Wildcat Creek Mouth to Headwaters	31F-WILD0	Sedimentation			NPS Assessment - segment 622: severe, observation (DEQ, 1988)		Exceedences are natural as watershed is wilderness area (USFS, 2/96)	Need Data	
		Temperature			NPS Assessment - segment 622: moderate, observation (DEQ, 1988)			Need Data	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Bear Creek									
Mouth to Headwaters	31D-BEAR0	Habitat Modification			NPS Assessment - segments 462, 560: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segments 462, 560: moderate, observation (DEQ, 1988)	USFS Data (Site near Little Bear Creek): 7 day moving average of daily maximums of 80.4 exceeded temperature standard (64.) in 1992.			303(d) List
Beaver Creek									
Mouth to La Grande Reservoir	31D-BEAV0	Flow Modification			Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segments 316, 463: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segments 316, 463: moderate, observation/data (DEQ, 1988)	Summer Steelhead are a stock of concern. Fine sediment have been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).			303(d) List
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segments 316: moderate, observation (DEQ, 1988)	USFS Data (4 Sites): 7 day moving average of daily maximums, at mouth 74.1/67.4/66.7°F in 1992/93/97; above Rd 270 69.7 in 1994; below Rd 4305 70.6/66.7°F and above LaGrande Reservoir 77.7/65.2/65.2°F in 1993/94/97 exceeded temperature standard (64) .			303(d) List
Beaver Creek, West Fork									
Mouth to Headwaters	31D-BEWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (above Road 270): 7 day moving average of daily maximums of 57.3/69.7/62.7°F in 1993/94/97; one of three years exceed temperature standard (64 degrees), exceedence was in a drought year.	Did not meet listing criteria	Potential Concern	Removed (5)
Buck Creek									
Mouth to Headwaters	31D-BUCK0	Sedimentation			NPS Assessment - segment 547: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Burnt Corral Creek Mouth to Headwaters	31D-BURN0	Habitat Modification			NPS Assessment - segment 557: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 557: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS and DEQ Data	USFS Data (2 Sites: near mouth and at Road 040): 7 day moving average of daily maximums of 71.5/nd/69.3°F and 68.4/58.9/62.0 exceeded temperature standard (64) in 1992/1993/1994 respectively.		303(d) List	
Catherine Creek Mouth to Union Dam	31D-CATH0	Aquatic Weeds or Algae	Periphyton	Summer	DEQ Data - TMDL Study (1992 - 1994)	DEQ Data - TMDL Study (92, 93)		303(d) List	
		Chlorophyll a		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (4 Sites: 404310, 404249, 404350, 404248; RM 4.2 - 18.3): 0% (0 of 5, 6, 5, 7) Summer values respectively exceeded chlorophyll a standard (15 ug/l) between 91 - 93.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	June 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 282 and 283: moderate, observation (DEQ, 1988)	DEQ TMDL Data: Summer diurnal Dissolved Oxygen data typically ranges from 5 - 20 mg/l (50-200%) and exceeded Dissolved Oxygen standard (8 mg/l or 90% saturation) especially below Union STP (cold water fishery, rearing August - February).		303(d) List	
		Flow Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segments 282 and 283: severe/moderate, data/observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Migration and holding of salmon is not possible after early summer due to low flow (Carmichael, 1993).		303(d) List	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Union Dam	31D-CATH0	Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 282: severe, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Lack of pool habitat and a high width:depth ratio have been identified as limiting factors (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Nutrients	Phosphorus	Summer	DEQ Data - TMDL Study (1992 - 1994); NPS Assessment - segments 282 and 283: moderate, observation (DEQ, 1988)	DEQ Data (4 Sites: 404310, 404249, 404349, 404350; RM 4.15 - 14.0): 33%(2 of 6), 83%(5 of 6), 40%(2 of 5), 92%(11 of 12) Summer values exceeded phosphorus standard (100 ug/l) with maximum values of 140 - 250 between 91 - 93.		303(d) List	
		pH		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ TMDL Study: pH values range up to 9.5.		303(d) List	
		Sedimentation			NPS Assessment - segments 282 and 283: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 282: severe, data (DEQ, 1988)	DEQ Data (Site at Hwy 203): 7 day moving average of daily maximums of 72.4/73.1°F exceeded temperature standard (64) in 1992/94.		303(d) List	
		Toxics	Pesticides		NPS Assessment - segment 282: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Union Dam to North/South Confluence	31D-CATH20	Flow Modification			NPS Assessment - segment 284: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (Site 404248; RM 18.3): 0% (0 of 11) Summer values exceeded pH standard (6.5 - 9.0) between 91-93.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 284: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data	USFS Data (Site below Little Catherine Creek): 7 day moving average of daily maximums of 67.6 exceeded temperature standard for Bull Trout (50°F) in 1993.		303(d) List	Addition

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Catherine Creek, Middle Fork									
Mouth to Squaw Creek	31D-CAMF0	Sedimentation			NPS Assessment - segment 476: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site near mouth): 7 day moving average of daily maximums of 59.8/55.0/56.5°F exceeded Bull Trout temperature standard (50) in 1992/93/95 respectively.			303(d) List
Catherine Creek, North Fork									
Mouth to Middle Fork	31D-CANF0	Flow Modification			NPS Assessment - segment 284: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 284: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Cobble embeddedness has been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).			303(d) List
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (3 Sites: Near mouth; Near Middle Fork; and Upper Meadow): 7 day moving average of daily maximums of 68.2/61.7/56.9/63.0/62.9°F in 1992/93/95/96/97; 65.9/63.7 in 1992/93; and 72.9 in 1993 exceeded Bull Trout temperature standard (50) respectively.			303(d) List
Catherine Creek, South Fork									
Mouth to South Catherine Ditch		31D-CASF0			Habitat		NPS Assessment - segment	No supporting data	
Need Data		Modification			475: moderate, observation (DEQ, 1988)		or information		
Diversion		Sedimentation			Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 475: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Cobble embeddedness has been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).			303(d) List

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Pole Creek to South Catherine Ditch Diversion	31D-CASF0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (2 Sites: Near mouth and Upper): 7 day moving average of daily maximums of 72.1/63.5/62.3/65.5°F in 1992/93/96/97 and 60.4/57.9/51.5 in 1992/93/95 exceeded Bull Trout temperature standard (50) respectively.		303(d) List	
Chicken Creek									
Mouth to West Chicken Creek	31D-CHIC0	Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 467: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. High width:depth ratio, low pool frequency, and LWD have been identified as below desired feature conditions (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Sedimentation			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 467: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Fine sediment have been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data; NPS Assessment - segment 467: moderate, observation (DEQ, 1988),	DEQ Data (Site at Junction of FSR 51 and 517): 7 day moving average of daily maximums of 73.9 and 67.6 exceeded temperature standard (64) in 1992 and 1993 respectively. DEQ site at mouth 72.8 °F in 1997.		303(d) List	
West Chicken Creek to Headwaters	31D-CHIC4.7	Habitat Modification			NPS Assessment - segment 555: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 555: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 555: moderate, observation (DEQ, 1988)	USFS Data (Site above West Chicken Creek): 7 day moving average of daily maximums of 63.0/58.2/61.7/53.7/62.9/57.8°F in 1992/93/94/95/96/97 did not exceed temperature standard (64) .	Did not meet listing criteria	OK	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Chicken Creek, West Mouth to end of meadow in Section 15	31D-CHWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 468: moderate, observation (DEQ, 1988)	USFS Data (Site near mouth): 7 day moving average of daily maximums of 72.3/68.3/ND/59.4/72.8/68.9°F in 1992/93/94/95/96/97 exceeded temperature standard (64).		303(d) List	
Clark Creek Mouth to Headwaters	31D-CLAR0	Flow Modification			NPS Assessment - segment 307: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 307: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 307: moderate, observation (DEQ, 1988); DEQ data	DEQ Data: Site at mouth, 7 day ave. max. temperature of 75.5°F in 1997 exceeded temperature standard (64).		303(d) List	Addition
Clark Creek, North Fork Mouth to Headwaters	31D-CLNF0	Flow Modification			NPS Assessment - segment 307: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 307 and 541: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segments 307 and 541: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Clear Creek Mouth to Headwaters	31D-CLEA0	Sedimentation			Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 552: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Cobble embeddedness has been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Mouth to FRS 0540/050 junction	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site Near mouth): 7 day moving average of daily maximums of 64.2/60.1/63.0/63.6°F did not exceed temperature standard (64) in 1992/93/94/97 respectively.	Did not meet listing criteria	OK

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Dark Canyon Creek Mouth to Headwaters	31D-DARK0	Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 461: moderate, data (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. High width:depth ratio, low pool frequency, and LWD have been identified as below desired feature conditions in portions of the creek (U/M GR River Basin Assessment, Bach, 1995).		303(d) List	
				pH	Summer		DEQ Data	DEQ Data (2 Sites: 404757 and 404758; RM 0.4 and 3.0): 0% (0 of 6, 6) Summer values exceeded pH standard (6.5 - 9.0) between 93 - 95.	Did not meet listing criteria
		Sedimentation			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ,95); NPS Assessment - segment 461: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Cobble embeddedness has been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS & DEQ Data; NPS Assessment - segment 461: moderate, observation (DEQ, 1988)		USFS Data (Site at National Forest Boundary) 7 day moving average of daily maximums of 75.1/67.3/67.8°F in 1992/93/94; and DEQ Data (4 Sites: RM 1.25; 4.0 and upper and lower reaches);68.5 and 64.5 in 1993 and 69.9/71.2 and 70.6/66.3 in 1993/95 exceeded temperature standard (64) .		303(d) List
Dry Beaver Creek Mouth to Headwaters	31D-DRYB0	Temperature			NPS Assessment - segment 464: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
Dry Creek Mouth to Headwaters	31D-DRY0	Dissolved Oxygen (DO)			NPS Assessment - segment 287: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Flow Modification			NPS Assessment - segment 287: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment - segment 287: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	31D-DRY0	Nutrients			NPS Assessment - segment 287: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 287: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 287: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Eagle Creek Mouth to Headwaters	31D-EAGL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site At mouth): 7 day moving average of daily maximums of 61.1/58.9°F did not exceed temperature standard (64) in 1992/97.	Did not meet listing criteria	OK	
Fivepoint Creek Mouth to Tie Creek	31D-FIVE0	Flow Modification			NPS Assessment - segment 309 and 310: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 309 and 310: moderate, data (DEQ, 1988)	USFS Data (Site Below Tie Creek): 7 day moving average of daily maximums of 67.0 exceeded temperature standard (64) in 1992.		303(d) List	
Tie Creek to Headwaters	31D-FIVE9.7	Flow Modification			NPS Assessment - segment 310: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 310: moderate, observation (DEQ, 1988)	USFS Data (Site Below Mt. Emily Creek): 7 day moving average of daily maximums of 62.2 did not exceed temperature standard (64) in 1992.	Did not meet listing criteria	OK	
Fivepoint Creek, Mid Fork Mouth to Headwaters	31D-FIMF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (near mouth): 7 day moving average of daily maximums of 61.8 did not exceed temperature standard (64 degrees) in 1992	Did not meet listing criteria	OK	
Fly Creek Mouth to Umapine Creek	31D-FLY0	Flow Modification			NPS Assessment - segment 314: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Umapine Creek	31D-FLY0	Habitat Modification			Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 314: moderate, data (DEQ, 1988)	Summer Steelhead are a stock of concern. Large woody debris (LWD) has been identified as below desired feature conditions (DFC) (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Sedimentation			Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 314: moderate, data (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Fine sediment have been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS & DEQ Data; NPS Assessment - segment 314: moderate, data (DEQ, 1988)	USFS Data (2 Sites: Above Grande Ronde R; Below Vey Meadows); & DEQ Data (2 Sites: At mouth; Below L Fly Cr): 7 day moving average of daily maximums of 74.7/70.5 in 1992/93; 78.8/76.1/64.8°F in 1992/93/95; 70.1/70.3; in 1993/94 and 74.7 in 1993 exceeded temperature standard (64) respectively.		303(d) List	
Umapine Creek to Headwaters	31D-FLY12	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data	DEQ Data (3 Sites: At RM 12.5; 13.0; and FSR 5160): 7 day moving average of daily maximums of 63.0; 60.8; and 59.1 did not exceed temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Gordon Creek									
Mouth to East Branch	31D-GORD0	Flow Modification			NPS Assessment - segment 289: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 289: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Grande Ronde River									
Wallowa R to Five Points Cr	31--GRAN082	Aquatic Weeds or Algae	Periphyton	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 272 - 276: moderate, data (DEQ, 1988)	DEQ Data - TMDL Study (92, 93)		303(d) List	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Wallowa R to Five Points Cr	31--GRAN082	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 272 - 276: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 402396 and 404200; RM 99.0 and 151.1): 12% (3 of 25) and 11% (2 of 19) FWS values respectively exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 86 - 95.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (2 Sites: 402396 and 404200; RM 99.0 and 151.1): 4% (1 of 24) and 10% (2 of 21) Summer values exceeded fecal coliform standard (400) with maximum values of 460 and 1100 respectively between WY 86 - 95.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (13 Sites; RM 99 - 161.1): 12%(3 of 25), 0%(0 of 7), 20%(1 of 5), 0%(0 of 6, 5, 5), 8%(2 of 24), 0%(0 of 6, 6, 7, 8, 7, 5) Summer values exceeded chlorophyll a standard (15 ug/l) with maximums of 116, 17, 36, respectively from 86 - 95. Data did not meet 3-month average value exceedence criteria.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	November 1 - May 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 272 - 276: moderate, observation (DEQ, 1988)	DEQ Data (2 Sites: 402396, 404200; RM 99.0, 151.1.): 4%(1 of 25), 0%(0 of 25) March - Did not exceeded Dissolved Oxygen standard (11 mg/l or 95% saturation) with a minimum of 8.9 mg/l (89%) between WY 86-95 (cold water fishery, spawning appx Mar-Jul).	Listed in error in the 1994/96 list.	OK	Removed (1)
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	June 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 272 - 276: moderate, observation (DEQ, 1988)	DEQ TMDL Data: Summer diurnal Dissolved Oxygen data typically ranges from 7 - 12 mg/l (60-150%) and exceeded Dissolved Oxygen standard (8 mg/l or 90% saturation) especially below La Grande STP (cold water fishery, rearing approximately August - February).			303(d) List
		Flow Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); IWR; NPS Assessment - segments 272 - 276: moderate, data/observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Migration and holding of salmon is not possible after July due to low flow (Carmichael, 1993).		303(d) List	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Wallowa R to Five Points Cr	31--GRAN082	Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); IWR; NPS Assessment - segments 272 - 276: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Lack of complex habitat, pool frequency, and large woody debris have been identified as limiting (Huntington, 1993).		303(d) List	
		Nutrients	Phosphorus	Summer	DEQ Data; NPS Assessment - segments 272 - 276: severe, data (DEQ, 1988)	DEQ Data (16 Sites; RM 99.0 - 161.1): 0% (0 of 7 - 12), 16 - 100% (3 -10 of 5 - 32) Summer values exceeded phosphorus standard (100 ug/l) with maximum values of 140 - 2100 between WY 86 - 95.		303(d) List	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites: 402396 and 404200; RM 99.0 and 151.1): 0% (0 of 27) and 0% (0 of 20) FWS values respectively exceeded pH standard (6.5 - 9.0) between WY 86 - 95.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 272 - 276: moderate, data (DEQ, 1988)	DEQ Data (16 Sites; RM 99.0 - 161.1): 0% (0 of 5 - 9), 8 - 43% (1 - 7 of 6 - 28) Summer values exceeded pH maximum standard (6.5 - 9.0) with maximum values of 9.3 - 10.3 between WY 86 - 95.		303(d) List	
		Sedimentation			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segments 272 - 276: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Cobble embeddedness and fine sediment have been identified as limiting factors for rearing (Huntington, 1993).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994), DEQ Data; NPS Assessment - segments 272 - 276: moderate, observation (DEQ, 1988)	DEQ Data (2 Sites: 404200 and 402396): 7 day average of daily maximums of 80.0/76.8/81.3 and nd/nd/80.7 respectively exceeded temperature standard (64) in 1992/1993/1995.		303(d) List	
		Toxics	Pesticides		NPS Assessment - segments 272 - 276: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Five Points Cr to Tanner Gulch	31--GRAN165.6	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402397; RM 166.8): 4% (1 of 25) Summer values exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 86 - 95.	Did not meet listing criteria	OK	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Five Points Cr to Tanner Gulch	31--GRAN165.6	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402397; RM 166.8): 4% (1 of 24) FWS values exceeded fecal coliform standard (400) with a maximum value of 460 between WY 86 - 95.	Did not meet listing criteria	OK		
		Chlorophyll a		Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 277 - 278: moderate/severe, data (DEQ, 1988)	DEQ Data (Site 402397; RM 166.8): 0% (0 of 24) Summer values exceeded chlorophyll a standard (15 ug/l) between 86 - 95.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	August 1 - February 28	DEQ Data	DEQ Data (Site 402397; RM 166.8): 0% (0 of 29) August - February values exceeded rearing Dissolved Oxygen standard (8 mg/l or 90% saturation) between WY 86-95 (cold water fishery, rearing approximately August - February).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)		March 1 - July 31	DEQ Data	DEQ Data (Site 402397; RM 166.8): 4% (1 of 23) March - July values exceeded Dissolved Oxygen standard (11 mg/l or 95% saturation) with a minimum of 10.1 mg/l (88%) between WY 86-95 (cold water fishery, spawning approximately March - July).	Did not meet listing criteria	OK		
		Flow Modification				NPS Assessment - segments 277 - 280: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification				GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segments 277 - 281: moderate, observation/data (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Lack of complex habitat, pool frequency and large woody material have been identified as limiting (Huntington, 1993).		303(d) List	
		pH			Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 277 - 278: moderate/severe, data (DEQ, 1988)	DEQ Data (Site 402397; RM 166.8): 0% (0 of 26) FWS values exceeded pH maximum standard (6.5 - 9.0) between WY 86 - 95.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Five Points Cr to Tanner Gulch	31--GRAN165.6	pH		Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 277 - 278: moderate/severe, data (DEQ, 1988)	DEQ Data (Site 402397; RM 166.8): 12% (3 of 25) Summer values exceeded pH maximum standard (6.5 - 9.0) with a maximum value of 9.5 between WY 86 - 95.		303(d) List	
		Sedimentation			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segments 277 - 281: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Fine sediment have been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
Five Points Cr to Limber Jim Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS & DEQ Data; NPS Assessment - segments 277 - 281: moderate, observation (DEQ, 1988)	DEQ Data (3 Sites: At Hilgard; Below Jordan; and Below Meadow Cr): 7 day average of daily maximums of nd/76/71.8; 78.6/67.9/nd; and 78.8/76.1/nd exceeded standard (64) respectively in 1992/1993/1995; USFS data also available.		303(d) List	Segment Modification
Tanner Gulch to Headwaters	31--GRAN194	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402397; RM 166.8): 4% (1 of 25) Summer values exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 86 - 95.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402397; RM 166.8): 4% (1 of 24) FWS values exceeded fecal coliform standard (400) with a maximum value of 460 between WY 86 - 95.	Did not meet listing criteria	OK	
		Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Lack of complex habitat, pool frequency, and large woody material have been identified as limiting (Huntington, 1993).		303(d) List	
		Sedimentation			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 455: severe, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Fine sediment have been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Limber Jim Creek to Clear Creek	31--GRAN197.5	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data	USFS site above Limber Jim Creek, 7 day ave. max. water temperature was 54.8°F which exceeded Bull Trout criteria of 50°F.		303(d) List	Segment Modification
Clear Creek to Headwaters	31--GRAN200	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Above Blowout Creek): 7 day moving average of daily maximums of 59.3 and 60.1 (temperature standard (64)) in 1992 and 1993. Above Clear Creek 66.5/62.3°F in 1992/95 and above Limber Jim Creek 54.8°F in 1993.	Did not meet listing criteria	OK	Segment Modification
Grande Ronde River, East Fork									
Mouth to Headwaters	31D-GREF0	Sedimentation			NPS Assessment - segment 471: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data (at FSR 5138): 7 day moving average of daily maximums of 59.6/64.7/60.6/62.0°F in 1993/94/95/97 exceed temperature standard (64 degrees) one year out of four (94 was a drought year).	Did not meet listing criteria	OK	
Hoodoo Creek									
Mouth to headwaters	31D-HOOD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site at Rd 4305: 7 day ave. max. temperature was 77.7/52.2/49.7°F in 1993/94/95 data shows exceedence of temperature criteria in 1993, but is low other years. Suspect measurement.	Did not meet listing criteria	OK	Addition
Indian Creek									
Mouth to Little Indian Cr	31D-INDI0	Flow Modification			NPS Assessment - segment 308: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 308: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data, NPS Assessment - segment 308: moderate, data (DEQ, 1988)	DEQ Data: Site at mouth: 7 day moving average of daily maximums of 73.9°F in 1997.		303(d) List	Addition

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Little Indian Cr to Camp Creek	31D-INDI12.6	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near Forest Boundary): 7 day moving average of daily maximums of 61.9/64.2/58.0/60.0/60.1/60.0°F in 1991/92/93/94/96/97 exceed temperature standard (64) once in six years.	Did not meet listing criteria	OK	Status Modification
Camp Creek to headwaters	31D-INDI18	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data	USFS Data (Site near Forest Boundary): 7 day moving average of daily maximums of 61.9/64.2/58.0/60.0/60.1/60.0°F in 1991/92/93/94/96/97 exceed Bull trout temperature standard (50), however, site is 2.5 miles below ODFW identified bull trout area.		Potential Concern	Addition
Indiana Creek Mouth to Headwaters	31D-INDA0	Habitat Modification			NPS Assessment - segment 467: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 467: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat; NPS Assessment - segment 467: moderate, observation (DEQ, 1988)	USFS Data (2 Sites): At mouth, 7 day moving average of daily maximum of 75.5°F in 1994; at Road 51 58.0/53.4/51.6/55.5°F in 1992/93/95/97 exceeded Bull Trout temperature standard (50) respectively.		303(d) List	
Jarboe Creek Mouth to FSR 6413	31D-JARB0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (4 Sites): 7 day moving average of daily maximums at FSR 62 for 1992/93/94/95/96 was 75.0/67.5/74.0/66.0/67.0°F. Exceeded temperature standard below FSR 6413.		303(d) List	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
FSR 6413 to Headwaters	31D-JARB6	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (4 Sites): 7 day moving average of daily maximums; at 6413 Rd for 1993/94/95/96 was 54.0/60.0/57.0/54.0°F; Below East Fork for 1992/93/94/95/96 was 68.1/60.2/64.9/59.0/59.0°F; and Above East Fork 68.0/59.6/65.9/58.0/58.0°F.. Did not exceed temperature standard above FSR 6413 except in drought years.	Did not meet listing criteria	OK	Removed (5)
Jordan Creek									
Mouth to National Forest Boundary	31D-JORD0	Habitat Modification			Upper/Middle GR River Basin Assessment (DEQ, 1995); Clearwater (1993)	Summer Steelhead are a stock of concern. Large woody debris (LWD) has been identified as below desired feature conditions (DFC) (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Sedimentation			Upper/Middle GR River Basin Assessment (DEQ, 1995)	Summer Steelhead are a stock of concern. Cobble embeddedness has been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near mouth): 7 day moving average of daily maximums of 80.4 exceeded temperature standard (64) in 1992. For 1995 was 59.5 °F. 1992 was a drought year, 1995 meet water temperature criteria stream removed from list.	Did not meet listing criteria	OK	Removed (5)
LaGrande Municipal Reservoir									
Reservoir	31D.LAGR	Aquatic Weeds or Algae	Aquatic Growth		NPS Assessment - segment 549: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 549: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub		<i>Upper Grande Ronde</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lick Creek Mouth to Headwaters	31D-LICK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near FSR 2038): 7 day moving average of daily maximums of 68.9 and 64.7 exceeded temperature standard (64) in 1992 and 1993 respectively. At mouth in 1992 was 66.4°F		303(d) List	
Limber Jim Creek Mouth to North Fork	31D-LIMB0	Habitat Modification			Upper/Middle GR River Basin Assessment (DEQ, 1995)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. High width:depth ratio, low pool frequency, and large woody debris have been identified as below desired feature conditions (Up/Mid GR River Basin Assessment, Bach, 1995).		303(d) List	
		pH		Summer	DEQ Data	DEQ Data (Site 404917; RM 1.2): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 9.0) between 93 - 95.	Did not meet listing criteria	OK	
		Sedimentation			Upper/Middle GR River Basin Assessment (DEQ, 1995)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Fine sediment have been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
Mouth to Marion Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data); NPS Assessment - segment 470: moderate, observation (DEQ, 1988); DEQ data	USFS Data (2 Sites: Below South Fork; Above South Fork; and DEQ site Lower stream: 7 day moving average of daily maximums of 71.5/66.9 in 1992/93; 70.7/62.2/63.2 in 1992/93/95; and 60.7°F in 1995 60% of measurements exceeded temperature standard (64).		303(d) List	
Marion Creek to headwaters	31D-LIMB5	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	(USFS Data); NPS Assessment - segment 470: moderate, observation (DEQ, 1988); ODFW Bull Trout Habitat (above Marion Creek)	USFS Data (2 Sites): At FSR 100 and at RM 5.2: 7 day moving average of daily maximums of 64.1/55.2 in 1992/93; and 56.7°F in 1993 measurements exceeded temperature standard (50°F) . USFS site at Marion Creek was 58.6/56.7°F in 1994/96		303(d) List	Addition

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Basin <i>Grande Ronde</i>		Sub		<i>Upper Grande Ronde</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Limber Jim Creek, South Fork									
Mouth to Headwaters	31D-LISF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near mouth): 7 day moving average of daily maximums of 70.3 exceeded temperature standard (64) in 1992.		303(d) List	
Little Catherine Creek									
Mouth to Headwaters	31D-CATL0	Dissolved Oxygen (DO)			NPS Assessment - segment 285: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 285: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 285: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 285: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Surface fines have been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site at mouth, 7 day ave. max. water temperature of 63.1 °F in 1994 did not exceed temperature criteria.	Did not meet listing criteria	OK	Addition
Little Clear Creek									
Mouth to Headwaters	31D-CLLI0	Sedimentation			NPS Assessment - segment 553: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 553: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Little Fly Creek									
Mouth to Headwater	31D-FLLI0	Habitat Modification			Upper/Middle GR River Basin Assessment (DEQ, 1995)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Large woody debris (LWD) has been identified as below desired feature conditions (DFC) (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwater	31D-FLLI0	Sedimentation			Upper/Middle GR River Basin Assessment (DEQ, 1995)	Summer Steelhead are a stock of concern. Fine sediment have been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 466: moderate, observation (DEQ, 1988)	USFS Data (Site at National Forest Boundary): 7 day moving average of daily maximums of 73.0/64.6/65.2 °F exceeded temperature standard (64) in 1992/93/94 respectively.		303(d) List	
Little Lookingglass Creek Mouth to Headwaters	31D-LOLI0	Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 337: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. High width:depth ratio and lack of large woody debris have been identified as below desired feature conditions (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat; NPS Assessment - segment 337: moderate, observation (DEQ, 1988)	USFS Data (Site at Forest Service Boundary): 7 day moving average of daily maximums of 52.4/52.4/53.9/54.0/54.0°F exceeded Bull Trout temperature standard (50) in 1992/1993/1994/95/96 respectively.		303(d) List	
Little Rock Creek Mouth to Headwaters	31D-ROLI0	Flow Modification			NPS Assessment - segment 317: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 317: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 317: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lookingglass Creek Mouth to Headwaters	31D-LOOK0	Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 337: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. High width:depth ratio and lack of large woody debris have been identified as below desired feature conditions (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
					Sedimentation	NPS Assessment - segment 337: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Excessive cobble embeddedness have been identified as below desired feature conditions (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List
Mouth to Luger Springs RM 7		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat; NPS Assessment - segment 337: moderate, observation (DEQ, 1988)	USFS Data (5 Sites): 7 day moving average of daily maximums above Eagle Creek for 1992/93/94/95/96 were 53.8/51/52/53/52; at Forest Service Boundary for 1992/93/94/95/96 was 55.4/54.4/56.3/56/56°F Exceeded Bull Trout temperature standard (50) below Luger Springs to mouth.		303(d) List	Segment Modification
Spout Springs to Langdon Lake	31D-LOOK13	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data - Bull Trout Habitat; NPS Assessment - segment 337: moderate, observation (DEQ, 1988)	USFS Data (5 Sites): 7 day moving average of daily maximums Spout Springs for 1993/94 was 57/62°F. Site above Spout Springs is not identified as Bull Trout spawning/rearing by ODF&W meets 64°F temperature standard.		OK	Removed (5)
Luger Springs to above Spout Springs area	RM 13 31D-LOOK7	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat; NPS Assessment - segment 337: moderate, observation (DEQ, 1988)	USFS Data (5 Sites): 7 day moving average of daily maximums below Summer Cr. for 1993/94/95/96 was 48/47/49/47°F; at Spout Springs in 1993/94 was 46/46°F. Two other sites in the Springs area show that the Bull Trout temperature standard (50) is not exceeded.	Did not meet listing criteria	OK	Removed (5)
Lookout Creek Mouth to Headwaters	31D-LOKO0	pH		Summer	DEQ Data	DEQ Data (Site 404915: RM 3.0): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 9.0) between 94 - 95.	Did not meet listing criteria	OK	

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Basin <i>Grande Ronde</i>		Sub		<i>Upper Grande Ronde</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Forest Boundary at Section 35	31D-LOKO0	Sedimentation			Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 554: moderate, observation (DEQ, 1988)	Summer Steelhead are a stock of concern. Cobble embeddedness has been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List		
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data; NPS Assessment - segment 554: moderate, observation (DEQ, 1988)	DEQ Data (2 Sites: RM 2.1; and 2.6): 7 day moving average of daily maximums of 67.0 in 1993 and 59.9/67.4/62.5°F in 1992/93/95 50% of measurements exceeded temperature standard (64).		303(d) List		
Forest Boundary at Section 35 to Headwaters	31D-LOKO3	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 554: moderate, observation (DEQ, 1988)	USFS Data (Site at FSR 5160): 7 day moving average of daily maximums of 62.8/62.7/62.3°F did not exceed temperature standard (64) in 1992/93/95 respectively and near culvert 60.2/54.8/59.7°F in 1992/93/94 .	Did not meet listing criteria	OK		
Marley Creek Mouth to Headwaters	31D-MARLO	Sedimentation			NPS Assessment - segment 474: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
McCoy Creek Mouth to Headwaters	31D-MCCO0	Dissolved Oxygen (DO)			NPS Assessment - segment 459: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Flow Modification			NPS Assessment - segment 459: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification				GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 459 and 460: moderate, observation (DEQ, 1988)	Summer Steelhead are a stock of concern. High width:depth ratio, low pool frequency, and large woody debris have been identified as below desired feature conditions (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		pH		Summer	DEQ Data	DEQ Data (2 Sites: 404751 and 404753; RM 0.1 and 2.0): 0% (0 of 6, 6) Summer values exceeded pH standard (6.5 - 9.0) between 93 - 95.	Did not meet listing criteria	OK		

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	31D-MCCO0	Sedimentation			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 459 and 460: moderate, observation (DEQ, 1988)	Summer Steelhead are a stock of concern. Fine sediment have been identified as excessive (Upper/middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS & DEQ Data; NPS Assessment - segment 460: moderate, observation (DEQ, 1988)	ODFW Data (2 Sites: Lower; and Upper); and DEQ Data (2 Sites RM 2.0; and Off FSR 2123): 7 day moving average of daily maximums of 80.8/79.4/79.6 in 1992/93/95; 78.4/76.1 in 1992/93; 78.4/78.2 in 1993/95; and 67.6 in 1993 exceeded temperature standard (64) .		303(d) List	
McIntyre Creek									
Mouth to Headwaters	31D-MCIN0	Dissolved Oxygen (DO)			NPS Assessment - segment 459: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 459: moderate, observation (DEQ, 1988)	Summer Steelhead are a stock of concern. High width:depth ratio, low pool frequency, and large woody debris (LWD) have been identified as below desired feature conditions (DFC) (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Sedimentation			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 457 - 459: severe/moderate, observation (DEQ, 1988)	Summer Steelhead are a stock of concern. Fine sediment have been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature			NPS Assessment - segment 457: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Meadow Creek									
Mouth to Headwaters	31D-MEAD0	Flow Modification			NPS Assessment - segment 311 and 312: moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	31D-MEAD0	Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 311 and 312: moderate, observation/data (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Low pool frequency has been identified as below desired feature conditions (DFC) (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		pH		Summer	DEQ Data	DEQ Data (2 Sites: 404755 and 404756; RM 2.3 and 12.0): 0% (0 of 6) and 25% (2 of 8) Summer values respectively exceeded pH standard (6.5 - 9.0) between 93 - 96.		303(d) List	Addition
		Sedimentation			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 311 and 312: moderate, data (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Cobble embeddedness has been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS & DEQ Data; NPS Assessment - segment 311 and 312: moderate, data (DEQ, 1988)	USFS Data (3 Sites: At FSR 2100, Above FSR 2120 and old weather station): 7 day moving average of daily maximums of 79.2/72.8 and 76.9/71.9/76.0°F in 1992/1993/94 respectively and 79.2 in 1992 exceeded temperature standard (64); DEQ (3 sites below McCoy Creek 80.0/79.6 in 1993/95; at RM 12 74.4 in 1995 and above McCoy Creek 77.5°F in 1993.		303(d) List	
Meadow Moutain Creek									
Mouth to Headwaters	31D-MEAM0	Sedimentation			NPS Assessment - segment 477: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mill Creek (Catherine Creek Drainage)									
Mouth to Bridge Cr	31D-MILLO	Dissolved Oxygen (DO)			NPS Assessment - segment 318: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 318: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 318: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Bridge Cr	31D-MILL0	Temperature			NPS Assessment - segment 318: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Bridge Cr to Headwaters	31D-MILL7	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near Road 300): 7 day moving average of daily maximums of 50.5 did not exceed temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Mill Creek (La Grande)									
Mouth to La Grande City Limits	31D-MILG0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data	DEQ Data (3 sites:16th and H; 20th; Hwy 203): 7 day moving average of daily maximums of 64.0, 67.8, 65.4 with 7, 17, 11 days respectively exceeding temperature standard (64 degrees) in 1995.		303(d) List	
La Grande City Limits to Headwaters	31D-MILG3	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data	DEQ Data (Morgan Lake Rd): 7 day ave of daily max of 56.1/61.8/54.4°F did not exceed standard in 1994/95/97	Did not meet listing criteria	OK	
Morgan Reservoir									
Reservoir	31D.MORG	Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 549: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 549: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mottet Creek									
Mouth to Headwaters	31D-MOTT0	Flow Modification			NPS Assessment - segment 337: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 337: moderate, observation (DEQ, 1988)	Summer Steelhead are a stock of concern. Cobble embeddedness has been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	31D-MOTT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 337: moderate, observation (DEQ, 1988)	USFS Data (Site at FSR 63): 7 day moving average of daily maximums were 60.3 (not exceeding) and 72.0 exceeding temperature standard (64) in 1993 and 1994 respectively. 1994 data was not used because it was a drought year and a second year's data was available.	Did not meet listing criteria	Potential Concern	
Mt Emily Creek Mouth to Headwaters	31D-MTEM0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 59.9/57.6/55.2°F in 1992/96/97 did not exceed temperature standard (64).	Did not meet listing criteria	OK	
Pedro Creek Mouth to Headwaters	31D-PEDR0	Temperature	Rearing 64 F (17.8 C)	Summer	ODF Data	ODF Data (Site at mouth): 7 day moving average of daily maximums were 55.4°F in 1993 did not exceed temperature standard (64).	Did not meet listing criteria	OK	Addition
Pelican Creek Mouth to Headwaters	31D-PEL10	Habitat Modification			NPS Assessment - segment 472: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 472: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 472: moderate, observation (DEQ, 1988)	USFS Data (Site near mouth): 7 day moving average of daily maximums of 77.0/81.4°F exceeded temperature standard (64) in 1993/94.		303(d) List	
Phillips Creek Mouth to E Fk Phillips Cr	31D-PHIL0	Flow Modification			NPS Assessment - segment 290 and 291: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 290: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 290 and 291: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub			<i>Upper Grande Ronde</i>				
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to E Fk Phillips Cr	31D-PHIL0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 290 and 291: severe/moderate, observation (DEQ, 1988);		No supporting data or information	Need Data	
E Fk Phillips Cr to Headwaters	31D-PHIL11	Temperature	Rearing 64 F (17.8 C)	Summer	ODF Data	ODF Data (4 Sites): 7 day moving average of daily maximums of 52.2 - 58.9 did not exceed temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Phillips Creek, East Fork									
Mouth to Headwaters	31D-PHEF0	Temperature	Rearing 64 F (17.8 C)	Summer	ODF Data	ODF Data (Site above Pedro Creek): 7 day moving average of daily maximums of 57.1 did not exceed temperature standard (64) in 1993; data available for 2 other sites.	Did not meet listing criteria	OK	
Prong Creek									
Mouth to Headwaters	31D-PRON0	Sedimentation			NPS Assessment - segment 542: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rock Creek									
Mouth to Headwaters	31D-ROCK0	Flow Modification			NPS Assessment - segment 317: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 465: moderate, observation (DEQ, 1988)	Summer Steelhead are a stock of concern. High width:depth ratio and lack of large woody debris have been identified as below desired feature conditions (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Sedimentation			NPS Assessment - segment 317 and 465: moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 317 and 465: moderate, data/observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day moving average of daily maximums of 83.2 exceeded temperature standard (64) in 1992.		303(d) List	
Sheep Creek									
Mouth to Warm Mineral Springs	31D-SHEE0	Flow Modification			NPS Assessment - segment 315: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Warm Mineral Springs	31D-SHEE0	Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 315: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. High width:depth ratio and low pool frequency have been identified as below desired feature conditions (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Sedimentation			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 315: moderate, data (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Cobble embeddedness has been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS, DEQ, ODFW Data; NPS Assessment - segment 315: moderate, data (DEQ, 1988)	USFS Data (Site near National Forest Boundary); DEQ Data (RM 7.2); and ODFW Data (Lower Site): 7 day moving average of daily maximums of 76.6/nd; nd/65.6; and 78.7/76.5 exceeded temperature standard (64) in 1992/1993 respectively.		303(d) List	
Warm Mineral Springs to Headwaters	31D-SHEE7.5	Flow Modification			NPS Assessment - segment 315: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 315: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. High width:depth ratio and low pool frequency have been identified as below desired feature conditions (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Sedimentation			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 315: moderate, data (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Cobble embeddedness has been identified as excessive (Upper/Middle GR River Basin Assessment, Bach, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS, DEQ, ODFW Data; NPS Assessment - segment 315: moderate, data (DEQ, 1988)	USFS Data (Site above East Fork); and DEQ Data (RM 8.2; 9.0; and Below East Fork): 7 day moving average of daily maximums of 58.1; 63.7; 62.3; and 58.1 respectively did not exceed temperature standard (64) in 1993.	Did not meet listing criteria	OK	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Sheep Creek, East Fork Mouth to headwaters	31D-SHEF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 63.7/67.6 in 1994/97 did not/did exceeded temperature standard (64).		303(d) List	Addition
South Catherine Ditch Mouth to Headwaters	31D-CASD0	Sedimentation			NPS Assessment - segment 546: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Spring Creek Mouth to South Fork	31D-SPRI0	Flow Modification			NPS Assessment - segment 456: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 456: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			DEQ Data		No nutrient criteria or standard established	Need Data	
		Sedimentation			NPS Assessment - segment 456: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 456: moderate, observation (DEQ, 1988)	USFS Data (Site near mouth): 7 day moving average of daily maximums of 74.0/69.7/72.1/70.2°F in 1992/93/94/95 exceeded temperature standard (64) .		303(d) List	
Spring Creek, South Fork Mouth to Headwaters	31D-SPSF0	Flow Modification			NPS Assessment - segment 558: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 558: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 558: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 558: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
State Ditch Mouth to Headwaters	31D-STAT0	Aquatic Weeds or Algae	Periphyton	Summer	DEQ Data - TMDL Study (1992 - 1994); NPS Assessment - segment 623: moderate, data (DEQ, 1988)	DEQ Data - TMDL Study (92, 93)		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404294; RM 3.2): 0% (0 of 5) Summer values exceeded chlorophyll a standard (15 ug/l) between 91 - 92.	Did not meet listing criteria	OK	
		Flow Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); IWR; NPS Assessment - segment 623: moderate, data (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Migration and holding of salmon is not possible after July due to low flow (Carmichael, 1993).		303(d) List	
		Habitat Modification			GR Action Plan (1994); Upper/Middle GR River Basin Assessment (DEQ, 1995); NPS Assessment - segment 623: moderate, observation (DEQ, 1988)	Snake R Chinook are listed under ESA, Summer Steelhead are a stock of concern. Lack of complex habitat, pool frequency, and large woody debris have been identified as limiting (Huntington, 1993).		303(d) List	
		Nutrients	Phosphorus	Summer	DEQ Data; NPS Assessment - segment 623: moderate, data (DEQ, 1988)	DEQ Data - TMDL Study (92, 93)		303(d) List	
		pH		Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 404293 and 404294; RM 1.0 and 3.2): 67% (4 of 6) and 50% (3 of 6) Summer values respectively exceeded pH maximum standard (6.5 - 9.0) with maximum values of 9.6 and 9.4 between 91 - 92.		303(d) List	
		Sedimentation			NPS Assessment - segment 623: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data; NPS Assessment - segment 623: moderate, observation (DEQ, 1988)	DEQ Data - TMDL Study (92, 93)		303(d) List	
		Toxics	Pesticides		NPS Assessment - segment 623: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub <i>Upper Grande Ronde</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Trout Creek Ditch Mouth to Headwaters	31D-TROD0	Sedimentation			NPS Assessment - segment 545: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Tybow Creek Mouth to Headwaters	31D-TYBO0	Habitat Modification			NPS Assessment - segment 473: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 473: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Warm Springs Creek Mouth to Headwaters	31D-WARM0	Sedimentation			NPS Assessment - segment 550: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 550: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Waucup Creek Mouth to Headwaters	31D-WAUC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 21): 7 day moving average of daily maximums of 75.2/71.9/73.6 exceeded temperature standard (64) in 1992/1993/1994 respectively.		303(d) List	
Whiskey Creek Mouth to Headwaters	31D-WHIS0	Aquatic Weeds or Algae	Aquatic Growth		NPS Assessment - segment 288: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 288: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 288: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 288: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Grande Ronde</i>		Sub		<i>Upper Grande Ronde</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Mouth to Headwaters	31D-WHIS0	Sedimentation			NPS Assessment - segment 288: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 288: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Whitman Trail Mouth to Headwaters	31D-WHIT0	Sedimentation			NPS Assessment - segment 561: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Winter Canyon Mouth to Headwaters	31D-WINT0	Sedimentation			NPS Assessment - segment 551: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 551: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>Grande Ronde</i>	Sub	<i>Wallowa</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bear Creek Mouth to National Forest Boundary	31E-BEAR0	Flow Modification			Wallowa County Salmon Recovery Plan (1993); IWR (ODFW); WRD and USGS; NPS Assessment - segment 300: moderate, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (24 in 1964; 55/72; 0/91); flows below diversion are low to non-existent and have been identified as high priority (Wallowa Co Salmon Recovery Plan, 1993).		303(d) List	
		Habitat Modification			Wallowa County Salmon Recovery Plan (1993); NPS Assessment - segment 300: moderate, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (24 in 1964; 55/72; 0/91); pool/riffle ratio and loss of woody material have been identified as high priority (Wallowa County Salmon Recovery Plan, 1993).		303(d) List	
		Sedimentation			Wallowa County Salmon Recovery Plan (1993); NPS Assessment - segment 300: moderate, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds in Bear Creek have declined (24 in 1964; 55/72; 0/91); excess fine sediment have been identified as high priority (Wallowa County Salmon Recovery Plan, 1993).		303(d) List	
Mouth to Little Bear Creek		Temperature			NPS Assessment - segment 300: moderate, observation (DEQ, 1988), Basin Action Plan		No supporting data or information	Need Data	
Little Bear Creek to	31E-BEAR8	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	NPS Assessment - segment 300: moderate, observation (DEQ, 1988), Basin Action Plan, USFS Data	USFS station at FS Boundary above Little Bear Creek: 7-day moving average daily maximum water temperatures were 63.3°F for 1994; 54.5°F for 1996 and 55.2°F for 1997, all exceeded water temperature criteria of 50°F for Bull Trout.		303(d) List	Addition
Deer Cr (Big Canyon Cr) Mouth to Sage Creek	31E-BIGC0	Flow Modification			NPS Assessment - segment 332 and 333: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 333: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Grande Ronde</i>	Sub	<i>Wallowa</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Sage Creek	31E-DEER0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat; NPS Assessment - segment 332 and 333: moderate, observation (DEQ, 1988)	USFS Data (Site in Section 10 and Above Sage Creek): 7 day moving average of daily maximums of 54.7 and 63.4 respectively exceeded Bull Trout temperature standard (50) in 1993.		303(d) List	
Hurricane Creek Mouth to Consolidated/Moonshine Ditches Diversion	31E-HURR0	Bacteria			Wallowa County Salmon Recovery Plan (1993); GR Action Plan (1994)		No supporting data or information	Need Data	
		Flow Modification			Wallowa County Salmon Recovery Plan (1993); IWR (ODFW); USGS and WRD; NPS Assessment - segment 321: severe, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (28 in 1964; 1/92); flows have been identified as high priority as much of this reach is dry during irrigation season (Wallowa Co Salmon Recovery Plan, 93).		303(d) List	
		Habitat Modification			Wallowa County Salmon Recovery Plan (1993); NPS Assessment - segment 321: moderate, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (28 in 1964; 1/92); lack of large woody material to provide stream structure has been identified as a high priority (Wallowa Co Salmon Recovery Plan, 1993).		303(d) List	
		Nutrients			Grande Ronde Action Plan (1994)		No supporting data or information	Need Data	
		Sedimentation			Wallowa County Salmon Recovery Plan (1993)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (28 in 64, 1 in 92); excess fine sediment have been identified as high priority (Wallowa County Salmon Recovery Plan, 1993).		303(d) List	
		Temperature			Grande Ronde Action Plan (1994)		No supporting data or information	Need Data	
Little Bear Creek Mouth to Headwaters	31E-BELI0	Habitat Modification			NPS Assessment - segment 331: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 331: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>Grande Ronde</i>	Sub	<i>Wallowa</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	31E-BELI0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat; NPS Assessment - segment 331: moderate, observation (DEQ, 1988)	USFS Data (Site at culvert): 7 day moving average of daily maximums of 59.0 exceeded Bull Trout temperature standard (50) in 1993.		303(d) List	
Lostine River									
Mouth to Westside Ditch	31E-LOST0	Flow Modification			Wallowa County Salmon Recovery Plan (1993); IWR (ODFW); USGS and WRD; NPS Assessment - segment 299: severe, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (114 in 1964; 14/1991); irrigation withdrawals have been identified as high priority as some portions are dry at times (Wallowa Co Salmon Recovery Plan, 93).		303(d) List	
		Habitat Modification			Wallowa County Salmon Recovery Plan (1993); NPS Assessment - segment 299: moderate, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (114 in 1964; 14/91); lack of woody material for stream structure and habitat has been identified as high priority (Wallowa Co Salmon Recovery Plan, 1993).		303(d) List	
		Nutrients			NPS Assessment - segment 299: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Wallowa County Salmon Recovery Plan (1993); NPS Assessment - segment 299: moderate, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (114 in 1964; 14/91); excess fine sediment has been identified as high priority (Wallowa County Salmon Recovery Plan, 1993).		303(d) List	
		Temperature			GR Action Plan (1994); Wallowa County Salmon Recovery Plan (1993)		No supporting data or information	Need Data	
Minam River									
Mouth to Trout Creek	31E-MINA0	Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404136; RM 1.0): 0% (0 of 5) Summer values exceeded chlorophyll a standard (15 ug/l) between 91 - 95.	Did not meet listing criteria	OK	
		Habitat Modification			NPS Assessment - segment 334: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>Grande Ronde</i>	Sub	<i>Wallowa</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Trout Creek	31E-MINA0	pH			d1 in 305(b) Report (DEQ, 1994)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (Site 404136; RM 0.1): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 9.0) between 91 - 95.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404136; RM 0.1): 0% (0 of 6) FWS values exceeded pH standard (6.5 - 9.0) between 94 - 95.	Did not meet listing criteria	OK	
		Sedimentation			Wallowa County Salmon Recovery Plan (1993); GR Action Plan (1994); NPS Assessment - segment 334: moderate, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (176 in 1964; 19/92); excess fine sediment have been identified as high priority - most of drainage is now wilderness (Wallowa Co Salmon Recovery Plan, 93).		303(d) List	
Trout Creek to Headwaters	31E-MINA10.3	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data; NPS Assessment - segment 334: moderate, observation (DEQ, 1988)	DEQ Data (Site 404136, Minam): 7 day average of daily maximums of 69.9 with 22 days exceeding temperature standard (64) in 1995.		303(d) List	
		Habitat Modification			NPS Assessment - segment 334: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Wallowa County Salmon Recovery Plan (1993); GR Action Plan (1994); NPS Assessment - segment 334: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Prairie Creek Mouth to West Fork	31E-PRAI0	Temperature			NPS Assessment - segment 334: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 404268 and, 404267; RM 2.9 and 3.1): 50% (6 of 12) and 54% (7 of 13) FWS values exceed fecal coliform standard (400) with maximum values of 1100 and 1100 respectively in 1989.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Grande Ronde</i>	Sub	<i>Wallowa</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to West Fork	31E-PRAI0	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	March 1 - July 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 404268, 404267; RM 2.9, 3.1): 50% (5 of 10), 40% (4 of 10) March - July values exceeded Dissolved Oxygen standard (11 mg/l or 95% saturation) with a minimum of 8.9 mg/l (89%) in 1989 (cold water fishery, spawning appx March - July).		303(d) List		
					Wallowa County Salmon Recovery Plan (1993)			Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Lack of large woody debris to provide diversity of habitat (pools and riffles) has been identified as a high priority (Wallowa County Salmon Recovery Plan, 1993).		303(d) List
				Nutrients			NPS Assessment - segment 298: severe, observation (DEQ, 1988)		No supporting data or information	Need Data
				pH		Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 404268 and 404267; RM 2.9 and 3.1): 0% (0 of 12) and 0% (0 of 13) FWS values respectively exceeded pH standard (6.5 - 9.0) in 1989.	Did not meet listing criteria	OK
				Sedimentation			Wallowa County Salmon Recovery Plan (1993); NPS Assessment - segment 298: moderate, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Excess fine sediment and cobble embeddedness have been identified as high priority (Wallowa County Salmon Recovery Plan, 1993).		303(d) List
				Temperature			Wallowa County Salmon Recovery Plan (1993); GR Action Plan (1994)		No supporting data or information	Need Data
Sage Creek										
Mouth to Headwaters	31E-SAGE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 52.3 did not exceed temperature standard (64) in 1993.	Did not meet listing criteria	OK		

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Basin <i>Grande Ronde</i>		Sub <i>Wallowa</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Spring Creek									
Mouth to Alder Slope Ditch	31E-SPRI0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (5 Sites: 404264, 404263, 404262, 404261, 404260; RM 0.3 - 3.0): 18% (2 of 11), 15% (2 of 13), 21% (3 of 14), 23% (3 of 13), 8% (1 of 13) FWS values exceeded fecal coliform standard (400) with maximum values of 1100 in 1989.		303(d) List	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	March 1 - July 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (4 Sites: 404264, 404263, 404262, 404261; RM 0.3 - 2.0): 67%(5/8), 60%(6/10), 27%(3/27), 40%(4/10) March-July values exceeded DO standard (11 mg/l or 95% saturation) with a minimum of 8.8 mg/l (79%) in 1989 (cold water spawning, appx March-July).		303(d) List	
		pH		Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (5 Sites: 404264, 404263, 404262, 404261, 404260; RM 0.3 - 3.0): 0% (0 of 11, 13, 14, 13, 13) FWS values respectively exceeded pH standard (6.5 - 9.0) in 1989.	Did not meet listing criteria	OK	
Trout Creek									
Mouth to Headwaters	31E-TROU0	Flow Modification			NPS Assessment - segment 320: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 320: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wallowa River									
Mouth to Wallowa Lake	31E-WALL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 295 - 297: severe, data (DEQ, 1988)	DEQ Data (3 Sites: 402080, 404266, 404265; RM 1.0 - 40.5): 14% (4 of 28), 17% (2 of 12), 17% (2 of 12) FWS values respectively exceeded fecal coliform standard (400) with maximum values of 1100 between WY 86 - 95.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402080; RM 1.0): 15% (3 of 20) Summer values exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 86 - 96.		303(d) List	Addition

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Basin <i>Grande Ronde</i>	Sub	<i>Wallowa</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Wallowa Lake	31E-WALL0	Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402080; RM 1.0): 4% (1 of 23) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 16 between 86 - 95.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.		DEQ Data	DEQ Data (Site 402080; RM 1.0): 0% (0 of 30) August - February values exceeded rearing Dissolved Oxygen standard (8 mg/l or 90% saturation) between WY 86-95 (cold water fishery, rearing approximately August - February).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	March 1 - July 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402080; RM 1.0): 4% (1 of 25) March - July values exceed Dissolved Oxygen standard (11 mg/l or 95% saturation) with a minimum of 10.5 mg/l (91%) between WY 86-95 (cold water fishery, spawning approximately March - July).	Did not meet listing criteria	OK	
		Flow Modification			Wallowa County Salmon Recovery Plan (1993); GR Action Plan (1994); IWR; NPS Assessment - segment 295, 297: moderate, observation (DEQ, 1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (35 in 1964; 0/92); flows have been identified as high priority as portion above Spring Cr is often dry during irrigation season (Wallowa Co Salmon Plan, 93).			303(d) List
		Habitat Modification			Wallowa County Salmon Recovery Plan (1993); GR Action Plan (1994)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (35 in 1964, 0/92); Lack of LWD and pool/riffle ratio for salmon habitat have been identified as a high priority (Wallowa Co Salmon Recovery Plan, 1993).			303(d) List
		Nutrients			NPS Assessment - segment 295, 297: moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 295 - 297: moderate, data (DEQ, 1988)	DEQ Data (Site 402080; RM 1.0): 17% (4 of 24) Summer values exceeded pH maximum standard (6.5 - 9.0) with a maximum value of 9.3 between WY 86 - 95.			303(d) List

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Basin	<i>Grande Ronde</i>	Sub	<i>Wallowa</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Wallowa Lake	31E-WALL0	pH		Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 295 - 297: moderate, data (DEQ, 1988)	DEQ Data (3 Sites: 402080, 404266, 404265; RM 1.0 - 40.5): 0% (0 of 29, 13, 12) FWS values respectively exceeded pH standard (6.5 - 9.0) between WY 86 - 95.	Did not meet listing criteria	OK	
		Sedimentation			Wallowa County Salmon Recovery Plan (1993); NPS (1988)	Snake R Chinook runs are 10-15% of historic numbers and are listed under ESA. Redds have declined (35 in 1964; 0/92); excess fine sediment have been identified as high priority (Wallowa County Salmon Recovery Plan, 1993).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS and DEQ Data; NPS Assessment - segment 295 - 297: moderate, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day moving average of daily maximums of 71.3 exceeded temperature standard (64) in 1993.		303(d) List	
Whiskey Creek									
Mouth to Headwaters	31E-WHIS0	Flow Modification			NPS Assessment - segment 301: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 301: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 301: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 301: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Whiskey Creek, Middle Fork									
Mouth to Headwaters	31E-WHMF0	Flow Modification			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	

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Basin Hood	Sub	Middle Columbia / Hood							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bear Creek Mouth to Headwaters	24A-BEAR0	Habitat Modification			NPS Assessment - segment 8: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 8: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 8: moderate, data (DEQ, 1988)	USFS Data (Site 25B800 above confluence with Middle Fork Hood R): 7 day average of daily maximums of 52.1/51.1°F with 0 days exceeding temperature standard (64) in 1994/95.	Did not meet listing criteria	OK	
Cedar Creek Mouth to Headwaters	24A-CEDA0	Flow Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Habitat Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
Clear Branch Hood River Mouth to Laurence Lake	24A-HOCB0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data; Bull Trout Habitat	USFS Data (2 Sites: 25C800 above Lake Br 2840-640 and 25C900 below dam at USGS Gage Station): 7 day average of daily maximums of 52.1/51.1°F and 57.1/57.2°F respectively exceeded bull trout temperature standard (50) in 1994/95.		303(d) List	
Davis Creek Mouth to Headwaters	24A-DAVIO	Flow Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Sedimentation			Fifteenmile Creek Salmon & Steelhead Plan (1990); NPS Assessment - segment 609: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 609: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin Hood		Sub	Middle Columbia/Hood						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Dog Creek Mouth to Headwaters	24A-DOG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 13E002 above confluence with East Fork Hood R): 7 day average of daily maximums of 56.1/51.6°F with 0 days exceeding temperature standard (64) in 1994/95.	Did not meet listing criteria	OK	
Dry Creek Mouth to Headwaters	24A-DRY0	Flow Modification Sedimentation			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
					Fifteenmile Creek Salmon & Steelhead Plan (1990); NPS Assessment - segment 611: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
					NPS Assessment - segment 611: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Eightmile Creek Mouth to Wolf Run Ditch	24A-EIGH0	Bacteria			NPS Assessment - segments 17 & 18: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
					Miles Creek Watershed Analysis (USFS, 1994); Fifteenmile Creek Salmon Plan (1990); WRD Data; FW95; NPS Assessment - segments 17 & 18: severe/moderate, observation (DEQ, 1988)		Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Populations are est at 200-300 fish (compared to a recommended minimum of 400-1000). Flows do not meet IWR at FS boundary (USFS, 1994).	303(d) List	
					Miles Creek Watershed Analysis (USFS, 1994); Fifteenmile Creek Salmon Plan (1990); NPS Assessment - segments 17 & 18: severe/moderate, observation (DEQ, 1988)		Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Pop. are est at 200-300 fish (compared to recommended min of 400-1000). Sites below desired conditions for LWD and channel morphology (USFS, 94).	303(d) List	
					NPS Assessment - segment 18: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin Hood	Sub	Middle Columbia / Hood							
Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Wolf Run Ditch	24A-EIGH0	Sedimentation			Miles Creek Watershed Analysis (USFS, 1994); Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segments 17 & 18: severe/moderate, observation (DEQ, 1988)	Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Pop. are est at 200-300 fish (compared to recommended min of 400-1000). Sites did not meet desired condit (>20% surface fines, <6 mm) (USFS, 94).		303(d) List	
Mouth to USFS Boundary		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW; Watershed Analysis (USFS, 1994); NPS Assessment - segments 17 & 18: severe/moderate, data (DEQ, 1988)	ODFW Data (Site at Endersby): 7 day average of daily maximums of 77.8/73.3/77 with 94/63/90 days exceeding temperature standard (64) in 1992/1993/1994 respectively.		303(d) List	Segment Modification
Mouth to Wolf Run Ditch		Toxics	Pesticides		NPS Assessment - segment 18: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
USFS Boundary to Headwaters	24A-EIGH23	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Watershed Analysis (USFS, 1994)	USFS Data (Site 15E500 at National Forest boundary): 7 day average of daily maximums of 61.5/59.2/60.4/57.7 did not exceed temperature standard (64) in 1990/1991/1992/1993 respectively. Temperatures for 1996 was 58.0 °F and for 1997 was 55.0 °F	Did not meet listing criteria	OK	Segment Modification
Wolf Run Ditch to Headwaters	24A-EIGH29.8	Habitat Modification			Miles Creek Watershed Analysis (USFS, 1994); Fifteenmile Creek Salmon Plan (1990)	Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Pop. are est at 200-300 fish (compared to recommended min of 400-1000). Sites below desired conditions for LWD and channel morphology (USFS, 94).		303(d) List	
		Sedimentation			Miles Creek Watershed Analysis (USFS, 1994)	Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Pop. are est at 200-300 fish (compared to recommended min of 400-1000). Sites did not meet desired condit (>20% surface fines, <6 mm) (USFS, 94).		303(d) List	
Fifteenmile Creek									
Mouth to Orchard Ridge Ditch	24A-FIFT0	Bacteria			NPS Assessment - segment 19 and 20: severe/moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Hood</i>	Sub	<i>Middle Columbia / Hood</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Orchard Ridge Ditch	24A-FIFT0	Flow Modification			Miles Creek Watershed Analysis (USFS, 1994); Fifteenmile Creek Salmon Plan (1990); WRD Data; FW95; NPS Assessment - segment 19 and 20: severe/moderate, observation (DEQ, 1988)	Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Pop. are est at 200-300 fish (compared to recommended min of 400-1000). Portions of Cr below FS boundary go dry due to withdrawals (USFS, 1994).		303(d) List		
		Habitat Modification			Miles Creek Watershed Analysis (USFS, 1994); Fifteenmile Creek Salmon Plan (1990); WRD Data; FW95; NPS Assessment - segment 19 and 20: severe/moderate, data/observation (DEQ, 1988)	Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Pop. are est at 200-300 fish (compared to recommended min of 400-1000). Sites below desired conditions for LWD and channel morphology (USFS, 94).		303(d) List		
		Nutrients			NPS Assessment - segment 19 and 20: severe/moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data		
		Sedimentation			Miles Creek Watershed Analysis (USFS, 1994); Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 19 and 20: severe/moderate, data/observation (DEQ, 1988)		Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Pop. are est at 200-300 fish (compared to recommended min of 400-1000). Sites did not meet desired condit (>20% surface fines, <6 mm) (USFS, 94).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW; Watershed Analysis (USFS, 1994); NPS Assessment - segment 19 and 20: severe/moderate, data/observation (DEQ, 1988)		ODFW Data (2 Sites: At Petersburg and 1/4 mile upstream of Dufur): 7 day average of daily maximums of 76.1/76.4/nd and 76.6/72/78.4 with 97/101/nd and 47/69/85 days exceeding temperature standard (64) in 1992/1993/1994 respectively.		303(d) List	
		Toxics	Pesticides		NPS Assessment - segment 19 and 20: severe/moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data		
Orchard Ridge Ditch to Headwaters	24A-FIFT43.6	Flow Modification			Miles Creek Watershed Analysis (USFS, 1994); Fifteenmile Creek Salmon Plan (1990)	Miles Creek Watershed Analysis - diversions occur at Orchard Ridge Ditch, sufficient flow above diversion (USFS, 1994).	Did not meet listing criteria	OK		

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Basin Hood	Sub	Middle Columbia / Hood							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Orchard Ridge Ditch to Headwaters	24A-FIFT43.6	Habitat Modification			Miles Creek Watershed Analysis (USFS, 1994); Fifteenmile Creek Salmon Plan (1990)	Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Populations are est at 200-300 fish (compared to recommended min of 400-1000). Sites below desired conditions for channel morphology		303(d) List	
		Sedimentation			Miles Creek Watershed Analysis (USFS, 1994); Salmon & Steelhead Plan (ODFW, 1990)	Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Pop. are est at 200-300 fish (compared to recommended min of 400-1000). Sites did not meet desired condit (>20% surface fines, <6 mm) (USFS, 94).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Watershed Analysis (USFS, 1994)	USFS Data (Site 15H500 at National Forest boundary): 7 day average of daily maximums were 64.2/59/65.5/60.6 as compared to temperature standard (64) in 1990/1991/1992/1993 respectively. It appears that the segment generally meets the standard with exception of 1992 (a drought year). The stream is placed on the potential concern list and additional data should be collected.		Potential Concern	Status Modification
Fivemile Creek Mouth to Forks	24A-FIVE0	Bacteria			NPS Assessment - segment 16: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			Miles Creek Watershed Analysis (USFS, 1994); Fifteenmile Creek Salmon Plan (1990); NPS Assessment - segment 16: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin Hood	Sub	Middle Columbia / Hood							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Forks	24A-FIVE0	Habitat Modification			Miles Creek Watershed Analysis (USFS, 1994); Fifteenmile Creek Salmon Plan (1990); NPS Assessment - segment 16: severe, observation (DEQ, 1988)	Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Populations are est at 200-300 fish (compared to recommended minimum of 400-1000). Sites below desired conditions for LWD (USFS, 1994).		303(d) List	
		Sedimentation			Miles Creek Watershed Analysis (USFS, 1994); NPS Assessment - segment 16: severe, observation (DEQ, 1988)	Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Pop. are est at 200-300 fish (compared to recommended min of 400-1000). Sites did not meet desired condit (>20% surface fines, <6 mm) (USFS, 94).		303(d) List	
		Temperature			USFS Data, Watershed Analysis (USFS, 1994); NPS Assessment - segment 16: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Forks to Headwaters	24A-FIVE14.4	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Watershed Analysis (USFS, 1994); NPS Assessment - segment 16: severe, data (DEQ, 1988)	USFS Data (Site 15A001 at National Forest boundary): 7 day average of daily maximums of 62.4/62.2/nd/58.6/<64/59,4°F did not exceed temperature standard (64) in 1990/1991/1992/1993/1994/1995 respectively.	Did not meet listing criteria	OK	
Fivemile Creek, Middle Fork									
Mouth to Headwaters	24A-FIMF0	Flow Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Habitat Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
Fivemile Creek, South Fork									
Mouth to Headwaters	24A-FISF0	Flow Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Habitat Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	

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Basin <i>Hood</i>	Sub	<i>Middle Columbia / Hood</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Hood River Mouth to Headwaters	24A-HOOD0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 1: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 404171; RM 0.5 and 404710; RM 0.9): 5% (2 of 37) and 0% (0 of 7) FWS values exceeded fecal coliform standard (400) with a maximum of 460 and 33 respectively between WY 86 - 95.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 1: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 404171; RM 0.5 and 404710; RM 0.9): 5% (1 of 19) and 0% (0 of 6) Summer values exceeded fecal coliform standard (400) with a maximum of 540 and 170 respectively between WY 86 - 95.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (2 Sites: 404171; RM 0.5 and 404710; RM 0.9): 0% (0 of 19) and 0% (0 of 6) Summer values respectively exceeded chlorophyll a standard (15 ug/l) between WY 86 - 95.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l		DEQ Data	DEQ Data (2 Sites: 404171; RM 0.5 and 404710; RM 0.9): 2%(1 of 46) and 0%(0 of 10) Sep - June values respectively exceeded dissolved oxygen spawning standard (11 mg/l or 95% saturation) between WY 86 - 95 (cold water spawning, approximately Sep - June).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	July 1 - August 31	DEQ Data	DEQ Data (2 Sites: 404171; RM 0.5 and 404710; RM 0.9): 0% (0 of 13) and (0 of 3) July - August values respectively exceeded dissolved oxygen rearing standard (8 mg/l or 90% saturation) between WY 86 - 95 (cold water rearing, approximately July - August).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 1: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites: 404171; RM 0.5 and 404710; RM 0.9): 3% (1 of 36) and 0% (0 of 7) FWS values exceeded pH standard (6.5 to 8.5) with a minimum of 6.4 and 6.9 respectively between WY 86 - 95.	Did not meet listing criteria	OK	

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Basin Hood	Sub	Middle Columbia/Hood							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Powerdale Powerhouse	24A-HOOD0	pH		Summer	DEQ Data	DEQ Data (2 Sites: 404171; RM 0.5 and 404710; RM 0.9): 0% (0 of 20) and 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) respectively between WY 86 - 95.	Did not meet listing criteria	OK	Segment Modification
Mouth to Headwaters		Sedimentation			NPS Assessment - segment 1: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Pesticides		NPS Assessment - segment 1: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Powerdale Powerhouse to Diversion Dam	24A-HOOD1.3	pH		Summer	PacifiCorp Data (12/96)	PacifiCorp Data - (Final Technical Report, Powerdale Hydroelectric Project, FERC Project 2659 - data summarized for site PDBDN - located above powerhouse): pH values exceeded pH standard (8.5 SU) on a diurnal basis from June 10 - 16 with a maximum of 9.0 as recorded in a June 7-16, 1996 diurnal study.		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	PacifiCorp Data (12/96)	PacifiCorp Data - (Final Technical Report, Powerdale Hydroelectric Project, FERC Project 2659 - data summarized for site PDBDN - located above powerhouse): 7 day rolling average of daily maximums of 66.4 with 23 7-day periods in 1995 and 67.3 with 28 7-day periods in 1996 exceeding temperature standard (64).		303(d) List	Addition
Powerdale Diversion Dam to Middle/East Fork	24A-HOOD4.5	pH		Summer	PacifiCorp Data (12/96)	PacifiCorp Data - (Final Technical Report, Powerdale Hydroelectric Project, FERC Project 2659 - data summarized for site PDBDN - located above powerhouse): pH values did not exceed pH standard (8.5 SU) as recorded in a June 7-16, 1996 diurnal study.	Did not meet listing criteria	OK	

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Basin Hood	Sub	Middle Columbia/Hood							
Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Powerdale Diversion Dam to Middle/East Fork	24A-HOOD4.5	Temperature	Rearing 64 F (17.8 C)	Summer	PacifiCorp Data (12/96)	PacifiCorp Data - (Final Technical Report, Powerdale Hydroelectric Project, FERC Project 2659 - data summarized for site HR@TB - located at Tucker Bridge, RM 6): 7 day rolling average of daily maximums of 62.8 with 0 7-day periods in 1996 did not exceed temperature standard (64).	Did not meet listing criteria	OK	Addition
Hood River, East Fork Mouth to Dog Creek	24A-HOEF0	Bacteria			NPS Assessment - segment 9: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			WRD Data; ODFW (1995)		No supporting data or information	Need Data	
		Habitat Modification			WRD Data; ODFW (1995); NPS Assessment - segment 9 and 11: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 9 and 11: severe/moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 13P900 at National Forest boundary): 7 day average of daily maximums of 62.1/58.3°F with 0 days above standard (64) in 1994/95.	Did not meet listing criteria	OK	
Dog Creek to Headwaters	24A-HOEF10	Habitat Modification			NPS Assessment - segment 11: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 11: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 13P900 at National Forest boundary): 7 day average of daily maximums of 61 with 0 days above standard (64) in 1994.	Did not meet listing criteria	OK	
Hood River, Middle Fork Mouth to Clear Branch	24A-HOMF0	Habitat Modification			NPS Assessment - segment 6: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Hood</i>	Sub	<i>Middle Columbia / Hood</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Clear Branch	24A-HOMF0	Sedimentation			NPS Assessment - segment 6: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data; Bull Trout Habitat	USFS Data (Site 25Z800 above FSR 18 Bridge): 7 day average of daily maximums of 67.4/65.8/56.8/55.2°F all exceeded Bull Trout temperature standard (50) in 1992/93/94/95.		303(d) List	
Hood River, West Fork Mouth to Laurel Creek	24A-HOWF0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 2: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 12Z800 below FSR 18 Bridge): 7 day average of daily maximums of 56.1/55.9°F did not exceed temperature standard (64) in 1994/95. At mouth in 1994 was 64.8°F.	Did not meet listing criteria	OK	
Indian Creek Mouth to Headwaters	24A-INDI0	Bacteria			NPS Assessment - segment 539: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 539: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	PacifiCorp Data (12/96)	PacifiCorp data at mouth: 7 day ave. max temperature was 63.1/64.2°F in 1995/96, did/did not exceed temperature standard (64).		303(d) List	Addition
Jameson Canyon Mouth to Headwaters	24A-JAME0	Flow Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Sedimentation			Fifteenmile Creek Salmon & Steelhead Plan (1990); NPS Assessment - segment 610: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 610: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Hood</i>	Sub	<i>Middle Columbia / Hood</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Ladd Creek Mouth to Headwaters	24A-LADD0	Habitat Modification			NPS Assessment - segment 5: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 5: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	7 day ave. max. water temperature was below standard for 1995 was 52.5°F	Did not meet listing criteria	OK	Addition
Lake Branch Hood River Mouth to Headwaters	24A-HOLA0	Flow Modification			NPS Assessment - segment 3: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 3: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 3: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to RM 10		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 3: severe, data (DEQ, 1988)	USFS Data (Site 12E800 at National Forest boundary): 7 day average of daily maximums of 56.8/60.4 in 1994/95 did not exceed temperature standard (64).	Did not meet listing criteria	OK	Status Modification
RM 10 to Lost Lake	24A-HOLA10	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 3: severe, data (DEQ, 1988)	USFS Data (Site below lake): 7 day average of daily maximums in 1994/95 was 63.4/67.8°F one year exceed temperature standard (64).		303(d) List	Addition
Larch Creek Mouth to Headwaters	24A-LARC0	Sedimentation			NPS Assessment - segment 613: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 613: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Mays Canyon Creek Mouth to Headwaters	24A-MAYS0	Flow Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	

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Basin <i>Hood</i>	Sub	<i>Middle Columbia / Hood</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	24A-MAYS0	Sedimentation			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Temperature			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
McGee Creek									
Mouth to Headwaters	24A-MCGE0	Habitat Modification			NPS Assessment - segment 4: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 4: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	7 day ave. max. water temperature was below standard for 1995 was 52.1°F	Did not meet listing criteria	OK	Addition
Mill Creek									
Mouth to Headwaters	24A-MILLO	Flow Modification			ODFW (1995); NPS Assessment - segment 15: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			ODFW (1995); NPS Assessment - segment 15: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 15: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 15: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mill Creek, South Fork									
Mouth to Headwaters	24A-MISF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 14B005 below Crow Creek Dam): 7 day average of daily maximums of less than 64 with 0 days above standard (64) in 1994. In 1995 was 57.6°F	Did not meet listing criteria	OK	
Mosier Creek									
Mouth to Headwaters	24A-MOSI0	Flow Modification			WRD Data; ODFW (1995); NPS Assessment - segment 14: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	24A-MOSI0	Habitat Modification			WRD Data; ODFW (1995); NPS Assessment - segment 14: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 14: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 14: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Neal Creek Mouth to East/West Fork Confluence	24A-NEAL0	Temperature	Rearing 64 F (17.8 C)	Summer	PacifiCorp Data (12/96)	PacifiCorp Data - (Final Technical Report, Powerdale Hydroelectric Project, FERC Project 2659 - data summarized for site NEALM - located near the mouth): 7 day rolling average of daily maximums of 68.0 with 33 7-day periods in 1996 exceeding temperature standard (64).		303(d) List	Addition
Neal Creek, West Fork Mouth to Headwaters	24A-NEWF0	Bacteria			NPS Assessment - segment 13: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 13: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 13: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 13: severe, data (DEQ, 1988)	USFS Data (Site 24B800 at National Forest boundary): 7 day average of daily maximums of 59.9/57.6°F with 0 days exceeding temperature standard (64) in 1994/95.	Did not meet listing criteria	OK	
Odell Creek Mouth to Headwaters	24A-ODEL0	Toxics	Pesticides		NPS Assessment - segment 617: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Phelps Creek Mouth to Headwaters	24A-PHEL0	Bacteria			NPS Assessment - segment 540: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Pine Creek Mouth to Headwaters	24A-PINE0	Flow Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Sedimentation			Fifteenmile Creek Salmon & Steelhead Plan (1990); NPS Assessment - segment 612: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 612: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Pollalie Creek Mouth to Headwaters	24A-POLL0	Habitat Modification			NPS Assessment - segment 10: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 10: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rail Hollow Mouth to Headwaters	24A-RAIL0	Sedimentation			NPS Assessment - segment 614: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 614: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Ramsey Creek Mouth to Headwaters	24A-RAMS0	Flow Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990); ODFW (1995)		No supporting data or information	Need Data	
		Habitat Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990); ODFW (1995)		No supporting data or information	Need Data	

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Basin Hood	Sub	Middle Columbia / Hood							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	24A-RAMS0	Sedimentation			Miles Creek Watershed Analysis (USFS, 1994)	Miles Cr WS has genetically unique stock of wild, winter steelhead that has been petitioned for listing under ESA. Pop. are est at 200-300 fish (compared to recommended min of 400-1000). Sites did not meet desired condit (<20% surface fines, <6 mm) (USFS, 94).		303(d) List	
Mouth to Old National Forest Boundary RM5		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data; USFS data	ODFW Data (Near Hwy 44 Bridge): 7 day average of daily maximums of 67.4/65.8/70 with 14/13/41 days above standard (64) in 1992/1993/1994 respectively. In 1997 was 53.5 °F. Site at New USFS boundary was 68.7 °F in 1997.		303(d) List	
Old National Forest Boundary RM 5 to Headwaters	24A-RAMS5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near old FS Boundary RM 5): 7 day ave of daily max of 58 and 56 met standard in 1993 and 1995 respectively.	Did not meet listing criteria	OK	
Robinhood Creek Mouth to Headwaters	24A-ROBI0	Habitat Modification			NPS Assessment - segment 12: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 12: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 12: moderate, data (DEQ, 1988)	USFS Data (Site 13P800 above confluence with East Fork Hood R): 7 day average of daily maximums of 62.9/57.2°F with 0 days exceeding temperature standard (64) in 1994/95.	Did not meet listing criteria	OK	
Shotgun Hollow Mouth to Headwaters	24A-SHOT0	Habitat Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
Standard Hollow Mouth to Headwaters	24A-STAN0	Flow Modification			Fifteenmile Creek Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Sedimentation			Fifteenmile Creek Salmon & Steelhead Plan (1990); NPS Assessment - segment 608: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Hood</i>		Sub	<i>Middle Columbia / Hood</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	24A-STAN0	Temperature			NPS Assessment - segment 608: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Threemile Creek Mouth to Headwaters	24A-THRE0	Flow Modification			NPS Assessment - segment 626: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 626: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 626: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Tony Creek Mouth to Headwaters	24A-TONY0	Habitat Modification			NPS Assessment - segment 626: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Whiskey Creek Mouth to Headwaters	24A-WHIS0	Temperature	Rearing 64 F (17.8 C)	Summer	PacifiCorp Data (12/96)	PacifiCorp Data - (Final Technical Report, Powerdale Hydroelectric Project, FERC Project 2659 - data summarized for site NEALM - located near the mouth): 7 day rolling average of daily maximums of 65.3 with 9 7-day periods in 1996 exceeding temperature standard (64).		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub		<i>Lower John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Alder Creek Mouth to Headwaters	26F-ALDE0	Flow Modification			NPS Assessment - segment 210: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 210: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 210: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 210: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Bear Creek Mouth to Pass Gulch	26F-BEAR0	Flow Modification			S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 230: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 230: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 230: moderate, observation (DEQ, 1988)	USFS Data (Site at Forest Boundary): 7 day average of daily maximums of >64 with max of 77/78/59/79 exceeding standard (64) in 91/92/93/94 respectively; BLM (At Road Crossing): 7 day ave of daily max of 89.1/82.5/88.8 exceeding standard (64) in 92/93/94.		303(d) List	
Pass Gulch to Headwaters	26F-BEAR5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 2.7 miles above Forest Boundary): 7 day average of daily maximums of less than 64 with maximums of 65/63/56/62 did not exceed temperature standard (64) in 1991/1992/1993/ 1994.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>Lower John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bear Creek, North Fork Mouth to Headwaters	26F-BENF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at RM 0.1): 7 day average of daily maximum of less than 64 with a maximum of 65 did not exceed temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Bologna Creek Mouth to Headwaters	26F-BOLO0	Flow Modification			NPS Assessment - segment 229: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 229: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Bridge Creek Mouth to Headwaters	26F-BRID0	Flow Modification			S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 209 and 238: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 209: moderate, observation) DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 209 and 238: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to National Forest Boundary		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 209 and 238: severe, data (DEQ, 1988)	BLM Data (4 Sites: Lower Bridge; Meyers Canyon; Hwy 26; Nelson Cr): 7 day average of daily maximums of 88.5/nd/88.3; 84.1/75.4/83.0; nd/nd/79.0; nd/nd/72.8 respectively exceeded temperature standard (64) in 1992/93/1994. 1997 BLM study also available.		303(d) List	
National Forest Boundary to Headwaters	26F-BRID23	Temperature		Summer	BLM Data; NPS Assessment - segment 209 and 238: severe, data (DEQ, 1988)	USFS Data (2 Sites: At Forest and Wilderness Boundary): 7 day average of daily maximum of <64 with maximums of 64 and 60 respectively did not exceed temperature standard (64) in 1994.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub		<i>Lower John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Bridge Creek, West Branch									
Mouth to Headwaters	26F-BRIW0	Flow Modification			NPS Assessment - segment 214: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 214: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 214: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 214: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Forest Boundary): 7 day average of daily maximum of less than 64 with a maximum of 65 did not exceed temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Butte Creek									
Mouth to Headwaters	26F-BUTTO	Flow Modification			S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 212: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 213: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 212: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Butte Creek, Straw Fork									
Mouth to Headwaters	26F-BUSF0	Sedimentation			NPS Assessment - segment 213: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cherry Creek									
Mouth to Dry Creek	26F-CHER0	Dissolved Oxygen (DO)			NPS Assessment - segment 118: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>Lower John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Dry Creek	26F-CHERO	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 118: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 118: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 118: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 118: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cougar Creek Mouth to Headwaters	26F-COUG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Forest Boundary): 7 day average of daily maximum of less than 64 with a maximum of 59 and 53 did not exceed temperature standard (64) in 1992 and 1993 respectively.	Did not meet listing criteria	OK	
Cove Creek Mouth to Headwaters	26F-COVE0	Flow Modification			NPS Assessment - segment 207: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 207: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 207: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 207: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub	<i>Lower John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Dodds Creek Mouth to Headwaters	26F-DODD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at RM 0.8): Maximum temperatures of 68 and 61 recorded in 1991 and 1993 respectively (temperature standard 64). 1991 data was not used because it was a drought year and a second year's data was available which was below the temperature criteria.	Did not meet listing criteria	Potential Concern	
Ferry Canyon Creek Mouth to Headwaters	26F-FERR0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (2 Sites: Lower, and Upper BLM Boundary): 7 day average of daily maximums of 89.2/83.5 with 139/137 days respectively exceeding temperature standard (64) in 1994.		303(d) List	
Gable Creek Mouth to Headwaters	26F-GABL0	Flow Modification			NPS Assessment - segment 601: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 601: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 601: severe, data (DEQ, 1988)	BLM Data (Site 1/2 mile above mouth): 7 day average of daily maximum of 77.8/71.2/74.8 with 148/61/85 days exceeding temperature standard (64) in 1992/1993/1994. 1997 BLM study also available.		303(d) List	
Girds Creek Mouth to Monroe Creek	26F-GIRD0	Flow Modification			NPS Assessment - segment 225: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 225: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 225: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub	<i>Lower John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Monroe Creek	26F-GIRD0	Temperature			NPS Assessment - segment 225: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Grass Valley Canyon									
Mouth to Headwaters	26F-GRAS0	pH			BLM Data	BLM Data (2 Sites): Upper site pH ranges from low of 8.69 to high of 10. Lower site pH ranges from low of 8.0 to high of 10. Not enough data to make a determination.	Did not meet listing criteria	Potential Concern	Status Modification
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 121: severe, observation (DEQ, 1988)	BLM Data (2 Sites: Near Road Crossing and Upper BLM Boundary): 7 day average of daily maximum of 75.2/73.4°F respectively exceed temperature standard (64) in 1994. 1997 BLM study also available.		303(d) List	
Hay Creek									
Mouth to Sixmile Canyon	26F-HAY0	Flow Modification			S & S Plan (ODFW, 1990); ODFW (1995); NPS Assessment - segment 119: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990); ODFW (1995); NPS Assessment (1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 119: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 119: severe, data (DEQ, 1988)	BLM Data (4 Sites: At mouth, Mikkalo Rd; BLM Boundary; Near Cabin): 7 day average of daily maximum of 77.9/75.0/80.6/80.6 with respectively exceed temperature standard (64) in 1994.		303(d) List	
Heflin Creek									
Mouth to Headwaters	26F-HEFL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at RM 0.01): 7 day average of daily maximum of greater than 64 with 9 and 20 days exceeding previous temperature standard (68) in 1991 and 1992.		303(d) List	

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Basin <i>John Day</i>		Sub <i>Lower John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Henry Creek Mouth to Headwaters	26F-HENR	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at National Forest Boundary): 7 day average of daily maximums of 74/72.4/73/72°F exceeded temperature standard (64) in 1993/94/95/96 respectively.		303(d) List	
Horseshoe Creek Mouth to Headwaters	26F-HORS0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Indian Spring Canyon Mouth to Headwaters	26F-INDI0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Jackknife Creek Mouth to Headwaters	26F-JACK0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 122: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assess(88)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 122: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
John Day River Mouth to Tumwater Falls	26--JOHN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ/USGS Data; NPS Assessment - segment 125: moderate, data (DEQ, 88)	DEQ Data (2 Sites: 404065, 404157; RM 39.5, 157.4): 8% (2 of 24), 0% (0 of 25) Summer values respectively exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ/USGS Data; NPS Assessment - segment 125: moderate, data (DEQ, 88)	DEQ Data (2 Sites: 404065, 404157; RM 39.5, 157.4): 2% (1 of 45), 0% (0 of 28) FWS values respectively exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>Lower John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Tumwater Falls	26--JOHN0	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ/USGS Data	DEQ Data (2 Sites: 404065, 404157; RM 39.5, 157.4): 0% (0 of 72, 0 of 56) Annual values exceeded dissolved oxygen standard (6.5 mg/l) between WY 86 - 95 (cool water fishery, annual); USGS (At McDonald Fy): 0% (0 of 37) Annual values exceeded DO standard.	Did not meet listing criteria	OK	
		Flow Modification				WRD Data; NPS Assessment - segment 124: moderate, data (DEQ, 88)		No supporting data or information	Need Data
		Nutrients				NPS Assessment - segment 124: moderate, data (DEQ, 88)		No supporting data or information	Need Data
		pH			Fall-Winter-Spring	DEQ/USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 124 and 125: severe, data (DEQ, 88)	DEQ Data (2 Sites: 404065, 404157; RM 39.5, 157.4): 0% (0 of 45), 0% (0 of 29) FWS values respectively exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995; USGS Data (Site at McDonald Fy): 0% (0 of 25) FWS values exceeded pH standard in 1986 - 1995.	Did not meet listing criteria	OK
		pH			Summer	DEQ/USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 124 and 125: severe, data (DEQ, 88)	USGS (At McDonald Fy)RM20: 8% (1 of 12) Summer values exceeded pH standard in 86 - 95.	Did not meet listing criteria	OK
		Sedimentation				NPS Assessment - segment 124: moderate, data (DEQ, 88)		No supporting data or information	Need Data
		Temperature	Rearing 64 F (17.8 C)		Summer	BLM Data; DEQ (Temperature Issue Paper, 1995); NPS Assessment - segment 124: severe, data (DEQ, 88)	DEQ (2 Sites: 404065, 404157; RM 39.5, 157.4): 80% (20 of 25) and 74% (20 of 27) Summer values exceeded standard (64) each year between WY 86 - 95 with a max of 83; BLM (2 Sites: Near Service Cr and Spray): 7 day ave of daily max of 71.1 and 78.3 in 1993.		303(d) List
		Toxics	Tissue - Pesticides (DDT)		Year Around	DEQ Data; 304(l) list, Part B	DEQ Data (Site at Phillippi Park): Tissue data exceeds screening criteria but no fish consumption advisory issued.	Did not meet listing criteria - no fish consumption advisory issued	Potential Concern

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub <i>Lower John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tumwater Falls to North Fork	26--JOHN10	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ/USGS Data; NPS Assessment - segment 125: moderate, data (DEQ, 88)	DEQ Data (2 Sites: 404065, 404157; RM 39.5, 157.4): 2% (1 of 45), 0% (0 of 28) FWS values respectively exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Biological Criteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ/USGS Data; NPS Assessment - segment 125: moderate, data (DEQ, 88)	DEQ Data (2 Sites: 404065, 404157; RM 39.5, 157.4): 8% (2 of 24), 0% (0 of 25) Summer values respectively exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ/USGS Data; NPS Assessment - segment 124 and 125: severe, data (DEQ, 88)	DEQ Data (2 Sites: 404065, 404157; RM 39.5, 157.4): 0% (0 of 24), 4% (1 of 27) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with a maximum value of 18 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ/USGS Data	DEQ Data (2 Sites: 404065, 404157; RM 39.5, 157.4): 0% (0 of 72, 0 of 56) Annual values exceeded dissolved oxygen standard (6.5 mg/l) between WY 86 - 95 (cool water fishery, annual); USGS (At McDonald Fy): 0% (0 of 37) Annual values exceeded DO standard.	Did not meet listing criteria	OK	
		Flow Modification			WRD Data; NPS Assessment - segment 124 and 125: moderate, data (DEQ, 88)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 124 and 125: moderate, data (DEQ, 88)		No supporting data or information	Need Data	
		pH		Summer	DEQ/USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 124 and 125: severe, data (DEQ, 88)	DEQ Data (2 Sites: 404065, 404157; RM39.5, 157.4): 12% (3 of 25), 0%(0 of 26) Summer values respect. exceeded pH standard (6.5 - 9.0) with a maximum of 9.1 between 86 - 95; USGS (At McDonald Fy): 8% (1 of 12) Summer values exceeded pH standard in 86 - 95.	Did not meet listing criteria	OK	

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Basin <i>John Day</i>		Sub		<i>Lower John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Tumwater Falls to North Fork	26--JOHN10	pH		Fall-Winter-Spring	DEQ/USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 124 and 125: severe, data (DEQ, 88)	DEQ Data (2 Sites: 404065, 404157; RM 39.5, 157.4): 0% (0 of 45), 0% (0 of 29) FWS values respectively exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995; USGS Data (Site at McDonald Fy): 0% (0 of 25) FWS values exceeded pH standard in 1986 - 1995.	Did not meet listing criteria	OK	
					Sedimentation				
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; DEQ (Temperature Issue Paper, 1995); NPS Assessment - segment 124 and 125: severe, data (DEQ, 88)	DEQ (2 Sites: 404065, 404157; RM 39.5, 157.4): 80% (20 of 25) and 74% (20 of 27) Summer values exceeded standard (64) each year between WY 86 - 95 with a max of 83; BLM (2 Sites: Near Service Cr and Spray): 7 day ave of daily max of 71.1 and 78.3 in 1993.		303(d) List	
Johnson Creek Mouth to Headwaters	26F-JOHN0	Temperature			NPS Assessment - segment 238: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Kahler Creek Mouth to Headwaters	26F-KAHL0	Flow Modification			ODFW (1995); NPS Assessment - segment 228: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			ODFW (1995); NPS Assessment - segment 228: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 228: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Lamberson Canyon Mouth to Headwaters	26F-LAMB0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Lane Creek Mouth to Headwaters	26F-LANE0	Habitat Modification			NPS Assessment - segment 448: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>Lower John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lone Rock Creek Mouth to Headwaters	26F-LONE0	Flow Modification			WRD Data; NPS Assessment - segment 203: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 203: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Muddy Creek Mouth to Headwaters	26F-MUDD0	Flow Modification			NPS Assessment - segment 116 and 117: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 116: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 116: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 116 and 117: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Nelson Creek Mouth to Headwaters	26F-NELS0	Sedimentation			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximum of 73.7/72.3 with 44/87 days exceeding temperature standard (64) in 1993/1994. 1997 BLM study also available.		303(d) List	
Parrish Creek Mouth to Headwaters	26F-PARR0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 215: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 215: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>John Day</i>	Sub	<i>Lower John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26F-PARR0	Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 215: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 215: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pine Creek									
Mouth to Headwaters	26F-PINE0	Biological Criteria	Benthic Macroinvertebrates		DEQ Biomonitoring Data	DEQ Data (4 Sites: 404315, 404316, 404312, 404313; RM 2.4, 3.4, 6.0, 9.1): Bioassessment Index score was 59%, 14%, 60%, 67% respectively of reference site based on data collected between September 1990 - May 1992 (DEQ, 1993).		303(d) List	
		Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 207 and 208: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 207: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 207: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 207 and 208: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pine Hollow									
Mouth to Little Pine Hollow Creek	26F-PINH0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 123: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub		<i>Lower John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Mouth to Little Pine Hollow Creek	26F-PINH0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 123: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rail Creek									
Mouth to Headwaters	26F-RAIL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at RM 0.1): Maximums of 61/70/63 in 1992/1993/1994 (temperature standard 64).	Did not meet listing criteria	Potential Concern	
Robinson Canyon									
Mouth to Headwaters	26F-ROBIO	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 211: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assess(88)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 211: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rock Creek									
Mouth to Headwaters	26F-ROCK0	Flow Modification			S & S Plan (ODFW, 1990); WRD Data; ODFW (1995); NPS Assessment - segment 200 - 202: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990); NPS Assessment - segment 200: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 200 - 202: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 200 - 202: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>John Day</i>	Sub	<i>Lower John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Rowe Creek Mouth to Headwaters	26F-ROWE0	Sedimentation			NPS Assessment - segment 231: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 231: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Scotty Creek Mouth to Headwaters	26F-SCOT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at RM 0.1): Maximums of 66/57/71 in 1992/1993/1994 (temperature standard 64). 1992 and 1994 data were not used because they were drought years and a non drought year's data was available which was below the temperature criteria.	Did not meet listing criteria	Potential Concern	
Service Creek Mouth to Little Service Creek	26F-SERV0	Flow Modification			NPS Assessment - segment 232: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 232: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 232: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Shoofly Creek Mouth to Headwaters	26F-SHOO0	Flow Modification			NPS Assessment - segment 226: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 226: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 226: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>John Day</i>	Sub	<i>Lower John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Sorefoot Creek Mouth to Headwaters	26F-SORE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (2 Sites: At mouth and Upper BLM Boundary): 7 day average of daily maximums of 77.5°F and 80.6°F 89.6 respectively exceeding temperature standard (64) in 1993.		303(d) List	
Stahl Creek Mouth to Headwaters	26F-STAH0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above FSR 21): 7 day average of daily maximum of 64.9 exceeded temperature standard (64) in 1993.		303(d) List	
Thirtymile Creek Mouth to Headwaters	26F-THIRO	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 205 and 206: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 205: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 205: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 205 and 206: severe, observation (DEQ, 1988)	BLM Data (Site at lower BLM Boundary): 7 day average of daily maximum of 91.5 with 86 days exceeding temperature standard (64) in 1994.		303(d) List	
Thirtymile Creek, East Fork Mouth to Headwaters	26F-THEF0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 206: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	John Day	Sub	Lower John Day						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26F-THEF0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assess(88)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 206: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Trail Fork									
Mouth to Headwaters	26F-TRAI0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub		<i>Middle Fork John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Badger Creek Mouth to Headwaters	26D-BADG0	Temperature	Rearing 64 F (17.8 C)		TNC Data	TNC Data (Site below FSR 713, where it ends): 7 day average of daily maximum of 59.3 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Beaver Creek Mouth to Headwaters	26D-BEAV0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Big Boulder Mouth to Badger Creek	26D-BIGB0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 577): 7 day average of daily maximum of 67 with 30 days exceeding temperature standard (64) in 1992.		303(d) List	
Badger Creek to Headwaters	26D-BIGB2	Temperature		Summer	USFS Data	USFS Data (Site at FSR 4550): 7 day average of daily maximum of <64 with 0 days exceeding temperature standard (64) in 1992 and 1993.	Did not meet listing criteria	OK	
Big Creek Mouth to Headwaters	26D-BIG0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	TNC Data - Bull Trout Habitat	TNC Data (2 Sites: Lower on FSR 2090 at FS boundary and Upper): 7 day average of daily maximum of 61.6 and 59.3 exceeded Bull Trout temperature standard (50) in 1993.		303(d) List	
Bridge Creek Mouth to Headwaters	26D-BRID0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Butte Creek Mouth to Headwaters	26D-BUTT0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	TNC Data	TNC Data (Site at 0.4 miles of FSR 791): 7 day average of daily maximum of 63.4 with 1 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Camp Creek Mouth to Headwaters	26D-CAMP0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>Middle Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26D-CAMP0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 146: moderate, data (DEQ, 1988)	USFS Data (Site at FSR 36): 7 day average of daily maximum of 73 with 43 days exceeding temperature standard (64) in 1993.		303(d) List	
Caribou Creek Mouth to Headwaters	26D-CARIO	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	TNC Data	TNC Data (Site near mouth): 7 day average of daily maximum of 69.8 with 30 days exceeding temperature standard (64) in 1993.		303(d) List	
Clear Creek Mouth to Headwaters	26D-CLEA0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 190: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assess(88)		No supporting data or information	Need Data	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat; NPS Assessment - segment 190: moderate, observation (DEQ, 1988)	USFS Data (Site at FSR 2635): 7 day average of daily maximum of 64/<64/68 exceeding Bull Trout temperature standard (50) in 1992/1993/1994.		303(d) List	
Clear Creek, Dry Fork Mouth to Headwaters	26D-CLDF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 2640): 7 day average of daily maximum of 65 with 5 days exceeding temperature standard (64) in 1993.		303(d) List	
Coyote Creek Mouth to Headwaters	26D-COY00	Temperature		Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximum of 65.8 with 47 days exceeding temperature standard (64) in 1993.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>Middle Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Crawford Creek Mouth to RM 3	26D-CRAW0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: Lower and Middle on FSR 2620, north 1 mile and 3 miles respectively): 7 day average of daily maximum of 73.0 and 69.4 with 37 and 33 days respectively exceeding temperature standard (64) in 1993.		303(d) List	
RM 3 to Headwaters	26D-CRAW3	Temperature		Summer	USFS Data	USFS Data (Upper site - on FSR 2620 31/2 miles below Crawford Meadows): 7 day average of daily maximum of 60.2 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Davis Creek Mouth to Headwaters	26D-DAVI0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Mouth to RM 4		Temperature	Rearing 64 F (17.8 C)	Summer	TNC Data	TNC Data (Lower site - on FSR 2614 where Davis first crosses): 7 day average of daily maximum of 65.4 with 8 days exceeding temperature standard (64) in 1993.		303(d) List	
RM 4 to Headwaters	26D-DAVI4	Temperature		Summer	USFS Data	USFS (Upper site on FSR 2612, NW 5 miles): 7 day average of daily maximum of 52.6 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Granite Boulder Creek Mouth to Headwaters	26D-GRAN0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (3 Sites: At FSR 4550; FSR 4559; and Upper): 7 day average of daily maximum of 71/nd/69; <64 (max of 64)/<64 (max of 63)/nd; 69/<64 (max of 61)/nd exceeded Bull Trout temperature standard (50) in 1992/1993/1994.		303(d) List	
Idaho Creek Mouth to Headwaters	26D-IDAHO	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
John Day River, Middle Fork Mouth to Crawford Creek	26D-JOMF0	Dissolved Oxygen (DO)			NPS Assessment - segment 131 and 132: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>			Sub		<i>Middle Fork John Day</i>				
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Crawford Creek	26D-JOMF0	Flow Modification			IWR (ODFW); Flow Data (USGS, WRD); ODFW (1995); NPS Assessment - segment 131 - 133: moderate, observation (DEQ, 1988)	Spring Chinook and Steelhead production is limited by rearing conditions and increasing flow has been identified as a need (Salmon and Steelhead Plan, 1990); IWR (59789) for fish is frequently not met during summer at gage 14044000.		303(d) List	
		Sedimentation			NPS Assessment - segment 131 - 133: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	TNC Data; NPS Assessment - segment 131 - 133: severe/moderate, observation (DEQ, 1988)	TNC Data (2 Sites: At Mosquito Creek and Below Big Boulder Creek): 7 day average of daily maximums of 72.3 and 75.0 with 42 and 56 days exceeding temperature standard (64) in 1993 (data also available for other sites).		303(d) List	
Lemon Creek Mouth to Headwaters	26D-LEMO0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 4559): 7 day average of daily maximum of <64 with 0 days exceeding temperature standard (64) in 1992 - 1994.	Did not meet listing criteria	OK	
Lick Creek Mouth to Headwaters	26D-LICK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site on FSR 3670, 2 miles SE): 7 day average of daily maximum of 57.9 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Little Boulder Creek Mouth to RM 2	26D-BOLI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Lower site near mouth): 7 day average of daily maximum of 70.4 with 23 days exceeding temperature standard (64) in 1993.		303(d) List	
RM 2 to Headwaters	26D-BOLI2	Temperature		Summer	USFS Data	USFS Data (Upper site on FSR 2055): 7 day average of daily maximum of 57.7 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Little Butte Creek Mouth to Headwaters	26D-BULI0	Temperature		Summer	USFS Data	USFS Data (Site on FSR 2020, 1 mile south): 7 day average of daily maximum of 63.4 with 1 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>John Day</i>	Sub	<i>Middle Fork John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Little Butte Creek, East Fork Mouth to Headwaters	26D-BUEF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; TNC Data	USFS Data (Site at mouth): 7 day average of daily maximum of 68/67/71 with 6/50/44 days exceeding temperature standard (64) in 1990/1991/1992.		303(d) List	
Little Butte Creek, West Fork Mouth to Headwaters	26D-BUWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximum of 65 with 8 days exceeding temperature standard (64) in 1993.		303(d) List	
Long Creek Mouth to Headwaters	26D-LONG0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 144 and 145: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 144: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 144 and 145: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 144 and 145: severe/moderate, observation (DEQ, 1988)	USFS Data (Site at FSR 3945): 7 day average of daily maximum of 74/72/69 with 62/67/20 days exceeding temperature standard (64) in 1990/1991/1993 respectively.		303(d) List	
Long Creek, South Fork Mouth to Headwaters	26D-LOSF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximum of <64/81 with 0/27 days exceeding temperature standard (64) in 1990/1991. 1991 data was not used because it was a drought year and a second year's data was available which was below the temperature criteria.	Did not meet listing criteria	Potential Concern	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>Middle Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lunch Creek Mouth to Headwaters	26D-LUNC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Hwy 26): 7 day average of daily maximum of 69/65/70 with 38/6/59 days exceeding temperature standard (64) in 1992/1993/1994.		303(d) List	
Mill Creek Mouth to Headwaters	26D-MILLO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Hwy 7 - 3 miles NE in Section 15): 7 day average of daily maximum of 68.2 with 9 days exceeding temperature standard (64) in 1993.		303(d) List	
Mosquito Creek Mouth to Headwaters	26D-MOSQ0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; TNC Data	USFS Data (Site at FSR 893): 7 day average of daily maximum of 65 and 70 with 5 and 48 days exceeding temperature standard (64) in 1991 and 1992 respectively.		303(d) List	
Myrtle Creek Mouth to Headwaters	26D-MYRT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above culvert on FSR 577): 7 day average of daily maximum of 57.6 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Pass Creek Mouth to Headwaters	26D-PASS0	Sedimentation			NPS Assessment - segment 222: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Placer Gulch Mouth to Headwaters	26D-PLAC0	Habitat Modification Temperature	Rearing 64 F (17.8 C)	Summer	Salmon & Steelhead Plan (ODFW, 1990) TNC Data	TNC Data (Site on FSR 2614, west 1.5 miles): 7 day average of daily maximum of 72.3 with 25 days exceeding temperature standard (64) in 1993.	No supporting data or information	Need Data 303(d) List	
Ragged Creek Mouth to Headwaters	26D-RAGG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 2045): 7 day average of daily maximum of 66/<64/67/<64/65 with 10/0/33/0/11 days exceeding temperature standard (64) in 1990/1991/1992/1993/1994.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>Middle Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Ruby Creek Mouth to Headwaters	26D-RUBY0	Flow Modification			ODFW (1995)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: Lower on FSR 098 and Upper on FSR 2050 - 5 miles in Section 15): 7 day average of daily maximum of 64.3 and 57.4 with 0 and 4 days respectively exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Slide Creek Mouth to Headwaters	26D-SLID0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Squaw Creek Mouth to Headwaters	26D-SQUA0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; BLM data	USFS Data (Site at FSR 2645): 7 day average of daily maximum of 70/74 with 29/64 days exceeding temperature standard (64) in 1993/1994. 1997 BLM study also available.		303(d) List	
Summit Creek Mouth to Headwaters	26D-SUMM0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Mouth to North Fork		Temperature	Rearing 64 F (17.8 C)	Summer	TNC Data	TNC Data (2 Sites: Lower and Middle): 7 day average of daily maximum of 72.8 and 68.7 with 36 and 18 days respectively exceeding temperature standard (64) in 1993.		303(d) List	
North Fork to Headwaters	26D-SUMM5	Temperature		Summer	TNC Data	TNC Data (Upper site - at junction of FSR 1940, 1 mile from FSR 2622): 7 day average of daily maximum of 62.7 with 1 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Vincent Creek Mouth to Headwaters	26D-VINC0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	

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Basin <i>John Day</i>		Sub	<i>Middle Fork John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26D-VINC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: Lower on FSR 101 at Jct approximately 0.5 miles after FSR 2010 and Upper at end of FSR 243): 7 day average of daily maximum of 60.4 and 65.2 with 0 and 12 days respectively exceeding temperature standard (64) in 1993.	Did not meet listing criteria	Potential Concern	
Vinegar Creek Mouth to Blue Gulch	26D-VINE0	Flow Modification			ODFW (1995); NPS Assessment - segment 189: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at 15 meters above fish screen on FSR 120): 7 day average of daily maximum of 70.8 with 30 days exceeding temperature standard (64) in 1993.		303(d) List	
Blue Gulch to Headwaters	26D-VINE4	Temperature		Summer	USFS Data	USFS Data (Upper site - from FSR 2010, right past cattle guard and continue to junction): 7 day average of daily maximum of 57.7 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Wray Creek Mouth to Headwaters	26D-WRAY0	Temperature	Rearing 64 F (17.8 C)	Summer	TNC Data	TNC Data (Site at confluence of Wray and Big Boulder): 7 day average of daily maximum of 61.5 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub	<i>North Fork John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Alder Creek Mouth to Headwaters	26C-ALDE0	Habitat Modification			Wall Ecosystem Analysis (USFS, 1995); Salmon & Steelhead Plan (ODFW, 1990)	Steelhead redds have shown declining trends over past few years, habitat factors (pool frequency and depth) did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Sedimentation			Wall Ecosystem Analysis (USFS, 1995)	Steelhead redds have shown declining trends over past few years, cobble embeddedness did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Wall Ecosystem Analysis (USFS, 1995)	USFS Data (Site above FSR 21): 7 day average of daily maximum of 61 in 1993 and 66.5 in 1994 exceeded temperature standard (64) in 1994, but not in 1993. 1994 data was not used because it was a drought year and a second year's data was available which was below the temperature criteria.	Did not meet listing criteria	Potential Concern	
Bacon Creek Mouth to Headwaters	26C-BAC00	Habitat Modification			Wall Ecosystem Analysis (USFS, 1995)	Steelhead redds have shown declining trends over past few years, habitat factors (pool frequency and depth) did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Temperature			Wall Ecosystem Analysis (USFS, 1995)		No supporting data or information	Need Data	
Baldy Creek Mouth to headwaters	26C-BALD0	Habitat Modification			USFS Watershed Analysis for Upper North Fork John Day River 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in good condition. Bank stability below standard.		303(d) List	Addition
		Sedimentation			USFS Watershed Analysis for Upper North Fork John Day River 1997	USFS Data shows large changes in erosion hazard between natural and current conditions.		303(d) List	Addition
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Watershed Analysis for Upper North Fork John Day River 1997	1994 USFS data shows the 7 day ave. max. water temperature of 58.7°F exceeded the water temperature for Bull Trout (50°F)		303(d) List	Addition

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Basin <i>John Day</i>		Sub <i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bear Creek Mouth to Headwaters	26C-BEAR0	Habitat Modification			Wall Ecosystem Analysis (USFS, 1995)	Steelhead redds have shown declining trends over past few years, habitat factors (pool frequency and depth) did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Temperature			Wall Ecosystem Analysis (USFS, 1995)		No supporting data or information	Need Data	
Bear Wallow Creek Mouth to Headwaters	26C-BEAW0	Habitat Modification			Camas Ecosystem Analysis (USFS, 1995); S & S Plan (ODFW, 1990); NPS Assessment - segment 447: moderate, data (DEQ, 1988)	Camas Watershed produces very small numbers of chinook and redd counts remain low, improving habitat conditions (pools, LWD) have been identified as a high priority (Camas Ecosystem Analysis, 1995).		303(d) List	
		Nutrients			NPS Assessment - segment 447: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 447: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 447: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Camas Ecosystem Analysis (USFS, 1995)		USFS Data (Site by Campground): 7 day average of daily maximum of 66.6/72.69°F exceeded temperature standard (64) in 1993/94/96		303(d) List
Beaver Creek Mouth to Headwaters	26C-BEAV0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Granite Creek 1997	For PACFISH Management Objectives met pool frequency, but not large woody debris objectives. Riparian habitat in fair/good condition. Bank stability high.	Did not meet listing criteria	Potential Concern	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data			USFS Data (Site below Beaver Meadows): 7 day average of daily maximum of 67.5/74.9/70.0°F exceeding temperature standard (64) in 1993/94/95.	303(d) List

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Basin <i>John Day</i>		Sub <i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Beaver Creek, South Fork Mouth to Headwaters	26C-BEAV0	Habitat Modification			USFS Watershed Analysis for Granite Creek 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in fair condition. Bank stability below standard.		303(d) List	Addition
Big Creek Mouth to Headwaters	26C-BIG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximum of 68/72.8/72°F exceeded 64 °F temperature standard in 1993/94/96.		303(d) List	
Big Wall Creek Mouth to Headwaters	26C-WAB10	Dissolved Oxygen (DO)			NPS Assessment - segment 140 and 216: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 140 and 216: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Wall Ecosystem Analysis (USFS, 1995); Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 140 and 216: severe, data (DEQ, 1988)	Steelhead redds have shown declining trends over past few years, habitat factors (pool frequency and depth) did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Sedimentation			Wall Ecosystem Analysis (USFS, 1995); Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 140 and 216: severe, observation/data (DEQ, 1988)	Steelhead redds have shown declining trends over past few years, cobble embeddedness did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Wall Ecosystem Analysis (USFS, 1995); NPS Assessment - segment 140 and 216: severe, data (DEQ, 1988)	USFS Data (3 Sites: At mouth; FS Boundary; and Upper): 7 day average of daily maximum of 83.4/77.6; 75.9/80.4/77/68°F and 68.1/69./74°F respectively exceeded temperature standard (64) in 1993/1994/95.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Boulder Creek Mouth to FSR 7355	26C-BOUL0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Granite Creek 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in fair/good condition. Bank stability below standard.		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: Lower and Upper): 7 day average of daily maximum of 68/63.8 and nd/53.6 respectively exceeded temperature standard (64) in 1992/1993 respectively. For lower site in 1993/94/95 was 58.6/57.2/69°F.	Did not meet listing criteria	Potential Concern	
Boundary Creek Mouth to Headwaters	26C-BOUN0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Granite Creek 1997	For PACFISH Management Objectives met pool frequency, but not large woody debris objectives. Riparian habitat in fair/good condition. Bank stability high.	Did not meet listing criteria	OK	Status Modification
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Watershed Analysis for Granite Creek 1997	Did not exceed 7 day ave. max. water temperature (64) in 1995 was 59.9 °F	Did not meet listing criteria	OK	Addition
Bowman Creek Mouth to Headwaters	26C-BOWM0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)	Camas Watershed produces very small numbers of chinook and redd counts remain low, improving habitat conditions (pools, LWD) have been identified as a high priority (Camas Ecosystem Analysis, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Camas Ecosystem Analysis (USFS, 1995)	USFS Data (Site at mouth): 7 day average of daily maximum of 77.7/85.8 exceeded temperature standard (64) in 1993/1994 respectively.		303(d) List	
Bridge Creek Mouth to Headwaters	26C-BRID0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximum of 64.7/69°F exceeded temperature standard (64) in 1993/96.		303(d) List	

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bull Creek Mouth to headwaters	26C-BULL0	Habitat Modification			USFS Watershed Analysis for Upper North Fork John Day River 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in good condition. Bank stability below standard.		303(d) List	Addition
Bull Run Creek Mouth to Headwaters	26C-BULR0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Granite Creek 1997	For PACFISH Management Objectives did not meet pool frequency, but did for large woody debris objectives. Riparian habitat in poor/fair condition. Bank stability below standard. Degradation of stream habitat has reduced the potential for supporting fish.		303(d) List	Addition
		Sedimentation			USFS Watershed Analysis for Granite Creek	USFS Data shows large changes in erosion hazard between natural and current conditions. Degradation of stream habitat has reduced the potential for supporting fish.		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Pasture Creek): 7 day average of daily maximum of >64 exceeded temperature standard (64) with maximums of 74 and 70 recorded in 1992 and 1993 respectively. In 1994/95 water temperatures were 70.5/69.9°F		303(d) List	
Butcherknife Creek Mouth to Headwaters	26C-BUTC0	Habitat Modification			Camas Ecosystem Analysis (USFS, 1995); S & S Plan (ODFW, 1990)		No supporting data or information	Need Data	
Cable Creek Mouth to Headwaters	26C-CABL0	Habitat Modification			Camas Ecosystem Analysis (USFS, 1995); S & S Plan (ODFW, 1990); NPS Assessment - segment 449: moderate, observation (DEQ, 1988)	Camas Watershed produces very small numbers of chinook and redd counts remain low, improving habitat conditions (pools, LWD) have been identified as a high priority (Camas Ecosystem Analysis, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Camas Ecosystem Analysis (USFS, 1995)	USFS Data (Site at mouth): 7 day average of daily maximums of 73.3/78.1/73 exceeded temperature standard (64) in 1993/94/95		303(d) List	

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Camas Creek Mouth to Headwaters	26C-CAMA0	Flow Modification			Camas Ecosystem Analysis (USFS, 1995); IWR (ODFW); USGS; S & S Plan (ODFW, 1990); NPS Assessment - segment 195 - 197: moderate, observation (DEQ, 1988)	Spring Chinook and Steelhead production is limited by rearing conditions and increasing flow has been identified as a need (Salmon and Steelhead Plan, 1990); IWR (62318) for fish is frequently not met during summer at gage 14042500.	No supporting data or information	Need Data	
					Camas Ecosystem Analysis (USFS, 1995); IWR (ODFW); USGS; S & S Plan (ODFW, 1990); NPS Assessment - segment 195 - 197: moderate, observation (DEQ, 1988)	Camas Watershed produces very small numbers of chinook and redd counts remain low, improving habitat conditions (pools, LWD) have been identified as a high priority (Camas Ecosystem Analysis, 1995).		303(d) List	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 195 - 197: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Camas Ecosystem Analysis (USFS, 1995); NPS Assessment - segment 195 - 197: moderate/severe, observation (DEQ, 1988)	USFS Data (4 Sites: Mouth; Below Owens; Lane; and Rancheria Creeks): 7 day average of daily maximums of 74/nd; 75.1/nd; 71/74.6; 73.1/78/74°F exceeded temperature standard (64) in 1993/94/95 respectively.		303(d) List	
Clear Creek Mouth to Wilderness Boundary	26C-CLEA0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
			Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 439: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site below Congo Creek): 7 day average of daily maximum of greater than 68 exceeded temperature standard (54) in 1993.		303(d) List	
		Toxics			NPS Assessment - segment 439: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Corral Creek Mouth to Headwaters	26C-CORR0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Granite Creek 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in good condition. Bank stability high.		303(d) List	Addition
Cottonwood Creek Mouth to Headwaters	26C-COTT0	Biological Criteria	Benthic Macroinvertebrates		DEQ Biomonitoring Data	DEQ Data (Site 404320; RM 2.5): Bioassessment Index score was 75% of reference site based on data collected between September 1990 - May 1992 (DEQ, 1993).		303(d) List	
		Dissolved Oxygen (DO)			NPS Assessment - segment 141: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 141: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 141: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (4 Sites: 404320, 404321, 404322, 404323; RM 2.5 - 5.6): 0% (0 of 8, 6, 8), 25% (2 of 8) FWS values respectively exceeded pH standard (6.5 - 9.0) with a maximum value of 9.2 between 1988 - 1992.	Did not meet listing criteria	Study	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 141: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 141: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	Removed (1)

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Cottonwood Creek, East Fork Mouth to Headwaters	26C-COEF0	Biological Criteria	Benthic Macroinvertebrates		DEQ Biomonitoring Data	DEQ Data (2 Sites: 404319, 404318; RM 0.5, 1.3): Bioassessment Index score was 50% and 39% respectively of reference site based on data collected between September 1990 - May 1992 (DEQ, 1993).		303(d) List	
		Dissolved Oxygen (DO)			NPS Assessment - segment 605: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 605: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 605: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 404319, 404318; RM 0.5 - 1.3): 13% (1 of 8), 13% (1 of 8) FWS values respectively exceeded pH maximum standard (6.5 - 9.0) with maximum values of 9.1, 9.7 between 1988 -1991.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 605: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 605: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Crane Creek Mouth to FSR 7340	26C-CRAN0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Upper North Fork John Day River 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in good condition. Bank stability was high.		303(d) List	Addition
Mouth to headwaters		Sedimentation			USFS Watershed Analysis for Upper North Fork John Day River 1997	USFS Data shows large changes in erosion hazard between natural and current conditions.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to FSR 7340	26C-CRAN0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Lower site below Crane Flats): 7 day average of daily maximum of >64/52.1 exceeded Bull Trout temperature standard (50) in 1992/1993 respectively.		303(d) List	
Crawfish Creek Mouth to headwaters	26C-CRAW0	Habitat Modification			USFS Watershed Analysis for Upper North Fork John Day River 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in good condition. Bank stability high.		303(d) List	Addition
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Watershed Analysis for Upper North Fork John Day River 1997	1994 USFS data shows the 7 day ave. max. water temperature of 59.8°F exceeded the water temperature for Bull Trout (50°F)		303(d) List	Addition
Davis Creek Mouth to Headwaters	26C-DAV10	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Upper North Fork John Day 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in good condition. Bank stability below objective. Degradation of stream habitat has reduced the potential for supporting fish.		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near National Forest Boundary): 7 day average of daily maximum of 61.2 with 0 days exceeding temperature standard (64) in 1993. In 1994 a drought year was 74.5°F	Did not meet listing criteria	OK	
Deep Creek Mouth to Headwaters	26C-DEEP0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Granite Creek 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in fair/good condition. Bank stability below standard. Degradation of stream habitat has reduced the potential for supporting fish.		303(d) List	Addition

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26C-DEEP0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (3 Sites: 1; 2; 3): 7 day average of daily maximums of <64/53.2; nd/53.4; nd/<64 with 0 days respectively exceeding temperature standard (64) in 1992/1993. In 1994/95 water temperature was 56.0/63.3 °F.	Did not meet listing criteria	OK	
Deer Creek Mouth to East Fork	26C-DEER0	Dissolved Oxygen (DO)			NPS Assessment - segment 147: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 147: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 147: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 147: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 147: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	Removed (1)
Deer Creek, East Fork Mouth to Headwaters	26C-DEEF0	Temperature					No supporting data or information	Need Data	Removed (1)
Desolation Creek Mouth to North/South Confluence	26C-DESO0	Flow Modification			S & S Plan (ODFW, 1990); WRD Data		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 450: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	

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Basin <i>John Day</i>		Sub		<i>North Fork John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Mouth to North/South Confluence	26C-DESO0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at ISCO): 7 day average of daily maximum of 69/73°F exceeded Bull Trout temperature standard (50) in 1993/96. At mouth 70/77/67°F for 1993/94/96.		303(d) List	
Desolation Creek, South Fork									
Mouth to Headwaters	26C-DESF0	Temperature			Bull Trout Habitat		No supporting data or information	Need Data	
Ditch Creek									
Mouth to Headwaters	26C-DITC0	Dissolved Oxygen (DO)			NPS Assessment - segment 219: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 218 and 219: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 218 and 219: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 218 and 219: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Smith Ditch		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 218 and 219: severe/moderate, observation (DEQ, 1988)	USFS Data (2 Sites: Lower; Middle): 7 day average of daily maximums of 74.9/75/76°F and 76.3/77.4/72/78 respectively exceeded temperature standard (64) in 1993/94/95/96.		303(d) List	
Smith Ditch to Headwaters	26C-DITC10	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 218 and 219: severe/moderate, observation (DEQ, 1988)	USFS Data (Site above Smith Ditch): 7 day average of daily maximum of 55.4/59.8/55/59°F did not exceed temperature standard (64) in 1993/94/95/96 respectively.	Did not meet listing criteria	OK	

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Dunning Creek Mouth to Headwaters	26C-DUNNO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Forest Boundary): 7 day average of daily maximums of 69/<64 with 8/0 days exceeding temperature standard (64) in 1992/1993 respectively.	Did not meet listing criteria	Potential Concern	
Fivemile Creek Mouth to Headwaters	26C-FIVE0	Flow Modification			NPS Assessment - segment 223: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Camas Ecosystem Analysis (USFS, 1995); S & S Plan (ODFW, 1990); NPS Assessment - segment 223: moderate, observation (DEQ, 1988)	Camas Watershed produces very small numbers of chinook and redd counts remain low, improving habitat conditions (pools, LWD) have been identified as a high priority (Camas Ecosystem Analysis, 1995).		303(d) List	
		Sedimentation			NPS Assessment - segment 223: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Camas Ecosystem Analysis (USFS, 1995); NPS Assessment - segment 223: severe, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day average of daily maximum of 67.6/73.8/71 exceeded temperature standard (64) in 1993/94/95		303(d) List	
Fox Creek Mouth to Headwaters	26C-FOX0	Dissolved Oxygen (DO)			NPS Assessment - segment 143: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			WRD Data; NPS Assessment - segment 143: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 143: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 143: severe, observation (DEQ, 1988)	USFS Data (Site at Forest Boundary): 7 day average of daily maximum of 74 with 6 days exceeding temperature standard (64) in 1992.		303(d) List	

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Frazier Creek Mouth to Headwaters	26C-FRAZO	Habitat Modification			Camas Ecosystem Analysis (USFS, 1995); S & S Plan (ODFW, 1990)	Camas Watershed produces very small numbers of chinook and redd counts remain low, improving habitat conditions (pools, LWD) have been identified as a high priority (Camas Ecosystem Analysis, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Camas Ecosystem Analysis (USFS, 1995)	USFS Data (Site at mouth): 7 day average of daily maximum of 67/71.7/71/71°F exceeded temperature standard (64) in 1993/94/95/96 respectively.		303(d) List	
Gilmore Creek Mouth to Headwaters	26C-GILM0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 188: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 188: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 188: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Granite Creek Mouth to headwaters	26C-GRAN0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 138: moderate, observation (DEQ, 1988); USFS Watershed Analysis for Granite Creek 1997	Includes Granite Creek and its tributaries. For Granite Creek PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in fair/good condition. Bank stability below standard. Within the watershed extensive mining has taken place modifying the streams: only 3/13 tributaries in the basin met the pool frequency objective, 1/13 met the large wood objective and 6/13 met the bank stability objective. Degradation of stream habitat has reduced the potential for supporting fish.		303(d) List	Addition

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to China Gulch	26C-GRAN0	Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 138: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Sites above Bull Run Creek and below China Gulch): 7 day average of daily maximums of >68/67.2 and >64/63.5 exceeded temperature standard (64) in 1992/1993 respectively.		303(d) List	
		Toxics			NPS Assessment - segment 138: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
China Gulch to Headwaters	26C-GRAN10	Sedimentation			USFS Watershed Analysis for Granite Creek	USFS Data shows large changes in erosion hazard between natural and current conditions. Degradation of stream habitat has reduced the potential for supporting fish.		303(d) List	Addition
		Temperature		Summer	USFS Data	USFS Data (Site above China Gulch): 7 day average of daily maximums of <64/<64 did not exceed temperature standard (64) in 1992/1993 respectively.		OK	
Hidaway Creek									
Mouth to Headwaters	26C-HIDA0	Habitat Modification			Camas Ecosystem Analysis (USFS, 1995); S & S Plan (ODFW, 1990); NPS Assessment - segment 445: moderate, data (DEQ, 1988)	Camas Watershed produces very small numbers of chinook and redd counts remain low, improving habitat conditions (pools, LWD) have been identified as a high priority (Camas Ecosystem Analysis, 1995).		303(d) List	
	26C-HIDE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Camas Ecosystem Analysis (USFS, 1995)	USFS Data (Site at mouth): 7 day average of daily maximums of 72.3/70.5/78/75°F exceeded temperature standard (64) in 1993/94/95/96 respectively.		303(d) List	
Hog Creek									
Mouth to Headwaters	26C-HOG0	Habitat Modification			Wall Ecosystem Analysis (USFS, 1995)		No supporting data or information	Need Data	
		Sedimentation			Wall Ecosystem Analysis (USFS, 1995)	Steelhead redds have shown declining trends over past few years, cobble embeddedness did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub <i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26C-HOG0	Temperature			Wall Ecosystem Analysis (USFS, 1995)		No supporting data or information	Need Data	
Indian Creek									
Mouth to Headwaters	26C-INDI0	Dissolved Oxygen (DO)			NPS Assessment - segment 454: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 454: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Wall Ecosystem Analysis (USFS, 1995); NPS Assessment - segment 454: severe, observation (DEQ, 1988)	Steelhead redds have shown declining trends over past few years, habitat factors (pool frequency and depth) did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Wall Ecosystem Analysis (USFS, 1995); NPS Assessment - segment 454: severe, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day average of daily maximum of 67/72/71/71°F exceeded temperature standard (64) in 1993/94/95/96.		303(d) List	
John Day River, North Fork									
Baldy Creek to headwaters	26C-JDNF106	Sedimentation			USFS Watershed Analysis for Upper North Fork John Day River 1997	USFS Data shows large changes in erosion hazard between natural and current conditions.	Did not meet listing criteria	Potential Concern	Addition
Mouth to Middle Fork JD R	26C-JONF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 128 and 129: moderate, data (DEQ, 1988)	DEQ Data (Site 402694; RM 0.1): 0% (0 of 26) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 128 and 129: moderate, data (DEQ, 1988)	DEQ Data (Site 402694; RM 0.1): 0% (0 of 27) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data; NPS Assessment - segment 128 and 129: moderate, data (DEQ, 1988)	DEQ Data (Site 402694; RM 0.1): 0% (0 of 27) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Middle Fork JD R	26C-JONF0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	DEQ Data; NPS Assessment - segment 128 and 129: moderate, observation (DEQ, 1988)	DEQ Data (Site 402694; RM 0.1): 7% (4 of 55) Annual values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 6.4 mg/l (83% saturation) between WY 1986 - 1995 (cold water fishery, annual).	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 128 and 129: moderate, data (DEQ, 1988)	DEQ Data (Site 402694; RM 0.1): 0% (0 of 27) Summer values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402694; RM 0.1): 0% (0 of 28) FWS values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation	Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 128: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data				
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; DEQ (Temperature Issue Paper, 1995); NPS Assessment - segment 128 and 129: severe, observation (DEQ, 1988)	DEQ (Site 402694; RM 0.1): 67% (18 of 27) Summer values exceeded standard (64) with exceedences each year between WY 86-95, 7 day average of daily maximum of 79.6 in 1995; BLM (Near Lone Pine Pk): 7 day ave of daily max of 79.4 in 93.		303(d) List	
Middle Fork JD R to Granite Creek	26C-JONF032.3	Dissolved Oxygen (DO)			NPS Assessment - segment 130: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Big Creek): 7 day average of daily maximum of 71.1/76/74°F exceeded temperature standard (64) in 1993/94/96.		303(d) List	

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Basin	John Day	Sub	North Fork	John Day					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Granite Creek to Wilderness Boundary	26C-JONF087.5	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis of Upper North Fork John Day River 1997	Includes North Fork John Day River and its tributaries. For PACFISH Management Objectives did not meet pool frequency, but did meet large woody debris objectives. Riparian habitat in fair/good condition. Bank stability high. Within the watershed extensive mining has taken place modifying the streams: 0/17 tributaries met the pool frequency objectives, 4/17 met the large woody debris, and 5/17 met bank stability. Degradation of stream habitat has reduced the potential for supporting fish.		303(d) List	Addition
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data; BLM Data - Bull Trout Habitat; NPS Assessment - segment 130: severe, observation (DEQ, 1988)	USFS Data (2 Sites: Above Trail and Baldy Creeks): 7 day average of daily maximums of less than 64 with maximums of 60/72 and 58/62 respectively exceeded Bull Trout temperature standard (50) in		303(d) List	
Lane Creek Mouth to Headwaters	26C-LANE0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximum of 64.3/65/64°F exceeded temperature standard (64) in 1993/95/96.		303(d) List	
Little Wall Creek Mouth to Headwaters	26C-WALI0	Dissolved Oxygen (DO)			NPS Assessment - segment 217: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 217: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Wall Ecosystem Analysis (USFS, 1995); Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 217: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			Wall Ecosystem Analysis (USFS, 1995); NPS Assessment - segment 217: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>John Day</i>			Sub	<i>North Fork John Day</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mallory Creek Mouth to Headwaters	26C-MALL0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Stadler Creek): 7 day average of daily maximum of 71.1 and 73.9 exceeded temperature standard (64) in 1993 and 1994 respectively.		303(d) List	
Meadow Brook Creek, East Fork Mouth to Headwaters	26C-MEEF0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Olive Creek Mouth to Headwaters	26C-OLIV0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Granite Creek 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in poor/fair condition. Bank stability below standard. Degradation of stream habitat has reduced the potential for supporting fish.		303(d) List	Addition
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment -segment 439: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site below McWillis Gulch): 7 day average of daily maximum of <64 and 57.2 met temperature standard (64) in 1992 and 1993 respectively. In 1994/95 was 62.5/56.4 °F.	Did not meet listing criteria	OK	
		Toxics			NPS Assessment -segment 439: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Onion Creek Mouth to headwaters	26C-ONIO0	Habitat Modification			USFS Watershed Analysis for Upper North Fork John Day River 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in fair/good condition. Bank stability high.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26C-ONIO0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data	USFS Data (3 Sites: 1; 2; 3): 7 day average of daily maximums of <64, 50.8, and 50.4 did not meet temperature standard (50°F) in 1993. In 1994 was 53.5°F		303(d) List	Addition
Oriental Creek Mouth to Headwaters	26C-ORIE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Umatilla Forest Plan Monitoring and Evaluation Report 1996	USFS Data (Site at mouth): 7 day average of daily maximums of 65/60/63/58/61°F one year out of five exceeded temperature standard (64) in 1992/93/94/95/96 respectively.	Did not meet listing criteria	OK	Addition
Owens Creek Mouth to Headwaters	26C-OWEN0	Flow Modification			NPS Assessment - segment 224: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Camas Ecosystem Analysis (USFS, 1995); S & S Plan (ODFW, 1990); NPS Assessment -segment 224: moderate, observation (DEQ, 1988)	Camas Watershed produces very small numbers of chinook and redd counts remain low, improving habitat conditions (pools, LWD) have been identified as a high priority (Camas Ecosystem Analysis, 1995).		303(d) List	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment -segment 224: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Camas Ecosystem Analysis (USFS, 1995); NPS Assessment -segment 224: severe, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day average of daily maximum of 77 exceeded temperature standard (64) in 1993.		303(d) List	
Pole Creek Mouth to Headwaters	26C-POLE0	Temperature			NPS Assessment -segment 489: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	John Day		Sub	North Fork John Day					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Porter Creek Mouth to Headwaters	26C-PORT0	Habitat Modification			Wall Ecosystem Analysis (USFS, 1995); Salmon & Steelhead Plan (ODFW, 1990)	Steelhead redds have shown declining trends over past few years, habitat factors (pool frequency and depth) did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Sedimentation			Wall Ecosystem Analysis (USFS, 1995)	Steelhead redds have shown declining trends over past few years, cobble embeddedness did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Temperature			Wall Ecosystem Analysis (USFS, 1995)		No supporting data or information	Need Data	
Potamus Creek Mouth to Headwaters	26C-POTA0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment -segment 220: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment -segment 220: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment -segment 220 and 221: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment -segment 220: severe, observation (DEQ, 1988)	USFS Data (4 Sites): 7 day average of daily maximums, Mouth in 1993/94 was 79/86°F ; N of FSR 2105 in 1993/94/95/96 was 72.9/78.8//69/74°F; At lower Kelly Prairie in 1993/94/95/96 was 78.3/77.6/74/70°F and at USFS boundary in 1993/95/96 was 68/67/63°F respectively exceeded temperature standard (64).		303(d) List	

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Rancheria Creek Mouth to Headwaters	26C-RANC0	Flow Modification			NPS Assessment - segment 446: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 446: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 446: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Camas Ecosystem Analysis (USFS, 1995); NPS Assessment -segment 446: severe, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day average of daily maximum of 72/78.4 exceeded temperature standard (64) in 1993/1994 respectively.		303(d) List	
Rudio Creek Mouth to Gilmore Creek	26C-RUDIO	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 148: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assess(88)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 148: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 148: moderate, observation (DEQ, 1988)	BLM Data (Lower BLM Boundary): 7 day average of daily maximum of 67.1 exceeded temperature standard (64) in 1994.		303(d) List	
Salsbury Creek Mouth to Headwaters	26C-SALS0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Skookum Creek Mouth to Headwaters	26C-SKOO0	Habitat Modification			Wall Ecosystem Analysis (USFS, 1995); Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 452: moderate, observation (DEQ, 1988)	Steelhead redds have shown declining trends over past few years, habitat factors (pool frequency and depth) did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Wall Ecosystem Analysis (USFS, 1995)	USFS Data (2 Sites: Below Red Hill and Below Alder Creek): 7 day average of daily maximum of 67.9/nd and 64/69.9 exceeded temperature standard (64) in 1993/1994 respectively.		303(d) List	
Stadler Creek Mouth to Headwaters	26C-STAD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximum of 70.3/73.2/70/73°F exceeded temperature standard (64) in 1993/94/95/96 respectively.		303(d) List	
Stony Creek Mouth to Headwaters	26C-STON0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Swale Creek Mouth to Headwaters	26C-SWAL0	Habitat Modification			Wall Ecosystem Analysis (USFS, 1995); Salmon & Steelhead Plan (ODFW, 1990)	Steelhead redds have shown declining trends over past few years, habitat factors (pool frequency and depth) did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Sedimentation			Wall Ecosystem Analysis (USFS, 1995)	Steelhead redds have shown declining trends over past few years, cobble embeddedness did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data , Wall Ecosystem Analysis (USFS, 1995)	USFS Data (3 Sites): 7 day average of daily maximum, Mouth in 1994/95/96 was 70/70/71°F; Middle in 1993/94/95/96 was 75.1/84.2//79/83°F; Upper - below stock pond in 1993 was 68.6/nd all sites and years exceeded temperature standard (64).		303(d) List	

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Basin <i>John Day</i>		Sub	<i>North Fork John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Taylor Creek Mouth to Headwaters	26C-TAYL0	Habitat Modification			Camas Ecosystem Analysis (USFS, 1995)	Camas Watershed produces very small numbers of chinook and redd counts remain low, improving habitat conditions (pools, LWD) have been identified as a high priority (Camas Ecosystem Analysis, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	Camas Ecosystem Analysis (USFS, 1995)	USFS Data: 8 days exceeded previous standard (68) in 1992 (Camas Ecosystem Analysis, 1995).		303(d) List	
Three Trough Creek Mouth to Headwaters	26C-THRE0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Trail Creek Mouth to Headwaters	26C-TRAI0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 481: moderate, observation (DEQ, 1988); USFS Watershed Analysis for Upper North Fork John Day River 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in fair/good condition. Bank stability was not met. Degradation of stream habitat has reduced the potential for supporting fish.		303(d) List	Addition
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 481: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Watershed Analysis for Upper North Fork John Day River 1997	1994/95 USFS data shows the 7 day ave. max. water temperature of 68.0/66.5°F exceeded the water temperature standard (64°F)		303(d) List	Addition
Trail Creek, Middle Mouth to Headwaters	26C-TRAM0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Upper North Fork John Day River 1997	For PACFISH Management Objectives did not meet pool frequency, but did meet large woody debris objectives. Riparian habitat in fair condition. Bank stability not met.	Did not meet listing criteria	Potential Concern	Status Modification
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near mouth): 7 day average of daily maximum of 58.1/62.4/58.0°F in 1993/94/95 did not exceed temperature standard (64).	Did not meet listing criteria	OK	

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Basin <i>John Day</i>		Sub	<i>North Fork John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Trail Creek, North Mouth to Headwaters	26C-TRAN0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Upper North Fork John Day River 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in fair condition. Bank stability not met. Degradation of stream habitat has reduced the potential for supporting fish.		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near mouth): 7 day average of daily maximum of <64/58.3/69.9/58.4°F in 1992/93/94/95 did not exceed temperature standard (64) except in 1994 a drought year.	Did not meet listing criteria	OK	
Trail Creek, South Mouth to Headwaters	26C-TRAS0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); USFS Watershed Analysis for Upper North Fork John Day River 1997	For PACFISH Management Objectives did not meet pool frequency or large woody debris objectives. Riparian habitat in poor/fair condition. Bank stability was not met. Degradation of stream habitat has reduced the potential for supporting fish.		303(d) List	Addition
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site below Middle Trail Creek): 7 day average of daily maximums of <64 (max of 67) and 58.5/54.9/59.7°F in 1992/93/94/95 exceeded Bull Trout temperature standard (50).		303(d) List	
Wilson Creek Mouth to Headwaters	26C-WILS0	Dissolved Oxygen (DO)			NPS Assessment - segment 453: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 453: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Wall Ecosystem Analysis (USFS, 1995); Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 453: severe, data (DEQ, 1988)	Steelhead redds have shown declining trends over past few years, habitat factors (pool frequency and depth) did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	

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Basin <i>John Day</i>	Sub	<i>North Fork John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26C-WILS0	Sedimentation			Wall Ecosystem Analysis (USFS, 1995)	Steelhead redds have shown declining trends over past few years, cobble embeddedness did not meet PACFISH objectives (Wall Ecosystem Analysis, 1995).		303(d) List	
Mouth to Bull Prairie Lake		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Wall Ecosystem Analysis (USFS, 1995); NPS Assessment - segment 453: severe, data (DEQ, 1988)	USFS Data (2 Sites: At mouth and Below Bull Prairie Lake): 7 day average of daily maximum of 73.7/80/78/80°F and 73.1/75.8/73/72°F respectively exceeded temperature standard (64) in 1993/94/95/96.		303(d) List	
Bull Prairie Lake to Headwaters	26C-WILS10	Temperature		Summer	USFS Data, Wall Ecosystem Analysis (USFS, 1995); NPS Assessment - segment 453: severe, data (DEQ, 1988)	USFS Data (Site above Bull Prairie Lake): 7 day average of daily maximum of 63.4/64.6/62/64°F compared to temperature standard (64) in 1993/94/95/96 respectively.	Did not meet listing criteria	Potential Concern	

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Basin <i>John Day</i>		Sub <i>Upper John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Alder Creek Mouth to Headwaters	26B-ALDE0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
	26B-ROSE0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Antelope Creek Mouth to Headwaters	26B-ANTE0	Flow Modification			NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Badger Creek Mouth to Headwaters	26B-BADG0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: At Forest Boundary and 4.2 miles above Forest Boundary): 106/9 and 13/0 days respectively exceeded previous temperature standard (68) in 1992/1993 (USFS, 1992, 1993).		303(d) List	
Battle Creek Mouth to Headwaters	26B-BATT	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site near lower Crest Gauge): 7 day average of daily maximum of 74.5 with 122 days exceeding temperature standard (64) in 1994. 1997 BLM study also available.		303(d) List	
Bear Creek Mouth to Headwaters	26B-BEAR0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 174: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub		<i>Upper John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Mouth to Headwaters	26B-BEAR0	Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 174: moderate, observation (DEQ, 1988)	OSU Data (Site at mouth): 7 day average of daily maximum of 72 with 39 days exceeding temperature standard (64) in 1993.	No supporting data or information	Need Data	303(d) List
		Temperature	Rearing 64 F (17.8 C)	Summer	OSU Data; NPS Assessment - segment 174: moderate, observation (DEQ, 1988)				
Bear Creek (South Fork drainage)									
Mouth to Headwaters	26B-BEAS0	Flow Modification			NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 159: severe, observation (DEQ, 1988)				
		Sedimentation			NPS Assessment - segment 159: severe, observation (DEQ, 1988)				
		Temperature			NPS Assessment - segment 159: severe, observation (DEQ, 1988)				
Beech Creek									
Mouth to East Fork Beech Creek	26B-BEEC0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 170: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)				
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 170: severe, observation (DEQ, 1988)				
		Temperature			NPS Assessment - segment 170: moderate, observation (DEQ, 1988)				

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Basin <i>John Day</i>	Sub	<i>Upper John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
East Fork Beech Creek to Headwaters	26B-BEEC11	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 172: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 172: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Beech Creek, East Fork Mouth to Headwaters	26B-BEEF0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); ODFW (1995); NPS Assessment - segment 173: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); ODFW (1995)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 173: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Belshaw Creek Mouth to Headwaters	26B-BELSO	Flow Modification			NPS Assessment - segment 168 and 169: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 168 and 169: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 168 and 169: severe, observation (DEQ, 1988)	USFS Data (Site at FSR 486): 7 day average of daily maximum of 71 °F exceeding temperature standard (64) in 1992.		303(d) List	Addition
Berry Creek Mouth to Headwaters	26B-BERR0	Flow Modification			NPS Assessment - segment 184: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub			<i>Upper John Day</i>				
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Birch Creek Mouth to Headwaters	26B-BIRC0	Flow Modification			NPS Assessment - segment 198: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 198: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 198: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Birch Creek, Middle Fork Mouth to Headwaters	26B-BIMF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Forest Boundary): 7 day average of daily maximums of less than 64 with 0 days exceeding previous temperature standard (68) in 1992.	Did not meet listing criteria	OK	
Birch Creek, West Fork Mouth to Headwaters	26B-BIWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Forest Boundary): 7 day average of daily maximums of less than 64 with 0 days exceeding previous temperature standard (68) in 1992.	Did not meet listing criteria	OK	
Black Canyon Creek Mouth to Headwaters	26B-BLAC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (5 Sites: At Forest Boundary and 4 sites upstream): 7 day average of daily maximums of less than 64 with 0 days exceeding previous temperature standard (68) in 1993 at all sites (Annual Monthly Report, USFS, 1993).	Did not meet listing criteria	OK	
Brisbois Creek Mouth to Headwaters	26B-BRIS0	Flow Modification			NPS Assessment - segment 164: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 164: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 164: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub		<i>Upper John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Mouth to Headwaters	26B-BRIS0	Temperature			NPS Assessment - segment 164: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Call Creek									
Mouth to Headwaters	26B-CALL0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	OSU Data	OSU Data (Site at mouth): 7 day average of daily maximum of 49.6 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Canyon Creek									
Mouth to Middle Fork	26B-CANY0	Flow Modification			S & S Plan (ODFW, 1990); WRD Data; ODFW (1995); NPS Assessment - segment 182 and 183: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990); WRD Data; ODFW (1995); NPS Assessment - segment 182: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Headwaters		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 182: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; USFS Data	BLM Data (Site above Canyon City): 7 day average of daily maximums of 66.5/68.4 with 26/87 days exceeding temperature standard (64) in 1993/1994; USFS (at Hwy 65): 7 day average of daily maximums of 66/85 with 5/97 days exceeding standard (64) in 93/94.		303(d) List	
Canyon Creek, East Fork									
Mouth to Headwaters	26B-CAEF0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Canyon Creek, Middle Fork									
Mouth to Headwaters	26B-CAMF0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>Upper John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Corral Creek Mouth to Headwaters	26B-CORR0	Biological Criteria	Benthic Macroinvertebrates		DEQ Biomonitoring Data	DEQ Data (Site 404332; RM 2.0): Bioassessment Index score was 16% of reference site based on data collected between September 1990 - May 1992 (DEQ, 1993).		303(d) List	
					NPS Assessment - segment 163: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
					Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 163: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
			pH	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404330; RM 0.2): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 9.0) between 1991 - 1992.	Did not meet listing criteria	OK	
			Sedimentation		Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 163: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
			Temperature		NPS Assessment - segment 163: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cottonwood Creek Mouth to Headwaters	26B-COTT0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 160: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; USFS Data; NPS Assessment - segment 160: moderate, observation (DEQ, 1988)	BLM Data: 7 day average of daily maximums of 77.2 (2.3 miles above Hwy in 1993) and 78.7 (at crest gage in 1994) exceeded standard (64); USFS Data (At National Forest boundary): 54 days exceeded standard with a maximum of 69 in 1995	303(d) List		

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub		<i>Upper John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Cottonwood Creek, East Fork									
Mouth to Headwaters	26B-COEF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: RM .01 and 1.0): 7 day average of daily maximums of less than 64 with 0 days exceeding previous temperature standard (68) in 1992 at both sites.	Did not meet listing criteria	OK	
Cow Creek									
Mouth to Headwaters	26B-COW0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Forest Boundary): 7 day average of daily maximums of less than 64 with 0 days exceeding previous temperature standard (68) in 1992.	Did not meet listing criteria	OK	
Cummings Creek									
Mouth to Headwaters	26B-CUMM0	Flow Modification			NPS Assessment - segment 167: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 167: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 167: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dads Creek									
Mouth to Headwaters	26B-DADS0	Flow Modification			NPS Assessment - segment 177: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 177: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 177: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	OSU Data	OSU Data (Site at mouth): 7 day average of daily maximum of 68.4 with 26 days exceeding temperature standard (64) in 1993.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub		<i>Upper John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Dans Creek Mouth to Headwaters	26B-DANS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; OSU Data	USFS Data (Site at Forest Boundary): 7 day average of daily maximums of 74/69/82 with 30/14/43 days exceeding standard (64) in 1992/1993/1994; OSU Data (Site at mouth): 7 day average of daily maximum of 76.6 with 56 days exceeded standard (64) in 1993.		303(d) List	
Deardorf Creek Mouth to Headwaters	26B-DEAR0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data; OSU Data - Bull Trout Habitat	USFS Data (Site at lower FSR 13): 7 day average of daily maximums of above 50 exceeding Bull Trout temperature standard (50) in 1990 - 91, 1993 - 94; OSU (Site at mouth): 7 day average of daily maximum of 53.8 exceeded Bull Trout standard (50) in 1993.		303(d) List	
Deer Creek Mouth to Headwaters	26B-DEER0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (3 Sites: 1/8 mile above mouth; 2/5 mile above mouth; at Forest Service Boundary): 7 day average of daily maximums of nd/63.2/nd; 72.3/63.3/71.4; and nd/nd/70.7 exceeding temperature standard (64) in 1992/1993/1994 respectively. 1997 BLM study showed 0/12 temperature measurements did not exceed standard (highest reading 15°C).		303(d) List	
Deer Creek, North Fork Mouth to Headwaters	26B-DENF0	Flow Modification			NPS Assessment - segment 154: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 154: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>John Day</i>	Sub	<i>Upper John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26B-DENF0	Sedimentation			NPS Assessment - segment 154: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 67/<64/67 with 34/0/27 days exceeding temperature standard (64) in 1992/1993/1994.		303(d) List	
Dick Creek									
Mouth to Headwaters	26B-DICK0	Flow Modification			NPS Assessment - segment 151: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 151: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 151: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 151: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dixie Creek									
Mouth to Standard Creek	26B-DIXI0	Flow Modification			S & S Plan (ODFW, 1990); ODFW (1995); NPS Assessment - segment 176: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990); ODFW (1995); NPS Assessment - segment 176: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 176: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 176: severe, observation (DEQ, 1988)	BLM Data (Site above culvert): 7 day average of daily maximum of 60.7 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>Upper John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Dog Creek Mouth to Headwaters	26B-DOG0	Flow Modification			NPS Assessment - segment 181: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	OSU Data	OSU Data (Site at mouth): 7 day average of daily maximum of 67.6 with 37 days exceeding temperature standard (64) in 1993.		303(d) List	
Donivan Creek Mouth to Headwaters	26B-DONI0	Flow Modification			NPS Assessment - segment 602: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 602: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 602: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 602: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Fields Creek Mouth to Big Canyon	26B-FIEL0	Flow Modification			S & S Plan (ODFW, 1990); ODFW (1995); NPS Assessment - segment 187: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990); ODFW (1995); NPS Assessment - segment 187: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 187: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub		<i>Upper John Day</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Big Canyon	26B-FIEL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 187: moderate, observation (DEQ, 1988)	USFS Data (Site at FSR 21): 7 day average of daily maximums of <64/<64/67 with 0/0/32 days exceeding temperature standard (64) in 1992/1993/1994 respectively. 1994 data was not used because it was a drought year and a second year's data was available which was below the temperature criteria.	Did not meet listing criteria	Potential Concern	
Flat Creek (South Fork drainage)									
Mouth to Headwaters	26B-FLAS0	Flow Modification			NPS Assessment - segment 162: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 162: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 162: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 162: severe, observation (DEQ, 1988)	USFS Data (Site T18S-R27E-15): 7 day average of daily maximums of 75 with 60 days exceeding temperature standard (64) in 1994.		303(d) List	
Franks Creek									
Mouth to Headwaters	26B-FRAN0	Flow Modification			NPS Assessment - segment 153: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 153: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 153: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 153: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>John Day</i>	Sub	<i>Upper John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Frazier Creek Mouth to Headwaters	26B-FRAZ0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Forest Boundary): 7 day average of daily maximums of less than 64 with 0/0 days exceeding previous temperature standard (68) in 1991/1994 respectively.	Did not meet listing criteria	OK	
Fry Creek Mouth to Headwaters	26B-FRY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Forest Boundary): 0 days exceeded temperature standard (64) with a maximum of 57 in 1995 (see USFS (1992) for additional data).	Did not meet listing criteria	OK	
Grasshopper Creek Mouth to Headwaters	26B-GRAS0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth T17-R29-5): 7 day average of daily maximum of 69 with 20 days exceeding temperature standard (64) in 1993.		303(d) List	
Grub Creek Mouth to Headwaters	26B-GRUB0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 199: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 199: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	OSU Data; NPS Assessment - segment 199: moderate, observation (DEQ, 1988)	OSU Data (Site at mouth): 7 day average of daily maximum of 74.5 with 46 days exceeding temperature standard (64) in 1993.		303(d) List	
Hall Creek Mouth to Headwaters	26B-HALL0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	

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Basin <i>John Day</i>		Sub		<i>Upper John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Holmes Creek									
Mouth to Headwaters	26B-HOLM0	Flow Modification			NPS Assessment - segment 150: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 150: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 150: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 150: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Indian Creek (nr Prairie City)									
Mouth to Overholt Creek	26B-INDI0	Flow Modification			S & S Plan (ODFW, 1990); ODFW (1995); NPS Assessment - segment 179: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			S & S Plan (ODFW, 1990); ODFW (1995); NPS Assessment - segment 179: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Forest Service Boundary to Headwaters	26B-INDI5	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	Bull Trout Habitat; SWCD data	SWCD data in 1997 at Forest Service Boundary 7 day ave. max. was 56.0°F. Stream temperature is above Bull Trout criteria of 50°F, however, information from USFS indicates that stream is in wilderness area and watershed is unaffected by human activities. Not listed because of natural conditions.	Not list because of natural conditions.	OK	Segment Modification
Indian Creek (nr Prairie City))									
Mouth to RM 3	26B-INDI0	Temperature	Rearing 64 F (17.8 C)	Summer	OSU Data; NPS Assessment - segment 179: severe, observation (DEQ, 1988)	OSU Data (Site at mouth): 7 day average of daily maximum of 74.0 with 40 days exceeding temperature standard (64) in 1993.		303(d) List	Segment Modification

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub		<i>Upper John Day</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
RM 3 to Forest Service Boundary	26B-INDI3	Temperature	Rearing 64 F (17.8 C)	Summer	OSU Data; NPS Assessment - segment 179: severe, observation (DEQ, 1988); SWCD data	SWCD data 1997 water temperature data at 3 sites USFS boundary to Overholt Creek Mid Aug, to Mid Sept. all readings were below 60.0°F.(3 Sites): 7 day average of daily maximum of 56.0/58.0/57°F no exceedence of temperature standard (64).		OK	Removed (5)
Indian Creek (S F John Day)									
Mouth headwaters	26B-INDS0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM Data (Site above road crossing): 7-day average of daily maximum of 63.9 with 4 days exceeding standard (64) in 1994.	Did not meet listing criteria.	OK	Addition
Ingle Creek									
Mouth to Headwaters	26B-INGLO	Flow Modification			NPS Assessment - segment 186: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 186: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 186: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 186: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Isham Creek									
Mouth to Husk Creek	26B-ISHA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Forest Boundary): 7 day average of daily maximums of less than 64 with 0 days exceeding previous temperature standard (68) in 1992, 1993, and 1994.	Did not meet listing criteria	OK	
John Day River									
North Fork to Reynolds Creek	26--JOHN184.7	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 126 and 127: moderate/severe, observation/data (DEQ, 88)	DEQ Data (Site 404158; RM 215.4): 24% (6 of 25) Summer values exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 1986 - 1995.		303(d) List	

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Basin <i>John Day</i>		Sub <i>Upper John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
North Fork to Reynolds Creek	26--JOHN184.7	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 126 and 127: moderate/severe, observation/data (DEQ, 88)	DEQ Data (Site 404158; RM 215.4): 18% (5 of 28) FWS values exceeded fecal coliform standard (400) with a maximum of 2400 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ Data; NPS Assessment - segment 126: severe, observation (DEQ, 88)	DEQ Data (Site 404158; RM 215.4): 0% (0 of 25) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - April 30	DEQ Data	DEQ Data (Site 404158; RM 215.4): 7% (2 of 27) September - April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 7.5 mg/l between WY 1986 - 1995 (cold water spawning, approximately September - April).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - August 31	DEQ Data	DEQ Data (Site 404158; RM 215.4): 32% (9 of 28) May - August values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 3.9 mg/l between WY 1986 - 1995 (cold water rearing, approximately May - August).		303(d) List	
		Flow Modification			IWR (ODFW); S & S Plan (ODFW 1990); Flow Data (USGS, WRD); NPS Assessment - segment 126, 127 and 193: severe/moderate, observation (DEQ, 88)	Spring Chinook and Steelhead production is limited by rearing conditions and increasing flow has been identified as a need (Salmon and Steelhead Plan, 1990); IWR (59798) for fish is frequently not met during summer at gage 14038530.		303(d) List	
		Habitat Modification			NPS Assessment - segment 126, 127 and 193: severe/moderate, observation (DEQ, 88)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 126: moderate, data (DEQ, 88)		No supporting data or information	Need Data	
		pH			Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 126: severe, observation (DEQ, 88)	DEQ Data (Site 404158; RM 215.4): 0% (0 of 26) Summer values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995; 48% (12 of 25) values exceed "study" criteria (8.7).	Did not meet listing criteria	Study

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Basin <i>John Day</i>		Sub		<i>Upper John Day</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
North Fork to Reynolds Creek	26--JOHN184.7	pH		Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 126: severe, observation (DEQ, 88)	DEQ Data (Site 404158; RM 215.4): 0% (0 of 29) FWS values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 126 and 127: severe/moderate, observation (DEQ, 88)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	OSU Data; BLM Data; NPS Assessment - segment 126, 127 and 193: severe/moderate, observation/data (DEQ, 88)	OSU (3 Sites: RM 256; 257; 262): 7 day average of daily maximums of 74.8/71.4/64.7 respectively exceeded standard (64) in 1993; BLM (2 Sites: John Day City; Picture Gorge): 7-day ave of daily max of 74.8/79.8 and 75.5/77.9 exceeded standard (64) in 93-94.		303(d) List	
Reynolds Creek to Headwaters	26--JOHN271.4	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS; OSU Data - Bull Trout Habitat	OSU (2 Sites: RM 271; 278): 7 day average of daily maximums of 62.3 and 54 exceeding Bull Trout standard (50) in 1993; USFS (Site FSR 14): 7 day ave of daily max of >50 (67 in 94) with maximums of 63/58/71 exceeding Bull Trout standard (50) in 1992/93/94		303(d) List	
John Day River, South Fork									
Mouth to Headwaters	26B-JOSF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 134 - 137: moderate, data (DEQ, 1988)	DEQ Data (Site 402697; RM 0.2): 4% (1 of 25) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 134 - 137: moderate, data (DEQ, 1988)	DEQ Data (Site 402697; RM 0.2): 0% (0 of 28) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data; NPS Assessment - segment 134 - 137: moderate, data (DEQ, 1988)	DEQ Data (Site 402697; RM 0.2): 0% (0 of 27) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>		Sub			<i>Upper John Day</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Headwaters	26B-JOSF0	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	March 1 - July 31	DEQ Data	DEQ Data (Site 402697; RM 0.2): 0% (0 of 26) March - July values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1986 - 1995 (cold water spawning, approximately March - July).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	August 1 - February 28	DEQ Data	DEQ Data (Site 402697; RM 0.2): 0% (0 of 31) August - February values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (cold water rearing, approximately August - February).	Did not meet listing criteria	OK		
		Flow Modification				S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 134 - 137: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification				S & S Plan (ODFW, 1990); NPS Assessment - segment 134 - 137: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 134 - 137: severe, data (DEQ, 1988)	DEQ Data (Site 402697; RM 0.2): 0% (0 of 26) Summer values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH			Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 134 - 137: severe, data (DEQ, 1988)	DEQ Data (Site 402697; RM 0.2): 0% (0 of 30) FWS values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation					Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 134 - 137: moderate/severe, data (DEQ, 1988)		No supporting data or information	Need Data

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>John Day</i>	Sub	<i>Upper John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26B-JOSF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; BLM data; DEQ data and (Temperature Issue Paper, 1995); NPS Assessment - segment 134 - 137: severe/moderate, observation DEQ, 1988)	BLM data (2 sites: At mouth and Izee Falls): 7 day average of daily maximums of 76.8/71.6/76.8°F and 72.3/70.3/72.8°F exceeded standard (64) in 1992/93/94 respectively; USFS Data (Site FSR 47): 7 day ave of daily max of 72/78 exceeded standard (64) in 93/94. 1997 BLM study also available. DEQ site at mouth between 1985 and 1995 in the summer months exceeded temperature standard 12/26 times (46%) with a high reading of 28.5 °C in Aug. 1990.		303(d) List	
Keeton Creek Mouth to Headwaters	26B-KEET0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: At Forest Boundary and 1 mi above boundary): 7 day average of daily maximums of less than 64 with 0 days exceeding previous temperature standard (68) in 1992 at both sites.	Did not meet listing criteria	OK	
Laycock Creek Mouth to Fall Creek	26B-LAYC0	Flow Modification			NPS Assessment - segment 185: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 185: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 185: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 185: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Lewis Creek Mouth to Headwaters	26B-LEWI0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 161: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>John Day</i>	Sub	<i>Upper John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26B-LEWI0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 161: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 161: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 161: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Little Pine Creek (Upper John Day)									
Mouth to Headwaters	26B-PILI0	Temperature	Rearing 64 F (17.8 C)	Summer	OSU Data			303(d) List	
Lonesome Creek									
Mouth to Headwaters	26B-LONE0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 159: severe, observation (DEQ, 1988)	USFS Data (Site at FSR 3180): 7 day average of daily maximum of 74.0 with 74 days exceeding temperature standard (64) in 1994.		303(d) List	

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Basin <i>John Day</i>		Sub <i>Upper John Day</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mac Creek Mouth to Headwaters	26B-MAC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Forest Boundary): 7 day average of daily maximum of less than 64 with maximums of 57 and 55 did not exceed temperature standard (64) in 1993 and 1995 respectively (Annual Monthly Report, USFS, 1993).	Did not meet listing criteria	OK	
Magone Lake Lake	26B.MAGO	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (1985); NPS Assessment - segment 511: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (1985); NPS Assessment - segment 511: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Atlas of Oregon Lakes (1985); NPS Assessment - segment 511: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Marks Creek Mouth to Headwaters	26B-MARK0	Flow Modification			NPS Assessment - segment 166: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 166: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 166: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
McClellan Creek Mouth to Headwaters	26B-MCCL0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T12S-R31E-15): 7 day average of daily maximum of 75 with 65 days exceeding temperature standard (64) in 1993.		303(d) List	

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Basin <i>John Day</i>	Sub	<i>Upper John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Morgan Creek Mouth to Headwaters	26B-MORG0	Flow Modification			NPS Assessment - segment 165: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 165: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 165: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 165: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mountain Creek Mouth to Headwaters	26B-MOUN0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 227: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 227: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 227: moderate, observation (DEQ, 1988)	BLM Data (Site at gaging station): 7 day average of daily maximum of 74.6/83.1 with 67/112 days exceeding temperature standard (64) in 1993/1994		303(d) List	
Murderers Creek Mouth to Headwaters	26B-MURD0	Bacteria			NPS Assessment - segment 233: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); WRD Data		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 233: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>John Day</i>		Sub	<i>Upper John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26B-MURD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; BLM Data	BLM Data (Site at mouth): 7 day average of daily maximums of 82.5/75.1/82.6 with 133/76/89 days exceeding standard (64) in 92/93/94 respectively; USFS (Site FSR 2170): 7 day ave of daily max of 71/65/70 exceeding standard (64) in 92/93/94 respectively. 1997 BLM study also available.		303(d) List	
Overholt Creek Mouth to Headwaters	26B-OVER0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T14S-33E-14): 7 day average of daily maximum of less than 64 with 0 days exceeding temperature standard (64) in 1992.	Did not meet listing criteria	OK	
Pine Creek (South Fork) Mouth to Headwaters	26B-PINS0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 157: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 157: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 157: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 157: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pine Creek (Upper John Day) Mouth to Bear Gulch	26B-PINE0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 180: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>John Day</i>	Sub	<i>Upper John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Bear Gulch	26B-PINE0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 180: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	OSU Data; NPS Assessment - segment 180: severe, observation (DEQ, 1988)	OSU Data (Site at mouth): 7 day average of daily maximum of 75.3 with 75 days exceeding temperature standard (64) in 1993.		303(d) List	
Poison Creek Mouth to Headwaters	26B-POIS0	Flow Modification			NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rail Creek Mouth to Headwaters	26B-RAIL0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at Forest Boundary): 7 day average of daily maximum of 66 exceeding Bull Trout temperature standard (50) in 1994 with maximums of 56/55/56/67 recorded in 1990/1991/1992/1994 respectively.		303(d) List	
Reynolds Creek Mouth to Axe Gulch	26B-REYN0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 191: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assess(88)		No supporting data or information	Need Data	

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Basin <i>John Day</i>	Sub	<i>Upper John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26B-REYN0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data; OSU Data - Bull Trout Habitat	USFS Data (2 Sites: Lower and Upper at FSR 2635): 7 day average of daily maximums greater than 50 exceeded Bull Trout temperature standard (50) with maximums of 62/64/nd and 57/54/55 respectively recorded in 1990/1991/1992.		303(d) List	Segment Modification
Reynolds Creek, North Fork									
Mouth to Headwaters	26B-RENF0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at FSR 2635): 7 day average of daily maximum of less than 50 with maximums of 51 did not exceed Bull Trout temperature standard (50) in 1994.	Did not meet listing criteria	OK	
Riley Creek									
Mouth to Headwaters	26B-RILE0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 191: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assess(88)		No supporting data or information	Need Data	
Roberts Creek									
Mouth to Headwaters	26B-ROBE0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Rock Creek									
Mouth to Headwaters	26B-ROCK0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); WRD Data		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); WRD Data		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS (4 Sites above NF Boundary): 7 day ave of daily max of >64 exceeded standard (64) with maximums ranging from 63-75 in 92-93.		303(d) List	
Slife Creek									
Mouth to Headwaters	26B-SLIF0	Temperature	Rearing 64 F (17.8 C)	Summer	OSU Data (1993)	OSU Data (Site at mouth): 7 day average of daily maximum of 73.0 with 40 days exceeding temperature standard (64) in 1993.		303(d) List	

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Basin <i>John Day</i>	Sub	<i>Upper John Day</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Standard Creek Mouth to Headwaters	26B-STAN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site above confluence with Dixie Creek): 7 day average of daily maximum of 59.8 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Strawberry Creek Mouth to Squaw Creek	26B-STRA0	Flow Modification			NPS Assessment - segment 178: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	303(d) List
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; OSU Data	OSU Data (2 Sites: E and W Branch): 7 day average of daily maximums of 67.8/76.7 with 10/42 days respectively exceeding temperature standard (64) in 1993; USFS Data (Lower site): 7 day average of daily maximum of 66 with 7 days exceeding standard in 1993.			
Squaw Creek to Headwaters	26B-STRA5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 6001): 7 day average of daily maximum of <64 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Sunflower Creek Mouth to Headwaters	26B-SUNF0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 155: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 155: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 155: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>John Day</i>	Sub	<i>Upper John Day</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	26B-SUNF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 155: moderate, observation (DEQ, 1988); BLM data	BLM data (Site below road crossing): 7 day average of daily maximum of 65.0°F with 6 days exceeding temperature standard (64) in 1994; USFS Data (Site at Forest Boundary): 7 day average of daily maximum of >64 with a maximum of 69 recording in 1994. 1997 BLM study also available.		303(d) List	
Tex Creek									
Mouth to Headwaters	26B-TEX0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Tinker Creek									
Mouth to Headwaters	26B-TINK0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 3620): 7 day average of daily maximums of 75/79/78 with 63/50/53 days exceeding temperature standard (64) in 1990/1992/93 respectively.		303(d) List	
Utley Creek									
Mouth to Headwaters	26B-UTLE0	Biological Criteria	Benthic Macroinvertebrates		DEQ Biomonitoring Data	DEQ Data (2 Sites: 404326, 404327; RM 2.2, 3.5): Bioassessment Index score was 45% and 40% respectively of reference site based on data collected between September 1990 - May 1992 (DEQ, 1993).		303(d) List	
		Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 158: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 158: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 158: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>John Day</i>		Sub		<i>Upper John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Mouth to Headwaters	26B-UTLE0	Temperature			NPS Assessment - segment 158: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Vance Creek									
Mouth to Headwaters	26B-VANC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 65): 7 day average of daily maximum of less than 64 with 0 days exceeding temperature standard (64) and a maximum of 56 recorded in 1993.	Did not meet listing criteria	OK	
Venator Creek									
Mouth to Headwaters	26B-VENA0	Flow Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Salmon & Steelhead Plan (ODFW, 1990); NPS Assessment - segment 159: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 159: severe, observation (DEQ, 1988)	USFS Data (Site at FSR 3150): 7 day average of daily maximum of 78 with 96 days exceeding temperature standard (64) in 1994.		303(d) List	
Vestor Creek									
Mouth to Headwaters	26B-VEST0	Habitat Modification			Salmon & Steelhead Plan (ODFW, 1990)		No supporting data or information	Need Data	
Wildcat Creek									
Mouth to Santa Claus Springs	26B-WILD0	Habitat Modification			NPS Assessment - segment 156: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 156: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>John Day</i>		Sub		<i>Upper John Day</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Mouth to Santa Claus Springs	26B-WILD0	Temperature			NPS Assessment - segment 156: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wind Creek									
Mouth to Headwaters	26B-WIND0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximum of 73.3 with 85 days exceeding temperature standard (64) in 1994.		303(d) List	

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Basin <i>Klamath</i>		Sub		Lost		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Antelope Creek										
Mouth to RM 1	43E-ANTE0	Temperature	Rearing 64 F (17.8 C)	Summer		BLM data	BLM data : 7 day average of daily maximums in 1997 at lower site 79.5°F exceeded temperature standard (64). Lower mile water quality limited.		303(d) List	Addition
RM 1 to Headwaters	43E-ANTE1	Temperature	Rearing 64 F (17.8 C)	Summer		BLM data	BLM data: 7 day average of daily maximums in 1997 at upper site 61.9°F did not exceeded temperature standard (64).	Did not meet listing criteria	OK	Addition
Barnes Valley Creek										
Mouth to Headwaters	43E-BARN0	Flow Modification				NPS Assessment - segment 47 and 308: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification				NPS Assessment - segment 47 and 308: severe, data (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
		Sedimentation				NPS Assessment - segment 47 and 308: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data; NPS Assessment - segment 47 and 308: severe, data (DEQ, 1988); BLM data	USFS Data (Site BV5135, 39-15-20 sesw): 7 day average of daily maximums exceeded temperature standard (64) for 60 and 82 7-day periods in 1994 and 1995 respectively. BLM data in 1996 was 78.1°F, in 1997 was 78.4°F.		303(d) List	
Buck Creek										
Mouth to Headwaters	43E-BUCK0	Habitat Modification				NPS Assessment - segment 49: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Bumphead Reservoir										
Reservoir	43E.BUMP	Aquatic Weeds or Algae	Algae			Atlas of Oregon Lakes (1985); NPS Assessment - segment 329: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Gerber Reservoir										
Reservoir	43E.GERB	Aquatic Weeds or Algae	Algae			Atlas of Oregon Lakes (1985); NPS Assessment - segment 331: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Klamath</i>		Sub <i>Lost</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Reservoir	43E.GERB	Nutrients			NPS Assessment - segment 331: moderate, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data		
Horse Canyon Creek Mouth to Headwaters	43E-HORS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site HC4885): 7 day average of daily maximums exceeded temperature standard (64) for 101 and 38 7-day periods in 1994 and 1995 respectively.		303(d) List		
Klamath River Keno Dam to Link River	43E-KLAM231.6	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402442; RM 234.2): 0% (0 of 26) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (3 Sites: 402442, 404276, 404238; RM 234.2, 240.5, 252.0): 0% (0 of 25), 20% (1 of 5), 25% (2 of 8) Summer values respectively exceeded fecal coliform standard (400) with maximums of 600, 1580 between WY 1986 - 1995. Did not meet minimum data requirements "a minimum of at least two exceedences for a season is need to list", this condition was not met.	Did not meet listing criteria	OK		
		Chlorophyll a			Summer	DEQ Data; d1 in 305(b) Report (DEQ,1994); NPS Assessment - segment 3, 4 and 5: severe, data (DEQ, 1988)	DEQ Data (14 Sites; RM 234.2 - 251.2): Sites ranged from 38 - 86% with (3 - 17 of 5 - 39) Summer values exceeding chlorophyll a standard (15 ug/l) with maximum values of 17 - 320 between WY 1986 - 1995.		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l		April 1 - November 30	DEQ Data; d1 in 305(b) Report (DEQ,1994); NPS Assessment - segment 3, 4 and 5: severe, data (DEQ, 1988), TMDL data	DEQ Data (Site 402442; RM 234.2): 34% (28 of 83) Annual data exceeded minimum dissolved oxygen standard (4.0 mg/l) with a minimum of 0.7 mg/l between WY 1986 - 1995 (Cool water fishery, annually). Additional data collected for the development of the TMDL shows violations of the DO standard only occur April through November. Season of concern		303(d) List	Segment Modification

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Klamath</i>		Sub <i>Lost</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Keno Dam to Link River	43E-KLAM231.6	Flow Modification			NPS Assessment - segment 3 and 4: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients			NPS Assessment - segment 5: severe, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data		
		pH			DEQ Data	Fall-Winter-Spring	DEQ Data (Site 402442; RM 234.2): 0% (0 of 28) FWS values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH			DEQ Data; d1 in 305(b) Report (DEQ,1994); NPS Assessment - segment 3 and 4: severe, data (DEQ, 1988)	Summer	DEQ Data (15 Sites; RM 234.2 - 252.0): 5 - 55% (1 - 12 of 6 - 43) Summer values exceeded pH maximum standard (6.5 - 9.0) with a maximum value of 10.0 between WY 1986 - 1995.		303(d) List	
		Sedimentation			NPS Assessment - segment 3 and 5: severe, data/observation (DEQ, 1988)			No supporting data or information	Need Data	
		Temperature	Protection of Resident Fish and Aquatic Life			DEQ Data (Temperature Issue Paper, 1995); NPS Assessment - segment 3, 4 and 5: moderate, data (DEQ, 1988)	Summer	There shall be no measurable increase in temperature in Oregon waters when the dissolved oxygen (DO) levels are within 0.5 mg/l or 10 percent of the water column or intergravel DO criterion for a given stream reach or subbasin; DO values exceed standard.		303(d) List
		Toxics				NPS Assessment - segment 3 and 4: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Toxics		Water (Ammonia)		DEQ Data	Summer and Winter	DEQ Data (Site 402442; RM 234.2): 49%(34 of 69)/1%(1 of 69) Summer values exceeded chronic/acute un-ionized ammonia criteria (non-salmonid) from WY 86 - 95; 41%(29 of 70)/0%(0 of 70) exceeded chronic/acute total ammonia criteria (non-salmonid) from 86-95. Data for TMDL development shows problem in winter as well.		303(d) List		

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Basin <i>Klamath</i>		Sub <i>Lost</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Klamath Strait Klamath River to California Border	43E-KLAS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ,1994)	DEQ Data (Site 402440; RM 2.0): 26% (6 of 23) Summer values exceeded fecal coliform standard (400) with a maximum of 1100 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402440; RM 2.0): 0% (0 of 25) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data; d1 in 305(b) Report (DEQ,1994)	DEQ Data (Site 402440; RM 2.0): 55% (18 of 33) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum of 450 between WY 1986 - 1995.		303(d) List	
		Dissolved Oxygen (DO)	Warm-water aquatic life: DO < 5.5 mg/l	Year Around	DEQ Data; d1 in 305(b) Report (DEQ,1994)	DEQ Data (Site 402440; RM 2.0): 33% (21 of 64) Annual data exceeded minimum dissolved oxygen standard (4.0 mg/l) with a minimum of 0.5 mg/l between WY 1986 - 1995 (Warm water fishery, annually).		303(d) List	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402440; RM 2.0): 0% (0 of 27) FWS values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data; d1 in 305(b) Report (DEQ,1994)	DEQ Data (Site 402440; RM 2.0): 31% (11 of 36) Summer values exceeded pH maximum standard (6.5 - 9.0) with a maximum of 9.6 between WY 1986 - 1995.		303(d) List	
		Temperature	Protection of Resident Fish and Aquatic Life	Summer	DEQ Data (Temperature Issue Paper, 1995)	There shall be no measurable increase in temperature in Oregon waters when the dissolved oxygen (DO) levels are within 0.5 mg/l or 10 percent of the water column or intergravel DO criterion for a given stream reach or subbasin; DO values exceed standard.		303(d) List	

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Basin <i>Klamath</i>		Sub		Lost		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Klamath River to California Border	43E-KLAS0	Toxics	Water (Ammonia)	Summer		DEQ Data	DEQ Data (Site 402440; RM 2.0): 49%(28 of 57)/0%(0 of 57) Summer values exceeded chronic/acute un-ionized ammonia criteria (non-salmonid) between WY 86-95; 35%(20 of 57)/0%(0 of 57) exceeded chronic/acute total ammonia criteria (non-salmonid) in WY 86-95.		303(d) List	
Lapham Creek Mouth to Headwaters	43A-LAPH0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data	USFS Data (Site LP5190, 39-16-18 senw): 7 day average of daily maximums exceeded temperature standard (64) for 87 and 76 7-day periods in 1994 and 1995 respectively.		303(d) List	
Link River Lake Ewauna to Klamath Lake	43E-LINK0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring		DEQ Data	DEQ Data (Site 402445; RM 0.1): 0% (0 of 28) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer		DEQ Data	DEQ Data (Site 402445; RM 0.1): 0% (0 of 23) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer		DEQ Data; d1 in 305(b) Report (DEQ,1994); NPS Assessment - segment 516: severe, data (DEQ, 1988)	DEQ Data (Site 402445; RM 0.1): 70% (23 of 33) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 350 between WY 1986 - 1995.		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around		DEQ Data	DEQ Data (Site 402445; RM 0.1): 0% (0 of 67) Annual data exceeded cool water dissolved oxygen standard (5.5 mg/l) between WY 1986 - 1995 (Cool water fishery, annually).	Did not meet listing criteria	OK	
		Flow Modification				NPS Assessment - segment 516: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients				NPS Assessment - segment 516: severe, data (DEQ, 1988)		No nutrient criteria or standard established	Need Data	

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Basin <i>Klamath</i>		Sub		<i>Lost</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Season						
Lake Ewauna to Klamath Lake	43E-LINK0	pH		Fall-Winter-Spring		DEQ Data; d1 in 305(b) Report (DEQ,1994)	DEQ Data (Site 402445; RM 0.1): 10% (3 of 29) FWS values exceeded pH maximum standard (6.5 - 9.0) with a maximum value of 9.8 between WY 1986 - 1995.	Did not meet listing criteria	OK		
		pH		Summer		DEQ Data; d1 in 305(b) Report (DEQ,1994); NPS Assessment - segment 516: severe, data (DEQ, 1988)	DEQ Data (Site 402445; RM 0.1): 86% (30 of 35) Summer values exceeded pH maximum standard (6.5 - 9.0) with a maximum value of 10.4 between WY 1986 - 1995.			303(d) List	
		Sedimentation					NPS Assessment - segment 516: severe, data (DEQ, 1988)		No supporting data or information		Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer			DEQ Data (Temperature Issue Paper, 1995); NPS Assessment - segment 516: moderate, data (DEQ, 1988)	DEQ Data (Site 402445; RM 0.1): 74% (26 of 35) Summer values exceeded temperature standard (64) with values exceeding each year between WY 1986 - 1995; 7 day average of daily maximum of 74.0 with 51 days exceeding standard in 1995.			303(d) List
		Toxics	Water (Ammonia)	Summer			DEQ Data	DEQ Data (Site 402445; RM 0.1): 4%(2 of 56)/0%(0 of 56) Summer values exceeded chronic/acute un-ionized ammonia criteria (salmonid) from WY 86 - 95; 4%(2 of 56)/0%(0 of 56) Summer values exceeded chronic/acute total ammonia criteria (salmonid) from 86-95.	Did not meet listing criteria	OK	
Long Branch Creek											
Mouth to Headwaters	43E-LONG0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data	USFS Data (Site LB5180): 7 day average of daily maximums exceeded temperature standard (64) for 85 7-day periods in 1995.			303(d) List	
Lost River											
California Border to California Border	43E-LOST0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer		DEQ Data; d1 in 305(b) Report (DEQ,1994); NPS Assessment - segment 44: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402435, 402436; RM 7.7, 12.1): 50% (3 of 6), 40% (2 of 5) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.			303(d) List	

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Basin	Sub	Lost	Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Klamath			California Border to California Border	43E-LOST0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ,1994); NPS Assessment - segment 44: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402435, 402436; RM 7.7, 12.1): 19% (3 of 16), 14% (1 of 7) FWS values exceeded fecal coliform standard (400) between 1993 - 1995.		303(d) List	
					Chlorophyll a		Summer	DEQ Data; d1 in 305(b) Report (DEQ,1994); NPS Assessment - segment 44: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402435, 402436; RM 7.7, 12.1): 25% (2 of 8), 40% (2 of 5) Summer values exceeded chlorophyll a standard (15 ug/l) with maximum values of 17, 31 respectively between WY 1986 - 1995.		303(d) List	
					Dissolved Oxygen (DO)	Warm-water aquatic life: DO < 5.5 mg/l	Year Around	DEQ Data; d1 in 305(b) Report (DEQ,1994)	DEQ Data (Site 402435; RM 7.7): 13% (3 of 24) Annual data exceeded minimum dissolved oxygen standard (4.0 mg/l) with a minimum of 1.6 mg/l between WY 1986 - 1995 (Warm water fishery, annually).		303(d) List	
					Flow Modification			NPS Assessment - segment 44: severe, data (DEQ, 1988)	No supporting data or information	Need Data		
					Habitat Modification			NPS Assessment - segment 44: severe, data (DEQ, 1988)	No supporting data or information	Need Data		
					Nutrients			NPS Assessment - segment 44: severe, data (DEQ, 1988)	No nutrient criteria or standard established	Need Data		
					pH		Summer	DEQ Data; d1 in 305(b) Report (DEQ,1994)	DEQ Data (2 Sites: 402435, 402436; RM 7.7, 12.1): 0% (0 of 7, 6) Summer values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
					pH		Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites: 402435, 402436; RM 7.7, 12.1): 0% (0 of 16, 9) FWS values exceeded pH standard (6.5 - 9.0) between 1993 - 1995.	Did not meet listing criteria	OK	
					Sedimentation			NPS Assessment - segment 44: severe, data (DEQ, 1988)	No supporting data or information	Need Data		
					Temperature	Protection of Resident Fish and Aquatic Life	Summer	DEQ Data (Temperature Issue Paper, 1995); NPS Assessment - segment 44: moderate, data (DEQ, 1988)	There shall be no measurable increase in temperature in Oregon waters when the dissolved oxygen (DO) levels are within 0.5 mg/l or 10 percent of the water column or intergravel DO criterion for a given stream reach or subbasin; DO values exceed standard.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Klamath</i>		Sub		Lost		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
California Border to California Border	43E-LOST0	Total Dissolved Gas				NPS Assessment - segment 44: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Water (Ammonia)	Summer		DEQ Data	DEQ Data (Site 402435; RM 7.7): 0% (0 of 21) Summer values exceeded chronic and acute un-ionized ammonia criteria (non-salmonid) between WY 86 - 95; 0% (0 of 21) Summer values exceeded chronic and acute total ammonia criteria (non-salmonid) from 86 - 95.	Did not meet listing criteria	OK	
		Toxics	Pesticides				NPS Assessment - segment 44: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Lost River Reservoir Reservoir	43E.LOST	Chlorophyll a		Summer		DEQ Data; d1 in 305(b) Report (DEQ,1994); Atlas of Oregon Lakes (1985); NPS Assessment - segment 327: moderate, observation (DEQ, 1988)	Considered as part of the Lost River, see Lost River from California Border to California Border for supporting data.		303(d) List	
		Dissolved Oxygen (DO)	Warm-water aquatic life: DO < 5.5 mg/l	Summer		DEQ Data	Considered as part of the Lost River, see Lost River from California Border to California Border for supporting data.		303(d) List	
		Nutrients				NPS Assessment - segment 327: moderate, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
		pH		Summer		DEQ Data; d1 in 305(b) Report (DEQ,1994); Atlas of Oregon Lakes (1985); NPS Assessment - segment 327: moderate, observation (DEQ, 1988)	Considered as part of the Lost River, see Lost River from California Border to California Border for supporting data.		303(d) List	
Miller Creek Lost River to Gerber Reservoir	43E-MILL0	Habitat Modification				NPS Assessment - segment 45: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 45 and 46: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Klamath</i>	Sub	<i>Lost</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lost River to Gerber Reservoir	43E-MILL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 45: moderate, data (DEQ, 1988)	BLM Data (2 Sites: 39S-13E-13 and 39S-13E-33): 7 day average of daily maximums of greater than 64 exceeded temperature standard (64) in 1994. In 1997 lower site was 72.3°F, upper site in 1996 was 66.7°F and in 1997 was 69.6°F.		303(d) List	
Round Valley Reservoir Reservoir	43E.ROUN	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (1985); NPS Assessment - segment 328: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (1985); NPS Assessment - segment 328: moderate, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
Spring Lake Reservoir	43E.SPRI	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (1985); NPS Assessment - segment 326: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (1985); NPS Assessment - segment 326: moderate, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
Willow Creek, North Fork Mouth to Headwaters	43E-WINFO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near California Border): 7 day average of daily maximums of >64 were measured in 1992 - 1994.		303(d) List	
Willow Valley Reservoir Reservoir	43E.WILL	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (1985); NPS Assessment - segment 330: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (1985); NPS Assessment - segment 330: moderate, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data	

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Basin <i>Klamath</i>			Sub	<i>Sprague</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Boulder Creek Mouth to Headwaters	43A-BOUL0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (3 Sites: BC5120; BC5290; BC5450, 35-15-22 nwse): 7 day average of daily maximums exceeded Bull Trout temperature standard (50) for nd/115; nd/4; and 80/6 7-day periods in 1993/1994 respectively.		303(d) List	
Brownsworth Creek Mouth to Hammond Creek	43A-BROW0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site BW4540, 37-15-2 senw): 7 day average of daily maximums exceeded temperature standard (64) for 73/0/8 7-day periods in 1992/1993/1995 respectively.		303(d) List	
Hammond Creek to Headwaters	43A-BROW4	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (4 Sites: BW5100; BW5525, 36-16-21sww; BW6070; BW6280, 36-16-8 sesw): 7 day average of daily maximums exceeded Bull Trout standard (50) for nd/nd/nd/119; 18/120/105/1; nd/nd/nd/123; and nd/nd/63/111 7-day periods in 90/91/93/94 respectively.		303(d) List	
Buckboard Creek Mouth to Headwaters	43A-BUCK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site BB5090, 37-16-2 nsw): 7 day average of daily maximums exceeded temperature standard (64) for 35 7-day periods in 1991.		303(d) List	
Calahan Creek Mouth to Hammond Creek	43A-CALA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site BW4540, 37-15-2 senw): 7 day average of daily maximums exceeded temperature standard (64) for 73/0/8 7-day periods in 1992/1993/1995 respectively.		303(d) List	

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Basin <i>Klamath</i>			Sub	<i>Sprague</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Camp Creek Mouth to Headwaters	43A-CAMP0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site CA5870, 36-16-14 nesw): 7 day average of daily maximums exceeded temperature standard (64) for 31 and 0 7-day periods in 1994 and 1995 respectively. 1991 data was not used because it was a drought year and a second year's data was available which was below the temperature criteria.	Did not meet listing criteria	Potential Concern	
Copperfield Draw Mouth to Headwaters	43A-COPP0	Sedimentation		Summer	NPS Assessment - segment 50: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Corral Creek Mouth to Headwaters	43A-CORR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site CR5960, 36-16-11 sese): 7 day average of daily maximums exceeded temperature standard (64) for 0 7-day periods in 1994.	Did not meet listing criteria	OK	
Coyote Creek Mouth to Headwaters	43A-COY00	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 31S-13E-27swne): 7 day average of daily maximums of 70.8 with 47 days exceeding temperature standard (64) in 1993.		303(d) List	
Deming Creek Mouth to Campbell Reservoir Diversion	43A-DEMI0	Temperature	Rearing 64 F (17.8 C)		USFS Data	USFS Data (2 Sites: DG4400; DG5010): 7 day average of daily maximums exceeded temperature standard (64) for 110/nd and 0/10 7-day periods in 1994/1995 respectively.		303(d) List	
Campbell Reservoir Diversion to Headwaters	43A-DEMI7	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (2 Sites: DG5090, 36-15-16; DG5360, 36-15-10): 7 day average of daily maximums exceeded Bull Trout temperature standard (50) for 110/nd/110/115/nd; nd/nd/79/128/83 7-day periods in 91/92/93/94/95 respectively. Data available for 5 other sites.		303(d) List	

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Basin <i>Klamath</i>	Sub	<i>Sprague</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Devil Lake Lake	43A.DEVI	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (1985); NPS Assessment - segment 332: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (1985); NPS Assessment - segment 332: moderate, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
Fishhole Creek Mouth to Headwaters	43A-FISH0	Flow Modification			NPS Assessment - segment 31 and 32: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 31 and 32: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 31 and 32: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 31 and 32: severe, data (DEQ, 1988)	USFS Data (2 Sites: FH4730, 38-15-4 swnw; FH4875, 38-15-9 nwse): 7 day average of daily maximums exceeded temperature standard (64) for nd/132/109/137/24; 25/112/79/88/93 7-day periods in 1991/92/93/94/95 respectively.		303(d) List	
Fivemile Creek Mouth to Headwaters	43A-FIVE0	Flow Modification			NPS Assessment - segment 38: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 38: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 37 and 38: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Klamath</i>	Sub	<i>Sprague</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	43A-FIVE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 38: moderate, observation (DEQ, 1988)	USFS Data (Site FM4565, 35-13-24 swse): 7 day average of daily maximums exceeded temperature standard (64) for 0/97/106/103 7-day periods in 1992/93/94/95 respectively.		303(d) List	
Leonard Creek Mouth to Headwaters	43A-LEON0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data	USFS Data (Sites: LE5440, 36-16-20 NWSW): 7 day average of daily maximums exceeded Bull trout temperature standard (64) for 0/105/168/100/0/88/90; 7-day periods in 1990/91/92/93/94/95/96 respectively.		303(d) List	Addition
Long Creek (Sycan Marsh) Sycan Marsh to Calahan Creek	43A-LONG0	Habitat Modification			NPS Assessment - segment 48: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 48: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; (Bull Trout Habitat in upper portion of creek); NPS Assessment - segment 48: moderate, observation (DEQ, 1988)	USFS Data (Site LB5180): 7 day average of daily maximums exceeded temperature standard (64) for 87 7-day periods in 1995.		303(d) List	
Meryle Creek Mouth to Headwaters	43A-MERY0	Flow Modification			NPS Assessment - segment 36: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 36: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)		NPS Assessment - segment 36: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Obenchain Reservoir Reservoir	43A.OBEN	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (1985); NPS Assessment - segment 333: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Klamath</i>	Sub	<i>Sprague</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Reservoir	43A.OBEN	Dissolved Oxygen (DO)			Atlas of Oregon Lakes (1985); NPS Assessment - segment 333: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 333: moderate, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
Paradise Creek Mouth to Headwaters	43A-PARA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site PD5660, 33-15-22): 7 day average of daily maximums exceeded temperature standard (64) for 17/51/25 7-day periods in 1993/1994/1995 respectively.		303(d) List	
Pothole Creek Mouth to Headwaters	43A-POTH0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site PH5380, 37-16-12 swnw): 7 day average of daily maximums exceeded temperature standard (64) for 31 7-day periods in 1994.		303(d) List	
Sprague River Mouth to North/South Fork	43A-SPRA0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 24 - 28: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Klamath Tribe Data (1992)	Klamath Tribe Data (Site at Braymill): Diurnal values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 4.0 mg/l and daily exceedences measured in diurnal studies conducted in June and July, 1992.		303(d) List	
		Flow Modification			NPS Assessment - segment 24 - 28: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 24 - 28: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 24 - 28: severe/moderate, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data	

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Basin <i>Klamath</i>	Sub	<i>Sprague</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to North/South Fork	43A-SPRA0	pH		Summer	Klamath Tribe Data (1992)	Klamath Tribe Data (Site at Braymill): Diurnal values exceeded pH standard (6.5 to 9.0) with a maximum of 9.6 and daily exceedences measured in diurnal studies conducted in June and July, 1992.		303(d) List	
		Sedimentation			NPS Assessment - segment 24 - 28: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (upstream); DEQ Data; Klamath Tribe; NPS Assessment - segment 24 - 28: severe, observation (DEQ, 1988)	Klamath Tribe Data (3 Sites: At Braymill - RM 8; RM 29; and RM 33): 7 day average of daily maximums of 83.8 (1990); 77.7 (1991); and 76.6 (1991) exceeded temperature standard (64) respectively.		303(d) List	
Sprague River, North Fork									
Mouth to Headwaters	43A-SPNF0	Flow Modification			NPS Assessment - segment 33: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 33, 34 and 35: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 33, 34 and 35: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Dead Cow Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 33: severe, observation (DEQ, 1988)	USFS Data (4 Sites: NS6045, 34-16-30; NS6140, 34-16-19; NS6200 34-16-20; NS6230, 34-16-28): 7 day average of daily maximums exceeded standard (64) for 111/42/84/110; 63 (in 95); nd/nd/55/34; nd/nd/19/2 7-day periods in 1992/93/94/95 respectively.		303(d) List	
Dead Cow Creek to Headwaters	43A-SPNF29	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 33: severe, observation (DEQ, 1988)	USFS Data (Site NS6270, 34-16-33): 7 day average of daily maximums exceeded temperature standard (64) for 0 and 0 7-day periods in 1994 and 1995 respectively.	Did not meet listing criteria	OK	

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Basin <i>Klamath</i>	Sub	<i>Sprague</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Sprague River, South Fork									
Mouth to Whitworth Creek	43A-SPSF0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 29: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 29: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 29 and 30: severe/moderate, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
		Nutrients			NPS Assessment - segment 29: moderate, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
		Sedimentation			NPS Assessment - segment 29 and 30: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Camp Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 29 and 30: severe/moderate, observation (DEQ, 1988)	USFS Data (4 Sites: SS4400, 37-15-8; SS4540, 37-15-2; SS5090 37-16-3; SS5510, 36-16-35): 7 day average of daily maximums exceeded standard (64) for 42/0/85/79; 101/69/57/74; 47/1/nd/27; and nd/nd/29/nd 7-day periods in 1992/93/94/95 respectively.		303(d) List	
Camp Creek to Headwaters	43A-SPSF29.6	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 29 and 30: severe/moderate, observation (DEQ, 1988)	USFS Data (Site SS5870, 36-16-14 nesw): 7 day average of daily maximums exceeded temperature standard (64) for 0 and 0 7-day periods in 1993 and 1995 respectively.	Did not meet listing criteria	OK	
Sycan River									
Mouth to Sycan Marsh	43A-SYCA0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 39 - 42: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 39 - 42: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 39 - 42: moderate/severe, data/observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Klamath</i>	Sub	<i>Sprague</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Sycan Marsh	43A-SYCA0	Habitat Modification			NPS Assessment - segment 39 - 42: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 39 - 42: moderate, data (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
		Sedimentation			NPS Assessment - segment 39 - 42: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Rock Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 39 - 42: severe, data (DEQ, 1988)	USFS Data (2 Sites: SY5015, 32-14-22; and SY5650 33-15-22): 7 day average of daily maximums exceeded temperature standard (64) for 131/66/75/80 and nd/nd/56/38 7-day periods in 1992/93/94/95 respectively.		303(d) List	Segment Modification
Trout Creek Mouth to Headwaters	43A-TROU0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 35S-9E-35nwse): 7 day average of daily maximums of 69.0 and 75.8 with 29 and 101 days exceeding temperature standard (64) in 1993 and 1994 respectively.		303(d) List	

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Basin <i>Klamath</i>		Sub <i>Upper Klamath</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Beaver Creek Mouth to Talent Irrigation District Ditch		43D-BEAV0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; FOG Data	BLM Data (Site 40S-4E-5): 7 day average of daily maximums of 73.3 with 65 exceeding temperature standard (64) in 1994. BLM and FOG data for other sites available.	303(d) List	
Clover Creek Mouth to Wilderness Boundary		43D-CLOV0	Biological Criteria Habitat Modification			Spencer Creek Watershed Analysis (USFS, 1995) Spencer Creek Watershed Analysis (USFS, 1995)	Spencer Creek system provides spawning and rearing habitat to the Klamath R Redband trout, a sensitive population; Habitat modification (lack of LWD and loss of pool habitat) has been identified as a concern (Spencer Creek Watershed Analysis, USFS, 1995).	No supporting data or information	Need Data
			Sedimentation			Spencer Creek Watershed Analysis (USFS, 1995)	Spencer Creek system provides spawning and rearing habitat to the Klamath River Redband trout, a sensitive population; sedimentation has been identified as a concern (Spencer Creek Watershed Analysis, USFS, 1995).		303(d) List
			Temperature			Spencer Creek Watershed Analysis (USFS, 1995)		No supporting data or information	Need Data
Corral Creek Mouth to Talent Irrigation District Ditch		43D-CORR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; FOG Data	BLM Data (Site 40S-4E-5): 7 day average of daily maximums of 76.7 with 78 exceeding temperature standard (64) in 1994. BLM and FOG data for other sites available.	303(d) List	
Grizzly Creek Mouth to Howard Prarie Reservoir		43D-GRIZ0	Temperature	Rearing 64 F (17.8 C)	Summer	FOG Data	FOG Temperature data for 1997 shows 7 day Ave. Max 66.2°F, exceeded 64°F, 28 times	303(d) List	Addition
Hoxie Creek Mouth to Headwaters		43D-HOXI0	Temperature	Rearing 64 F (17.8 C)	Summer	FOG/BLM Data	Temperature data 7 day Ave. Max 70.2°F, exceeded 64°F, 24 times	303(d) List	Addition

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Basin <i>Klamath</i>		Sub <i>Upper Klamath</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Hyatt Lake Reservoir	43D.HYAT	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (1985); NPS Assessment - segment 337: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (1985); NPS Assessment - segment 337: severe, data (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
J.C. Boyle Reservoir Reservoir	43D.JCBO	Chlorophyll a		Summer	DEQ Data; Atlas of Oregon Lakes (1985); NPS Assessment - segment 325: severe, observation (DEQ, 1988)	Considered as part of the Klamath River, see Klamath River from Keno Dam to the Link River for supporting data.		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Summer	DEQ Data; Atlas of Oregon Lakes (1985)	Considered as part of the Klamath River, see Klamath River from Keno Dam to the Link River for supporting data.		303(d) List	
		Nutrients			Atlas of Oregon Lakes (1985); NPS Assessment - segment 325: severe, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
		pH		Summer	DEQ Data; Atlas of Oregon Lakes (1985)	Considered as part of the Klamath River, see Klamath River from Keno Dam to the Link River for supporting data.		303(d) List	
Jenny Creek Mouth to Grizzly Creek	43D-JENNO	Sedimentation			NPS Assessment - segment 11: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Mouth to Grizzley Creek	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; FOG Data; NPS Assessment - segment 11: moderate, observation (DEQ, 1988)	BLM Data (2 Sites: 40S-4E-33; 40S-4E-21): 7 day average of daily maximums of 81.1/82.2/80.5/84.2/79.9 and 77.8/74.7/75.5/72.0/71.9 exceed temperature standard (64) in 1991/92/93/94/95 respectively. BLM and FOG data for other sites available.		303(d) List
Jenny Springs Creek (Grizzly Creek) Mouth to Headwaters	43D-JESP0	Temperature	Rearing 64 F (17.8 C)	Summer	FOG data	FOG data showed no temperature exceedences 7 day Ave. Max. 55.7°F	Did not meet listing criteria	OK	Addition

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Basin <i>Klamath</i>		Sub <i>Upper Klamath</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Johnson Creek Mouth to Headwaters	43D-JOHN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; FOG Data	FOG Data (Site near mouth): 7 day average of daily maximums of greater than 64 exceed temperature standard (64) in 1990 - 1991. BLM Grab sample data also available.		303(d) List	
Keene Creek Mouth to Keene Creek Reservoir	43D-KEEN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at BLM line Section 17 below Lincoln Creek): 7 day average of daily maximums of 63.6/67.1/69.0°F for years 1995/1996/1997. Two of three years exceed temperature standard		303(d) List	Addition
Keene Creek Reservoir to Little Max 72.1°F, Hyatt Reservoir	303(d) List	43D-KEEN7.5	Temperature Addition (17.8 C)	Rearing 64 F	Summer	FOG Data exceeded 64°F, 68 times at Little Hyatt Dam and @ Fletcher's Temperature data 7 day Ave. Max 74.6°F, exceeded 64°F, 70 times in 1997.			Temperature data 7 day Ave.
Keene Creek, South Fork Mouth to Headwaters	43D-KESF0	Temperature	Rearing 64 F (17.8 C)	Summer	FOG/BLM Data	Temperature data 7 day Ave. Max 66.8°F, exceeded 64°F, 18 times		303(d) List	Addition
Klamath River California Border to Keno Dam	43D-KLAM208	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402441; RM 219.9): 0% (0 of 21) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402441; RM 219.9): 0% (0 of 16) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data; NPS Assessment - segment 6: severe, data (DEQ, 1988)	DEQ Data (Site 402441; RM 219.9): 11% (2 of 19) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995. Did not meet 3-month average, exceedences were in different years.	Did not meet listing criteria	OK	

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Basin <i>Klamath</i>		Sub <i>Upper Klamath</i>									
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96		
California Border to Keno Dam	43D-KLAM208	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	DEQ Data; d1 in 305(b) Report (DEQ,1994); NPS Assessment - segment 6: moderate, observation (DEQ, 1988)	DEQ Data (Site 402441; RM 219.9): 2% (1 of 45) Annual data exceeded cold water rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 7.4 mg/l between WY 1986 - 1995 (Cold water fishery, annual rearing).	Did not meet listing criteria	OK			
		Habitat Modification				NPS Assessment - segment 6: severe, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients				NPS Assessment - segment 6: severe, data (DEQ, 1988)		No nutrient criteria or standard established	Need Data		
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402441; RM 219.9): 0% (0 of 23) FWS values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		pH			Summer	DEQ Data	DEQ Data (Site 402441; RM 219.9): 0% (0 of 19) Summer values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Sedimentation					NPS Assessment - segment 6: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature		Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1995); NPS Assessment - segment 6: moderate, observation (DEQ, 1988)	DEQ Data (Site 402441; RM 219.9): 53% (10 of 19) Summer values exceeded temperature standard (64) with a maximum of 74.3 and exceedences measured in 6 of 9 years between WY 1986 - 1995.		303(d) List		
		Toxics		Water (Ammonia)	Summer	DEQ Data	DEQ Data (Site 402441; RM 219.9): 0% (0 of 39) Summer values exceeded chronic and acute un-ionized ammonia criteria (salmonid) between WY 1986 - 1995; 0% (0 of 30) Summer values exceeded chronic and acute total ammonia criteria (salmonid) between 86 - 95.	Did not meet listing criteria	OK		

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Basin <i>Klamath</i>		Sub <i>Upper Klamath</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Lincoln Creek Mouth to Headwaters	43D-LINC0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; FOG Data	BLM Data (Site 40S-4E-18, at mouth): 7 day average of daily maximums of 70.9 exceeded temperature standard (64) in 1992; FOG data also available.		303(d) List	
Long Prairie Creek Mouth to Headwaters	43D-LONG0	Sedimentation			NPS Assessment - segment 10: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mill Creek Mouth to Headwaters	43D-MILL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; FOG Data	FOG Data (Site near mouth): 7 day average of daily maximums of >64 exceeded temperature standard (64) in 1990 - 1992 (min/max) but not in 1993 - 1994; however BLM Grab sample data at mouth between 1991 - 1995 is <64. FOG 1997 Temperature data shows 7 day Ave. Max 67.6°F, exceeded 64°F, 20 times		303(d) List	Addition
Miners Creek Mouth to Headwaters	43D-MINE0	Sedimentation			Spencer Creek Watershed Analysis (USFS, 1995)	Spencer Creek system provides spawning and rearing habitat to the Klamath River Redband trout, a sensitive population; sedimentation has been identified as a concern (Spencer Creek Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature			Spencer Creek Watershed Analysis (USFS, 1995)		No supporting data or information	Need Data	
Spencer Creek Mouth to Headwaters	43D-SPEN0	Biological Criteria			Spencer Creek Watershed Analysis (USFS, 1995)	Based on invertebrate community indicators, impacts are apparent from high summer temperatures and fine sediment in Spencer Creek (Spencer Creek Watershed Analysis, USFS, 1995).		303(d) List	
		Flow Modification			Spencer Creek Watershed Analysis (USFS, 1995)	Spencer Creek Watershed Analysis (USFS, 1995)	Did not meet listing criteria	Potential Concern	

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Basin <i>Klamath</i>		Sub <i>Upper Klamath</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	43D-SPEN0	Habitat Modification			Spencer Creek Watershed Analysis (USFS, 1995)	Spencer Creek system provides spawning and rearing habitat to the Klamath R redband trout, a sensitive population; Habitat modification (lack of LWD and loss of pool habitat) has been identified as a concern (Spencer Creek Watershed Analysis, USFS, 1995).		303(d) List	
		Sedimentation			Spencer Creek Watershed Analysis (USFS, 1995); NPS Assessment - segment 7 and 8: moderate, observation (DEQ, 1988)			Spencer Creek system provides spawning and rearing habitat to the Klamath River Redband trout, a sensitive population; sedimentation has been identified as a concern (Spencer Creek Watershed Analysis, USFS, 1995).	
		Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data; Spencer Creek Watershed Analysis (USFS, 1995); NPS Assessment - segment 7: moderate, observation (DEQ, 1988)	USFS Data (Site 38S-5E-18nwse): 7 day average of daily maximums of 63.7 and 68.5 with 0 and 28 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	Potential Concern

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Basin <i>Klamath</i>		Sub <i>Upper Klamath Lake</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96		
Name && Description	Waterbody Segment	Parameter	Criteria	Season							
Agency Lake Lake	43C.AGEN	Chlorophyll a		Summer	Clean Lake Studies (1983, Current); NPS Assessment - segment 2: moderate, observation (DEQ, 1988)	Clean Lake Studies (Klamath Consulting Services, 1983), Environmental Research in the Klamath Basin, Oregon - 1991 Annual Report (USDI, 4/93).		303(d) List			
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Summer	Clean Lake Studies (1983, Current)		Clean Lake Studies (Klamath Consulting Services, 1983), Environmental Research in the Klamath Basin, Oregon - 1991 Annual Report (USDI, 4/93).		303(d) List		
		Nutrients					Atlas of Oregon Lakes (1985); NPS Assessment - segment 2: moderate, observation (DEQ, 1988)	Clean Lake Studies (Klamath Consulting Services, 1983), Environmental Research in the Klamath Basin, Oregon - 1991 Annual Report (USDI, 4/93).	No nutrient criteria or standard established	Need Data	
		pH			Summer		Clean Lake Studies (1983, Current); NPS Assessment - segment 2: moderate, observation (DEQ, 1988)	Clean Lake Studies (Klamath Consulting Services, 1983), Environmental Research in the Klamath Basin, Oregon - 1991 Annual Report (USDI, 4/93).		303(d) List	
		Sedimentation					NPS Assessment - segment 2: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Annie Creek Mouth to Crater Lake National Park	43C-ANNIO	Flow Modification			NPS Assessment - segment 15: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data			
		Habitat Modification			NPS Assessment - segment 15: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data			
		Temperature			NPS Assessment - segment 15: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data			
Cherry Creek Mouth to Headwaters	43C-CHERO	Flow Modification			NPS Assessment - segment 12: severe, observation (DEQ, 1988)		No supporting data or information	Need Data			

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Basin <i>Klamath</i>		Sub <i>Upper Klamath Lake</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	43C-CHERO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: Lower and Upper - 200 ft apart): 7 day average of daily maximums of 57.0/60.4 and 55.0/55.1 did not exceed temperature standard (64) in 1993/1994 respectively.	Did not meet listing criteria	OK	
Fourmile Creek Mouth to Headwaters	43C-FOUR0	Flow Modification			NPS Assessment - segment 12: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to RM 1		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	BLM 2 sites in 1997, 7 day ave. max. temperature, lower site 64.8°F, upper site 67.1°F both sites exceeded temperature standard in May.		303(d) List	Addition
RM 1 to Headwaters	43C-FOUR1	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 36S-5E-13nwnw): 7 day average of daily maximums of 53.4 and 57.1 with 0 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	Status Modification
Lake of the Woods Lake	43C.LAKE	Aquatic Weeds or Algae	Macrophytes		Atlas of Oregon Lakes, Sweet (1990)		No supporting data or information	Need Data	
		Bacteria			Atlas of Oregon Lakes, Sweet (1990)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes, Sweet (1990)		No supporting data or information	Need Data	
Rock Creek Mouth to Headwaters	43C-ROCK0	Habitat Modification			Rock, Cherry and Nannie Creek Watershed Analysis (USFS, 1994)	Rock Creek which supports Redband trout, a sensitive species, provides marginal fish habitat (few pools, low habitat complexity, low LWD) (Rock, Cherry and Nannie Watershed Report, USFS, 1994).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 35S-6E-3): 7 day average of daily maximums of 68.0 with 42 days exceeding temperature standard (64) in 1994.		303(d) List	

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Basin <i>Klamath</i>		Sub <i>Upper Klamath Lake</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Sevenmile Creek Mouth to Short Creek	43C-SEVE0	Dissolved Oxygen (DO)			NPS Assessment - segment 13: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 13: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 13: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 13: moderate, observation (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
		Sedimentation			NPS Assessment - segment 13: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 13: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Short Creek to Headwaters	43C-SEVE12.5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 33S-6E-11nesw): 7 day average of daily maximums of 49.6 and 49.4 with 0 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
Sun Creek Mouth to Headwaters	43C-SUN0	Temperature			Bull Trout Habitat		No supporting data or information	Need Data	
Threemile Creek Mouth to Headwaters	43C-THRE0	Habitat Modification			Threemile, Sevenmile and Dry Creek Watershed Analysis (USFS, 1995)	Lower Threemile watershed is proposed critical habitat for the Lost R and Shortnose sucker and supports Bull Trout; Habitat is poor due to lack of LWD and pools (Threemile, Sevenmile and Dry Creek Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 34S-6E-2senw): 7 day average of daily maximums of 59.0 and 62.4 did not exceed temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	

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Basin <i>Klamath</i>		Sub <i>Upper Klamath Lake</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name & Description	Waterbody Segment	Parameter	Criteria	Season						
Upper Klamath Lake Lake	43C.KLUP	Chlorophyll a		Summer	Clean Lake Studies (1983, Current); NPS Assessment - segment 1: severe, data (DEQ, 1988)	Clean Lake Studies (Klamath Consulting Services, 1983; Current study being conducted by Klamath Tribe).		303(d) List		
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Summer	Clean Lake Studies (1983, Current); NPS Assessment - segment 1: severe, data (DEQ, 1988)	Clean Lake Studies (Klamath Consulting Services, 1983; Current study being conducted by Klamath Tribe).		303(d) List		
		Nutrients				Atlas of Or Lakes (1985); NPS Assessment - segment 1: severe, data (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
		pH			Summer	Clean Lake Studies (1983, Current); NPS Assessment - segment 1: severe, data (DEQ, 1988)	Clean Lake Studies (Klamath Consulting Services, 1983; Current study being conducted by Klamath Tribe).		303(d) List	
		Sedimentation				NPS Assessment - segment 1: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				NPS Assessment - segment 1: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Wood River Mouth to Headwaters	43C-WOOD0	Chlorophyll a		Summer	USBR Data	Chlorophyll a typically ranged from 0.1 - 0.8 ug/l at headwaters and 0.8 - 4.6 ug/l at mouth (USBR - 1991 Annual Reports, 4/93).	No nutrient criteria or standard established	OK
Flow Modification						NPS Assessment - segment 14: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Habitat Modification						NPS Assessment - segment 14: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Nutrients						Based on concerns identified in 1994/96 303(d) review; Water Watch (Water Resource Management (1997)); Klamath Tribes		No nutrient criteria or standard established	Potential Concern	Status Modification
pH						USBR Data	pH typically ranged from 6.9 - 8.3 at headwaters and 7.1 - 8.7 at mouth (USBR - 1991 and 1992 Annual Reports, 4/93 and 9/93).	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Klamath</i>		Sub <i>Upper Klamath Lake</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	43C-WOOD0	Sedimentation			NPS Assessment - segment 14: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Two BLM sites in 1997: 7 day ave. max. temperatures, upper site was 56.5°F, lower site was 61.3°F.	Did not meet listing criteria	OK	Addition

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Basin <i>Klamath</i>		Sub <i>Williamson</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Cottonwood Creek Mouth to Headwaters	43B-COTT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 28S-6E-36sene): 7 day average of daily maximums of 71.1 and 57.4 with 98 and 0 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	Potential Concern	
Jackson Creek Mouth to Headwaters	43B-JACSO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 30S-11E-7sesw): 7 day average of daily maximums of 56.8 and 61.5 with 0 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
Miller Creek Mouth to Headwaters	43B-MILLO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 27S-7E-32swne): 7 day average of daily maximums of 57.1 and 64.0 with 0 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
Sand Creek Mouth to Headwaters	43B-SAND0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 31S-7R-29nesw): 7 day average of daily maximums of 54.3 and 58.9 with 0 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
Williamson River Mouth to Sprague River	43B-WILLO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402447; RM 4.6): 0% (0 of 25) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402447; RM 4.6): 0% (0 of 16) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402447; RM 4.6): 0% (0 of 19) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Klamath</i>		Sub <i>Williamson</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Sprague River	43B-WILL0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	DEQ Data; d1 in 305(b) Report (DEQ,1994)	DEQ Data (Site 402447; RM 4.6): 2% (1 of 50) Annual data exceeded cold water rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 7.5 mg/l between WY 1986 - 1995 (Cold water fishery, annual rearing).	Did not meet listing criteria	OK		
		Flow Modification			NPS Assessment - segment 16 and 17: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment - segment 16 and 17: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402447; RM 4.6): 0% (0 of 27) FWS values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH			Summer	DEQ Data	DEQ Data (Site 402447; RM 4.6): 0% (0 of 20) Summer values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 16 and 17: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature		Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 16 and 17: moderate, data (DEQ, 1988)	USFS Data (Site 34S-7E-2swnw): 7 day average of daily maximums of 72.3 with 106 days exceeding temperature standard (64) in 1994; DEQ Data (Site 402447; RM 4.6): 7 day average of daily maximum of 68.6 with 36 days exceeding standard (64) in 1995.		303(d) List	
Sprague River to Klamath Marsh	43B-WILL11	Flow Modification			NPS Assessment - segment 18, 19 and 20: moderate/severe, data (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment - segment 18, 19 and 20: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients			NPS Assessment - segment 18, 19 and 20: moderate, data (DEQ, 1988)		No nutrient criteria or standard established	Need Data		

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Basin <i>Klamath</i>		Sub <i>Williamson</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Sprague River to Klamath Marsh	43B-WILL11	Sedimentation			NPS Assessment - segment 18: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 18, 19 and 20: moderate, data (DEQ, 1988)	USFS Data (Site 34S-7E-2swnw): 7 day average of daily maximums of 72.3 with 106 days exceeding temperature standard (64) in 1994.		303(d) List	
Klamath Marsh to Headwaters	43B-WILL49	Flow Modification			NPS Assessment - segment 21, 22 and 23: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 21, 22 and 23: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 21 and 23: moderate, data (DEQ, 1988)		No nutrient criteria or standard established	Need Data	
		Sedimentation			NPS Assessment - segment 21, 22 and 23: moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 21, 22 and 23: severe/moderate, data (DEQ, 1988)	USFS Data (Site 31S-10E-12nwn, RM70): 7 day average of daily maximums of 74.7/71.4/73.4 with 113/67/105 days exceeding temperature standard (64) in 1992/1993/1994 respectively.		303(d) List	

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Basin <i>Malheur</i>		Sub <i>Lower Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Alder Creek (Cottonwood Creek)									
Mouth to headwaters	33C-ALDE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site at mouth in 1995, 7 day ave. max. temperature was 81.5°F, exceeded temperature standard of 64°F.		303(d) List	Addition
Cottonwood Creek (Lower Malheur)									
Mouth to headwaters	33C-COTT0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM sites: at Alder Creek in 1995, 7 day ave. max. temperature was 81.8°F and at Wildcat Creek was 72.9°F, both exceeded temperature standard of 64°F.		303(d) List	Addition

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Basin <i>Malheur</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Dry Creek Mouth to headwaters	33B-DRY0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site 1996, 7 day ave. max. temperature was 70.0°F, exceeded temperature standard of 64°F.		303(d) List	Addition

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Basin <i>Malheur Lake</i>		Sub <i>Alvord Lake</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Cottonwood Creek Mouth to Headwaters	41F-COTT0	Flow Modification			NPS Assessment segment 136: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment segment 136: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			Lahontan Subbasins Fish Plan (ODFW, 1993); NPS Assessment segment 136: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Denio Creek Mouth to Headwaters	41F-DENIO	Flow Modification			NPS Assessment segment 135: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment segment 135 and 503: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment segment 135: severe, data (DEQ, 1988)	BLM Data (2 Sites: Lower at mouth of canyon, 41S-35E-18sese and Upper, 41S-34E-11sese): 7 day average of daily maximums of 65.3 in 1995 and 67.2 with 43 7-day periods in 1996 at lower site and 73.1 in 1995 and 87.4 with 88 7-day periods in 1996 at upper site exceeded temperature standard (64). In 1997 was 63.9 and 76.6°F		303(d) List	
Doolittle Creek Mouth to Headwaters	41F-DOOL0	Flow Modification			NPS Assessment segment 224: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment segment 224: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment segment 224: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment segment 224: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Malheur Lake</i>		Sub		<i>Alvord Lake</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Fifteenmile Creek Mouth to Headwaters	41F-FIFT0	Flow Modification			NPS Assessment segment 223: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment segment 223: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			Lahontan Subbasins Fish Plan (ODFW, 1993); NPS Assessment segment 223: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Little Alvord Creek Mouth to Headwaters	41F-ALLI0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Lower Site, 34S-34E-7sene): 7 day average of daily maximums of 63.7 did not exceed temperature standard (64) in 1995.	Did not meet listing criteria	OK	
Little Cottonwood Creek Mouth to Headwaters	41F-COLI0	Flow Modification			NPS Assessment segment 137: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment segment 137: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment segment 137: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Little Trout Creek Mouth to Headwaters	41F-TRLI0	Flow Modification			NPS Assessment segment 103 and 104: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment segment 103 and 104: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data; NPS Assessment segment 103 and 104: moderate, data (DEQ, 1988)	ODFW Data (Site at RM 1.0): 7 day average of daily maximums of 76.0 with 68 days exceeding temperature standard (64) in 1994.		303(d) List	

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Basin <i>Malheur Lake</i>		Sub		<i>Alvord Lake</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Little Whitehorse Creek Mouth to Headwaters	41F-WHLI0	Flow Modification			Lahontan Subbasins Fish Plan (ODFW, 1993); NPS Assessment - segment 221: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Lahontan Subbasins Fish Plan (ODFW, 1993); NPS Assessment - segment 221: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Lahontan Subbasins Fish Plan (ODFW, 1993); NPS Assessment - segment 221: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data; NPS Assessment - segment 221: moderate, data (DEQ, 1988)	ODFW Data (Site at RM 4.0): 7 day average of daily maximums of 69.0/69.0/79.0 with 41/30/58 days exceeding temperature standard (64) in 1992/93/94 respectively.		303(d) List	
Mann Lake Lake	41F.MANN	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 319: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 319: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 319: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Trout Creek Mouth to Headwaters	41F-TROU0	Flow Modification			NPS Assessment segment 97, 101 and 102: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment segment 97 - 102: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data; NPS Assessment segment 97, 101 and 102: severe, data (DEQ, 1988)	ODFW Data (Site upstream of USGS Gage): 7 day average of daily maximums of 77.3 with 72 days exceeding temperature standard (64) in 1994.		303(d) List	

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Basin <i>Malheur Lake</i>		Sub		<i>Alvord Lake</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Trout Creek, East Fork Mouth to Headwaters	41F-TREF0	Flow Modification			NPS Assessment segment 105 and 106: severe/moderate, data (DEQ, 1988)	ODFW Data (Site at RM 4.0): 7 day average of daily maximums of 72.5 with 70 days exceeding temperature standard (64) in 1994.	No supporting data or information	Need Data	
		Sedimentation			NPS Assessment segment 105 and 106: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data; NPS Assessment segment 105 and 106: severe/moderate, data (DEQ, 1988)			303(d) List	
Twelvemile Creek Mouth to Headwaters	41F-TWEL0	Flow Modification			NPS Assessment - segment 225: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 225: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 225: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Van Horn Creek Mouth to Headwaters	41F-VANH0	Flow Modification			NPS Assessment - segment 138: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 138 and 502: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Malheur Lake</i>		Sub <i>Alvord Lake</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	41F-VANH0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 138: severe, data (DEQ, 1988)	BLM Data (Lower Site at mouth of canyon, 41S-35E-4swnw): 7 day average of daily maximums of 63.1 did not exceed temperature standard (64) in 1995. 7 day average of daily maximums of: 77.2 with 69 7-day periods (Lower site at mouth of canyon, 41S-35E-4swnw); 62.2 with 0 7-day periods (above canyon, 40S-34E-25nesw); and 71.3 with 51 7-day periods (above upper meadow, 40S-34E-23swse) exceeded temperature standard (64) in 1996. In 1997 canyon mouth was 65.1°F, above canyon was 63.1°F, upper meadow was 69.8°F.		303(d) List	
Whitehorse Creek Mouth to Headwaters	41F-WHIT0	Flow Modification			Lahontan Subbasins Fish Plan (ODFW, 1993); NPS Assessment - segment 220: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification Sedimentation			Lahontan Subbasins Fish Plan (ODFW, 1993) NPS Assessment - segment 220: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			Lahontan Subbasins Fish Plan (ODFW, 1993); NPS Assessment - segment 220: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Wildhorse Creek Mouth to Headwaters	41F-WILD0	Habitat Modification			ODFW (1993); NPS Assessment - segment 94 - 95: moderate/severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 94 - 96: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur Lake</i>		Sub		<i>Alvord Lake</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Mouth to Headwaters	41F-WILD0	Temperature			Lahontan Subbasins Fish Plan (ODFW, 1993); NPS Assessment - segment 94 - 95: moderate/severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Willow Creek (Pueblo Mountains)									
Mouth to Headwaters	41F-WILP0	Flow Modification			NPS Assessment - segment 134: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Lahontan Subbasins Fish Plan (ODFW, 1993)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 134: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 134: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Willow Creek (Steens Mountains)									
Mouth to Canyon	41F-WILS0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (2 sites: in canyon, 33S-34E-15senw and at mouth, 33S-34E15senw): 7 day average of daily maximums of: 60.6 with 0 7-day periods at site in canyon and 72.1 with 58 7-day periods at site at mouth exceeded temperature standard (64) in 1996.		303(d) List	Addition
Willow Creek (Trout Creek Mountains)									
Mouth to Headwaters	41F-WILW0	Flow Modification			Lahontan Subbasins Fish Plan (ODFW, 1993); NPS Assessment - segment 219: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Lahontan Subbasins Fish Plan (ODFW, 1993); NPS Assessment - segment 219: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Lahontan Subbasins Fish Plan (ODFW, 1993); NPS Assessment - segment 219: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Malheur Lake</i>		Sub <i>Alvord Lake</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	41F-WILW0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data; NPS Assessment - segment 219: moderate, observation (DEQ, 1988)	ODFW Data (Site at RM 2.5, 38-38-16): 7 day average of daily maximums of 79/77/87 with 60/42/86 days exceeding temperature standard (64) in 1992/93/94 respectively.		303(d) List	

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Basin <i>Malheur Lake</i>		Sub <i>Donner and Blitzen</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Ankle Creek (South Fork Blitzen)									
Mouth to Headwaters	41C-ANKE0	Flow Modification			NPS Assessment - segment 92: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 92: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 92: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
	41C-ANKL0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 92: severe, data (DEQ, 1988); BLM data	BLM site at mouth , 7 day ave. max. for 1997 was 66.2°F, exceeded temperature standard.		303(d) List	
Big Indian Creek									
Mouth to Headwaters	41C-INBI0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximums of in 1997 was 68.4°F, exceeded temperature standard.		303(d) List	
Bridge Creek									
Mouth to Little Bridge Creek	41C-BRID0	Flow Modification			NPS Assessment - segment 107: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 107: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 107: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Cucamonga Creek									
Mouth to Headwaters	41C-CUCA0	Flow Modification			NPS Assessment - segment 120: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 120: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 120: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Deep Creek									
Mouth to Headwaters	41C-DEEP0	Flow Modification			NPS Assessment - segment 121: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 121 and 515: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Malheur Lake</i>		Sub <i>Donner and Blitzen</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	41C-DEEP0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 121: moderate, data (DEQ, 1988)	BLM Data (at Mouth, 35S-32.5E-5nwse): 7 day average of daily maximums of 71.6 with 79 seven day periods exceeding temperature standard (64) in 1996. In 1997 two sites were 70.5/68.4°F		303(d) List	Addition
Donner und Blitzen River									
Mouth to Page Dam	41C-DONN0	Flow Modification			NPS Assessment - segment 83 and 84: severe/moderate, data (DEQ, 1988)		No supporting data or information		Need Data
		Habitat Modification			NPS Assessment - segment 83 and 84: severe, data (DEQ, 1988)		No supporting data or information		Need Data
		Sedimentation			NPS Assessment - segment 83 and 84: severe/moderate, data (DEQ, 1988)		No supporting data or information		Need Data
		Temperature			NPS Assessment - segment 83 and 84: severe, data (DEQ, 1988)		No supporting data or information		Need Data
Page Dam to S Fork/Little Blitzen Confluence	41C-DONN45	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data; (DEQ 1994 305(b) Report)	USGS Data (Site near Frenchglen; RM 46.8): 0% (0 of 10) Summer values exceeded fecal coliform standard (400) between WY 1980 - 1986.	Did not meet listing criteria		OK
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS Data; (DEQ 1994 305(b) Report)	USGS Data (Site near Frenchglen; RM 46.8): 8% (2 of 25) FWS values exceeded fecal coliform standard (400) with a maximum of 575 between WY 1980 - 1986.	Did not meet listing criteria		OK
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	USGS Data; (DEQ 1994 305(b) Report)	USGS Data (Site near Frenchglen; RM 46.8): 0% (0 of 39) Annual values exceeded dissolved oxygen standard (8.0 or 90% saturation) between WY 1980 - 1986 (Cold water rearing, annual).	Did not meet listing criteria		OK
		Flow Modification			NPS Assessment - segment 86 and 87: moderate, data (DEQ, 1988)		No supporting data or information		Need Data

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur Lake</i>		Sub <i>Donner and Blitzen</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Page Dam to S Fork/Little Blitzen Confluence	41C-DONN45	pH		Summer	USGS Data; (DEQ 1994 305(b) Report)	USGS Data (Site near Frenchglen; RM 46.8): 0% (0 of 14) Summer values exceeding pH standard (6.5 to 9.0) between WY 1980 - 1986.	Did not meet listing criteria	OK		
		pH		Fall-Winter-Spring	USGS Data; (DEQ 1994 305(b) Report)	USGS Data (Site near Frenchglen; RM 46.8): 0% (0 of 25) FWS values exceeding pH standard (6.5 to 9.0) between WY 1980 - 1986.	Did not meet listing criteria	OK		
		Sedimentation				NPS Assessment - segment 86 and 87: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 86 and 87: moderate, data (DEQ, 1988)	BLM Data (2 Sites: above Fish Creek, 32S-32.5E-28sesw and at Big Springs, 33S-32.5E-4sesw): 7 day average of daily maximums of 73.5 and 71.0 with 52 and 42 seven day periods exceeding temperature standard (64) in 1996 respectively. 1997 data above Fish Creek 72.3°F, at Big Springs 70.7°F.		303(d) List	Addition	
Donner und Blitzen River, South Fork Mouth to Headwaters	41C-DOSF0	Flow Modification			NPS Assessment - segment 87 and 88: severe, data (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment - segment 87 and 88: severe, data (DEQ, 1988)		No supporting data or information	Need Data		
		Sedimentation			NPS Assessment - segment 87 and 88: moderate/severe, data (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 87 and 88: severe, data (DEQ, 1988)	BLM Data (4 Sites: Above L Blitzen, 33S-32.5E-36nwnw; Ab B Indian, 34S-32.75E-7swne; Ab Ankle, 34S-32.75E-27nsw; Ab Deep 35S-32.75-5nwse): 7 day average of daily maximums of 63.9; 65.7; 74.3; 74.6 in 1995 respectively and of 69.4; 72.8; 75.9; 76.4 with 29; 82; 110; 97 seven day periods in 1996 exceeding temperature standard (64) respectively. Seven BLM sites in 1997 from Little Blitzen to Deep Creek was		303(d) List		

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur Lake</i>		Sub <i>Donner and Blitzen</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Fish Creek									
Mouth to above Swamp (entering Section 18)	41C-FISH0	Flow Modification			NPS Assessment - segment 132: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 132: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 132: moderate, data (DEQ, 1988)	BLM Data (2 Sites: at mouth, 32S-32.5E-28sesw and above Corral Creek, 33S-32.75E-6nwse): 7 day average of daily maximums of 66.6 and 71.2 with 18 and 62 seven day periods exceeding temperature standard (64) in 1996 respectively. For 1997 was		303(d) List	Addition
Indian Creek									
Mouth to Headwaters	41C-INDI0	Flow Modification			NPS Assessment - segment 218: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 218: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 218: moderate, data (DEQ, 1988)	BLM Data (2 Sites: at mouth, 34S-32.75E-7swne and above Little Indian Creek, 34S-32.75E-2swnw): 7 day average of daily maximums of 69.2 and 66.6 with 55 and 9 seven day periods exceeding temperature standard (64) in 1996 respectively.		303(d) List	Addition
Kiger Creek									
Mouth to Headwaters	41C-KIGE0	Flow Modification			NPS Assessment - segment 117 - 119: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 117 - 119: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 117 - 119: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Malheur Lake</i>		Sub		<i>Donner and Blitzen</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Krumbo Creek Mouth to Headwaters	41C-KRUM0	Flow Modification			NPS Assessment - segment 109 - 112: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 109 - 112: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 109 - 112: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Little Blitzen River Mouth to Headwaters	41C-BLLI0	Flow Modification			NPS Assessment - segment 92: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 92: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to canyon mouth		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 92: moderate, data (DEQ, 1988)	BLM Data (Lower Site, 33S-32E-36nwnw): 7 day average of daily maximums of 67.7 (1995) and 68.8 with 43 seven day periods (1996) exceeded temperature standard (64). In 1997 was 68.7°F.		303(d) List	Segment Modification
Canyon mouth to Headwaters	41C-BLLI5	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 92: moderate, data (DEQ, 1988)	BLM Data (at mouth of canyon): 7 day average of daily maximums of 61.9°F did not exceeded temperature standard in 1997.	Did not meet listing criteria	OK	Removed (5)
Little Bridge Creek Mouth to Headwaters	41C-BRLI0	Sedimentation			NPS Assessment - segment 507: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Little Fish Creek Mouth to Grove Creek	41C-FILI0	Flow Modification			NPS Assessment - segment 132: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 132: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur Lake</i>		Sub <i>Donner and Blitzen</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Grove Creek	41C-FIL10	Temperature			NPS Assessment - segment 132: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Little Indian Creek									
Mouth to Headwaters	41C-INLI0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth, 34S-32.75E-2NWSW): 7 day average of daily maximums of 59.6 with 0 seven day periods exceeding temperature standard (64) in 1996. In 1997 was	Did not meet listing criteria	OK	
McCoy Creek									
Mouth to Headwaters	41C-MCCO0	Flow Modification			NPS Assessment - segment 113 - 116: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 113 - 116: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 113 - 116: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Mud Creek									
Mouth to Fir Canyon Creek	41C-MUD0	Flow Modification			NPS Assessment - segment 108: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 108: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 108: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Mud Creek (South Fork Blitzen)									
Mouth to Headwaters	41C-MUDS0	Flow Modification			NPS Assessment - segment 90 - 91: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 90 - 91: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 90 - 91: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 90 - 91: severe, data (DEQ, 1988); BLM data	BLM site at mouth , 7 day ave. max. for 1997 was 72.5°F, exceeded temperature standard.		303(d) List	

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Basin <i>Malheur Lake</i>		Sub <i>Donner and Blitzen</i>			Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season				
Swamp Creek Mouth to Headwaters	41C-SWAM0	Flow Modification			NPS Assessment - segment 122: moderate, data (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 122: severe, data (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 122: severe, data (DEQ, 1988)	No supporting data or information	Need Data	

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Basin <i>Malheur Lake</i>		Sub		<i>Guano</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Guano Creek										
Mouth to Headwaters	41E-GUAN0	Flow Modification				NPS Assessment segment 80: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				NPS Assessment segment 80: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Home Creek										
Mouth to Headwaters	41E-HOME0	Flow Modification				NPS Assessment segment 124: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment segment 124 and 125: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer		BLM Data; NPS Assessment segment 124: severe, data (DEQ, 1988)	BLM Data (2 Sites: Lower - mouth of canyon, 35S-32E-10sene and Above Home Creek Butte, 35S-31E-7senw): 7 day average of daily maximums of 71.3 in 1995 and 75.2 with 78 7-day periods in 1996 (at mouth of canyon site) and 80.6 in 1995 and 81.5 in 1996 exceeded temperature standard (64). In 1997 was 69.4 and 77.4°F.			303(d) List
Rock Creek Reservoir										
Reservoir	41E.ROCK	Aquatic Weeds or Algae	Algae			NPS Assessment segment 321: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients				NPS Assessment segment 321: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Skull Creek										
Mouth to Headwaters	41E-SKUL0	Flow Modification				NPS Assessment segment 126 and 128: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment segment 126 - 128: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>Malheur Lake</i>		Sub	<i>Guano</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	41E-SKUL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment segment 126 and 128: severe, data (DEQ, 1988)	BLM Data (2 sites: Lower Site - above Hwy 205, 36S-32.5E-21nwnw, Upper Site - 2.5 miles above Hwy 205): 7 day average of daily maximums of: 71.1 in 1995 and 85.7 with 116 7-day periods in 1996 at lower site and 80.9 with 100 7-day periods in 1996 at upper site exceeded temperature standard (64). In 1997 was 75.4 and 81.0°F		303(d) List	
Threemile Creek									
Garrison Lake to Diversion	41E-THRE0	Flow Modification			NPS Assessment segment 133: severe, data (DEQ, 1988)		No supporting data or information	Need Data	Segment Modification
Diversion to Headwaters		Flow Modification			NPS Assessment segment 133: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Garrison Lake to Diversion		Sedimentation			NPS Assessment segment 133: severe, data (DEQ, 1988)		No supporting data or information	Need Data	Segment Modification
Diversion to Headwaters		Sedimentation			NPS Assessment segment 133: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Garrison Lake to Diversion		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment segment 133: severe, data (DEQ, 1988)	BLM Data above canyon 1996 data showed a 7 day average of daily maximums of 72.7 but records showed distinct periods of unusual fluctuating temperatures that were not observed in 1994 or 1995 that accounted for high temperature. One additional year of monitoring is needed to determine if this was an aberration. In 1997 above canyon 93.0°F (site dries out).	Did not meet listing criteria	Potential Concern	Segment Modification
Diversion to Headwaters	41E-THRE4	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment segment 133: severe, data (DEQ, 1988)	BLM Data (Above diversion): 7 day average of daily maximums was 61.0 did not exceed temperature standard (64) in 1995. In 1997 above diversion was 62.1°F.	Did not meet listing criteria	OK	

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Basin <i>Malheur Lake</i>		Sub <i>Harney/Malheur Lakes</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Coffeepot Creek Mouth to Headwaters	41A-COFF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM 2 sites in 1997: upper 7 day ave. max. was 70.3°F and lower was 76.3°F exceeded temperature standard.		303(d) List	Addition
Cow Creek Mouth to Headwaters	41A-COW0	Dissolved Oxygen (DO)			NPS Assessment - segment 177: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 177: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 177: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 177: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 177: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Coyote Creek Mouth to Headwaters	41A-COY00	Flow Modification			NPS Assessment - segment 217: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 217: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 217: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Jackass Creek Mouth to Headwaters	41A-JACK0	Dissolved Oxygen (DO)			NPS Assessment - segment 214: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 214: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 214: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 214: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Mill Creek Mouth to Headwaters	41A-MILL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM 2 sites in 1997: upper 7 day ave. max. was 73.8°F and lower was 80.8°F exceeded temperature standard.		303(d) List	Addition

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Basin <i>Malheur Lake</i>		Sub <i>Harney/Malheur Lakes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Paul Creek Mouth to Headwaters	41A-PAUL0	Flow Modification			NPS Assessment - segment 215: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 215: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 215: moderate, data (DEQ, 1988); BLM data	BLM 2 sites in 1997: upper 7 day ave. max. was 70.3°F and lower was 76.3°F exceeded temperature standard.		303(d) List	Addition
Rattlesnake Creek Mouth to Headwaters	41A-RATT0	Dissolved Oxygen (DO)			NPS Assessment - segment 178: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 178: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 178: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 178: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 178: moderate, data (DEQ, 1988); BLM data	USFS Data (Site at National Forest Boundary, 21-22-20): 7 day average of daily maximums of 71 with 65 days exceeding temperature standard (64) in 1993. BLM 2 sites in 1997: upper 7 day ave. max. was 64.9°F and lower was 78.8°F.		303(d) List	
Riddle Creek Mouth to Headwaters	41A-RIDD0	Flow Modification			NPS Assessment - segment 123: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 123: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 123: severe, data (DEQ, 1988)	BLM Data (3 Sites: Lower, 29S-34E-8nsw; Middle, 29S-34E-22nwse; and Upper, 30S-35E-31nesw): 7 day average of daily maximums of 71.0; 69.1; and 74.5 exceeded temperature standard (64) in		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur Lake</i>		Sub <i>Harney/Malheur Lakes</i>			Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season				
Smyth Creek								
Mouth to Headwaters	41A-SMYT0	Flow				NPS Assessment - segment 216: severe, data (DEQ, 1988)	No supporting data or information	Need Data
		Modification				NPS Assessment - segment 216: severe, data (DEQ, 1988)	No supporting data or information	Need Data
		Sedimentation				NPS Assessment - segment 216: severe, data (DEQ, 1988)	No supporting data or information	Need Data
		Temperature				NPS Assessment - segment 216: severe, data (DEQ, 1988)	No supporting data or information	Need Data
Soldier Creek								
Mouth to Headwaters	41A-SOLD0	Flow				NPS Assessment - segment 175: moderate, data (DEQ, 1988)	No supporting data or information	Need Data
		Modification				NPS Assessment - segment 175 and 176: moderate, data (DEQ, 1988)	No supporting data or information	Need Data
		Sedimentation				NPS Assessment - segment 175 and 176: moderate, data (DEQ, 1988)	No supporting data or information	Need Data
		Temperature				NPS Assessment - segment 175: moderate, data (DEQ, 1988)	No supporting data or information	Need Data

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Malheur Lake</i>		Sub	<i>Silver</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Buzzard Creek Mouth to Deep Canyon	41D-BUZZ0	Flow Modification			NPS Assessment - segment 213: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 213: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 213: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Chickahominy Reservoir Reservoir	41D.CHIC	Aquatic Weeds or Algae	Algae		NPS Assessment segment 320: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment segment 320: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Claw Creek Mouth to Headwaters	41D-CLAW0	Dissolved Oxygen (DO)			NPS Assessment - segment 154: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 154 and 155: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 154 and 155: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 154: severe, data (DEQ, 1988): BLM data	Two BLM sites in 1997; 7 day ave. max. temperature at upper was 79.7°F, middle was 79.0°F both exceeded temperature standard.		303(d) List	Addition
Copper Creek Mouth to Headwaters	41D-COPPO	Flow Modification			NPS Assessment - segment 160: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 160: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Dairy Creek Mouth to Headwaters	41D-DAIRO	Flow Modification			NPS Assessment - segment 149: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Malheur Lake</i>	Sub	<i>Silver</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	41D-DAIR0	Sedimentation			NPS Assessment - segment 149: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 149: severe, data (DEQ, 1988)	USFS Data (Site at National Forest Boundary): 7 day average of daily maximums of generally less than 64 with 0/0/0/46/0 days exceeding previous temperature standard (68) in 1991/92/93/94/95 respectively.	Did not meet listing criteria	Potential Concern	
Delintment Lake Lake	41D.DELI	Dissolved Oxygen (DO)			NPS Assessment segment 513: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dodson Creek Mouth to Headwaters	41D-DODS0	Flow Modification			NPS Assessment - segment 159: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 159: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Egypt Creek Mouth to Headwaters	41D-EGYP0	Dissolved Oxygen (DO)			NPS Assessment - segment 156: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 156 and 157: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 156 and 157: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 156: severe, data (DEQ, 1988); BLM data	BLM site in 1997; 7 day ave. max. temperature was 76.8°F, exceeded temperature standard.		303(d) List	Addition
Nicoll Creek Mouth to Headwaters	41D-NICO0	Flow Modification			NPS Assessment - segment 143 and 144: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 144: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur Lake</i>		Sub		<i>Silver</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Headwaters	41D-NICO0	Sedimentation				NPS Assessment - segment 143 and 144: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer		NPS Assessment - segment 144: moderate, data (DEQ, 1988)	USFS Data (2 Sites: At National Forest Boundary and Above Jacks Creek): 7 day average of daily maximums of >64 (77 in 1995 at Boundary) with 75/97/nd/nd and 0/nd/0/0 days exceeding previous temperature standard (68) in 1991/92/93/94 respectively.		303(d) List	
Rough Creek Mouth to Headwaters	41D-ROUG0	Flow Modification				NPS Assessment - segment 145 and 146: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 145 and 146: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer		NPS Assessment - segment 146: moderate, data (DEQ, 1988)	USFS Data (Site at National Forest Boundary): 7 day average of daily maximums of greater than 64 with 80/98 days exceeding previous temperature standard (68) in 1991/1992 respectively.		303(d) List	
Salt Canyon Creek Mouth to Headwaters	41D-SALT	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data	USFS Data (2 Sites: Above FSR 4335 and End of 4335/700 spur): 7 day average of daily maximums of >64 and >64 with 69/60/5/57 and 68/nd/5/69 days exceeding previous temperature standard (68) in 1991/92/93/94 respectively.		303(d) List	
Sawmill Creek Mouth to Headwaters	41D-SAWM0	Flow Modification				NPS Assessment - segment 147 and 148: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 147 and 148: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur Lake</i>		Sub		<i>Silver</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	41D-SAWM0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 148: severe, data (DEQ, 1988)	USFS Data (Site below FSR 4500): 7 day average of daily maximums of greater than 64 (73 in 1995) with 61/46/8/31 days exceeding previous temperature standard (68) in 1991/92/93/94 respectively.		303(d) List	
Silver Creek									
Moon Reservoir to Headwaters	41D-SILV27	Flow Modification			NPS Assessment - segment 150 - 153: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 150 - 152: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 150 - 153: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 150 - 152: severe/moderate, data (DEQ, 1988)	BLM Data (3 sites: below Sawmill Cr, 21S-26E-20nwse; below Claw Cr, 21S-26E-31swnw; below Nicoll Cr, 22S-25E-12se): 7 day average of daily maximums of: 73.9 (1995) and 75.2 (1996) with 47 7-day periods below Sawmill, 79.6 (1996) with 56 7-day periods below Claw, and 77.8 (1996) with 49 7-day periods below Nicoll exceeded temperature standard (64); USFS Data (Site 1.5 miles above FS Boundary): 63/97 days above former standard (68) in 91/92 respectively.		303(d) List	
Wickiup Creek									
Mouth to Headwaters	41D-WICK0	Flow Modification			NPS Assessment - segment 158, 509 - 510: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 158, 509 - 510: severe/moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur Lake</i>		Sub		<i>Silver</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Mineral Creek	41D-WICK0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Two BLM sites in 1997: 7 day ave. max. temperatures were, upper 75.4°F and lower 70.3°F, both sites exceeded the temperature standard.		303(d) List	Addition
Mineral Creek to Headwaters	41D-WICK3	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 24): 7 day average of daily maximums of less than 64 and 65 with 0 and 15 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	Potential Concern	Segment Modification

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur Lake</i>		Sub		<i>Silvies</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Bear Creek										
Mouth to Antelope Creek	41B-BEAR0	Habitat Modification				NPS Assessment - segment 187: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 187: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				NPS Assessment - segment 187: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Burnt Cabin Creek										
Mouth to Headwaters	41B-BURN0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data	USFS Data (Site above mouth): 7 day average of daily maximums of <64/>64/64 with 0/69/5 days exceeding previous temperature standard (68) in 1993/1994/1995 respectively. 1994 data was not used because it was a drought year and other years of data were available which was below the temperature criteria. Temperature was 64°F in 1995 it did not exceed 64°F.	Did not meet listing criteria	Potential Concern	
Camp Creek										
Mouth to Burnt Cabin Creek	41B-CAMP0	Habitat Modification				NPS Assessment - segment 186: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 186: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				NPS Assessment - segment 186: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Crowsfoot Creek										
Mouth to Headwaters	41B-CROW0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data	USFS Data (Site near mouth): 7 day average of daily maximums of greater than 64 with 24 days exceeding previous temperature standard (68) in 1994.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Malheur Lake</i>	Sub	<i>Silvies</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Emigrant Creek									
Blue Creek to Little Emigrant Creek	41B-EMIG13	Flow Modification			NPS Assessment - segment 171: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 171: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 171: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Hay Creek									
Mouth to Headwaters	41B-HAY0	Flow Modification			NPS Assessment - segment 166 and 167: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 166 and 167: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 166 and 167: severe, observation (DEQ, 1988)	USFS Data (Site at FSR 37): 7 day average of daily maximums of 77 and 82 with 60 and 64 days exceeding temperature standard (64) in 1993 and 1994 respectively.		303(d) List	
Landing Creek									
Mouth to Headwaters	41B-LAND0	Flow Modification			NPS Assessment - segment 173 and 167: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 173 and 167: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 173: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Myrtle Creek									
Mouth to Headwaters	41B-MYRT0	Sedimentation			NPS Assessment - segment 164: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 31): 7 day average of daily maximums of 74 and 76 with 61 and 97 days exceeding temperature standard (64) in 1993 and 1994 respectively.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur Lake</i>		Sub		<i>Silvies</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Poison Creek										
Mouth to Headwaters	41B-POIS0	Flow Modification				NPS Assessment - segment 172: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 172: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				NPS Assessment - segment 172: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Sawtooth Creek										
Mouth to Hughet Creek	41B-SAWT0	Flow Modification				NPS Assessment - segment 168: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 168: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				NPS Assessment - segment 168: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Scotty Creek										
Mouth to North/South Confluence	41B-SCOT0	Habitat Modification				NPS Assessment - segment 185: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 185: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data; NPS Assessment - segment 185: moderate, observation (DEQ, 1988)	USFS Data (Site at FSR 3190): 7 day average of daily maximums of 69 and 74 with 10 and 69 days exceeding temperature standard (64) in 1993 and 1994 respectively.		303(d) List	
Scotty Creek, North Fork										
Mouth to Headwaters	41B-SCNF0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data (1994)	USFS Data (Site at mouth): 7 day average of daily maximums was less than 64 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Scotty Creek, South Fork										
Mouth to Headwaters	41B-SCSF0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 74 with 74 days exceeding temperature standard (64) in 1994.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Malheur Lake</i>	Sub	<i>Silvies</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Silvies River									
West/East Fork to Trout Creek	41B-SILV0	Flow Modification			NPS Assessment - segment 161: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 161 - 163: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 161: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Trout Creek to Keller Creek	41B-SILV56	Dissolved Oxygen (DO)			NPS Assessment - segment 184: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 184: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 184: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 184: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 184: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Skull Creek									
Mouth to Dry Gulch	41B-SKUL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Three BLM sites in 1997: 7 day ave. max. temperature for upper was 61.0°F, middle was 65.7°F and lower was 70.3°F. Middle and lower exceeded temperature standard		303(d) List	Addition
Dry Gulch to headwaters	41B-SKUL5	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site in 1997: 7 day ave. max. temperature for upper was 61.0°F. Did not exceeded temperature standard of 64°F	Did not meet listing criteria	OK	Addition
Trout Creek, South Fork									
Mouth to Headwaters	41B-TRSF0	Flow Modification			NPS Assessment - segment 174: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 174: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur Lake</i>		Sub		<i>Silvies</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	41B-TRSF0	Temperature			NPS Assessment - segment 174: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
West Myrtle Creek									
Mouth to Headwaters	41B-MYW0	Sedimentation			NPS Assessment - segment 165: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Yellowjacket Creek									
Mouth to Headwaters	41B-YELLO	Sedimentation			NPS Assessment - segment 508: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 508: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Bully</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Bully Creek Mouth to Bully Creek Res		33D-BULL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USBR Data; d1 in 305(b) Report (DEQ, 1994); Malheur County (1981); NPS Assessment - segment 244: severe, data (DEQ, 1988)	USBR Data (Site MAL105; RM 2.3): 41% (16 of 39) Summer values exceeded fecal coliform standard (400) with a maximum of 1800 between WY 1986 - 1995. MOWC data in 1997 shows no exceedence of Fecal Coliform or E. Coli bacteria standard, need several more years of data to consider removing from 303d list.		303(d) List
			Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USBR Data; Malheur County (1981); NPS Assessment - segment 244: severe, data (DEQ, 1988)	USBR Data (Site MAL105; RM 2.3): 8% (5 of 59) FWS values exceeded fecal coliform standard (400) with a maximum of 8350 between WY 1986 - 1995.	Did not meet listing criteria	OK
			Chlorophyll a		Summer	USBR Data	USBR Data (Site MAL105; RM 2.3): 6% (2 of 31) Summer values exceeded chlorophyll a standard (15 ug/l) with a 3 month average exceeding 15 ug/l in 1995 based on WY 1986 - 1995 data.		303(d) List
			Dissolved Oxygen (DO)	Warm-water aquatic life: DO < 5.5 mg/l	Year Around	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site MAL105; RM 2.3): 4% (4 of 98) Summer values exceeded warm water dissolved oxygen standard (5.5 mg/l) with a minimum of 3.3 between WY 1986 - 1995 (Warm water fishery, annual).	Did not meet listing criteria	OK
			Flow Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 244: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
			Habitat Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 244: severe, observation (DEQ, 1988)		No supporting data or information	Need Data
			Nutrients			NPS Assessment - segment 244: severe, data (DEQ, 1988)		No supporting data or information	Need Data
			pH		Summer	USBR Data	USBR Data (Site MAL105; RM 2.3): 0% (0 of 39) Summer values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub		<i>Bully</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Bully Creek Res	33D-BULL0	pH		Fall-Winter-Spring		USBR Data	USBR Data (Site MAL105; RM 2.3): 0% (0 of 57) FWS values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation						Malheur County (1979); NPS Assessment - segment 244: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data
		Temperature	Warm Water Fishery	Summer		USBR Data; NPS Assessment - segment 244: moderate, observation (DEQ, 1988)	USBR Data (Site MAL105; RM 2.3): Summer temperature annual maximums ranged from 61.8 to 75.2 between WY 1986 - 1995 (Warm water fishery).	Did not meet listing criteria, designated beneficial use is as Warm Water Fishery	OK	
		Toxics	Pesticides			NPS Assessment - segment 244: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Bully Creek Res to Westfall	33D-BULL14	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	June 1 - October 31		Malheur County (1979); Malheur-Owyhee Watershed Council data	Malheur Co Data Two sites: (Site 21, 07F011, near Westfall): 100% (10 of 10) and (Site 22, 07F013, above Reservoir) 40% (4 of 10) June through October values respectively exceeded fecal coliform standard (400) with a maximum of 23,900 in 1978 - 1980. MOWC, 2 sites: above reservoir 1996 no exceedences of Fecal Coliform standard in 1996/97 or E. coli standard in 1997. Site below Westfall two exceedences of Fecal Coliform standard in 1996 and 1997 high of 1470. One exceedence of E. Coli standard of 720 in 1997.		303(d) List	Segment Modification
Bully Creek Res to Headwaters		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	November 1 - May 31		Malheur County (1979)		Malheur Co Data (Site 21, 07F011, near Westfall and Site 22, 07F013, above Reservoir): 10% (1 of 10) and 12% (1 of 8) November through May values respectively exceeded fecal coliform standard (400) with a maximum of 1600 in 1978 - 1980.	Did not meet listing criteria	OK

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub		<i>Bully</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season							
Bully Creek Res to Headwaters	33D-BULL14	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Malheur-Owyhee Watershed Council	Four MOWC sites above reservoir, one sample each below cold water standard, site below Westfall had two sample below standard. Area below Westfall is a potential concern. however, temperature was not collected so unable to determine percent	No supporting data or information, insufficient data to determine level of DO in the stream.	Potential Concern (need data)	Addition		
		Flow Modification			NPS Assessment - segment 246: moderate, observation (DEQ, 1988)					No supporting data or information	Need Data
		Habitat Modification			NPS Assessment - segment 245 and 246: severe, observation (DEQ, 1988)					No supporting data or information	Need Data
		Nutrients			NPS Assessment - segment 245 and 246: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data				
		pH			Malheur-Owyhee Watershed Council	Four MOWC sites above reservoir all were within pH standard. Low of 7.8 and high of 9.0.	Did not meet listing criteria	OK	Addition		
		Sedimentation			Malheur County (1979); NPS Assessment - segment 246: severe, observation (DEQ, 1988)	No supporting data or information	Need Data				
		Temperature			NPS Assessment - segment 245 and 246: severe, observation (DEQ, 1988)	No supporting data or information	Need Data				
		Toxics	Pesticides		NPS Assessment - segment 245 and 246: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data				
Westfall to Headwaters	33D-BULL36	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	June 1 - October 31	Malheur County (1979); Malheur-Owyhee Watershed Council data	MOWC, 2 sites above Westfall had no exceedences of standard for Fecal Coliform in 1996/97 or 1 sites for E. coli in 1997.	Did not meet listing criteria	OK	Removed (5)		
Bully Creek Reservoir Reservoir	33D.BULL	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 312: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data			

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	Waterbody	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
<i>Malheur River</i>	33D.BULL	Bacteria	Water Contact Recreation (E. coli) Fresh Water		Malheur-Owyhee Watershed Council data	MOWC site shows no exceedence of fecal coliform or e. coli bacteria standard in 1997	Did not meet listing criteria	OK	Addition	
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 312: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 312: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		pH			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 312: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Turbidity			Spring/Summer	Malheur River Fish Plan (ODFW, 1990); Malheur County (1981)		No supporting data or information	Need Data	
Clover Creek Mouth to Headwaters	33D-CLOV0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Malheur-Owyhee Watershed Council data	MOWC site shows no exceedence of fecal coliform in 1996	Did not meet listing criteria	OK	Addition	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Malheur-Owyhee Watershed Council data	MOWC site shows no exceedence of cold water DO standard in 1996, however, temperature was not collected so unable to determine percent saturation..	No supporting data or information, insufficient data to determine level of DO in the stream.	Need Data	Addition	
		Flow Modification				NPS Assessment - segment 252 and 253: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification				NPS Assessment - segment 252 and 253: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH				Malheur-Owyhee Watershed Council data	MOWC site shows no exceedence of pH in 1996	Did not meet listing criteria	OK	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Bully</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	33D-CLOV0	Sedimentation			Malheur County (1979); NPS Assessment - segment 252 and 253: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 252 and 253: moderate, observation (DEQ, 1988)				
Cottonwood (Mountain) Creek									
Mouth to Headwaters	33D-COTM0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Malheur-Owyhee Watershed Council data	MOWC site shows one exceedence of fecal coliform of 1800 in 1996	Did not meet listing criteria	Potential Concern	Addition
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Malheur-Owyhee Watershed Council data	MOWC site shows two of five samples exceeded DO cold water standard in 1996, however, temperature was not collected so unable to determine percent saturation.	No supporting data or information, insufficient data to determine level of DO in the stream.	Potential Concern (Need Data)	Addition
Swede Flat Creek to Headwaters		Flow Modification			NPS Assessment - segment 262: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 262: moderate, observation (DEQ, 1988)				
Mouth to Headwaters		pH		Summer	Malheur-Owyhee Watershed Council data	MOWC site shows no exceedence of pH in 1996	Did not meet listing criteria	OK	Addition
Swede Flat Creek to Headwaters		Sedimentation			NPS Assessment - segment 262: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 262: moderate, observation (DEQ, 1988)				
Cottonwood Creek									
Mouth to Forks	33D-COTT0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Malheur-Owyhee Watershed Council data	MOWC site shows no exceedence of fecal coliform in 1996	Did not meet listing criteria	OK	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Bully</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Forks	33D-COTT0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Malheur-Owyhee Watershed Council data	MOWC site shows one exceedence of cold water DO standard of 7.8 in 1996, however, temperature was not collected so unable to determine percent saturation.	No supporting data or information, insufficient data to determine level of DO in the stream.	Need Data	Addition	
		Flow Modification			NPS Assessment - segment 264: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment - segment 264: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients			NPS Assessment - segment 264: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		pH			Summer	Malheur-Owyhee Watershed Council data	MOWC site shows no exceedence of pH in 1996	Did not meet listing criteria	OK	Addition
		Sedimentation				NPS Assessment - segment 264: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature				NPS Assessment - segment 264: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Toxics	Pesticides			NPS Assessment - segment 264: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
Indian Creek Mouth to Headwaters	33D-INDI0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Malheur-Owyhee Watershed Council data	MOWC site shows one exceedence of fecal coliform of 640 in 1996	Did not meet listing criteria	OK	Addition	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Malheur-Owyhee Watershed Council data	MOWC site shows exceedence of cold water DO measurements in 1996 measurements 6.4 - 7.5mg/l, however, temperature was not collected so unable to determine percent saturation..	No supporting data or information, insufficient data to determine level of DO in the stream.	Potential Concern (Need Data)	Addition	
		pH		Summer	Malheur-Owyhee Watershed Council data	MOWC site shows no exceedence of pH in 1996	Did not meet listing criteria	OK	Addition	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub	<i>Bully</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Indian Creek, South Fork									
Mouth to Headwaters	33D-INSF0	Flow Modification			NPS Assessment - segment 263: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 263: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 263: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 263: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
NG Creek									
Mouth to NG Creek Reservoir	33D-N.G.0	Flow Modification			NPS Assessment - segment 261: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 261: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 261: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 261: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rail Canyon									
Mouth to Headwaters	33D-RAILO	Flow Modification			NPS Assessment - segment 254: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 254: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 254: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 254: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Lower Malheur</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Malheur River									
Mouth to Hog Creek (Namorf)	33C-MALH0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; USBR Data; d1 in 305(b) Report (DEQ, 1994); Mal Co (81); NPS Assessment - segment 238 and 239: severe, data (DEQ, 1988)	USBR Data (4 Sites: MAL006, MAL102, MAL103, MAL104; RM 0.5, 20, 49, 67.2): 56% (22/39); 69% (27/39); 15% (6/39); 6% (2/31) Summer values respectively exceeded fecal coliform standard (400) with a maximum of 9000 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; USBR Data; d1 in 305(b) Report (DEQ, 1994); Mal Co (81); NPS Assessment - segment 238 and 239: severe, data (DEQ, 1988); Malheur-Owyhee Watershed Council data	USBR Data (4 Sites: MAL006, MAL102, MAL103, MAL104; RM 0.5, 20, 49, 67.2): 12% (6/52); 19% (10/52); 5% (3/58); 0% (0/40) FWS values respectively exceeded fecal coliform standard (400) with a maximum of 10,800 between WY 1986 - 1995. MOWC 7 sites for spring/summer of 1997 showed no exceedence of fecal coliform or e. coli bacteria standard. Need several more years of data to consider removing from 303d list.		303(d) List	
		Chlorophyll a		Summer	USBR Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 238: severe, data (DEQ, 1988)	USBR Data (4 Sites: MAL006, MAL102, MAL103, MAL104; RM 0.5, 20, 49, 67.2): 87% (27/31); 65% (20/31); 19% (6/31); 6% (2/31) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with 3 month ave exceeding each year in lower R from WY 86-95.		303(d) List	
		Dissolved Oxygen (DO)	Warm-water aquatic life: DO < 5.5 mg/l	Year Around	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (4 Sites: MAL006, MAL102, MAL103, MAL104; RM 0.5 - 67.2): 1% (1/91); 2% (2/91); 0% (0/97); 0% (0/71) Summer values respectively exceeded warm water dissolved oxygen standard (5.5 mg/l) with a min of 5.1 from 86 - 95 (Warm water fishery, annual).	Did not meet listing criteria	OK	
		Flow Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 237 - 239: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Lower Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96		
Name & Description	Waterbody Segment	Parameter	Criteria	Season							
Mouth to Hog Creek (Namorf)	33C-MALH0	Habitat Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 237: severe, observation (DEQ, 1988)		No supporting data or information	Need Data			
		Nutrients			NPS Assessment - segment 237 - 239: severe, data (DEQ, 1988)		No supporting data or information	Need Data			
		pH			Summer	DEQ Data; USBR Data	USBR Data (4 Sites: MAL006, MAL102, MAL103, MAL104; RM 0.5, 20, 49, 67.2): 0% (0 of 39, for lower 3 sites) and 3% (1 of 31) Summer values respectively exceeded pH standard (6.5 - 9.0) with a maximum of 9.1 between WY 1986 - 1995.	Did not meet listing criteria	OK		
		pH			Fall-Winter-Spring	DEQ Data; USBR Data	USBR Data (4 Sites: MAL006, MAL102, MAL103, MAL104; RM 0.5, 20, 49, 67.2): 0% (0 of 50); 0% (0 of 50); 0% (0 of 56); 3% (1 of 39) FWS values respectively exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Sedimentation				Malheur County (1979); NPS Assessment - segment 237 - 239: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Warm Water Fishery			Summer	USBR Data; DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 237 and 238: moderate, observation (DEQ, 1988)	USBR Data (4 Sites: MAL006, MAL102, MAL103, MAL104; RM 0.5, 20, 49, 67.2): Summer temperatures range up to annual maximums of 64.7 to 82 between WY 1986 - 1995 (Warm water fishery).	Did not meet listing criteria, designated beneficial use is as Warm Water Fishery	OK	
		Toxics					NPS Assessment - segment 237 and 238: moderate, data (DEQ, 1988)	No supporting data or information	Need Data		
		Toxics		Water - Pesticides (DDT)			USGS Data (1994); NPS Assessment - segment 237 and 238: moderate, observation/data (DEQ, 1988)	USGS Data (Site at Malheur River near Ontario): 3 water samples with a range of 0.001 - 0.004 ug/l and an average of 0.003 ug/l exceeded DDT standard (fresh chronic criteria - 0.001 ug/l, water and fish ingestion - 0.024 ng/l) in 1990.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Lower Malheur</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Hog Creek (Namorf)	33C-MALH0	Toxics	Water - Pesticides (Dieldrin)		USGS Data (1994); NPS Assessment - segment 237 and 238: moderate, observation/data (DEQ, 1988)	USGS Data (Site at Malheur River near Ontario): 3 water samples with a range of 0.003 - 0.010 ug/l and an average of 0.007 ug/l exceeded Dieldrin standard (fresh chronic criteria - 0.0019 ug/l, water and fish ingestion - 0.071 ng/l) in 1990.		303(d) List	
		Turbidity			Malheur River Fish Plan (ODFW, 1990); Malheur County (1981)		No supporting data or information	Need Data	
Hog Creek to North Fork Malheur R	33C-MALH069.7	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USBR Data; Malheur County (1981)	USBR Data (Site MAL104; RM 67.2): 0% (0/40) FWS values exceeded fecal coliform std (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USBR Data; Malheur County (1981)	USBR Data (Site MAL104; RM67.2): 6% (2/31) Summer values exceeded fecal coliform standard (400) with a maximum of 1300 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Flow Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 240: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 240: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Turbidity		Spring/Summer	Malheur River Fish Plan (ODFW, 1990); Malheur County (1981)		No supporting data or information	Need Data	
Pole Creek Mouth to Headwaters	33C-POLE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM two sites: upper in 1995/96, 7 day ave. max. temperature was 84.8/86.9°F, lower was 80.9/84.0°F both exceeded temperature standard of 64°F.		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Middle Snake / Payette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Dork Canal Mouth to Headwaters	33G-DORK0	Bacteria			City of Ontario Stormwater Management Plan (March 1983)	Century West Data (#2 Dork Canal at Malheur Drive): 33% (1 of 3) values exceeded fecal coliform standard (400) with a maximum of 550 in 1981 - 1982.	Insufficient supporting data or information (a minimum of two exceedences need for a listing).	Need Data	Addition
Jacobsen Gulch Mouth to Headwaters	33G-JACO0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Spring/Summer	Malheur County (1981)	Malheur Co Data (Site 38, 07Z007, at Hwy 201): 100% (8 of 8) Summer values exceeded fecal coliform standard (400) with a maximum of 14,600 in 1978 - 1980.		303(d) List	
Shepard Gulch Mouth to Headwaters	33G-SHEP0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Spring/Summer	Malheur County (1981)	Malheur Co Data (Site 40, 07Z008, at Mosquite Road): 88% (7 of 8) Summer values exceeded fecal coliform standard (400) with a maximum of 44,000 in 1978 - 1980.		303(d) List	

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Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Alder Creek Mouth to Headwaters		Sedimentation		Summer	NPS Assessment - segment 211: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
	33B-ALDE0								
Bear Creek Mouth to Headwaters		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at 16S,36E,33): 7 day average of daily maximums of 80 with 71 days exceeding temperature standard (64) in 1993.		303(d) List	
Beulah Reservoir Reservoir		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 313: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Big Creek Mouth to Meadow Fork		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	ODFW Data - Bull Trout Habitat	ODFW Data (Site at FSR 16, 16S,33.5E,14): 7 day average of daily maximums of 59 and 61 exceeded Bull Trout temperature standard (50) in 1993 and 1994 respectively.		303(d) List	
Meadow Fork to Headwaters		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at Wilderness Boundary, 15S,34E,27): 7 day average of daily maximums of less than 50 with maximums of 50/51/47/49 did not exceed Bull Trout temperature standard (50) in 1991/92/93/94 respectively.	Did not meet listing criteria	OK	
Bluebucket Creek Mouth to Headwaters		Flow Modification			NPS Assessment - segment 183: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
	33B-BLUE0	Habitat Modification			NPS Assessment - segment 183: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 183: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	33B-BLUE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (1995); NPS Assessment - segment 183: severe, data (DEQ, 1988)	BLM Data (Site North of Moffit Table, 18S,34E,34sene): 7 day average of daily maximums of 79.5 with 44 days exceeding temperature standard (64) in 1995. In 1997 was 21.2 °C.		303(d) List	
Bosenberg Creek Mouth to Headwaters	33B-BOSE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS (1991 - 1994); ODFW (1994)	USFS Data (Site at FSR 064): 7 day average of daily maximums of <64 with 0 days exceeding temperature standard (64) in 1991 - 1994; ODFW Data (Site at FSR 1648): 7 day average of daily maximums of 61 with 0 days exceeding temperature standard in 1994.	Did not meet listing criteria	OK	
Calf Creek Mouth to Headwaters	33B-CALF0	Flow Modification			NPS Assessment - segment 260: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 260: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 260: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 260: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Clear Creek Mouth to Jims Reservoir	33B-CLEA0	Flow Modification			NPS Assessment - segment 200: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 200: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 200: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 200: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Coleman Creek Mouth to Headwaters	33B-COLE0	Sedimentation			NPS Assessment - segment 504 and 517: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	33B-COLE0	Temperature			NPS Assessment - segment 504 and 517: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cottonwood Creek									
Mouth to Headwaters	33B-COTT0	Habitat Modification			NPS Assessment - segment 248 - 251: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 248 - 251: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 248, 250 and 251: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 248 - 251: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cottonwood Reservoir to Headwaters	33B-COTT10	Flow Modification			NPS Assessment - segment 195 and 196: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 195 and 196: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 195 and 196: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Cottonwood Reservoir Reservoir	33B.COTT	Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 314: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Crane Creek									
Mouth to Little Crane Creek	33B-CRAN0	Habitat Modification			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at RM 0.1, 16S,35E,23): 7 day average of daily maximums of 67/63/63 exceeded Bull Trout temperature standard (50) in 1992/93/94 respectively.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Little Crane Creek to Headwaters	33B-CRAN1	Habitat Modification			NPS Assessment - segment 210: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 210: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 210: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Deadman Creek Mouth to Headwaters	33B-DEAD0	Flow Modification			NPS Assessment - segment 271: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 271: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 271: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 271: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Elk Creek Mouth to Headwaters	33B-ELK0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at RM 0.5, 15S,35.5E,27): 7 day average of daily maximums of 56.7/58.0/53.9/57.3 exceeded Bull Trout temperature standard (50) in 1991/92/93/94 respectively.		303(d) List	
Gold Creek Mouth to Headwaters	33B-GOLD0	Flow Modification			NPS Assessment - segment 257: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 257: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 257: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season				
	Mouth to Headwaters	33B-GOLD0	Temperature		NPS Assessment - segment 257: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Granite Creek								
	Mouth to Headwaters	33B-GRAN0	Flow Modification		NPS Assessment - segment 281: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Habitat Modification		NPS Assessment - segment 281: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Sedimentation		NPS Assessment - segment 281: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Temperature		NPS Assessment - segment 281: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Hog Creek								
	Mouth to Headwaters	33B-HOGO	Flow Modification		NPS Assessment - segment 255: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Habitat Modification		NPS Assessment - segment 255: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Sedimentation		NPS Assessment - segment 255: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Temperature		NPS Assessment - segment 255: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Hunter Creek								
	Mouth to Headwaters	33B-HUNT0	Flow Modification		NPS Assessment - segment 258: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Habitat Modification		NPS Assessment - segment 258: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Sedimentation		NPS Assessment - segment 258: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	

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Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	33B-HUNT0	Temperature			NPS Assessment - segment 258: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Lake Creek									
Mouth to Headwaters	33B-LAKE0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	ODFW Data (1993 - 1994) - Bull Trout Habitat	ODFW Data (Site at FSR 16, 16S,33.5E,14): 7 day average of daily maximums of 65 and 74 exceeded Bull Trout temperature standard (50) in 1993 and 1994 respectively.		303(d) List	
Little Crane Creek									
Mouth to Headwaters	33B-CRLI0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at RM 4.5, 16S,35E,9): 7 day average of daily maximums of 58/55/52/55 exceeded Bull Trout temperature standard (50) in 1991/92/93/94 respectively.		303(d) List	
Little Malheur River									
Mouth to Headwaters	33B-MALI0	Dissolved Oxygen (DO)			NPS Assessment - segment 188 and 189: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 188 and 189: moderate/severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 188 and 189: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 188 and 189: moderate/severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 188 and 189: moderate, observation (DEQ, 1988)	USFS Data (Site at FSR 1672, 15S,36E,25): 7 day average of daily maximums of 70 and 80 exceeded temperature standard (64) in 1993 and 1994 respectively; BLM data also available.		303(d) List	
Little Pine Creek									
Mouth to Headwaters	33B-PILI0	Dissolved Oxygen (DO)			NPS Assessment - segment 181: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 181: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	33B-PIL10	Habitat Modification			NPS Assessment - segment 181: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 181: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 181: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Little Stinkingwater Creek									
Mouth to Headwaters	33B-STL10	Flow Modification			NPS Assessment - segment 201: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 201: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 201: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 201: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Lost Creek									
Mouth to Headwaters	33B-LOST0	Habitat Modification			NPS Assessment - segment 222: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 222: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 222: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 222: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Malheur River									
North Fork Malheur R to Warm Springs Res	33B-MALH096.3	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Malheur County (1981); Malheur-Owyhee Watershed Council data	Malheur Co Data (Site 5, 07F010, near Juntura): 75% (6 of 8) Summer values exceeded fecal coliform standard (400) with a maximum of 3800 in 1978 - 1980. MOWC data in 1997 shows no exceedence of Fecal Coliform or E. Coli bacteria standard, need several more years of data to consider removing from 303d list.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
North Fork Malheur R to Warm Springs Res	33B-MALH096.3	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Malheur County (1981)	Malheur Co Data (Site 5, 07F010, near Juntura): 0% (0 of 11) FWS values exceeded fecal coliform standard (400) in 1978 - 1980.	Did not meet listing criteria	OK	
		Habitat Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 240: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Warm Springs Reservoir to Wolf Creek	33B-MALH123	Bacteria	Water Contact Recreation (E. coli) Fresh Water		Malheur-Owyhee Watershed Council data	MOWC site shows one exceedence of fecal coliform and no exceedence of e. coli bacteria standard in 1997	Did not meet listing criteria	OK	Addition
		Flow Modification			IWR (ODFW); Flow Data (USGS); Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 192 and 194: moderate, data (DEQ, 1988)	Redband Trout are a state sensitive species, water withdrawal has been identified as a concern (ODFW, 1990); IWR (68359) is often not met at USGS gage (13214000).		303(d) List	
		Sedimentation			NPS Assessment - segment 192 and 194: moderate/severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Wolf Creek to Headwaters	33B-MALH168	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 194: severe, data (DEQ, 1988)	BLM Data (3 Sites: Upton Cabin, 22S,36E2nsw; Carey Spring, 21S,36E,21sw; Below Hwy 20, 21S,36E,5nese): 7 day average of daily maximums of 80.1; 71.5; 77.7 with 41; 14; 36 days respectively exceeding temperature standard (64) in 1995.		303(d) List	
		Flow Modification			NPS Assessment - segment 193: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 193: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Wolf Creek to Headwaters	33B-MALH168	Sedimentation			NPS Assessment - segment 193: moderate, data (DEQ, 1988)	USFS Data (Site at FSR 1651 (RM 183), 17S-34E-18): 7 day average of daily maximums of 77/76/71/79 with 54/82/57/78 days exceeding temperature standard (64) in 1991/92/93/94 respectively. Two BLM sites in 1997 were 24.1 and 24.6 °C.	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 193: moderate, data (DEQ, 1988); BLM data				303(d) List
North Fork Malheur R to Warm Springs Res	33C-MALH096.3	Flow Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 240: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Malheur River, North Fork									
Mouth to Beulah Reservoir	33B-MANF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Spring/Summer	Malheur County (1981)	Malheur Co Data (Site 6, 07F003, near mouth): 66% (8 of 12) Summer values exceeded fecal coliform standard (400) with a maximum of 8000 in 1978 - 1980. MOWC data in 1997 shows no exceedence of Fecal Coliform or E. Coli bacteria standard, need several more years of data to consider removing from 303d list.		303(d) List	
		Flow Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 191: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 191: moderate, observation (DEQ, 1988)		No supporting data or information	Potential Concern	
Beulah Reservoir to Crane Creek	33B-MANF18	Flow Modification			IWR (ODFW); Flow Data (USGS); Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 190: moderate, data (DEQ, 1988)	Redband Trout are a state sensitive species, water withdrawal has been identified as a concern (ODFW, 1990); IWR (71456) is often not met at USGS gage (13216500).		303(d) List	

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Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Beulah Reservoir to Crane Creek	33B-MANF18	Sedimentation			NPS Assessment - segment 190: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; BLM Data	BLM Data (Site near RM 23) and USFS Data (Site at RM 41.7, 16S-35E-36): 7 day average of daily maximums of 83 and 74 with 89 and 65 days respectively exceeding temperature standard (64) in 1994. BLM RM 23 site in 1996, 7 day ave. max. temperature was 78.2°F, BLM site at RN 29 was 73.4°F.		303(d) List	
Crane Creek to Headwaters	33B-MANF43.8	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data; ODFW Data - Bull Trout Habitat	ODFW Data (Site at RM 44): 7 day average of daily maximum of 77 in 1994 and USFS Data (Site at RM 50, 15S,35.5E,26): 7 day average of daily maximums of 61/64/62/79 in 91/92/93/94 respectively exceeded Bull Trout temperature standard (50) at both sites.		303(d) List	
Malheur River, South Fork									
Mouth to Crane Creek	33B-MASF0	Flow Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 206 and 208: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Malheur River Fish Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Sedimentation			Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 206 and 208: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 206 and 208: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
McCoy Creek									
Mouth to Headwaters	33B-MCCO0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data	ODFW Data (Site at USFS Gage - Logan Valley): 7 day average of daily maximums of 62 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Muddy Creek									
Mouth to Headwaters	33B-MUDD0	Dissolved Oxygen (DO)			NPS Assessment - segment 182: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 182: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 182: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 182: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 182: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Newell Creek									
Mouth to Headwaters	33B-NEWE0	Flow Modification			NPS Assessment - segment 202: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 202: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 202: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 202: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Pine Creek									
Mouth to Alkali Creek	33B-PINE0	Dissolved Oxygen (DO)			NPS Assessment - segment 180: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 180: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 180: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 179 and 180: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 180: severe, data (DEQ, 1988)	USFS Data (Site at FSR 120): 7 day average of daily maximums of 75 and 77 with 88 and 100 days exceeding temperature standard (64) in 1993 and 1994 respectively.		303(d) List	

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Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Pole Creek Mouth to Headwaters	33B-POLE0	Flow Modification			WRD Data; IWR (ODFW); NPS Assessment - segment 259: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			WRD Data; IWR (ODFW); NPS Assessment - segment 259: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 259: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sheep Creek Mouth to Headwaters	33B-SHEE0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	ODFW Data - Bull Trout Habitat	ODFW Data (Site at RM 0.5): 7 day average of daily maximums of 57 exceeded Bull Trout temperature standard (50) in 1994.		303(d) List	
Snowshoe Creek Mouth to Headwaters	33B-SNOW0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 59, 54, and 63 with 0 days exceeding temperature standard (64) in 1992, 1993, and 1994 respectively.	Did not meet listing criteria	OK	
Squaw Creek, North Fork Mouth to Headwaters	33B-SQNF0	Flow Modification			NPS Assessment - segment 256: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 256: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 256: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 256: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Stinkingwater Creek Mouth to Headwaters	33B-STIN0	Flow Modification			NPS Assessment - segment 197 and 199: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 197 and 199: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 197, 198 and 199: severe/moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 197, 198 and 199: severe/moderate, data/observation (DEQ, 1988)	BLM Data (2 Sites: Middle, 23S,35E,6sene and Upper, 23S35E,18sww): 7 day average of daily maximums of 84.3 with 44 7-day periods in 1995 and 79.9 with 63 7-day periods in 1996 at the middle site; and 67.4 with 32 7-day periods in 1995 exceeded temperature standard (64).		303(d) List	
Summit Creek Mouth to Headwaters	33B-SUMM0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 1651; RM 2.75): 7 day average of daily maximums of 80, 76, and 79 with 77, 84, and 80 days exceeding temperature standard (64) in 1992, 1993, and 1994 respectively.		303(d) List	
Swamp Creek Mouth to Headwaters	33B-SWAM0	Flow Modification			WRD Data; IWR (ODFW); NPS Assessment - segment 270: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			WRD Data; IWR (ODFW); NPS Assessment - segment 270: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 270: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Malheur River</i>		Sub <i>Upper Malheur</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	33B-SWAM0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	ODFW Data - Bull Trout Habitat; NPS Assessment - segment 270: moderate, observation (DEQ, 1988)	ODFW Data (Site near mouth): 7 day average of daily maximums of 57.8 exceeded Bull Trout temperature standard (50) in 1994.		303(d) List	
Warm Springs Reservoir Reservoir	33B.WARM	Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 315: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Turbidity		Spring/Summer	Malheur River Fish Plan (ODFW, 1990); Malheur County (1981); Atlas of Oregon Lakes (1985)		No supporting data or information	Need Data	
Wolf Creek Mouth to Calamity Creek	33B-WOLF0	Sedimentation			NPS Assessment - segment 270: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Headwaters		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 15, 18S-33E-18): 7 day average of daily maximums of 75 with 69 days exceeding temperature standard (64) in		303(d) List	
Wolf Creek, East Fork Mouth to Headwaters	33B-WOEF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth, 18S-33E-12): 7 day average of daily maximums of 69 and 78 with 34 and 82 days exceeding temperature standard (64) in 1992 and 1994 respectively.		303(d) List	

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Basin <i>Malheur River</i>		Sub		<i>Willow</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Basin Creek Mouth to Headwaters		33E-BASIO	Sedimentation			Malheur County (1981); Malheur River Fish Plan (ODFW, 1990)		No supporting data or information	Need Data	
Cow Creek Mouth to Headwaters		33E-COW0	Flow Modification			NPS Assessment - segment 285: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
			Habitat Modification			NPS Assessment - segment 285: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
			Temperature			NPS Assessment - segment 285: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dry Gulch Mouth to Headwaters		33E-DRYG0	Flow Modification			NPS Assessment - segment 287: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
			Habitat Modification			NPS Assessment - segment 287: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Fish Creek Mouth to Malheur Res		33E-FISH0	Flow Modification			NPS Assessment - segment 267: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
			Habitat Modification			NPS Assessment - segment 267: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
			Sedimentation			NPS Assessment - segment 267: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
			Temperature			NPS Assessment - segment 267: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Grouse Creek Mouth to Malheur Res		33E-GROU0	Flow Modification			NPS Assessment - segment 266: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Malheur River</i>		Sub		<i>Willow</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Mouth to Malheur Res	33E-GROU0	Habitat Modification			NPS Assessment - segment 266: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 266: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 266: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Malheur Reservoir Reservoir	33E.MALH	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 316: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 316: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 316: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 316: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pole Creek Mouth to Headwaters	33E-POLE0	Flow Modification			NPS Assessment - segment 265: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 265: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Malheur County (1979); NPS Assessment - segment 265: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 265: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Malheur River</i>		Sub		Willow					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willow Creek									
Mouth to Pole Creek	33E-WILLO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USBR Data; d1 in 305(b) Report (DEQ, 1994); Malheur County (1981); NPS Assessment - segment 234: severe, data (DEQ, 1988)	USBR Data (Site MAL005; RM 4.3): 44% (26 of 59) FWS values exceeded fecal coliform standard (400) with a maximum of 7000 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USBR Data; d1 in 305(b) Report (DEQ, 1994); Malheur County (1981); NPS Assessment - segment 234: severe, data (DEQ, 1988); Malheur-Owyhee Watershed Council data.	USBR Data (Site MAL005; RM 4.3): 74% (29 of 39) Summer values exceeded fecal coliform standard (400) with a maximum of 47,000 between WY 1986-1995. MOWC, 2 sites lower site exceeded fecal coliform 4 out of 6 samples high of 1400 in 1997 and 1 out of 6 for e. coli bacteria high of 960. Upper site fecal coliform one exceedence 460 and two at 400, no exceedence on e. coli standard.		303(d) List	
		Chlorophyll a		Summer	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site MAL005; RM 4.3): 35% (11 of 31) Summer values exceeded chlorophyll a standard (15 ug/l) with 3 month averages exceeding 15 ug/l in 88, 90, 92, and 95 between WY 1988 - 1995.		303(d) List	
		Dissolved Oxygen (DO)	Warm-water aquatic life: DO < 5.5 mg/l	Year Around	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site MAL005; RM 4.3): 2% (2 of 98) Summer values exceeded warm water dissolved oxygen standard (5.5 mg/l) with a minimum of 3.6 between WY 1986 - 1995 (Warm water fishery, annual).	Did not meet listing criteria	OK	
		Flow Modification			Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 234: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Malheur River Fish Plan (ODFW, 1990)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 234: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	USBR Data	USBR Data (Site MAL005; RM 4.3): 0% (0 of 57) FWS values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Malheur River</i>		Sub		<i>Willow</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Pole Creek	33E-WILLO	pH		Summer		USBR Data	USBR Data (Site MAL005; RM 4.3): 0% (0 of 39) Summer values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				Malheur County (1979); NPS Assessment - segment 234: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Warm Water Fishery	Summer		ODFW Data (1992 - 1994); USBR Data	USBR Data (Site MAL005; RM 4.3): Summer temperature maximums ranged from 61.5 to 68.9 between WY 1986 - 1995 (Warm water fishery).	Did not meet listing criteria, designated beneficial use is as Warm Water Fishery	OK	
Pole Creek to Malheur Res	33E-WILL28	Bacteria	Water Contact Recreation (E. coli) Fresh Water			Malheur-Owyhee Watershed Council data	MOWC site shows no exceedence of fecal coliform or e. coli bacteria standard in 1997	Did not meet listing criteria	OK	Addition
		Flow Modification				Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 235: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Habitat Modification				Malheur River Fish Plan (ODFW, 1990); NPS Assessment - segment 235: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Sedimentation				Malheur County (1979); NPS Assessment - segment 235: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature				NPS Assessment - segment 235: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
Malheur Res to Headwaters	33E-WILL41	Sedimentation				NPS Assessment - segment 236: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature				NPS Assessment - segment 236: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		

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Basin <i>Malheur River</i>		Sub <i>Willow</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Malheur Reservoir to headwaters	33E-WILL44	Bacteria	Water Contact Recreation (E. coli) Fresh Water		Malheur-Owyhee Watershed Council data	MOWC site shows one exceedence of fecal coliform 1880 and one exceedence of e. coli 428 bacteria standard in 1997	Did not meet listing criteria	Potential Concern	Addition
Willow Creek, South Fork									
Mouth to Black Sheep Canyon	33E-WISF0	Flow Modification			NPS Assessment - segment 269: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 269: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 269: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 269: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
<i>Mid Coast</i>									
Alesea River									
Mouth to Fall Creek	12B-ALSE0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ/USGS Data; d1 in 305(b) Report (DEQ, 1994)	USGS Data (Site 14306500; near Tidewater): 0% (0 of 23) FWS values exceeded fecal coliform standard (400) between WY 1980 - 1986.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ/USGS Data	DEQ Data (Site 402943; RM 17.7) and USGS Data (Site 14306500, near Tidewater): 0% (0 of 5 and 0 of 9) Summer values exceeded fecal coliform standard (400) between 1993 - 1995 and WY 1980 - 1986 respectively.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ/USGS Data	DEQ Data (Site 402943; RM 17.7): 0% (0 of 5) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ/USGS Data	DEQ Data (Site 402943; RM 17.7): 0% (0 of 5) May to September values exceeded standard (8 mg/l or 90% saturation) between 1993 - 1995 (Cold water rearing, approximately May to September).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 236: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ/USGS Data	USGS Data (Site 14306500; near Tidewater): 4% (1 of 24) FWS values exceeded pH standard (6.5 - 8.5) with a minimum of 6.2 between WY 1980 - 1986.	Did not meet listing criteria	OK	
		pH		Summer	DEQ/USGS Data	DEQ Data (Site 402943; RM 17.7): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 236: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Mid Coast</i>	Sub	<i>Alesea</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to North/South Confluence	12B-ALSE0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ and USGS Ambient Data; NPS Assessment - segment 236: moderate, observation (DEQ, 1988)	USGS Data (Site 14306500; near Tidewater): 70% (7 of 10) Summer values exceeded temperature standard (64) with a max of 70.7 from WY 80 - 86 with exceedences measured in 1980, 82-86; USFS (below Mill Cr): 7 day ave of daily max exceeded standard in 1994.		303(d) List	
Mouth to Headwaters	12B-ALSE27.5	Sedimentation			NPS Assessment - segment 237: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Alesea River, North Fork Mouth to Headwaters	12B-ALNF0	Temperature	Rearing 64 F (17.8 C) Rearing 64 F (17.8 C)	Summer	USFS Data (1994)	USFS Data (Site near mouth): 7 day average of daily maximums of greater than 64 with a maximum of approximately 70 exceeded temperature standard (64) in 1994.		303(d) List	
Alesea River, South Fork Mouth to Headwaters	12B-ALSF0	Sedimentation			NPS Assessment - segment 237: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Arnold Creek Mouth to Headwaters	12B-ARNO0	Temperature	Rearing 64 F (17.8 C)	Summer	Boise Cascade Data	No temperature exceedences, 7 day Ave. Max. for 1997 was 61.9°F	Did not meet listing criteria	OK	Addition
Bailey Creek Mercer Lake to headwaters	12B-BAIL0	Habitat Modification			USFS Mercer/Berry Watershed Analysis 1996	Watershed analysis finds low levels (10 to 20%) of Large Woody Debris compared to less disturbed sites on Berry Creek. Additionally, streams in the area have been heavily modified through ditching which has significantly reduce aquatic habitat for fish.		303(d) List	Addition
Beamer Creek Mouth to headwaters	12B-BEAM0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Yachats/Blodgett watershed Analysis 1997	USFS Data (Site at mouth): 7 day average of daily maximums of 60.5 did not exceeded temperature standard (64) in 1995.	Did not meet listing criteria	OK	Addition

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Basin <i>Mid Coast</i>	Sub	<i>Alesea</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bear Creek Mouth to Headwaters	12B-BEAR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 16.0°C, did not exceeded temperature standard (17.8°C)	Did not meet listing criteria	OK	Addition
Beaver Creek Mouth to Headwaters	12B-BEAV0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data (Site at Elkhorn Creek): 7 day average of daily maximums of greater than 64 with maximum of 70 exceeded temperature standard (64) in 1994.		303(d) List	
Beaver Creek, North Fork Mouth to Headwaters	12B-BENF0	Habitat Modification			NPS Assessment - segment 232: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 232: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Berry Creek Mouth to headwaters	12B-BERR0	Habitat Modification			USFS Mercer/Berry Watershed Analysis 1996	Watershed analysis high levels of Large Woody Debris compared to more disturbed sites in area habitat for fish.	Did not meet listing criteria	OK	Addition
Big Creek Mouth to Panther Creek	12B-BIG0	Habitat Modification			NPS Assessment - segment 221: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Waldport Rd): 7 day average of daily maximums of 66.0, 67.3 exceeded temperature standard (64) in 1991 and 1992 but averages of 61.9 and 63.5 did not exceed standard in 1993 and 1994 respectively. 1991 and 1992 data were not used because they were drought years and a non drought year's data was available which was below the temperature criteria.	Did not meet listing criteria	Potential Concern	
Bob Creek Mouth to Headwaters	12B-BOB0	Sedimentation			NPS Assessment - segment 227: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Mid Coast</i>		Sub <i>Alesea</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Buck Creek Mouth to headwaters	12B-BUCK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 23.2°C; upper site 18.6°C both sites exceeded temperature standard (17.8°C)		303(d) List	Addition
Camp Creek Mouth to East Fork	12B-CAMP0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 20.0°C, exceeded temperature standard		303(d) List	Addition
East Fork to headwaters	12B-CAMP2	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 17.5°C, did not exceeded temperature standard (17.8°C)	Did not meet listing criteria	OK	Addition
Canal Creek Mouth to Headwaters	12B-CANA0	Habitat Modification			NPS Assessment - segment 229: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 229: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Waldport Rd): 7 day average of daily maximums of 64.0 did not exceed temperature standard (64) in 1991.	Did not meet listing criteria	OK	
Cape Creek Mouth to Headwaters	12B-CAPE0	Habitat Modification			NPS Assessment - segment 220: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cascade Creek Mouth to Forks	12B-CASC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 20.5°C exceeded temperature standard		303(d) List	Addition
Cascade Creek, North Fork Mouth to Headwaters	12B-CANF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Alesea Rd): 7 day average of daily maximums of 66.4/68.1/66.4/66.9 exceeded temperature standard (64) in 1991/92/93/94 respectively.		303(d) List	

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Basin <i>Mid Coast</i>		Sub <i>Alesea</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Cascade Creek, South Fork									
Mouth to Headwaters	12B-CASF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Alesea Rd): 7 day average of daily maximums of 67.4 and 67.0 exceeded temperature standard (64) in 1993 and 1994 respectively.		303(d) List	
Center Creek									
Mouth to Headwaters	12B-CENT0	Sedimentation			NPS Assessment - segment 242: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cougar Creek									
Mouth to Headwaters	12B-COUG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 17.7°C, did not exceeded temperature standard (17.8°C)	Did not meet listing criteria	OK	Addition
Cullen Creek									
Mouth to headwaters	12B-CULL	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered healthy with Discriminate Scores > 75 points. Discriminate score was 100.	Did not meet listing criteria	OK	Addition
Depew Creek									
Mouth to headwaters	12B-DEPE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Yachats/Blodgett watershed Analysis 1997	USFS site at mouth: 7 day average of daily maximums of 66.7°F, exceeded the temperature standard (64) in 1995.		303(d) List	Addition
Drift Creek									
Mouth to Boulder Creek	12B-DRIF0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered healthy with Discriminate Scores > 75 points. Discriminate score was 79.	Did not meet listing criteria	OK	Addition
Mouth to Headwaters		Sedimentation			NPS Assessment - segment 235: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Eckman Lake									
Lake	12B.ECKM	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 231: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 231: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>Mid Coast</i>	Sub	<i>Alesea</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lake	12B.ECKM	Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 231: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 231: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 231: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Elk Creek									
Mouth to Headwaters	12B-ELK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 16.1°C, did not exceeded temperature standard (17.8°C)	Did not meet listing criteria	OK	Addition
Fall Creek									
Mouth to Headwaters	12B-FALL0	Dissolved Oxygen (DO)			NPS Assessment - segment 241: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data (Site at Fish Hatchery): 7 day average of daily maximums of greater than 64 with maximum of 71 exceeded temperature standard (64) in 1994.		303(d) List	
Five Rivers Creek									
Mouth to Headwaters	12B-FIVE0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data (2 Sites: Below Lobster and Green Creeks): 7 day average of daily maximums of greater than 64 with maximums of 74 and 71 respectively exceeded temperature standard (64) in 1994.		303(d) List	
Grass Creek									
Mouth to headwaters	12B-GRAS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Yachats/Blodgett watershed Analysis 1997	USFS Data (Site at mouth): 7 day average of daily maximums of 64.0 did not exceeded temperature standard (64) in 1995.	Did not meet listing criteria	Potential Concern	Addition

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Basin	<i>Mid Coast</i>	Sub	<i>Alesea</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Green River Mouth to headwaters	12B-GREE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 20.6°C, exceeded temperature standard		303(d) List	Addition
Gwynn Creek Mouth to Headwaters	12B-GYWN0	Habitat Modification			NPS Assessment - segment 226: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 226: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Honey Grove Creek Mouth to headwaters	12B-HONG0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered a Potential Concern with a Discriminate Score of 61 to 75 points. Discriminate score was 79, however, a multimetric score was low and site did not meet minimum sample size requirements.	Did not meet listing criteria	Potential Concern	Addition
J Line Creek Mouth to headwaters	12B-JLIN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 16.3°C, did not exceed temperature standard (17.8°C)	Did not meet listing criteria	OK	Addition
Little Lobster Creek Mouth to headwaters	12B-LOBL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 19.0°C, exceeded temperature standard		303(d) List	Addition
Lobster Creek Mouth to Headwaters	12B-LOBS0	Sedimentation			NPS Assessment - segment 239: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (6 Sites): 1991 to 1996 data , 7 day average of daily maximums exceeded the temperature standard (17.8°C) from 7 days up to 65 days.		303(d) List	Addition

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Basin	<i>Mid Coast</i>	Sub	<i>Alesea</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lobster Creek, East Fork Mouth to Headwaters	12B-LOEF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 15.0°C, did not exceeded temperature standard (17.8°C)	Did not meet listing criteria	OK	Addition
Lobster Creek, South Fork Mouth to Headwaters	12B-LOSF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 18.2°C, exceeded temperature standard		303(d) List	Addition
Mercer Lake Lake	12B.MERC	Aquatic Weeds or Algae	Aquatic Weeds, Algae		Daggett (1994); CRMP (1992); Sweet (1990); NPS Assessment - segment 219: moderate, observation (DEQ, 1988); USFS Mercer/Berry Watershed Analysis 1996	Mercer Lake CRMP (1992). 1996 watershed analysis noted high levels of algae in lake.		303(d) List	
		Chlorophyll a		Summer	USFS Mercer/Berry Watershed Analysis 1996	Watershed analysis finds Chlorophyll a concentrations up to 24 ug/l in 1991/92 standard for lakes which stratify is 10 ug/l.		303(d) List	Addition
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 219: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Nitrate		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 219: moderate, observation (DEQ, 1988); USFS Mercer/Berry Watershed Analysis 1996	Watershed analysis notes high nitrogen as nitrate in lake (.76 mg/l) and its tributaries	No standard has been established	Potential Concern	Addition
		pH			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 219: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Phillips Creek Mouth to headwaters	12B-PHIL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 19.8°C, exceeded temperature standard		303(d) List	Addition

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Basin <i>Mid Coast</i>	Sub	<i>Alesea</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Preacher Creek Mouth to Headwaters	12B-PREA0	Habitat Modification			NPS Assessment - segment 234: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to RM2		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 21.3°C, exceeded temperature standard		303(d) List	Addition
RM2 to headwaters	12B-PREA2	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 15.7°C, did not exceeded temperature standard (17.8°C)	Did not meet listing criteria	OK	Addition
School Fork Creek Mouth to headwaters	12B-SCHF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Yachats/Blodgett watershed Analysis 1997	USFS Data (Site at mouth): 7 day average of daily maximums of 68.3 did exceeded temperature standard (64) in 1995.		303(d) List	Addition
Scott Creek Mouth to Headwaters	12B-SCOT0	Dissolved Oxygen (DO)			NPS Assessment - segment 240: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 240: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Stump Creek Mouth to Headwaters	12B-STUM0	Habitat Modification			NPS Assessment - segment 224: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Yachats/Blodgett watershed Analysis 1997	USFS Data (Site at mouth): 7 day average of daily maximums of 65.0 did exceeded temperature standard (64) in 1995.		303(d) List	Addition
Sudan Creek Mouth to headwaters	12B-SUDA0	Temperature	Rearing 64 F (17.8 C)	Summer	Boise Cascade data	No temperature exceedences, 7 day Ave. Max. for 1997 was 64.0°F	Did not meet listing criteria	OK	Addition
Summers Creek Mouth to Headwaters	12B-SUMM0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data and Lobster/Five River Watershed Analysis 1997	USFS Data (Site at Mouth): 7 day average of daily maximums of 16.3°C, did not exceeded temperature standard (17.8°C)	Did not meet listing criteria	OK	Addition

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Basin <i>Mid Coast</i>	Sub	<i>Alesea</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Sutton Lake Lake	12B.SUTT	Aquatic Weeds or Algae	Aquatic Weeds		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 218: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 218: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 218: moderate, observation (DEQ, 1988); USFS Mercer/Berry Watershed Analysis 1996		No supporting data or information	Need Data	
Tenmile Creek Mouth to Headwaters	12B-TENM0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered healthy with Discriminate Scores > 75 points. Discriminate score was 92.	Did not meet listing criteria	OK	Addition
		Habitat Modification			Cummins/Tenmile Watershed Analysis (USFS, 1995); NPS Assessment - segment 228: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 228: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Trout Creek Mouth to headwaters	12B-TROU0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered healthy with Discriminate Scores > 75 points. Discriminate score was 85.	Did not meet listing criteria	OK	Addition
Williamson Creek Mouth to headwaters	12B-WILL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Yachats/Blodgett watershed Analysis 1997	USFS site at mouth: 7 day average of daily maximums of 64.5°F, exceeded the temperature standard (64) in 1995.		303(d) List	Addition
Yachats River Mouth to Beamer Creek	12B-YACH0	Bacteria			NPS Assessment - segment 222: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Mid Coast</i>		Sub <i>Alesea</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	12B-YACH0	Habitat Modification			NPS Assessment - segment 460: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Below Grass Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Yachats/Blodgett watershed Analysis 1997	USFS Data (Site at Mapleton Rd): 7 day average of daily maximums of 69.3 exceeded temperature standard (64) in 1992. 4 sites in 1995: at mouth was 66.3°F; at Marks Cr. was 66.5°F; at Beamer Cr. was 66.2°F; and at Keller Cr. was 65.5°F.		303(d) List	Segment Modification
Below Grass Creek to headwaters	12B-YACH12	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Yachats/Blodgett watershed Analysis 1997	USFS Data (Site at Grass Creek): 7 day average of daily maximums of 63.2 did not exceeded temperature standard (64) in 1995.	Did not meet listing criteria	OK	Removed (5)
Yachats River, North Fork									
Mouth to Headwaters	12B-YANF0	Habitat Modification			NPS Assessment - segment 225: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 225: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Depew Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Yachats/Blodgett watershed Analysis 1997	Two USFS sites (Site at mouth): 7 day average of daily maximums of 66.3°F and at Williamson Creek was 64.5°F, exceeded the temperature standard (64) in 1995.		303(d) List	Addition
Depew Creek to headwaters	12B-YANF2	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Yachats/Blodgett watershed Analysis 1997	Two USFS sites (Site at Depew): 7 day average of daily maximums of 61.5°F and at Earley Creek was 60.5°F, exceeded the temperature standard (64) in 1995.	Did not meet listing criteria	OK	Addition
Yachats River, South Fork									
Mouth to Headwaters	12B-YASF0	Habitat Modification			NPS Assessment - segment 223: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 223: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Mid Coast</i>		Sub <i>Siletz/Yaquina</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Bear Creek Mouth to Headwaters	12A-BEAR0	Sedimentation			NPS Assessment - segment 245: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Big Elk Creek Mouth to Headwaters	12A-ELB10	Habitat Modification			Big Elk Watershed Analysis (USFS, 1995); NPS Assessment - segment 244: moderate, observation (DEQ, 1988)	Salmon Stocks are declining coastwide, LWD and pool habitat are below reference conditions in the watershed (Big Elk Watershed Analysis, USFS, 1995).		303(d) List	
		Sedimentation			Big Elk Watershed Analysis (USFS, 1995); NPS Assessment - segment 243, 244: moderate, observation (DEQ, 1988)	Salmon Stocks are declining coastwide, sediment are above reference conditions in the watershed (Big Elk Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	Big Elk Watershed Analysis (USFS, 1995)	USFS and ODFW Data (Big Elk Watershed Analysis, USFS, 1995).		303(d) List	
Big Rock Creek Mouth to Headwaters	12A-ROB10	Sedimentation			NPS Assessment - segment 251: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site 14304850, near Valsetz): 7 day average of daily maximum of 64 with 5 days exceeding temperature standard (64) in 1985.	Did not meet listing criteria	Potential Concern	
Boone Slough Tidal portion of the Slough	12A+BOON0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 412054; Mile 0.1): 0% (0 of 9) FWS values exceeded fecal coliform standard (400) during 1986.	Did not meet listing criteria	OK	
Butternut Creek Mouth to Headwaters	12A-BUTT0	Sedimentation			NPS Assessment - segment 247: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cedar Creek Mouth to Headwaters	12A-CEDA0	Habitat Modification			NPS Assessment - segment 250: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Mid Coast</i>		Sub <i>Siletz/Yaquina</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	12A-CEDA0	Sedimentation			NPS Assessment - segment 250: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Depot Slough									
Tidal portion of the Slough	12A+DEPO0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 412046; Mile 0.1): 4% (2 of 57) of FWS values exceeded standard (400) between WY 86 - 95.	Did not meet listing criteria	OK	
		Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412046; Mile 0.1): Exceeded log mean criteria (14) with a value of 26 and exceeded 90% criteria (43) with a value of 540 between WY 1992 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 412046; Mile 0.1): 0% (0 of 17) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
Devils Lake									
Lake	12A.DEVI	Chlorophyll a		Summer	Devils Lake Phase 2 Report (5/1994); CRMP (1993); NPS Assessment - segment 255: moderate, data (DEQ, 1988); DLWID data.	DLWID Data: Mean value 1986 - 1991 data was 41.4 ug/l (chlorophyll a standard is 15 ug/l) with a maximum value >100 ug/l, (Devils Lake Phase 2 Restoration Project, DLWID, 1994). DLWID from 4 sites in 1995/96/97 mean of summer values were: site 1 = 11.2/16.9/15.3; site 2 = 9.8/15.6/8.9; site 3 = 9.3/10.2/7.0 and site 4 = nd/17.8/14 ug/l.		303(d) List	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 255: moderate, data (DEQ, 1988); DLWID data	Total Phosphorus at 4 sites in 1995/96/97 in summer were: site 1, 29/27/29 ug/l; site 2, 22/19/37 ug/l; site 3, 26/19/40; site 4 nd/24/29 ug/l. Winter: site 1, 27/18; site 2, 29/18; site 3, 25/16; site 4 nd/19 ug/l	No standard established	Potential Concern	Status Modification

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Basin <i>Mid Coast</i>		Sub <i>Siletz/Yaquina</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Lake	12A.DEVI	pH		Summer	Devils Lake Phase 2 Report (5/1994); NPS Assessment - segment 255: severe, data (DEQ, 1988)	DLWID Data: Mean value of 1986 - 1991 data was 8.09 with values ranging over 9 and often exceeding pH standard of 8.5 (e.g. summer average of 8.7 in 1990) (Devils Lake Phase 2 Restoration Project, DLWID, 1994). Four sites in 1996/97 no exceedences of pH standard in 1996, however 5 exceedences of pH standard in 1997 (low of 5.85, high of 8.92)		303(d) List	
Drift Creek (Siletz) Mouth to Headwaters	12A-DRIF0	Sedimentation			NPS Assessment - segment 252: moderate, observation (DEQ, 1988); Drift (Siletz) Watershed Analysis 1996	Watershed has a high susceptibility to landslides, however, there appears to be very little sediment deposition, possibly because of the high degree of confinement giving the stream sufficient power to flush sediment from the system.	Did not meet listing criteria	OK	Status Modification
		Temperature	Rearing 64 F (17.8 C)	Summer	Drift (Siletz) Watershed Analysis 1996	Three sites: upper site in 1994/95 7 day ave. max. of temperature standard (64°F) was exceeded 4/0 days; middle sites were exceeded 18/10 days; lower site nd/65 days.		303(d) List	Addition
Gordey Creek (Siletz) Mouth to Headwaters	12A-GORD0	Temperature	Rearing 64 F (17.8 C)	Summer	Drift (Siletz) Watershed Analysis 1996	One site: in 1994/95, 7 day ave. max. of temperature standard (64°F) was exceeded 0/0 days.	Did not meet listing criteria	OK	Addition
Mill Creek Mouth to Headwaters	12A-MILL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 2 miles above Yaquina R): 7 day average of daily maximum of greater than 64 with a maximum of 69 exceeded temperature standard (64) in 1994.		303(d) List	
North Creek (Siletz) Mouth to Headwaters	12A-NORT0	Temperature	Rearing 64 F (17.8 C)	Summer	Drift (Siletz) Watershed Analysis 1996	One site: in 1994/95, 7 day ave. max. of temperature standard (64°F) was exceeded 0/0 days.	Did not meet listing criteria	OK	Addition

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Basin <i>Mid Coast</i>		Sub <i>Siletz/Yaquina</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Nutes Slough Tidal portion of the Slough	12A+NUTE0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412055; Mile 0.1): 37% (3 of 8) FWS values exceeded fecal coliform standard (400) with a maximum value of 1100 during 1986.		303(d) List	
Ollala Slough Tidal portion of the Slough	12A+OLLA0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 412050 and 412057; Mile 0.1 and 0.6): 2% (1 of 56) and 22% (2 of 9) Summer values exceeded fecal coliform standard (400) with maximum values of 540 and 1500 between WY 1986 - 1995 and during 1986 respectively. DEQ used Professional Judgment in determining that over all the 10 year record showed little Bacteria impact on water contact and recreation. Combined samples showed violations of less than 5%.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 412050; Mile 0.1): 0% (0 of 16) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412050; Mile 0.1): Exceeded log mean criteria (14) with a value of 73 and exceeded 90% criteria (43) with a value of 350 between WY 1992 - 1993.		303(d) List	
Panther Creek Mouth to Headwaters	12A-PANT0	Sedimentation			NPS Assessment - segment 262: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 262: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pooles Slough Tidal portion of the Slough	12A+POOL0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data	DEQ Data (Site 412052; Mile 0.1): Met log mean criteria (14) with a value of 7 and exceeded 90% criteria (43) with a value of 70 between WY 1992 - 1995.		303(d) List	

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Basin <i>Mid Coast</i>		Sub <i>Siletz/Yaquina</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tidal portion of the Slough	12A+POOL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 412052; Mile 0.1): 0% (0 of 39) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 412052; Mile 0.1): 0% (0 of 19) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
Rock Creek (Devils Lake) Mouth to Headwaters	12A-ROCD0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	NPS Assessment - segment 256: moderate, observation (DEQ, 1988)	DLWID Data (Site near mouth): 9% (1 of 11) Summer values exceeded fecal coliform standard (400) with a maximum of 1600 in 1990 - 1991.	No supporting data or information	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	NPS Assessment - segment 256: moderate, observation (DEQ, 1988)	DLWID Data (Site near mouth): 0% (0 of 7) FWS values exceeded fecal coliform standard (400) with a maximum of 307 in 1990 - 1991.	No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 256: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rock Creek (Siletz River) Mouth to Headwaters	12A-ROCK0	Sedimentation			NPS Assessment - segment 254: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Salmon River Mouth to Headwaters	12A-SALM0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402921; RM 2.8): 0% (0 of 5) FWS values exceeded standard (400) between 1993 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402921; RM 2.8): 0% (0 of 6) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Mid Coast</i>		Sub <i>Siletz/Yaquina</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	12A-SALM0	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402921; RM 2.8): 0% (0 of 5) October to April values exceeded standard (11 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October to April).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data	DEQ Data (Site 402921; RM 30.9): 0% (0 of 6) May to September values exceeded standard (8 mg/l or 90% saturation) between 1993 - 1995 (Cold water rearing, approximately May to September).	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402921; RM 2.8): 0% (0 of 5) FWS values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data	ODFW Data (Site at fish hatchery): Maximum temperatures generally ranged between 64 to 70 since 1990.			303(d) List
Boulder Creek to Headwaters	12A-SALM15	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered healthy with Discriminate Scores > 75 points. Discriminate score was 80.	Did not meet listing criteria	OK	Addition
Sampson Creek (Siletz)									
Mouth to Headwaters	12A-SAMP0	Temperature	Rearing 64 F (17.8 C)	Summer	Drift (Siletz) Watershed Analysis 1996	One site: in 1994/95, 7 day ave. max. of temperature standard (64°F) was exceeded 3/0 days. However, report shows 62.7/64.0°F as highest temperature.	Did not meet listing criteria	Potential Concern	Addition
Savage Creek									
Mouth to Headwaters	12A-SAVA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Alsea Rd): 7 day average of daily maximums of 59.7/62.1/63.6 did not exceed temperature standard (64) in 1991/92/93 respectively.	Did not meet listing criteria	OK	
Siletz River									
Mouth to Rock Creek	12A-SILE0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402061; RM 30.9): 0% (0 of 6) Summer values exceeded fecal coliform standard (400) between 1993 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Mid Coast</i>		Sub <i>Siletz/Yaquina</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Rock Creek	12A-SILE0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402061; RM 30.9): 0% (0 of 6) FWS values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK		
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402061; RM 30.9): 0% (0 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 - 1995.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data	DEQ Data (Site 402061; RM 30.9): 0% (0 of 6) May to September values exceeded standard (8 mg/l or 90% saturation) between 1993 - 1995 (Cold water rearing, approximately May to September).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data	DEQ Data (Site 402061; RM 30.9): 0% (0 of 5) October to April values exceeded standard (11 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October to April).	Did not meet listing criteria	OK		
		Flow Modification				NPS Assessment - segment 248: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Summer	DEQ Data	DEQ Data (Site 402061; RM 30.9): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402061; RM 30.9): 0% (0 of 6) FWS values exceeded pH standard (6.5 - 8.5) between 92 - 95.	Did not meet listing criteria	OK	
		Sedimentation					NPS Assessment - segment 248: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature		Rearing 64 F (17.8 C)	Summer	CTSI data	CTSI site above Cedar Creek: 7 day ave. max. stream temperature in 1997 was 70.4°F, exceeded temperature standard (64 °F)		303(d) List	Addition
Rock Creek to South Fork	12A-SILE48.2	Sedimentation			NPS Assessment - segment 249: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		

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Basin <i>Mid Coast</i>		Sub <i>Siletz/Yaquina</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Simpson Creek (Siletz) Mouth to Headwaters	12A-SIMP0	Temperature	Rearing 64 F (17.8 C)	Summer	Drift (Siletz) Watershed Analysis 1996	One site: in 1994, 7 day ave. max. of temperature standard (64°F) was exceeded 4 days. However, report shows 62.7°F as highest temperature.		Potential Concern	Addition
Slick Rock Creek Mouth to Headwaters	12A-SLIC0	Habitat Modification			NPS Assessment - segment 259: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data
Thompson Creek Mouth to Headwaters	12A-THOM0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Devils Lake Phase 2 Report (DLWID, 5/1994)	DLWID Data (2 Sites: Above campground and Near mouth; data for site near mouth shown): 43% (3 of 7) FWS values exceeded fecal coliform standard (400) with a maximum of >1600 in 1990 - 1991. DLWID data in 1997 100% (10 of 10) of samples exceeded fecal coliform standard with a maximum of >12,000. E. coli 63% (5 of 8) samples taken at three site exceeded e. coli standard of (406) with a maximum of 12,934.			303(d) List
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Devils Lake Phase 2 Report (DLWID, 5/1994)	DLWID Data (2 Sites: Above campground and Near mouth; data for site near mouth shown): 75% (9 of 12) Summer values exceeded fecal coliform standard (400) with a maximum of 13500 in 1990 - 1991. Although stream segment is too short to split upper watershed is in private forest land and should not be listed in forest areas where residential and/or livestock activities are not present.			303(d) List
		Nutrients			Devils Lake Phase 2 Report (5/1994)		No supporting data or information		Need Data
Treat Creek Mouth to Headwaters	12A-TREA0	Sedimentation			NPS Assessment - segment 258: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data

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Basin <i>Mid Coast</i>		Sub <i>Siletz/Yaquina</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Wright Creek									
Mouth to Headwaters	12A-WRIG0	Habitat Modification			NPS Assessment - segment 233: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 233: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Yaquina Bay									
Mouth to Omeatta Point	12A*YAQU1	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 459: severe, data (DEQ, 1988)	DEQ Data (4 Bay Sites: 412039, 412040, 412041, 412031): All sites met fecal coliform log mean criteria (14) with values ranging from 5 to 7 and one site exceeded 90% criteria (43) with a value of 49 between the WY 1992 - 1995.	Did not meet listing criteria	OK	
Yaquina Bay - Mouth									
Mouth of Bay (jetty area)	12A*YAQU0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 459: severe, data (DEQ, 1988)	DEQ Data (Site 405078; Mile 0.1): Met fecal coliform log mean criteria (14) with a value of 7 and met 90% criteria (43) with a value of 33 between WY 1992 - 1995.	Did not meet listing criteria	OK	
Yaquina River									
Mill Creek to Simpson Creek	12A-YAQU11	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 412049; RM 11.1): 6% (1 of 18) Summer values exceeded fecal coliform standard (400) with a maximum of 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404155; RM 24.9): 0% (0 of 5) October to April values exceeded standard (11 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October to April).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data	DEQ Data (Site 404155; RM 24.9): 0% (0 of 6) May to September values exceeded standard (8 mg/l or 90% saturation) between 1993 - 1995 (Cold water rearing, approximately May to September).	Did not meet listing criteria	OK	

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Basin <i>Mid Coast</i>		Sub <i>Siletz/Yaquina</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Simpson Creek to Headwaters	12A-YAQU23.3	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 404155; RM 24.9): 0%(0 of 6) Summer values exceeded fecal coliform standard (400) between 1993 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404155; RM 24.9): 0% (0 of 6) FWS values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK	
Simpson Creek to Buttermilk Creek		Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered impaired with a Discriminate Score of <61 points. Tow sites Discriminate score was 0 and 28, however, site was not listed as "impaired" because samples did not meet minimum sample size requirements.	Did not meet listing criteria	Potential Concern	Addition
Simpson Creek to Headwaters		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404155; RM 24.9): 17% (1 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 404155; RM 24.9): 0%(0 of 6) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404155; RM 24.9): 0% (0 of 6) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 246: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mill Creek to Simpson Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Eddyville): 7 day average of daily maximums of greater than 64 with maximum of 75 exceeded temperature standard (64) in 1995.		303(d) List	

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Basin <i>Mid Coast</i>		Sub <i>Siletz/Yaquina</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Yaquina River (Lower Tidal Portion)									
Omeatta Point to River Mile 5 (Marker 25 to 28)	12A-YAQU0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 459: severe, data (DEQ, 1988)	DEQ Data (4 Sites: Mile 2.1 - 4.5): All Sites met log mean criteria (14) with values ranging from 5 to 7; 2 Sites exceeded 90% criteria (43) with values ranging from 33 to 49 between WY 1992 - 1995.	Did not meet listing criteria	OK	
Yaquina River (Upper Tidal Portion)									
River Mile 5 to Mill Creek (RM 12)	12A-YAQU7.4	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 459: severe, data (DEQ, 1988)	DEQ Data (4 Sites: Mile 7.4 - 11.1): 3 Sites exceeded fecal coliform log mean criteria (14) with values ranging from 8 to 38 and all sites exceeded 90% criteria (43) with values ranging from 49 to 130 between WY 1992 - 1995.		303(d) List	

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Basin	<i>Mid Coast</i>	Sub	<i>Siltcoos</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Fiddle Creek Mouth to Headwaters	12D-FIDD0	Habitat Modification			NPS Assessment - segment 196: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 196: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 196: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Maple Creek Mouth to Headwaters	12D-MAPL0	Habitat Modification			NPS Assessment - segment 198: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 198 and 199: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 199: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Siltcoos Lake Lake	12D.SILT	Aquatic Weeds or Algae	Aquatic Weeds, Algae		Blair (1993); Johnson (1985); McHugh (1979); NPS Assessment - segment 203: moderate, observation (DEQ, 1988)	Atlas of Oregon Lakes (PSU, 1985): Extensive growth of Elodea densa, a non-native aquatic plant and a "B" designated weed (ODA), dominates the macrophyte assemblage and interferes with beneficial uses.		303(d) List	
Siltcoos River Mouth to Siltcoos Lake	12D-SILT0	Aquatic Weeds or Algae	Aquatic Weeds, Algae		NPS Assessment - segment 204: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 204: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Mid Coast</i>	Sub	<i>Siltcoos</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tahkenitch Lake Lake	12D.TAHK	Aquatic Weeds or Algae	Aquatic Weeds,		Blair (1993); Johnson (1985); McHugh (1979); NPS Assessment - segment 201: moderate, observation (DEQ, 1988)	Atlas of Oregon Lakes (PSU, 1985): Extensive growth of Elodea densa, a non-native aquatic plant and a "B" designated weed (ODA), dominates the macrophyte assemblage and interferes with beneficial uses.		303(d) List	

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Basin	Mid Coast	Sub	Siuslaw						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Berkshire Creek Mouth to Headwaters	12C-BERK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Mapleton Rd): 7 day average of daily maximums of 56.7 and 56.2 did not exceed temperature standard (64) in 1991 and 1993 respectively.	Did not meet listing criteria	OK	
Billie Creek Mouth to Headwaters	12C-BILL0	Habitat Modification			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, lack of LWD and pool habitat has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).			303(d) List
Clear Lake Lake	12C.CLER	Aquatic Weeds or Algae	Algae	Summer	Cooper Consultants (1985)	Cooper Consultants (1985).	Did not meet listing criteria	OK	
		Nutrients	Phosphorus	Year Around	DEQ TMDL (1990)	TMDL has been established for phosphorus, approved (12/8/92) and is being implemented.	TMDL developed and approved	TMDL Approved (12/8/92)	
		pH			Cooper Consultants (1985)	Cooper Consultants (1985).	Did not meet listing criteria	OK	
Collard Lake Lake	12C.COLL	Aquatic Weeds or Algae	Aquatic Weeds, Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 476: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 476: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	Year Around	DEQ TMDL (1990)	TMDL has been established for phosphorus, approved (12/8/92) and is being implemented.	TMDL developed and approved	TMDL Approved (12/8/92)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Mid Coast</i>	Sub	<i>Siuslaw</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Condon Creek Mouth to Headwaters	12C-COND0	Habitat Modification			North Fork Siuslaw Watershed Analysis (USFS, 1994); NPS Assessment - segment 205: moderate, observation (DEQ, 1988)	Coho, steelhead and cutthroat populations have declined recently, lack of LWD and pool habitat has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
Congdon Creek Mouth to Headwaters	12C-CONGO	Habitat Modification			NPS Assessment - segment 194: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Deadwood Creek Mouth to Panther Creek	12C-DEAD0	Dissolved Oxygen (DO)			NPS Assessment - segment 190: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to headwaters		Habitat Modification			NPS Assessment - segment 190: moderate, observation (DEQ, 1988); USFS Indian/Deadwood Watershed Analysis 1996	This listing is for Deadwood Creek and its tributaries. Watershed analysis evaluated pools and Large Woody Debris and found that most of Deadwood Creek and its tributaries are in non functioning condition for rearing habitat. Pg. K-1		303(d) List	Addition
Mouth to Panther Creek		Sedimentation			NPS Assessment - segment 190: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Headwaters		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 190: moderate, observation (DEQ, 1988); USFS Indian/Deadwood Watershed Analysis 1996	Two USFS sites: Upper site 7 day ave. max temperature was 68.0°F in 1995; lower site was 73.0°F both sites exceeded temperature standard of (64°F)		303(d) List	Addition
Deadwood Creek, West Fork Mouth to Headwaters	12C-DEWFO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Indian/Deadwood Watershed Analysis 1996	Two USFS sites: Upper site 7 day ave. max temperature was 66.0°F in 1995; lower site was 69.0°F both sites exceeded temperature standard of (64°F)		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Mid Coast</i>	Sub	<i>Siuslaw</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Drew Creek Mouth to Headwaters	12C-DREW0	Habitat Modification			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, lack of LWD and pool habitat has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
		Sedimentation			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, sedimentation has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
Eames Creek Mouth to headwaters	12C-EAME0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered impaired with a Discriminate Score of <61 points. Discriminate Score was 58.		303(d) List	Addition
Esmond Creek Mouth to Headwaters	12C-ESMO0	Habitat Modification			NPS Assessment - segment 214: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 214: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Failor Creek Mouth to Headwaters	12C-FAIL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Indian/Deadwood Watershed Analysis 1996	USFS site: 7 day ave. max temperature was 67.0°F in 1995; exceeded temperature standard of (64°F)		303(d) List	Addition
Haring Creek Mouth to Headwaters	12C-HURI0	Habitat Modification			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, lack of LWD and pool habitat has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Mid Coast</i>	Sub	<i>Siuslaw</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Indian Creek Mouth to Headwaters	12C-INDI0	Habitat Modification			NPS Assessment - segment 189: moderate, observation (DEQ, 1988); Usfs Indian/Deadwood Watershed Analysis 1996	This listing is for Indian Creek and its tributaries. Watershed analysis evaluated pools and Large Woody Debris and found that most of Indian Creek and its tributaries are in non functioning condition for rearing habitat Pg. K-1.		303(d) List	Addition
		Sedimentation			NPS Assessment - segment 189: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 189: moderate, observation (DEQ, 1988); USFS Indian/Deadwood Watershed Analysis 1996	USFS site: 7 day ave. max. temperature was 74.0°F in 1995, exceeded the temperature standard of (64°F)		303(d) List	Addition
Indian Creek, North Fork Mouth to Headwaters	12C-INNF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; USFS Indian/Deadwood Watershed Analysis 1996	Two USFS sites: Upper site, 7 day average of daily maximums was 65.0 °F in 1995 and lower site was 64.0°F . Upper exceeded temperature standard (64) lower did not.	Did not meet listing criteria	Potential Concern	Addition
Indian Creek, West Fork Mouth to Headwaters	12C-INWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; USFS Indian/Deadwood Watershed Analysis 1996	USFS Data (Site at Mapleton Rd): 7 day average of daily maximums of 65.9, 65.4 and 65 exceeded temperature standard (64) in 1991, 1992 and 1993 respectively. Site was moved down stream in 1995 was 60.0°F		303(d) List	
Knowles Creek Mouth to Headwaters	12C-KNOW0	Flow Modification			NPS Assessment - segment 211: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segments 211 and 212: moderate, data/ observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 211: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	<i>Mid Coast</i>	Sub	<i>Siuslaw</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	12C-KNOW0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Mapleton Rd): 7 day average of daily maximums of 62.9 did not exceed temperature standard (64) in 1992.	Did not meet listing criteria	OK	
Lake Creek									
Mouth to Congdon Creek	12C-LAKE0	Flow Modification			NPS Assessment - segment 193: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segments 192 and 193: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 192 and 193: moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segments 192 and 193: moderate, data/observation (DEQ, 1988); BLM and ODFW data	Three ODFW sites: at mouth, 7 day ave. max temperature in 1994/95 was 70.4/77.0°F, below Triangle Lake in 1994 was 74.5°F, at below Pope Creek in 1994 was 70.0°F. BLM data also available.		303(d) List	Addition
McCloud Creek									
Mouth to Headwaters	12C-MCCL0	Habitat Modification			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, lack of LWD and pool habitat has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
		Sedimentation			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, sedimentation has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
Morris Creek									
Mouth to Headwaters	12C-MORR0	Sedimentation			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, sedimentation has been identified as a concern (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	

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Basin	<i>Mid Coast</i>	Sub	<i>Siuslaw</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Nelson Creek Mouth to Headwaters	12C-NELS0	Flow Modification			NPS Assessment - segment 195: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 195: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Porter Creek Mouth to Headwaters	12C-PORT0	Habitat Modification			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, lack of LWD and pool habitat has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
		Sedimentation			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, sedimentation has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
Russell Creek Mouth to Headwaters	12C-RUSS0	Habitat Modification			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, lack of LWD and pool habitat has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
Siuslaw River Mouth to Headwaters	12C-SIUS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ/USGS Data	DEQ Data (Site 402062; RM 20.5) and USGS Data (Site 14307620 near Mapleton): 0% (0 of 7 and 0 of 18) Summer values exceeded fecal coliform standard (400) between 1992 - 1995 and WY 1980 - 1992 respectively.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ/USGS Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402062; RM 20.5) and USGS Data (Site 14307620 near Mapleton): 0% (0 of 7) and 3% (1 of 36) FWS values exceeded fecal coliform standard (400) between 1992 - 1995 and WY 1980 - 1992 respectively.	Did not meet listing criteria	OK	

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Basin	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mid Coast	12C-SIUS0	Chlorophyll a		Summer	DEQ/USGS Data	DEQ Data (Site 402062; RM 20.5): 0% (0 of 7) Summer values exceeded chlorophyll a standard (15 ug/l) between 1992 - 1995.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ/USGS Data	DEQ Data (Site 402062; RM 20.5): 0% (0 of 5) October to April values exceeded standard (11 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October to April).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ/USGS Data	DEQ Data (Site 402062; RM 20.5) and USGS Data (14307620, Mapleton): 33% (3 of 9 between 1993 - 95) and 0% (0 of 26 between 79 - 92) May to September values exceeded standard (8 mg/l or 90% saturation); (Cold water rearing, approximately May to September).	Did not meet listing criteria	Potential Concern		
		Habitat Modification				NPS Assessment - segments 186 and 187: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients				NPS Assessment - segment 185: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Summer	DEQ/USGS Data	DEQ Data (Site 402062; RM 20.5): 0% (0 of 7) Summer values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		pH			Fall-Winter-Spring	DEQ/USGS Data	DEQ Data (Site 402062; RM 20.5): 0% (0 of 5) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		Sedimentation					NPS Assessment - segments 185 and 186: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature		Rearing 64 F (17.8 C)	Summer	USGS Data; DEQ Ambient Data; NPS Assessment - segments 185 - 187: moderate, observation (DEQ, 1988)	USGS Data (Site 14307620; near Mapleton): 63% (12 of 19) Summer values exceeded temperature standard (64) with a maximum of 75.2 between WY 1980 - 1992 with exceedences measured in 1980, 1982, and 1984 - 1992.		303(d) List	

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Basin	Mid Coast	Sub	Siuslaw						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Siuslaw River, North Fork									
Mouth to Headwaters	12C-SINF0	Habitat Modification			North Fork Siuslaw Watershed Analysis (USFS, 1994); NPS Assessment - segment 184: moderate, observation (DEQ, 1988)	Coho, steelhead and cutthroat populations have declined recently, lack of LWD and pool habitat has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
		Sedimentation			North Fork Siuslaw Watershed Analysis (USFS, 1994); NPS Assessment - segment 184: moderate, observation (DEQ, 1988)	Coho, steelhead and cutthroat populations have declined recently, sedimentation has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	North Fork Siuslaw Watershed Analysis (USFS, 1994); NPS Assessment-segment 184: Moderate, observation (DEQ, 1988)	USFS (2 Sites: Downstream of campground and Under Huntington Bridge): 59 and 81 days were above 64°F with maximum temperatures of 71°F recorded at each site (North Fork of the Siuslaw River Watershed Analysis, USFS, 1994)		303(d) List	
Siuslaw River, South Fork									
Mouth to Kelly Creek	12C-SISF0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered impaired with a Discriminate Score of <61 points. Discriminate Score was 42.		303(d) List	Addition
Sweet Creek									
Mouth to Headwaters	12C-SWEE0	Habitat Modification			NPS Assessment - segment 209: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Taylor Creek									
Mouth to Headwaters	12C-TAYL0	Habitat Modification			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, lack of LWD and pool habitat has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
		Sedimentation			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, sedimentation has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	

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Basin	<i>Mid Coast</i>	Sub	<i>Siuslaw</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Uncle Creek Mouth to Headwaters	12C-UNCL0	Habitat Modification			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, lack of LWD and pool habitat has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
Whittaker Creek Mouth to Headwaters	12C-WHIT0	Sedimentation			NPS Assessment - segment 213: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wild Cat Creek Mouth to Headwaters	12C-WILD0	Flow Modification			NPS Assessment - segment 188: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 188: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 188: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Wilhelm Creek Mouth to Headwaters	12C-WILH0	Habitat Modification			North Fork Siuslaw Watershed Analysis (USFS, 1994)	Coho, steelhead and cutthroat populations have declined recently, lack of LWD and pool habitat has been identified as a concern in the watershed (N Fk Siuslaw Watershed Analysis, USFS, 1994).		303(d) List	
Wolf Creek Mouth to Headwaters	12C-WOLF0	Habitat Modification			NPS Assessment - segment 215: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 215: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Lower Columbia/Clatskanie</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Beaver Creek Mouth to Headwaters		11A-BEAV0	Sedimentation		NPS Assessment - segment 345: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Beaver Creek, South Fork Mouth to Headwaters		11A-BESF0	Sedimentation		NPS Assessment - segment 347: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Clatskanie River Mouth to Conyers Creek		11A-CLAT0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404113; RM 4.7): 0% (0 of 6) FWS values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK
			Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 404113; RM 4.7): 33% (2 of 6) Summer values exceeded fecal coliform standard (400) with a maximum value of 1600 between 1993 - 1995.		303(d) List
			Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404113; RM 4.7): 0% (0 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 - 1995.	Did not meet listing criteria	OK
			Dissolved Oxygen (DO)		May 1 - September 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 520: moderate, observation (DEQ, 1988)	DEQ Data (Site 404113; RM 4.7): 29% (2 of 7) May through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 7.2 mg/l between 1993 - 1995 (Cold water rearing, approximately May - September).		303(d) List
			Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data; NPS Assessment - segment 520: moderate, observation (DEQ, 1988)	DEQ Data (Site 404113; RM 4.7): 0% (0 of 5) October through April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October - April).	Did not meet listing criteria	OK
			pH		Summer	DEQ Data	DEQ Data (Site 404113; RM 4.7): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK

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Basin <i>North Coast/Lower</i>		Sub		<i>Lower Columbia/Clatskanie</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing					
Mouth to Conyers Creek	11A-CLAT0	pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404113; RM 4.7): 0% (0 of 6) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK		
		Sedimentation			NPS Assessment - segment 520: moderate, observation (DEQ, 1988)				No supporting data or information	Need Data
		Temperature			DEQ Ambient Data				No supporting data or information	Need Data
Conyers Creek to Headwaters	11A-CLAT1.8	Sedimentation			NPS Assessment - segment 343: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data	
Conyers Creek										
Mouth to Headwaters	11A-CONY0	Sedimentation			NPS Assessment - segment 358: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data	
Eilertson Cr										
Mouth to Headwaters	11A-EILE0	Flow Modification			NPS Assessment - segment 339: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data	
Goble Creek										
Mouth to Headwaters	11A-GOBL0	Sedimentation			NPS Assessment - segment 348: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data	
Green Creek										
Mouth to Headwaters	11A-GREE0	Bacteria			NPS Assessment - segment 342: severe, observation (DEQ, 1988)		No supporting data or information		Need Data	
		Flow Modification			NPS Assessment - segment 342: severe, observation (DEQ, 1988)		No supporting data or information		Need Data	
		Nutrients			NPS Assessment - segment 342: severe, observation (DEQ, 1988)		No supporting data or information		Need Data	
Little Clatskanie River										
Mouth to Headwaters	11A-CLLI0	Sedimentation			NPS Assessment - segment 344: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data	

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Basin <i>North Coast/Lower</i>		Sub		<i>Lower Columbia/Clatskanie</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Lost Creek Mouth to Headwaters	11A-LOST0	Sedimentation			NPS Assessment - segment 346: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Merrill Creek Mouth to Headwaters	11A-MERR0	Sedimentation			NPS Assessment - segment 350: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
OK Creek Mouth to Headwaters	11A-OK0	Flow Modification			NPS Assessment - segment 340: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Tide Creek Mouth to Headwaters	11A-TIDE0	Sedimentation			NPS Assessment - segment 349: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Lower Columbia/Youngs</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bear Creek Mouth to Headwaters	11B-BEAR0	Sedimentation			NPS Assessment - segment 443: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Cullaby Lake Lake	11B.CULL	Aquatic Weeds or Algae	Fanwort	Summer	Sweet (1990); Petersen (1994); Clean Lakes Proposal (1995); NPS Assessment - segment 515: moderate, observation (DEQ, 1988)	Cabomba carolina, a non-native macrophyte, dominates the lake plant assemblage and interferes with boating and swimming use of the lake (Portland State University, 1994). Proposed Phase 1 Clean Lake Study prepared (SRI, 1995).		303(d) List	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 515: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Klaskanine River Mouth to North/South Confluence	11B-KLAS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 335: moderate, observation (DEQ, 1988)	DEQ Data (Site 404599; RM 1.3): 0% (0 of 5) FWS values exceeded fecal coliform standard (400) with a maximum value of 1600 between 1992 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 335: moderate, observation (DEQ, 1988)	DEQ Data (Site 404599; RM 1.3): 17% (1 of 6) Summer values exceeded fecal coliform standard (400) with a maximum value of 1600 between 1993 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data; NPS Assessment - segment 335: moderate, observation (DEQ, 1988)	DEQ Data (Site 404599; RM 1.3): 17% (1 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data; NPS Assessment - segment 335: moderate, observation (DEQ, 1988)	DEQ Data (Site 404599; RM 1.3): 0% (1 of 5) October through April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October - April).	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Lower Columbia/Youngs</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to North/South Confluence	11B-KLAS0	Dissolved Oxygen (DO)		May 1 - September 30	DEQ Data; NPS Assessment - segment 335: moderate, observation (DEQ, 1988)	DEQ Data (Site 404599; RM 1.3): 50% (3 of 6) May through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 6.1 mg/l between 1993 - 1995 (Cold water rearing, approximately May - September).		303(d) List	
		pH		Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 335: moderate, observation (DEQ, 1988)	DEQ Data (Site 404599; RM 1.3): 0% (0 of 5) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data; NPS Assessment - segment 335: moderate, observation (DEQ, 1988)	DEQ Data (Site 404599; RM 1.3): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 335: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			DEQ Data; NPS Assessment - segment 335: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Lewis and Clark River Mouth to Klickitat Creek	11B-LEWI0	Sedimentation			NPS Assessment - segment 331: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			DEQ Data		No supporting data or information	Need Data	
Klickitat Creek to Headwaters	11B-LEWI10	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402494; RM 12.7): 0% (0 of 5) Summer values exceeded fecal coliform standard (400) between 1993 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402494; RM 12.7): 0% (0 of 6) FWS values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402494; RM 12.7): 0% (0 of 5) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 - 1995.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Lower Columbia/Youngs</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Klickitat Creek to Headwaters	11B-LEWI10	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - June 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402494; RM 12.7): 0% (0 of 5) October through June values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October - June).	Did not meet listing criteria	OK		
				July 1 - September 30	DEQ Data	DEQ Data (Site 402494; RM 12.7): 16% (1 of 6) July through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 7.2 between 1992 - 1995 (Cold water rearing, approximately July - September).	Did not meet listing criteria	OK		
			Flow Modification			NPS Assessment - segment 332: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
			pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402494; RM 12.7): 0% (0 of 6) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
			pH		Summer	DEQ Data	DEQ Data (Site 402494; RM 12.7): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
				Sedimentation			NPS Assessment - segment 332: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
Little Bear Creek										
Mouth to Headwaters	11B-BELI0				NPS Assessment - segment 444: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
Little Creek										
Mouth to Headwaters	11B-LITTO				NPS Assessment - segment 445: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
Skipanon River										
Mouth to Headwaters	11B-SKIP0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 330: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		

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Basin <i>North Coast/Lower</i>		Sub <i>Lower Columbia/Youngs</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	11B-SKIP0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 330: severe, observation (DEQ, 1988)	DEQ Data (Site 402489; RM 4.9): 0% (0 of 6) FWS values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 330: severe, observation (DEQ, 1988)	DEQ Data (Site 402489; RM 4.9): 0% (0 of 6) Summer values exceeded fecal coliform standard (400) between 1993 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402489; RM 4.9): 0% (0 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 329 &330: moderate/severe, observation (DEQ, 1988)	DEQ Data (Site 402489; RM 4.9): 100% (5 of 5) October through April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 8.9 mg/l between 1992 - 1995 (Cold water spawning, approximately October - April).		303(d) List	
		Dissolved Oxygen (DO)		May 1 - September 30	DEQ Data; NPS Assessment - segments 329 &330: moderate/severe, observation (DEQ, 1988)	DEQ Data (Site 402489; RM 4.9): 86% (6 of 7) May through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 4.8 mg/l between 1993 - 1995 (Cold water rearing, approximately May - September).		303(d) List	
		Flow Modification			NPS Assessment - segments 329 & 330: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 330: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (Site 402489; RM 4.9): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub		<i>Lower Columbia/Youngs</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	11B-SKIP0	pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402489; RM 4.9): 17% (1 of 6) FWS values exceeded pH minimum standard (6.5) with a value of 6.4 and no values exceeded pH maximum standard (8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		Temperature			DEQ Data		No supporting data or information	Need Data	
Smith Lake Lake	11B.SMIT	Aquatic Weeds or Algae	Aquatic Weeds	Summer	McHugh (79); Clean Lakes Proposal (1995)	Plan for Smith Lake Restoration (Smith Lake Improvement, Inc., 10/94): Aquatic weeds, including Elodea, interfere with beneficial uses such as boating; Regional Phase 1 study (1995) proposed for lake but is unfunded.		303(d) List	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985)		No supporting data or information	Need Data	
Youngs River Mouth to Headwaters	11B-YOUN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	NPS Assessment - segment 333: moderate, observation (DEQ, 1988)	DEQ Data (Site 404921; RM 8.9): 0% (0 of 5) Summer values exceeded fecal coliform standard (400) between 1993 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	NPS Assessment - segment 333: moderate, observation (DEQ, 1988)	DEQ Data (Site 404921; RM 8.9): 0% (0 of 5) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	NPS Assessment - segment 333: moderate, observation (DEQ, 1988)	DEQ Data (Site 404921; RM 8.9): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 333: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics			NPS Assessment - segment 333: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>North Coast/Lower</i>		Sub <i>Necanicum</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Elk Creek Mouth to Headwaters	11C-ELK0	Nutrients			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
Neacoxie Creek Mouth to Headwaters	11C-NEAC0	Bacteria			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 523: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Gearhart		Nutrients	Nitrates	Year Around	NPS Assessment - segment 523: severe, data (DEQ, 1988); DEQ Data	Elevated nitrate levels in the creek as it passes through the Town of Gearhart (.35 mg/l).	No established standard	Potential Concern	Status Modification
Mouth to Headwaters		pH			NPS Assessment - segment 523: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Necanicum River Mouth to Headwaters	11C-NECA0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402191; RM 5.8): 0% (0 of 6) FWS values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402191; RM 5.8): 33% (2 of 6) Summer values exceeded fecal coliform standard (400) with a maximum value of 920 between 1993 - 1995.			303(d) List
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402191; RM 5.8): 0% (0 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - June 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402191; RM 5.8): 0% (0 of 8) October through June values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October - June).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 326: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>North Coast/Lower</i>		Sub		<i>Necanicum</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	11C-NECA0	pH		Summer	DEQ Data	DEQ Data (Site 402191; RM 5.8): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402191; RM 5.8): 0% (0 of 6) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		Temperature			DEQ Data		No supporting data or information	Need Data	
Sunset Lake Lake	11C.SUNS	Aquatic Weeds or Algae	Aquatic Weeds	Summer	Clean Lakes Proposal (1995); NPS Assessment - segment 328: moderate, observation (DEQ, 1988)	Clean Lakes Proposal (1995) proposed for lake but is unfunded.		303(d) List	
		Bacteria			NPS Assessment - segment 328: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 328: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>North Coast/Lower</i>	Sub	<i>Nehalem</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Beaver Creek Mouth to Headwaters	11D-BEAV0	Sedimentation			NPS Assessment - segment 323: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Beneke Creek Mouth to Headwaters	11D-BENE0	Flow Modification			NPS Assessment - segment 313: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Buster Creek Mouth to Headwaters	11D-BUST0	Flow Modification			NPS Assessment - segment 315: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Clear Creek Mouth to Headwaters	11D-CLEA0	Sedimentation			NPS Assessment - segment 441: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cook Creek Mouth to Headwaters	11D-COOK0	Habitat Modification			NPS Assessment - segment 302: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Deep Creek Mouth to Headwaters	11D-DEEP0	Sedimentation			NPS Assessment - segment 318: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Deer Creek Mouth to Headwaters	11D-DEER0	Sedimentation			NPS Assessment - segment 442: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Fishhawk Creek (Birkenfeld) Mouth to Fishhawk Lake	11D-FISH0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered impaired with a Discriminate Score of <61 points. Discriminate score was 61, however, site was not listed as "impaired" because samples did not meet minimum sample size requirements.	Did not meet listing criteria	Potential Concern	Addition
Mouth to Headwaters		Sedimentation			NPS Assessment - segments 316 & 317: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	North Coast/Lower	Sub	Nehalem						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Fishhawk Creek (Jewell) Mouth to Headwaters	11D-FISJ0	Flow Modification			NPS Assessment - segment 312: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Foley Creek Mouth to Headwaters	11D-FOLE0	Bacteria			NPS Assessment - segment 300: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 300: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Humbug River Mouth to Headwaters	11D-HUMB0	Flow Modification			NPS Assessment - segment 311: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Humbug River, East Mouth to Headwaters	11D-HUE0	Flow Modification			NPS Assessment - segment 311: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Kenusky Creek Mouth to Headwaters	11D-KENU0	Sedimentation			NPS Assessment - segment 320: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Little Fishhawk Creek Mouth to Headwaters	11D-FILIO	Flow Modification			NPS Assessment - segment 312: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Nehalem Bay - Lower Mouth of Bay to State Park Boat Ramp	11D-FILIO 303(d) List	11D*NEHA0	Bacteria		Marine and (DEQ, 1994); NPS Assessment - segment 297: moderate, observation (DEQ, 1988)	DEQ Data, d1 in 305(b) Report sites met fecal coliform log mean criteria (14) with values ranging from 8 to 14 and all sites exceeded 90% criteria (43) with values ranging from 79 to 130 between WY 1992 - 1995.		DEQ Data (3 Sites: Mile 0.2 -	

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Basin <i>North Coast/Lower</i>		Sub <i>Nehalem</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Nehalem Bay - Upper State Park Boat Ramp to Nehalem City Dock	11D*NEHA2.5	Bacteria	Marine and shellfish growing area (fecal coliform)		DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 297: moderate, observation (DEQ, 1988)	DEQ Data (4 Sites: Mile 2.5 - 10.5): All sites exceeded fecal coliform log mean criteria (14) with values ranging from 26 to 58 and all sites exceeded 90% criteria (43) with values ranging from 170 to 350 between WY 1992 - 1995.		303(d) List	
Nehalem River Mouth to Cook Creek	11D-NEHA0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 297 & 298: severe, data/observation (DEQ, 1988)	DEQ Data (4 Sites: 412366, 412365, 412005, 404545; RM 1.2, 1.5, 1.51, 7.8): 6% (2 of 34), 12% (5 of 34), 20% (1 of 5), 0% (0 of 5) FWS values respectively exceeded fecal coliform standard (400) between 1993 - 1995. 4 sites were viewed in total, combined had a 10% violation rate, violations occurred in different years, professional judgment was used in review of data to determine that Bacteria-water contact recreation was not a concern in this segment.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 297 & 298: severe, data/observation (DEQ, 1988)	DEQ Data (3 Sites: 412366, 412365, 404545; RM 1.2, 1.5, 7.8): 6% (1 of 16), 9% (2 of 21), and 0% (0 of 6) Summer values exceeded fecal coliform standard (400) between 1988 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		May 1 - September 30	DEQ Data	DEQ Data (Site 404545; RM 7.8): 0% (0 of 4) May through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between 1992 - 1995 (Cold water rearing, approximately May - September).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data	DEQ Data (Site 404545; RM 7.8): 0% (0 of 7) October through April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October - April).	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 404545; RM 7.8): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) standard between 1993 - 1995.	Did not meet listing criteria	OK	

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Basin	North Coast/Lower	Sub	Nehalem						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Cook Creek	11D-NEHA0	pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404545; RM 7.8): 0% (0 of 5) FWS values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
		Temperature		Summer	USGS and DEQ Data	USGS Data (Site 14301000; near Foss): 52% (14 of 27) Summer values exceeded temperature standard (64) with a maximum of 70.7 and exceedences recorded in 1980, 1982, 1984 - 1993 between WY 1979 - 1993.		303(d) List	
Cook Creek to Rock Creek	11D-NEHA13.3	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS Data	USGS Data (Site 14301000; near Foss): 0% (0 of 45) FWS values exceeded fecal coliform standard (400) between WY 1979 - 1993; DEQ Data (Site 412075; RM 15.0): 0% (0 of 20) FWS values exceeded fecal coliform standard (400) between 1988 - 1992.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 14301000; near Foss): 0% (0 of 25) Summer values exceeded fecal coliform standard (400) between WY 1979 - 1993.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		May 1 - September 30	USGS and DEQ Data	DEQ Data (Site 402059; RM 11): 0% (0 of 5) May through September values exceeded spawning standard (8 mg/l or 90% saturation) between 1982 - 1984 (Cold water fishery, spawning approximately May - Sep); USGS data also available.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ/USGS Data	DEQ Data (Site 402059; RM 11): 0% (0 of 10) October through April values exceeded spawning standard (11 mg/l or 95% saturation) between 1982 - 1984 (cold water fishery, spawning approximately Oct - Apr); USGS data also available.	Did not meet listing criteria	OK	
		Flow Modification				NPS Assessment - segments 308 & 309: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data

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Basin	<i>North Coast/Lower</i>	Sub	<i>Nehalem</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Cook Creek to Rock Creek	11D-NEHA13.3	pH		Fall-Winter-Spring	USGS Data	USGS Data (Site 14301000; near Foss): 0% (0 of 44) FWS values exceeded pH standard (6.5 - 8.5) between WY 1980 - 1993.	Did not meet listing criteria	OK		
		pH		Summer	USGS Data	USGS Data (Site 14301000; near Foss): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) standard between WY 1988 - 1993.	Did not meet listing criteria	OK		
		Sedimentation				NPS Assessment - segment 309: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature		Summer	USGS and DEQ Data; NPS Assessment - segments 308 & 309: moderate, observation (DEQ, 1988)	USGS Data (Site 14301000; near Foss): 52% (14 of 27) Summer values exceeded temperature standard (64) with a maximum of 70.7 and exceedences recorded in 1980, 1982, 1984 - 1993 between WY 1980 - 1893.		303(d) List		
Mouth to Cook Creek	11D-NEHA7.8	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404545; RM 7.8): 0% (0 of 5) FWS values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK		
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404545; RM 7.8): 0% (0 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 -1995.	Did not meet listing criteria	OK		
Rock Creek to Headwaters	11D-NEHA90.7	Sedimentation			NPS Assessment - segment 310: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Nehalem River, East Fork										
Mouth to Headwaters	11D-NEEF0	Sedimentation			NPS Assessment - segment 319: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		

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Basin	North Coast/Lower	Sub	Nehalem						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Nehalem River, North Fork									
Mouth to Soapstone Creek	11D-NENF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994), N F Nehalem Dairy Farmers	DEQ Data (2 Sites: 404107 and 412074; RM 4.0 and 7.0): 15% (3 of 20) and 43% (3 of 7) FWS values exceeded fecal coliform standard (400) with maximum values of 460 and 460 respectively between 1988 - 1991. NF Nehalem Dairy Farmers established a monitoring program at two sites in 1997. Data showed that both Fecal Coliform and E. Coli were below the bacteria standard. Additionally, the farms in the area have upgraded their manure holding and spreading facilities since the 1990 violations. Elevated bacteria levels below the standard are a concern in Oct.-Nov. probably associated with the beginning of the wet season and again in late June-July cause unknown.	Did not meet listing criteria	Potential Concern	Removed (5)
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 404107; RM 4.0): 11% (1 of 9) Summer values exceeded fecal coliform standard (400) between 1988 - 1990.	Did not meet listing criteria	OK	
Mouth to headwaters		Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered a Potential Concern with a Discriminate Score of 61 to 75 points. Discriminate score was 69.	Did not meet listing criteria	Potential Concern	Addition
Mouth to Soapstone Creek		Nutrients			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
Soapstone Creek to Headwaters	11D-NENF10.5	Temperature			NPS Assessment - segment 304: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Northrup Creek									
Mouth to Headwaters	11D-NORT0	Flow Modification			NPS Assessment - segment 314: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>North Coast/Lower</i>		Sub <i>Nehalem</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Rock Creek Mouth to Headwaters	11D-ROCK0	Sedimentation			NPS Assessment - segment 324: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
Soapstone Creek Mouth to Headwaters	11D-SOAP0	Habitat Modification			NPS Assessment - segment 305: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
West Humbug River Mouth to Headwaters	11D-HUW0	Flow Modification			NPS Assessment - segment 311: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		

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Basin <i>North Coast/Lower</i>		Sub		<i>Wilson/Trask/Nestucca</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bays Creek Mouth to Headwaters	11E-BAYS0	Temperature		Summer	USFS Data	USFS Data (1 Site): 7 day average of daily maximum of 56.8 did not exceed temperature standard (64) with 0 days above standard in 1994.	Did not meet listing criteria	OK	
Bear Creek Mouth to Headwaters	11E-BEAR0	Temperature		Summer	USFS Data	USFS Data (1 Site): 7 day average of daily maximum of 59.8 did not exceed temperature standard (64) with 0 days above standard in 1994.	Did not meet listing criteria	OK	
Beaver Creek Mouth to Headwaters	11E-BEAV0	Temperature		Summer	USFS Data	USFS Data (2 Sites: Lower and Upper): 7 day average of daily maximum of 63.5 and 61.5 did not exceed temperature standard (64) with 0 days above standard respectively in 1994.	Did not meet listing criteria	OK	
Beaver Creek, East Fork Mouth to Headwaters	11E-BEEF0	Habitat Modification			USDA (1986); NPS Assessment - segment 269: moderate, observation (DEQ, 1988)	Coho and Winter Steelhead populations are depressed, poor habitat conditions (lack of large wood and pools) have been identified as limiting factors (Baker et al, 1986).		303(d) List	
		Sedimentation			USDA (1986); NPS Assessment - segment 269: moderate, observation (DEQ, 1988)	Coho and Winter Steelhead populations are depressed, sedimentation has been identified as a limiting factor (Baker et al, 1986).		303(d) List	
		Temperature		Summer	USFS Data	USFS Data (1 Site): 7 day average of daily maximum of 61.5 did not exceed temperature standard (64) with 0 days above standard in 1994.	Did not meet listing criteria	OK	
Beaver Creek, West Fork Mouth to Headwaters	11E-BEWF0	Temperature		Summer	USFS Data	USFS Data (1 Site): 7 day average of daily maximum of 62.3 did not exceed temperature standard (64) with 0 days above standard in 1994.	Did not meet listing criteria	OK	

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bewley Creek Mouth to RM 2	11E-BEWL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82)	DEQ Data (2 Sites: 412212 , 412228; RM 0.3, 1.0): 69% (9 of 13), 67% (8 of 12) Summer values exceeded fecal coliform standard (400) with a maximum value of 2400 and 2400 respectively between 1986 - 1989.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82)	DEQ Data (2 Sites: 412212, 412228; RM 0.3, RM 1.0): 22% (5 of 23) and 13% (3 of 23) FWS values exceeded fecal coliform standard (400) with a maximum value of 2320 and 1200 respectively between 1986 - 1990.		303(d) List	
	Mouth to Headwaters	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered impaired with a Discriminate Score of <61 points. Discriminate score was 56, however, site was not listed as "impaired" because samples did not meet minimum sample size requirements.	Did not meet listing criteria	Potential Concern	Addition
Bible Creek Mouth to Headwaters	11E-BIBL0	Temperature		Summer	USFS Data	USFS Data (1 Site): 7 day average of daily maximum of 60.0°F did not exceed temperature standard (64) with 0 days above standard in 1994. In 1997 was 59.3°F	Did not meet listing criteria	OK	
Cape Meares Lake Lake	11E.CAPE	Aquatic Weeds or Algae	Aquatic Weeds		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 517: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cedar Creek (on Nestucca River) Mouth to Headwaters	11E-CEDA0	Temperature		Summer	USFS	USFS Data (Site at Hebo Road): 7 day average of daily maximum of 53.9/56.4/54.3/53.9°F did not exceed temperature standard (64) with 0 days above standard in 1991/1992/1993/1994 respectively. In 1994 at mouth temperature was 53.5°F	Did not meet listing criteria	OK	

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Cedar Creek (on Wilson River)									
Mouth to Headwaters	11E-CEDA0	Temperature		Summer	DEQ data	No temperature exceedences, 7 day Ave. Max. for 1997 was 61.8°F	Did not meet listing criteria	OK	Addition
Coleman Creek									
Mouth to Headwaters	11E-COLE0	Flow Modification			NPS Assessment - segment 414: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 414: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dougherty Slough									
Mouth to Headwaters	11E+DOUG	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data - Ambient Mon (305(b), 1994); Jackson (1982)	DEQ Data (2 Sites: 412137 and 412138; RM 1 and 3): 33% (2 of 6) and 100% (6 of 6) Summer values exceeded fecal coliform standard (400) with a maximum value of 1600 and 5000 respectively in 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data - Ambient Mon (305(b), 1994); Jackson (1982)	DEQ Data (2 Sites: 412137 and 412138; RM 1.0 and 3.0): 32% (7 of 22) and 57% (12 of 21) FWS values exceeded fecal coliform standard (400) with maximum values of 8200 and 64000 respectively in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).		303(d) List	
		Chlorophyll a		Year Around	DEQ Data	DEQ Data (1 Site): Study in 1997 showed Chlorophyll a above the .015 mg/l standard; site 412138, 750/660/180 mg/l, however, number of samples take is below criteria for listing.	Did not meet listing criteria	Potential Concern	Addition
		Dissolved Oxygen (DO)	Estuarine waters: DO < 6.5 mg/l	Year Around	DEQ Data	DEQ Data (2 Sites): Study in 1997 showed DO levels below DO standard for estuarine 6.5 mg/l and cold fresh water of 8.0 mg/l; site 412138, 1.3/2.2/2.8 mg/l and site 412237, 5.7/6.4 mg/l, however, number of samples take is below criteria for listing.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Edwards Creek Mouth to Headwaters	11E-EDWAO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982)	DEQ Data (Site 412191; RM 0.1): 0% (0 of 8) FWS values exceeded fecal coliform standard (400) in 1979 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
Elk Creek Mouth to Headwaters	11E-ELK0	Temperature		Summer	USFS Data	USFS Data (1 Site): 7 day average of daily maximum of 59.5 did not exceed temperature standard (64) with 0 days above standard in 1994.	Did not meet listing criteria	OK	
Fall Creek Mouth to Headwaters	11E-FALLO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982)	DEQ Data (Site 412205; RM 0.1): 0% (0 of 8) FWS values exceeded fecal coliform standard (400) in 1979 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
		Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered healthy with Discriminate Scores > 75 points. Discriminate score was 80.	Did not meet listing criteria	OK	Addition
Farmer Creek Mouth to Headwaters	11E-FARMO	Temperature		Summer	USFS Data	USFS Data (1 Site): 7 day average of daily maximum of 60 did not exceed temperature standard (64) with 0 days above standard in 1994.	Did not meet listing criteria	OK	
Hall Slough Mouth to Headwaters	11E+HALL	Chlorophyll a		Year Around	DEQ Data	DEQ Data (1 Site): Study in 1997 showed Chlorophyll a above the .015 mg/l standard; site 405862, 4.5/23 mg/l, however, number of samples take is below criteria for listing.	Did not meet listing criteria	Potential Concern	Addition
		Dissolved Oxygen (DO)	Estuarine waters: DO < 6.5 mg/l	Year Around	DEQ Data	DEQ Data (3 Sites): Study in 1997 showed DO levels above and below DO standard for estuarine 6.5 mg/l and cold fresh water of 8.0 mg/l; site 405862, 3.4/7.9 mg/l, site 412136, 4.4/9.2 mg/l and site 405736, 8.5 mg/l, however, number of samples take is below criteria for listing.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Hathaway Slough Mouth to Headwaters	11E+HATH	Dissolved Oxygen (DO)	Estuarine waters: DO < 6.5 mg/l	Year Around	DEQ Data	DEQ Data (1 Site): Study in 1997 showed DO levels below DO standard for estuarine 6.5 mg/l and cold fresh water of 8.0 mg/l; site 405637, 5.5/5.5 mg/l, however, number of samples take is below criteria for listing.	Did not meet listing criteria	Potential Concern	Addition
Holden Creek Mouth to Headwaters	11E-HOLD0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Jackson (1982)	DEQ Data (3 Sites: 412196, 412195, 412194; RM .25, 1.0, 1.2): 100% (6 of 6) Summer values exceeded fecal coliform standard (400) at all 3 sites with maximum values of 150000, 5400, 24000 respectively in 1980 (Tillamook Bay Bacteria Study, DEQ, 1982.)		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982)	DEQ Data (3 Sites: 412196, 412195, 412194; RM 0.25, 1.0, 1.2): 92% (23 of 25), 96% (24 of 25), 96% (23 of 24) FWS values exceeded fecal coliform standard (400) with max values of 56000, 33000, 70000 respectively in WY 1980 (Till Bay Bact Study, DEQ, 82).		303(d) List	
Hoquarton Slough Mouth to Headwaters	11E+HOQU	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82)	DEQ Data (Site 412139; RM 2.0): 53% (18 of 34) FWS values exceeded fecal coliform standard (400) with a maximum value of 3100 between 1986 - 1991.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82)	DEQ Data (Site 412139; RM 2.0): 52% (12 of 23) Summer values exceeded fecal coliform standard (400) with a maximum value of 2400 between 1986 - 1991.		303(d) List	
		Dissolved Oxygen (DO)	Estuarine waters: DO < 6.5 mg/l	Year Around	DEQ Data	DEQ Data (3 Sites): Study in 1997 showed DO levels above and below DO standard for estuarine 6.5 mg/l and cold fresh water of 8.0 mg/l; site 412139 RM 2, 5.6/5.5/6.5 mg/l, site 412217, 3.8/6.9 mg/l and site 405640, 7.9 mg/l, however, number of samples take is below criteria for listing.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	11E+HOQU	pH		Year Around	DEQ Data	DEQ Data (1 Sites): Study in 1997 showed pH levels below pH standard of 6.5, site 412217, 6.2/6.3, however, number of samples take is below criteria for listing.	Did not meet listing criteria	Potential Concern	Addition
Horn Creek Mouth to Headwaters	11E-HORN0	Temperature		Summer	USFS	USFS Data (1 Site): 7 day average of daily maximum of 57/60.8/57.7/61 did not exceed temperature standard (64) with 0 days above standard in 1991/1992/1993/1994 respectively.	Did not meet listing criteria	OK	
Joes Creek Mouth to headwaters	11E-JOES0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered healthy with Discriminate Scores>75 points. Discriminate Score was 97.	Did not meet listing criteria	OK	Addition
Jordan Creek Mouth to Headwaters	11E-JORD0	Habitat Modification			NPS Assessment - segment 284: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 284: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Kilchis River Mouth to Little South Fork Kilchis River	11E-KILCO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; Jackson (1982); NPS Assessment - segment 287: severe, data (DEQ, 1988)	DEQ Data (Site 412125; RM 0.1): 6% (2 of 29) FWS values exceeded fecal coliform standard (400) with a maximum value of 740 between 1986 - 1993.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82); NPS Assessment - segment 287: severe, data (DEQ, 1988)	DEQ Data (Site 412125; RM 0.1): 81% (17 of 21) Summer values exceeded fecal coliform standard (400) with a maximum value of 1700 between 1986 - 1994.		303(d) List	
Mouth to North/South Fork Confluence		Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered a Potential Concern with a Discriminate Score of 61 to 75 points. Discriminate score was 67.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>North Coast/Lower</i>		Sub		<i>Wilson/Trask/Nestucca</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Little South Fork Kilchis River	11E-KILC0	Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 412125; RM 0.1): 0% (0 of 12) Summer values exceeded chlorophyll a standard (15 ug/l) between 1986 - 1994.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		May 1 - September 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412130; RM 1.8): 0% (0 of 14) May through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1987 - 1995 (Cold water rearing, approximately May - September); Diurnal data collected in 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412125; RM 0.1): 0% (0 of 8) October through April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1987 - 1993 (Cold water spawning, approximately October - April).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 287: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 287: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 287: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 412125; RM 0.1): 0% (0 of 13) FWS values exceeded pH standard (6.5 - 8.5) between 1986 - 1993.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 412125; RM 0.1): 0% (0 of 9) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 1994.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 287: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	North Coast/Lower	Sub	Wilson/Trask/Nestucca						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to headwaters	11E-KILC0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1995) and NRCS data	DEQ Data (2 Sites: 412126 and 412125; RM 1.2 and 0.1): 7 day average of 64.2 with 7 days above temperature standard (64) in 1995 and 0% (0 of 13) Summer values exceeded standard between 1986 - 1994 respectively. Above Coal Creek in 1992 was 62.1°F. NRCS data (3 sites): in 1995/96 respectively S.F Dill Cr. 70.3/67.9; Curl Bridge 68.8/69.3; Junction of N.F. and S.F Kilchis River 71.4/72.7. Majority of readings exceed temperature criteria		303(d) List	Addition
Little South Fork Kilchis River to meet listing Headwaters	OK	11E-KILC6.8	Bacteria	Water Contact	Summer	DEQ Data; Jackson (1982);	DEQ Data (Site 412186; RM 10.9): 0% (0	Did not meet listing criteria	OK
			Recreation (fecal coliform-96 Std)		NPS Assessment - segment 287: severe, data (DEQ, 1988)	of 7) Summer values exceeded fecal coliform standard (400) between 1988 - 1989.			
			Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; Jackson (1982); NPS Assessment - segment 287: severe, data (DEQ, 1988)	DEQ Data (Site 412186; RM 10.9): 0% (0 of 11) FWS values exceeded fecal coliform standard (400) between 1988 - 1990.	Did not meet listing criteria	OK
			Flow Modification			NPS Assessment - segment 288: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
		Habitat Modification			NPS Assessment - segment 288: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Killam Creek									
Mouth to Headwaters	11E-KILL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412324; RM 0.1): 27% (8 of 30) FWS values exceeded fecal coliform standard (400) with a maximum value of 2320 between 1986 - 1990.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412324; RM 0.1): 92% (12 of 13) Summer values exceeded fecal coliform standard (400) with a maximum value of 3140 between 1986 - 1989.		303(d) List	

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Little Kilchis River, South Fork									
Mouth to headwaters	11E-LKSF0	Temperature	Rearing 64 F (17.8 C)	Summer	NRCS data	No temperature exceedences, 7 day Ave. Max. for 1995/96 was 57.5/56.5°F	Did not meet listing criteria	OK	Addition
Little Nestucca River									
Mouth to Headwaters	11E-NELI0	Habitat Modification			NPS Assessment - segment 263: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 263: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 263: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Lytle Lake									
Lake	11E.LYTL	Aquatic Weeds or Algae	Milfoil	Summer	Phase 1 Clean Lake Study, Eilers et al (1995); NPS Assessment - segment 516: moderate, observation (DEQ, 1988)	Eurasian watermilfoil (<i>Myriophyllum spicatum</i>), a non-native macrophyte that is a "B" designate weed by ODA, dominates the lake and interferes with boating and swimming use of the lake. Phase 1 Clean Lake study completed (E&S Env Chem, 1995).		303(d) List	
Mapes Creek (Kilchis River)									
Mouth to headwaters	11E-KILC0	Temperature	Rearing 64 F (17.8 C)	Summer	NRCS data	No temperature exceedences, 7 day Ave. Max. for 1995/96 was 59.1/57.9°F	Did not meet listing criteria	OK	Addition
Miami River									
Mouth to Stuart Creek	11E-MIAM0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82); NPS Assessment - segment 292: severe, data (DEQ, 1988)	DEQ Data (Site 412120; RM 0.9): 13% (4 of 30) FWS values exceeded fecal coliform standard (400) with a maximum value of 920 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82); NPS Assessment - segment 292: severe, data (DEQ, 1988)	DEQ Data (Site 412120; RM 0.9): 33% (8 of 24) Summer values exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 412120; RM 0.9): 0% (0 of 12) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Stuart Creek	11E-MIAM0	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412120; RM 0.9): 8% (1 of 12) October through April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 10 mg/l between WY 1986 - 1995 (Cold water spawning, approximately October - April).	Did not meet listing criteria	OK	
				May 1 - September 30	DEQ Data	DEQ Data (Site 412120; RM 0.9): 0% (0 of 14) May through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water rearing, approximately May - September).	Did not meet listing criteria	OK	
		Habitat Modification			NPS Assessment - segment 292: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 292: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (Site 412120; RM 0.9): 0% (0 of 12) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 412120; RM 0.9): 0% (0 of 14) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 292: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Moss Creek		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ , NRCS and USFS data	DEQ Data (Site 412120; RM 0.9): 7 day average of daily maximums of 69.5 and 17 days exceeded temperature standard (64) in 1995.		303(d) List	Addition
Moss Creek to headwaters	11E-MIAM1	Temperature	Rearing 64 F (17.8 C)	Summer	NRCS and USFS data	NRCS site above Moss Creek in 1995 was 63.3°F and USFS site at Forest Rd. Bridge in 1997 was 58.3.	Did not meet listing criteria	OK	Segment Modification
Stuart Creek to Headwaters	11E-MIAM5.4	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982)	DEQ Data (Site 412180; RM 5.5): 10% (3 of 30) FWS values exceeded fecal coliform standard (400) with a maximum of 1000 in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982) and 1988 - 1989 data.	Did not meet listing Criteria	OK	

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Stuart Creek to Headwaters	11E-MIAM5.4	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Jackson (1982)	DEQ Data (Site 412180; RM 5.5): 0% (0 of 10) Summer values exceeded fecal coliform standard (400) in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing Criteria	OK	
		Flow Modification			NPS Assessment - segment 293: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 293: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mill Creek (Trask R Trib)									
Mouth to River Mile 3	11E-MITR0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Jackson (1982)	DEQ Data (2 Sites: 412216 and 412225; RM 0.5 and 2.5): 33% (2 of 6) and 100% (5 of 5) Summer values exceeded fecal coliform standard (400) with maximum values of 560 and 4300 respectively in 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982)	DEQ Data (2 Sites: 412216 and 412225; RM .5 and 2.5): 78% (18 of 23) and 67% (10 of 15) FWS values exceeded fecal coliform standard (400) with a maximum value of 13000 and 100000 respectively in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).		303(d) List	
Mouth to headwaters		Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered impaired with a Discriminate Score of <61 points. Discriminate score was 44, however, site was not listed as "impaired" because samples did not meet minimum sample size requirements.	Did not meet listing criteria	Potential Concern	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ data	1997 data shows exceedence of temperature criteria, 7 day ave. max. 66.9°F at RR bridge		303(d) List	Addition

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mills Creek									
Mouth to US Forest Service boundary	11E-MILL00	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 412325, 412326; RM 0.1, 0.3): 85% (11 of 13) and 30% (4 of 13) Summer values exceeded fecal coliform standard (400) with maximum values of 2920 and 1340 respectively between 1986 - 1989.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 412325, 412326; RM 0.1, 0.3): 30% (9 of 30) and 9% (3 of 32) FWS values exceeded fecal coliform standard (400) with maximum values of 1900 and 1400 respectively between 1986 - 1990.		303(d) List	
Moss Creek									
Mouth to Headwaters	11E-MOSS0	Flow Modification			NPS Assessment - segment 296: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 296: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Murphy Creek									
Mouth to Headwaters	11E-MURP0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82)	DEQ Data (2 Sites: 412250, 412323; RM 0.1, 0.3): 71% (15 of 21) and 21% (7 of 33) FWS values exceeded fecal coliform standard (400) with maximum values of 2260 and 2060 respectively between 1986 - 1990.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82)	DEQ Data (2 Sites: 412250, 412323; RM 0.1, 0.3): 85% (11 of 13) and 85% (11 of 13) Summer values exceeded fecal coliform standard (400) with maximum values of 2400 and 2400 respectively between 1986 - 1989.		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	NRCS data	1995/96 data shows exceedence of temperature criteria, 7 day ave. max. 77.4/80.4°F at mouth		303(d) List	Addition

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Basin	North Coast/Lower	Sub	Wilson/Trask/Nestucca						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Nestucca Bay Bay	11E*NEST0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	NPS Assessment - segment 265: moderate, observation (DEQ, 1988)	DEQ Data (Site 412156; 2.5 miles above Bay mouth): 40% (2 of 5) values exceeded fecal coliform 90% criteria (43) with values ranging to 460 between 1980 - 1984.		303(d) List	
		Sedimentation			NPS Assessment - segment 265: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 265: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Nestucca River Mouth to Powder Creek	11E-NEST0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 266 & 267: severe/moderate, data/observation (DEQ, 1988)	DEQ Data (Site 402193; RM 7.1): 0% (0 of 6) FWS values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segments 266 & 267: severe/moderate, data/observation (DEQ, 1988)	DEQ Data (Site 402193; RM 7.1): 0% (0 of 7) Summer values exceeded fecal coliform standard (400) between 1993 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data; NPS Assessment - segments 266 & 267: severe/moderate, data/observation (DEQ, 1988)	DEQ Data (Site 402193; RM 7.1): 0% (0 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data	DEQ Data (Site 402193; RM 7.1): 0% (0 of 6) October through April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1992 - 1995 (Cold water spawning, approximately October - April).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		May 1 - September 30	DEQ Data	DEQ Data (Site 402193; RM 7.1): 0% (0 of 7) May through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between 1993 - 1995 (Cold water rearing, approximately May - September).	Did not meet listing criteria	OK	

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Powder Creek	11E-NEST0	Flow Modification			USDA (1986); IWR (ODFW); Flow (USGS,WRD); NPS Assessment - segments 266 & 267: moderate, observation (DEQ, 1988)	Coastal Coho and steelhead have been petitioned for federal listing under the ESA, reduced stream flows have been identified as one of the contributing factors (Nestucca W/S Analysis, 1994); IWR (71242) is often not met at USGS gage (14303600).		303(d) List	
		Habitat Modification			NPS Assessment - segments 266 & 267: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segments 266 & 267: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402193; RM 7.1): 0% (0 of 6) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402193; RM 7.1): 0% (0 of 7) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segments 266 & 267: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1994); DEQ Data; NPS Assessment - segments 266 & 267: moderate, observation (DEQ, 1988) and BLM data	USFS Data (3 Sites): At Cloverdale in 1994, 7 day average of daily maximum of 68.0°F; Tony Creek in 1994 was 69.0°F and Below Powder Creek in 1994 was 67.0°F. Two BLM sites one at Blaine in 1994 was 67.7°F and at Farmer Creek in 1994 was 69.1 °F all exceeded temperature standard (64); historic data at Beaver Creek (USGS) in 1983/84/85 was 64.4/64.4/71/6°F; .		303(d) List	
Powder Creek to Headwaters	11E-NEST28.9	Flow Modification			NPS Assessment - segment 268: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			USDA (1986); NPS Assessment - segment 268: moderate, observation (DEQ, 1988)	Coho and Winter Steelhead populations are depressed, poor habitat conditions (lack of large wood) have been identified as limiting factors (Baker et al, 1986).	303(d) List		

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Basin	North Coast/Lower	Sub	Wilson/Trask/Nestucca						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Powder Creek to Headwaters	11E-NEST28.9	Nutrients			NPS Assessment - segment 268: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 268: moderate, observation (DEQ, 1988)	Coho and Winter Steelhead populations are depressed, sedimentation has been identified as a limiting factor (Baker et al, 1986).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1994) and BLM data	USFS Data (6 Sites): Below Bible in 1994 was 63.0, Bear in 1994/97 was 64/63.5, Elk in 1994/97 was 62.5/63.5, Fan in 1994 was 62.0, Walker in 1994 was 62.0 Creeks and Below McGuire in 1994 was 60.0°F. BLM data (4 sites): at Bald Mt. in 1994 was 57.7, at Fan Cr. in 1994 was 62.0, are Meadow Lake in 1994 was 62.9, and at USGS gage in 1994/97 was 62.2/63.5°F. 7 day average of daily maximum of respectively did not exceed temperature standard (64) .	Did not meet listing criteria	OK	
Netarts Bay Mouth of Bay to Wittwer Oyster Plot	11E*NETA0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; NPS Assessment - segment 274: moderate, data (DEQ, 1988)	DEQ Data (8 Sites: Mile 0.2 - 4.0): All sites met fecal coliform log mean criteria (14) with values ranging from 3 to 6 and all sites met 90% criteria (43) with values ranging from 8 to 23 between WY 1992 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 274: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Niagara Creek Mouth to Headwaters	11E-NIAG0	Temperature		Summer	USFS Data (1994)	USFS Data (1 Site): 7 day average of daily maximum of 68.5 exceeded temperature standard (64) in 1994.		303(d) List	
Patterson Creek Mouth to Headwaters	11E-PATT0	Temperature		Summer	DEQ Data (1995)	DEQ Data (Site 405301; RM 1.0): 7 day average of daily maximum of 60.7 with 0 days did not exceed temperature standard (64) in 1995.	Did not meet listing criteria	OK	

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Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Powder Creek Mouth to Headwaters	11E-POWD0	Temperature		Summer	USFS Data (1994)	USFS Data (1 Site): 7 day average of daily maximum of 68 exceeded temperature standard (64) in 1994.		303(d) List	
Prouty Creek Mouth to Headwaters	11E-PROU0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Jackson (1982)	DEQ Data (Site 412179; RM 0.3): 0% (0 of 6) Summer values exceeded fecal coliform standard (400) in 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982)	DEQ Data (Site 412179; RM 0.3): 11% (1 of 9) FWS values exceeded fecal coliform standard (400) with a maximum of 570 in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
Sand Lake Estuary Estuary	11E*SAND0	Sedimentation			NPS Assessment - segment 273: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Pesticides		NPS Assessment - segment 273: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Simmons Creek Mouth to 0.5 mile above Hwy 101	11E-SIMM0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; Jackson (1982)	DEQ Data (2 Sites: 412214, 412226; RM 0.2 (Hwy 101), 1.0 (0.5 miles above Hwy 101): 100% (6 of 6), 0% (0 of 6) Summer values exceeded fecal coliform standard (400) with maximum values of 53000 and 150 respectively in 1980 (Till Bay Bact Study, DEQ, 82).		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; Jackson (1982)	DEQ Data (2 Sites: 412214, 412226; RM 0.2 (Hwy 101), 1.0 (0.5 miles above Hwy 101): 65% (17 of 26), 0% (0 of 17) FWS values exceeded fecal coliform standard (400) with max values of 17000, 200 respectively in 1980 (Till Bay Bact Study, DEQ, 82).		303(d) List	

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Testament Creek Mouth to Headwaters		11E-TEST0	Temperature		Summer	USFS Data (1994)	USFS Data (1 Site): 7 day average of daily maximum of 59.5 did not exceed temperature standard (64) with 0 days above standard in 1994.	Did not meet listing criteria	OK
Three Rivers Mouth to Headwaters		11E-THRE0	Bacteria			NPS Assessment - segment 270: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
			Nutrients			NPS Assessment - segment 270: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
			Temperature	Summer		USFS Data (1994)	USFS Data (4 Sites: Mouth, Lower, Middle and Upper): 7 day average of daily maximum of 62, 62, 61 and 60.3 respectively did not exceed temperature standard (64) with 0 days above standard in 1994.	Did not meet listing criteria	OK
Tillamook Bay - Lower Mouth of Bay to Marker No. 11		11E*TILL0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82); NPS Assessment - segment 276: severe, data (DEQ, 1988)	DEQ Data (Sites 412521 and 404746; Mile 1.3 and 2.0): Both sites met fecal coliform log mean criteria (14) with values of 5 and met 90% criteria (43) with values of 31 and 33 respectively between WY 1992 - 1995.	Did not meet listing criteria	OK
			Nutrients			NPS Assessment - segment 276: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
			Sedimentation			NPS Assessment - segment 276: severe, observation (DEQ, 1988)		No supporting data or information	Need Data
Tillamook Bay - Main Marker No. 19 to South Bay		11E*TILL2	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82); NPS Assessment - segment 276: severe, data (DEQ, 1988)	DEQ Data (8 Sites: Mile 2.2 - 4.3): One site exceeded fecal coliform log mean criteria (14) with values ranging from 7 to 16 and all sites exceeded 90% criteria (43) with values ranging from 49 to 140 between WY 1992 - 1995.		303(d) List

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Marker No. 19 to South Bay	11E*TILL2	Nutrients			NPS Assessment - segment 276: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 276: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Tillamook Bay - Upper Southeast Bay to Dick Point	11E*TILL4	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82); NPS Assessment - segment 276: severe, data (DEQ, 1988)	DEQ Data (7 Sites: Mile 3.8 - 6.3): All sites exceeded fecal coliform log mean criteria (14) with values ranging from 22 to 65 and all sites exceeded 90% criteria (43) with values ranging from 220 to 920 between WY 1992 - 1995.		303(d) List	
		Nutrients			NPS Assessment - segment 276: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 276: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Tillamook River Mouth to Headwaters	11E-TILL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82); NPS Assessment - segment 277: severe, data (DEQ, 1988)	DEQ Data (Site 412151; RM 13.0): 80% (8 of 10) Summer values exceeded fecal coliform standard (400) with a maximum value of 1340 between 1986 - 1989.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82); NPS Assessment - segment 277: severe, data (DEQ, 1988)	DEQ Data (Site 412151; RM 13.0): 36% (8 of 22) FWS values exceeded fecal coliform standard (400) with a maximum value of 1200 between 1986 - 1990. Site (412149): 30% (8 of 27) exceeded standard between 1986 - 1996.		303(d) List	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data	DEQ Data (Site 412149; RM 6.8): 8% (1 of 13) October through April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 10.9 between WY 1986 - 1995 (Cold water spawning, approximately October - April). A DEQ Sept. 1997 study at two sites showed DO of 7.9/8.3 mg/l.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	11E-TILL0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data	DEQ Data (Site 412149; RM 6.8): 0% (0 of 13) May through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water rearing, approximately May - September). A DEQ Sept. 1997 study at two sites showed DO of 7.9/8.3 mg/l.	Did not meet listing criteria	OK	
		Habitat Modification				NPS Assessment - segment 277: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Nutrients				NPS Assessment - segment 277: severe, data (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 277: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
Mouth to Yellow Fir		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data	DEQ data (5 sites in 1997): 7 day ave. max. temperature, d/s Beaver Cr. was 72.9; at Bewley Cr. was 68.9; u/s Rest Area was 67.3; d/s Lab Acres 65.4 and at Yellow Fir was 64.1°F. All sites exceeded temperature criteria.		303(d) List	Addition
Trask River									
Mouth to Gold Creek	11E-TRAS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 279: severe, data (DEQ, 1988)	DEQ Data (Site 412142; RM 4.2): 4% (1 of 24) Summer values exceeded fecal coliform standard (400) with a maximum value 460 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 279: severe, data (DEQ, 1988)	DEQ Data (Site 412142; RM 4.2): 3% (1 of 30) FWS values exceeded fecal coliform standard (400) with a maximum value 440 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 412142; RM 4.2): 0% (0 of 12) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995. DEQ Data (1 Site): Study in 1997 showed Chlorophyll a above the .015 mg/l standard; site 405846, 120 mg/l, however, number of samples take is below criteria for listing.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Gold Creek	11E-TRAS0	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data	DEQ Data (Site 412142; RM 4.2): 0% (0 of 13) October through April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1986 - 1995 (Cold water spawning, approximately October - April). A DEQ Sept. 1997 study showed DO at 1 site of 7.9 mg/l.	Did not meet listing criteria	OK	
				May 1 - September 30	DEQ Data	DEQ Data (Site 412142; RM 4.2): 0% (0 of 13) May through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water rearing, approximately May - September). A DEQ Sept. 1997 study showed DO at 1 site of 7.9 mg/l.	Did not meet listing criteria	OK	
		Habitat Modification			NPS Assessment - segment 279: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 279: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 412142; RM 4.2): 0% (0 of 14) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 412142; RM 4.2): 0% (0 of 11) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 279: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to S.F. Trask River		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data; NPS Assessment - segment 279: moderate, observation (DEQ, 1988)	Three sites in 1997: Lower Trask was 70.8; at gage was 68.8; at Hwy MP 11 was 66.5°F all exceeded temperature criteria.		303(d) List	Segment Modification
Gold Creek to Headwaters	11E-TRAS9.8	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Jackson (1982); NPS Assessment - segment 280: moderate, data (DEQ, 1988)	DEQ Data (Site 412144; RM 11.0): 0% (0 of 6) Summer values exceeded fecal coliform standard (400) in 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Gold Creek to Headwaters	11E-TRAS9.8	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982); NPS Assessment - segment 280: moderate, data (DEQ, 1988)	DEQ Data (Site 412144; RM 11.0): 0% (0 of 29) FWS values exceeded fecal coliform standard (400) in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 280: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 280: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 280: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Trask River, East Fork Mouth to Headwaters	11E-TREF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982)	DEQ Data (2 Sites: 412192 and 412193; RM 0.1 and 0.2): 0% (0 of 8) FWS values exceeded fecal coliform standard (400) at both sites in 1979 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
Trask River, East Fork of South Fork Mouth to Headwaters	11E-TRES0	Bacteria			NPS Assessment - segment 280: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 280: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 280: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 280: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ data	Two sites: down stream of Steampot Creek 7 day Ave. Max. for 1997 was 60.8°F and downstream of Rock Creek for 1997 was 59.8°F. No temperature exceedences.	Did not meet listing criteria	OK	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Trask River, Middle Fork of North Fork									
Mouth to headwaters	11E-TRMNO	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered healthy with Discriminate Scores > 75 points. Discriminate score was 93.	Did not meet listing criteria	OK	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ data	No temperature exceedences, 7 day Ave. Max. for 1997 was 62.8°F	Did not meet listing criteria	OK	Addition
Trask River, North Fork									
Mouth to Headwaters	11E-TRNF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Jackson (1982); NPS Assessment - segment 280: moderate, data (DEQ, 1988)	DEQ Data (Site 412190; RM 0.1): 0% (0 of 6) Summer values exceeded fecal coliform standard (400) in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982); NPS Assessment - segment 280: moderate, data (DEQ, 1988)	DEQ Data (Site 412190; RM 0.1): 0% (0 of 16) FWS values exceeded fecal coliform standard (400) in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 280: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 280: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 280: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Bark Shanty Creek		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ data	DEQ data (2 sites) in 1997: down stream of Bark Shanty was 66.1 and down stream of Clear Cr. was 64.3°F. Two values below Bark Shanty were above temperature criteria.		303(d) List	Addition
Bark Shanty Creek to headwaters	11E-TRNF4	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ data	DEQ data: in 1997 7 day max ave water temperature UP stream of Bark Shanty Creek was 63.7 °F.	Did not meet listing criteria	OK	Addition
Trask River, North Fork of N.F.									
Mouth to Headwaters	11E-TRNNO	Bacteria			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ data	1997 data shows exceedence of temperature criteria, 7 day ave. max. 65.3°F		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Trask River, South Fork Mouth to Headwaters	11E-TRSF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Jackson (1982)	DEQ Data (Site 412252; RM 2.0): 0% (0 of 6) Summer values exceeded fecal coliform standard (400) in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982)	DEQ Data (Site 412252; RM 2.0): 0% (0 of 7) FWS values exceeded fecal coliform standard (400) in 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ data	DEQ data (3 sites in 1997): at mouth 7 day ave. max. was 63.9, down stream of Edwards Cr. was 62.6, and down stream of Bill Cr. was 59.3°F. No exceedence of temperature criteria.	Did not meet listing criteria	OK	Addition
Vaughn Creek Mouth to Headwaters	11E-VAUG0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 295: moderate, observation (DEQ, 1988)	DEQ Data (2 Sites: 412185, 412184; RM 0.2, 0.5): 0% (0 of 7, 7) Summer values respectively exceeded fecal coliform standard (400) between 1988 - 1990.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 295: moderate, observation (DEQ, 1988)	DEQ Data (2 Sites: 412185, 412184; RM 0.2, 0.5): 0% (0 of 8, 8) FWS values respectively exceeded fecal coliform standard (400) between 1988 - 1990.	Did not meet listing criteria	OK	
		Nutrients			NPS Assessment - segment 295: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wilson River Mouth to Little North Fork Wilson River	11E-WILS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82); NPS Assessment - segment 281: severe, data (DEQ, 1988)	DEQ Data (Site 412130; RM 1.8): 29% (7 of 24) Summer values exceeded fecal coliform (400) with a maximum value of 1200 between 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); Jackson (82); NPS Assessment - segment 281: severe, data (DEQ, 1988)	DEQ Data (Site 412130; RM 1.8): 11% (5 of 44) FWS values exceeded fecal coliform (400) with a maximum value of 1100 between WY 1986 - 1995.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Little North Fork Wilson River	11E-WILSO	Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 412130; RM 1.8): 0% (0 of 12) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412130; RM 1.8): 0% (0 of 11) October through April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1987 - 1995 (Cold water spawning, approximately October - April).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		May 1 - September 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412130; RM 1.8): 0% (0 of 17) May through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1987 - 1995 (Cold water rearing, approximately May - September).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 281: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 281: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 281: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (Site 412130; RM 1.8): 0% (0 of 11) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 412130; RM 1.8): 0% (0 of 16) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 281: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to headwaters	11E-WILS0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data; NPS Assessment - segment 281: moderate, observation (DEQ, 1988)	DEQ Data (2 Sites: 412131and 412130; RM 4 and 1.8): 7 day average of daily maximum of 69.5 and 65 days exceeded temperature standard (64) in 1995 and 13% (3 of 24) Summer values exceeded temperature standard with a maximum value of 66.2 between 1986 - 95. Additional DEQ data for 1997, (5 sites): 7 day ave. max temperature at Hwy MP 6 was 69.9; d/s of Cedar Cr. was 68.2; d/s of Kansas Cr. was 69.3; d/s of Jordan Cr. was 68.6 and at Lee's Camp was 70.3°F. All measurements exceeded temperature criteria.		303(d) List	Segment Modification	
Little North Fork Wilson River to11E-WILS8.4 Headwaters		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; Jackson (1982); NPS Assessment - segments 282: moderate, observation (DEQ, 1988)	DEQ Data (Site 402060; RM 8.5): 0% (0 of 10) Summer values exceeded fecal coliform standard (400) between WY 1980 - 1987.	Did not meet listing criteria	OK		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; Jackson (1982); NPS Assessment - segments 282: moderate, observation (DEQ, 1988)	DEQ Data (Site 402060; RM 8.5): 3% (1 of 31) FWS values exceeded fecal coliform standard (400) with a maximum of 430 between WY 1980 - 1987.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data	DEQ Data (Site 402060; RM 8.5): 0% (0 of 30) October through April values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1980 - 1987 (Cold water spawning, approximately October - April).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)		May 1 - September 30	DEQ Data	DEQ Data (Site 402060; RM 8.5): 0% (0 of 14) May through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1980 - 1987 (Cold water rearing, approximately May - September).	Did not meet listing criteria	OK		
		Habitat Modification				NPS Assessment - segments 282 & 286: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients				NPS Assessment - segment 282: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Little North Fork Wilson River to11E-WILS8.4 Headwaters		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402060; RM 8.5): 3% (1 of 32) FWS values exceeded pH standard (6.5 - 8.5) between WY 1980 - 1987.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segments 282 & 286: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wilson River, Little North Fork									
Mouth to Headwaters	11E-WILN0	Flow Modification			NPS Assessment - segment 283: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 283: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wilson River, North Fork									
Mouth to Headwaters	11E-WINF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Jackson (1982)	DEQ Data (Site 412201; RM 1.5): 0% (0 of 6) Summer values exceeded fecal coliform standard (400) in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982)	DEQ Data (Site 412201; RM 1.5): 7% (1 of 14) FWS values exceeded fecal coliform standard (400) in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
		Habitat Modification			NPS Assessment - segment 286: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS - segment 286: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wilson River, South Fork									
Mouth to Headwaters	11E-WISF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Jackson (1982)	DEQ Data (Site 412198; RM 0.3): 0% (0 of 6) Summer values exceeded fecal coliform standard (400) in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	

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Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	11E-WISF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson (1982)	DEQ Data (Site 412198; RM 0.3): 0% (0 of 14) FWS values exceeded fecal coliform standard (400) in WY 1980 (Tillamook Bay Bacteria Study, DEQ, 1982).	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ data	No temperature exceedences, 7 day Ave. Max. for 1997 was 61.8°F	Did not meet listing criteria	OK	Addition
Wilson River, West Fork of N.F.									
Mouth to Headwaters	11E-WINW0	Habitat Modification			NPS Assessment - segment 286: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS - segment 286: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>North Coast/Lower</i>		Sub <i>Lower Columbia/Clatskanie</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Big Creek Mouth to Fish Hatchery RM 4	11A-BIG0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment, 1994	Streams are considered a Potential Concern with a Discriminate Score of 61 to 75 points. Discriminate score was 66.	Did not meet listing criteria	Potential Concern	Addition
Goble Creek, South Fork Mouth to Headwaters	11A-GOSF0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment, 1995	Streams are considered impaired with a Discriminate Score of < 61 points. Discriminate score was 45.		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>North Coast/Lower</i>		Sub <i>Wilson/Trask/Nestucca</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bark Shanty Creek Mouth to headwaters	11E-BASH0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ data	No temperature exceedences, 7 day Ave. Max. for 1997 was 59.8°F	Did not meet listing criteria	OK	Addition
Clear Creek (Kilchis River) Mouth to headwaters	11E-CLEA0	Temperature	Rearing 64 F (17.8 C)	Summer	NRCS data	No temperature exceedences, 7 day Ave. Max. for 1991/92 was 61.3/59.1°F	Did not meet listing criteria	OK	Addition
Coal Creek (Kilchis River) Mouth to headwaters	11E-COAL0	Temperature	Rearing 64 F (17.8 C)	Summer	NRCS data	1991/92 data shows exceedence of temperature criteria, 7 day ave. max. 71.0/76.8°F		303(d) List	Addition
Fan Creek (Nestucca River) Mouth to headwaters	11E-FAN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1997 was 55.6°F	Did not meet listing criteria	OK	Addition
Fawcett Creek (Tillamook River) Mouth to headwaters	11E-FAWCO	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ data	1997 data shows exceedence of temperature criteria, 7 day ave. max. 64.7°F		303(d) List	Addition
Myrtle Creek (Kilchis River) Mouth to headwaters	11E-MYRT0	Temperature	Rearing 64 F (17.8 C)	Summer	NRCS data	1995 data does not show a temperature exceedence 58.0°F. 1996, data shows exceedence of temperature criteria, 7 day ave. max. 65.0°F		303(d) List	Addition
Sam Down Creek Mouth to headwaters	11E-SAMDO	Temperature	Rearing 64 F (17.8 C)	Summer	NRCS data	No temperature exceedences, 7 day Ave. Max. for 1995/96 was 57.1/57.5°F	Did not meet listing criteria	OK	Addition
Walker Creek Mouth to headwaters	11E-WALK0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1997 was 62.4°F	Did not meet listing criteria	OK	Addition

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Basin <i>Owyhee</i>		Sub <i>Crooked/Rattlesnake</i>			Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season				
Bull Creek Mouth to headwaters	34F-BULL0	Flow Modification			NPS Assessment - segment 280: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 280: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 280: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 280: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Owyhee</i>	Sub	<i>Jordan</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Antelope Reservoir Reservoir	34E.ANTE	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 318: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 318: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Tissue - Mercury	Year Around	DEQ Data; OSHD Advisory (1994); 304(l) List, Part A/B	OSHD Health Advisory based on DEQ data: Levels of mercury in fish tested from the Antelope system ranged from 2.4 to 3.6 mg/kg with a mean of 2.9 mg/kg which is almost 3 times the level allowed by FDA for commercial fish (1.0 mg/kg),			303(d) List
Fish Creek Mouth to Headwaters	34E-FISH0	Flow Modification			NPS Assessment - segment 275: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 275: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 275: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 275: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Jordan Creek Mouth to Headwaters	34E-JORD0	Bacteria			Idaho 303(d) list		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 241 and 242: moderate/severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 241 and 242: severe/moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 241 and 242: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Owyhee</i>	Sub	<i>Jordan</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	34E-JORD0	Sedimentation			Malheur County (1979); Idaho 303(d) list; NPS Assessment - segment 241 and 242: moderate/severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 241 and 242: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Tissue - Mercury	Year Around	DEQ Data; OSHD Advisory (1994); 304(l) List, Part A/B; NPS Assessment - segment 241 and 242: moderate, observation (DEQ, 1988)	OSHD Health Advisory based on DEQ data: Levels of mercury in fish tested from the Antelope system ranged from 2.4 to 3.6 mg/kg with a mean of 2.9 mg/kg which is almost 3 times the level allowed by FDA for commercial fish (1.0 mg/kg).		303(d) List	
Mahogany Creek									
Fish Creek to Headwaters	34E-MAH00	Flow Modification			NPS Assessment - segment 274: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 274: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 274: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 274: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Upper Cow Creek Lake									
Lake	34E.COUP	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 317: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 317: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Owyhee</i>		Sub <i>Lower Owyhee</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Dry Creek Mouth to Upper Dry Creek Reservoir	34G-DRY0	Flow Modification			NPS Assessment - segment 272: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 272 and 286: moderate, observation (DEQ, 1988)				
		Sedimentation			NPS Assessment - segment 272: moderate, observation (DEQ, 1988)				
		Temperature			NPS Assessment - segment 272 and 286: moderate, observation (DEQ, 1988)				
Fletcher Gulch Mouth to Headwaters	34G-FLET0	Nutrients			NPS Assessment - segment 309: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 309: severe, data (DEQ, 1988)				
		Toxics	Pesticides		NPS Assessment - segment 309: severe, data (DEQ, 1988)				
Owyhee Reservoir Reservoir	34G.OWYH	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 230 and 628: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 230 and 628: moderate, observation (DEQ, 1988)				
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 230 and 628: moderate, data (DEQ, 1988)				
		Temperature			NPS Assessment - segment 230 and 628: moderate/severe, observation (DEQ, 1988)				

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Basin <i>Owyhee</i>		Sub <i>Lower Owyhee</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Reservoir	34G.OWYH	Toxics	Tissue - Pesticides (Dieldrin)	Year Around	DEQ Data; 1994 304(l) list, Part B	DEQ Data (Catfish): 1 composite sample exceeded EPA screening values but no fish consumption advisory given (EPA, 9/1992).	Did not meet listing criteria - no fish consumption advisory	Potential Concern List	
		Toxics	Tissue/Water - Mercury - Annual	Year Around	DEQ/OSU Data; OSHD Advisory; 1994 303(l) list - A/B; NPS Assessment - segment 628: moderate, data (DEQ, 1988)	OSHD fish consumption advisory (1993): Mercury values in fish from Owyhee Reservoir ranged between 0.65 - 1.77 ppm which exceed EPA advisory levels of 0.6 ppm and FDA advisory levels of 1.0 ppm.		303(d) List	
Owyhee River Mouth to Black Willow Creek	34G-OWYH0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site OWY012, Hwy 201; RM 2.9): 38% (15 of 39) Summer values exceeded fecal coliform standard (400) with a maximum of 1400 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site OWY012, Hwy 201; RM 2.9): 10% (6 of 61) FWS values exceeded fecal coliform standard (400) with a maximum of 2000 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site OWY012, Hwy 201; RM 2.9): 29% (17 of 59) Annual values exceeded standard (15 ug/l) with 3 month averages exceeding standard in 88, 91, 92, 94, and 95 based on data collected between WY 1988 - 1995.		303(d) List	
		Dissolved Oxygen (DO)	Warm-water aquatic life: DO < 5.5 mg/l	Year Around	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site OWY012, Hwy 201; RM 2.9): 2% (2 of 98) Annual values exceeded warm water fishery dissolved oxygen standard (5.5) with a minimum of 4.2 between WY 1986 - 1995 (Warm water fishery).	Did not meet listing criteria	OK	
		Flow Modification				NPS Assessment - segment 228: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
		Habitat Modification			NPS Assessment - segment 228: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Owyhee</i>		Sub <i>Lower Owyhee</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Black Willow Creek	34G-OWYH0	Nutrients			NPS Assessment - segment 228: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		pH			Fall-Winter-Spring	USBR Data	USBR Data (Site OWY012, Hwy 201; RM 2.9): 0% (0 of 61) FWS values exceeded pH standard (6.6 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH			Summer	USBR Data	USBR Data (Site OWY012, Hwy 201; RM 2.9): 0% (0 of 39) Summer values exceeded pH standard (6.6 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				Malheur County (1979); NPS Assessment - segment 228: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Warm Water Fishery		Summer	USBR Data	USBR Data (Site OWY012, Hwy 201; RM 2.9): Summer temperature annual maximums ranged from 65.6 to 72.9 between WY 1986 - 1995 (warm water fishery).	Did not meet listing criteria, designated use is as Warm Water Fishery	OK	
		Toxics	Pesticides			NPS Assessment - segment 228: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Water - Pesticides (DDT)			USGS Data (1994); NPS Assessment - segment 228: moderate, data (DEQ, 1988)	USGS Data (Owyhee R @ Owyhee): 3 water samples with a range of 0.001 - 0.007 ug/l and an average of 0.005 ug/l exceeded DDT standard (fresh chronic criteria - 0.001 ug/l, water and fish ingestion - 0.024 ng/l) in 1990.		303(d) List	
		Toxics	Water - Pesticides (Dieldrin)			USGS Data (1994); NPS Assessment - segment 228: moderate, data (DEQ, 1988)	USGS Data (Owyhee R @ Owyhee): 3 water samples with a range of 0.002 - 0.013 ug/l and an average of 0.008 ug/l exceeded Dieldrin standard (fresh chronic criteria - 0.0019 ug/l, water and fish ingestion - 0.071 ng/l) in 1990.		303(d) List	
		Toxics	Water - Pesticides (Endrin)			USGS Data (1994); NPS Assessment - segment 228: moderate, data (DEQ, 1988)	USGS Data (Owyhee R @ Owyhee): 3 water samples with a range of <0.001 - 0.004 ug/l and an average of 0.002 ug/l, one value exceeded Endrin standard (fresh chronic criteria - 0.0023 ug/l, drinking water MCL - 0.002 ug/l) in 1990.	A minimum of two exceedences needed for listing, did not meet listing criteria	Potential Concern List	
		Turbidity				Malheur County (1979)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Owyhee</i>		Sub <i>Lower Owyhee</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Black Willow Creek to Owyhee Reservoir	34G-OWYH18	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USBR Data; NPS Assessment - segment 229: severe, data (DEQ, 1988)	USBR Data (Site OWY101, 200 meters below Owyhee Dam; RM 29.0): 0% (0 of 58) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USBR Data; NPS Assessment - segment 229: severe, data (DEQ, 1988)	USBR Data (Site OWY101, 200 meters below Owyhee Dam; RM 29.0): 3% (1 of 40) Summer values exceeded fecal coliform standard (400) with a maximum of 500 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	USBR Data	USBR Data (Site OWY101, 200 meters below Owyhee Dam; RM 29.0): 4% (3 of 77) Annual values exceeded standard (15 ug/l) between WY 1988 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	October1 - March 31	USBR Data	USBR Data (Site OWY101, 200 m below Owyhee Dam; RM 29): 12% (5 of 42) October - March values exceeded rearing dissolved oxygen standard (8 mg/l or 90% saturation) with a minimum of 3.3 between WY 1986 - 1995 (Cold water rearing, approximately Oct - Mar).		303(d) List	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	April 1 - September 30	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site OWY101, 200 meters below dam, RM 29): 51% (27 of 53) of April - September values exceeded spawning dissolved oxygen standard (11 mg/l or 95% saturation) with a minimum of 6.7 between WY 1986 - 95 (Cold water spawning, approx. April - Sept).		303(d) List	
		Flow Modification			NPS Assessment - segment 229: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 229: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Nutrients			NPS Assessment - segment 229: severe, data (DEQ, 1988)		No supporting data or information	Need Data			

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Owyhee</i>		Sub <i>Lower Owyhee</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Black Willow Creek to Owyhee Reservoir	34G-OWYH18	pH		Fall-Winter-Spring	USBR Data	USBR Data (Site OWY101, 200 meters below Owyhee Dam; RM 29.0): 3% (2 of 63) FWS values exceeded pH standard (6.5 - 9.0) with a maximum of 9.2 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	USBR Data	USBR Data (Site OWY101, 200 meters below Owyhee Dam; RM 29.0): 0% (0 of 41) Summer values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USBR Data; NPS Assessment - segment 229: moderate, observation (DEQ, 1988)	USBR Data (Site 200 meters below Owyhee Dam; RM 29.0): 5% (2 of 41) Summer values exceeded temperature standard (64) with a maximum of 66.2 between WY 1986 - 1995.	Did not meet listing criteria	OK	
Owyhee Reservoir to Rome	34G-OWYH70	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM sites at Birch Creek in 1995/96, 7 day ave. max. temperature was 78.6/91.5°F, and at Rome was 79.8/81.0°F both exceeded temperature standard of 64°F.		303(d) List	Addition
Owyhee Reservoir to headwaters		Toxics	Tissue - Mercury	Year Around	Health Division Consumption Health Advisory (1996)	Health Division Consumption Health Advisory issues for Mercury in fish tissue (.56 ppm) based on data collected since 1969; Reference level (.35 ppm)		303(d) List	Addition

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Basin <i>Owyhee</i>		Sub <i>Middle Owyhee</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Antelope Creek									
Mouth to Headwaters	34D-ANTE0	Sedimentation			NPS Assessment - segment 514: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 514: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Little Owyhee River, West									
River mile 45 to Headwaters	34D-OWWL45	Flow Modification			NPS Assessment - segment 233: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 233: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 233: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 233: moderate, observation (DEQ, 1988); BLM data	BLM site at Anderson Crossing in 1995/96, 7 day ave. max. temperature was 69.9/71.8°F, exceeded temperature standard of 64°F.		303(d) List	Addition
Owyhee River									
Rome to Idaho Border	34D-OWYH124	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data, Idaho listing and data	BLM site at Rome in 1995/96, 7 day ave. max. temperature was 79.8/81.0°F exceeded temperature standard of 64°F. Idaho listing of up stream segment.		303(d) List	Addition
Owyhee River, Middle Fork									
Mouth to Idaho Border	34D-OWMF0	Flow Modification			NPS Assessment - segment 277: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 277: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 277: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Owyhee</i>		Sub <i>Middle Owyhee</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Idaho Border	34D-OWMF0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 277: severe, observation (DEQ, 1988); BLM data	BLM site at Three Forks in 1995/96, 7 day ave. max. temperature was 76.4/80.7°F, exceeded temperature standard of 64°F.		303(d) List	Addition
Owyhee River, North Fork									
Mouth to Idaho Border	34D-OWNF0	Flow Modification			NPS Assessment - segment 276: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 276: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 276: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 276: moderate, observation (DEQ, 1988); BLM data	BLM site at Three Forks in 1995/96, 7 day ave. max. temperature was 74.2/77.9°F, exceeded temperature standard of 64°F.		303(d) List	Addition

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Basin <i>Owyhee</i>		Sub <i>Middle Snake / Succor</i>			Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season				
Carter Creek Mouth to South Fork	34A-CART0	Flow Modification			NPS Assessment - segment 273: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 273: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 273: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 273: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Succor Creek Mouth to Headwaters	34A-SUCC0	Flow Modification			NPS Assessment - segment 282, 283 and 284: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 282 and 284: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			Idaho 303(d) list; NPS Assessment - segment 282, 283, 284: moderate/severe, observation (DEQ, 1988)	No supporting data or information	Need Data	

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Basin <i>Owyhee</i>		Sub <i>Upper Quinn</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Cottonwood Creek Mouth to Headwaters	34B-COTT0	Flow Modification			NPS Assessment - segment 227: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 227: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 227: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 227: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Indian Creek Mouth to Headwaters	34B-INDI0	Flow Modification			NPS Assessment - segment 226: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 226: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 226: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994); NPS Assessment - segment 226: moderate, observation (DEQ, 1988)	ODFW Data (Site below Falls): 7 day average of daily maximums of 65 with 4 days exceeding temperature standard (64) in 1994.		303(d) List	
McDermitt Creek Mouth to Headwaters (Oregon Portion)	34B-MCDE0	Flow Modification			NPS Assessment - segment 130: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 130: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 130: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 130: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Owyhee</i>		Sub		<i>Upper Quinn</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Mouth to Headwaters (Oregon Portion)	34B-MCDE0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994); NPS Assessment - segment 130: moderate, observation (DEQ, 1988)	ODFW Data (Site downstream of Ford): 7 day average of daily maximums of 73 with 44 days exceeding temperature standard (64) in 1994.		303(d) List	
		Toxics	Pesticides		NPS Assessment - segment 130: moderate, observation (DEQ, 1988)			No supporting data or information	Need Data
McDermitt Creek, North Fork									
Mouth to Headwaters	34B-MCNF0	Flow Modification			NPS Assessment - segment 129: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 129: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 129: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 129: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 129: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Pesticides		NPS Assessment - segment 129: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Oregon Canyon									
Mouth to Headwaters	34B-OREG0	Flow Modification			NPS Assessment - segment 279: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 278 and 279: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 279: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 278 and 279: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Owyhee</i>		Sub <i>Upper Quinn</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Quinn Creek									
Mouth to Headwaters	34B-QUIN0	Habitat Modification			NPS Assessment - segment 278: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 278: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sage Creek									
Mouth to Headwaters (Oregon Portion)	34B-SAGE0	Flow Modification			NPS Assessment - segment 131: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 131: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 131: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994); NPS Assessment - segment 131: moderate, observation (DEQ, 1988)	ODFW Data (Site at canyon mouth): 7 day average of daily maximums of 76 with 36 days exceeding temperature standard (64) in 1994.		303(d) List	

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Basin <i>Powder</i>		Sub <i>Brownlee Reservoir</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Aspen Creek Mouth to headwaters	32E-ASPE0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data	USFS Data (site at mouth): 7 day average of daily maximums of 62.2 in 1995 exceeded temperature standard for bull trout (50).		303(d) List	Addition
Beecher Creek Mouth to headwaters	32E-BEEC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (site at mouth): 7 day average of daily maximums of 69.5°F in 1995 exceeded temperature standard (64).		303(d) List	Addition
Benson Creek Mouth to Headwaters	32E-BENS0	Habitat Modification			NPS Assessment - segment 384: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 384: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 384: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Big Elk Creek Mouth to headwaters	32E-BELK0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data	USFS Data (site at mouth): 7 day average of daily maximums of 58.4 in 1995 exceeded temperature standard for bull trout (50).		303(d) List	Addition
Clarks Creek Mouth to Headwaters	32E-CLAR	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data: 7 day average of daily maximums of <64 with a maximum of 59 did not exceed temperature standard (64) in 1993 based on min/max temperature readings.	Did not meet listing criteria	OK	
Clear Creek Mouth to Trail Creek	32E-CLEA0	Dissolved Oxygen (DO)			NPS Assessment - segment 369: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 369: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>		Sub <i>Brownlee Reservoir</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
RM 9 to headwaters	32E-CLEA0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	NPS Assessment - segment 369: severe, observation (DEQ, 1988); USFS data	USFS site at RM 11; 7 day ave, max, stream temperature in 1995 was 57.5°F and in 1996 was 63.9°F both years exceeded bull trout temperature standard of (50°F).		303(d) List	Addition
Mouth to RM 9		Temperature			NPS Assessment - segment 369: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	Segment Modification
Connor Creek									
Mouth to Headwaters	32E-CONNO	Habitat Modification			NPS Assessment - segment 404: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 404: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 404: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Deer Creek									
Mouth to Headwaters	32E-DEER0	Habitat Modification			NPS Assessment - segment 361: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 361: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 361: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dry Creek									
Mouth to Headwaters	32E-DRY0	Flow Modification			NPS Assessment - segment 367: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 367: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Duck Creek									
Mouth to Headwaters	32E-DUCK0	Temperature			NPS Assessment - segment 339: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>		Sub <i>Brownlee Reservoir</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Elk Creek Mouth to headwaters	32E-ELK0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data	USFS Data (3 sites): 7 day average of daily maximums of 59.3/60.6/58.3°F in 1995 exceeded temperature standard for bull trout (50).		303(d) List	Addition
Fish Creek Mouth to headwaters	32E-FISH0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (site at mouth): 7 day average of daily maximums of 62.4 in 1993 met temperature standard (64).	Did not meet listing criteria	OK	Addition
Fox Creek Mouth to Headwaters	32E-FOX0	Dissolved Oxygen (DO)			NPS Assessment - segment 403: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 403: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 403: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 403: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Hibbard Creek Mouth to Headwaters	32E-HIBB0	Dissolved Oxygen (DO)			NPS Assessment - segment 402: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 402: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 402: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 402: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Lake Fork Creek Mouth to Headwaters	32E-LKFK0	Sedimentation			NPS Assessment - segment 438: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>		Sub <i>Brownlee Reservoir</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Pole Creek	32E-LKFK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site below Pole Creek): 7 day average of daily maximums of 69.3/71.1/64.8/64.5 in 1991/92/93/95 all years exceeded temperature standard (64).	303(d) List	Addition	
Mouth to Headwaters		Toxics			NPS Assessment - segment 438: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Pole Creek to headwaters	32E-LKFK5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (4 sites above Pole Creek): 7 day average of daily maximums of 60.8/60.7/60.9/63.6 in 1995 all sites met temperature standard (64).	Did not meet listing criteria	OK	Addition
Lee Creek									
Mouth to Headwaters	32E-LEE0	Dissolved Oxygen (DO)			NPS Assessment - segment 371: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 371: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 371: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Long Branch Creek									
Mouth to Headwaters	32E-LONG0	Habitat Modification			NPS Assessment - segment 366: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 366: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Meadow Creek									
Mouth to upper end of Schneider Meadows	32E-MEAD	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data: 7 day average of daily maximums of approximately 65.8 exceeded Bull Trout temperature standard (50) in 1992.		303(d) List	
Melhorn Creek									
Mouth to headwaters	32E-MELH0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data 7 day average of daily maximums of 58.3 °F in 1996 did not exceed temperature standard (64).	Did not meet listing criteria	OK	Addition

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Basin <i>Powder</i>		Sub <i>Brownlee Reservoir</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Morgan Creek									
Mouth to Headwaters	32E-MORG0	Dissolved Oxygen (DO)			NPS Assessment - segment 401: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 401: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 401: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 401: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 401: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Okanogan Creek									
Mouth to Unnamed Stream at Section 35 NW 1/4	32E-OKAN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 6625): 7 day average of daily maximums of 70.0 in 1992. 1995 was 67.1 and 1996 was 68.2°F all exceeded temperature standard (64).		303(d) List	
Unnamed Stream at Section 35 NW 1/4 to headwaters	32E-OKAN1	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data 7 day average of daily maximums of 58.6 °F in 1996 did not exceed temperature standard (64).	Did not meet listing criteria	OK	Addition
Pine Creek									
Mouth to headwaters	32E-PIEF0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS data	USFS site in 1995: 7 day ave. max. temperature was 55.3°F exceeded temperature standard for bull trout (50°F)		303(d) List	Addition
Mouth to Clear Creek	32E-PINE0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 365: Moderate, observation (DEQ, 1988); SWCD data	SWCD site below Pine Valley: 7 day ave. max. temperature was 78.1/80.0°F in 1995/96, site did not meet temperature standard (64)		303(d) List	Addition
Clear Creek to Headwaters	32E-PINE15	Dissolved Oxygen (DO)			NPS Assessment - segment 370: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 370: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>		Sub <i>Brownlee Reservoir</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Clear Creek to Pine Creek, East Fork	32E-PINE15	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 370: severe, observation (DEQ, 1988); SWCD data	SWCD site at Langrell: 7 day ave. max. temperature was 69.6/61.3°F in 1995/96, site did not/did met temperature standard (64)		303(d) List	Addition
Pine Creek, East Fork to headwaters	32E-PINE32	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS data	Two USFS sites in 1995: 7 day ave. max. temperature was 55.6/54.6°F exceeded temperature standard for bull trout (50°F)		303(d) List	Addition
Pine Creek, East Mouth to Trinity Creek	32E-PIE0	Dissolved Oxygen (DO)			NPS Assessment - segment 368: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 368: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Okanogan Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 368: severe, observation (DEQ, 1988)	USFS Data: (6 sites) 7 day average of daily maximums of 65.9 in 1992; in 1995 was 74.6°F; in 1996 was 68.1/69.3/72.1/66.4°F all exceeded temperature standard (64).		303(d) List	Segment Modification
Okanogan Creek to Headwaters	32E-PIE20	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (3 Sites): 7 day average of daily maximums of 55.2/59.6/63.1°F in 1992; 4 sites in 1995 were 62.5/61.3/61.5/56.2°F; 3 sites in 1996 were 63.4/63.1/55.3°F all exceeded Bull Trout temperature standard (50).		303(d) List	Segment Modification
Pole Creek Mouth to headwaters	32E-POLE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (site at mouth): 7 day average of daily maximums of 60.5 in 1995 met temperature standard (64).	Did not meet listing criteria	OK	Addition
Trail Creek Mouth to headwaters	32E-TRAI0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data	USFS Data: 7 day average of daily maximums of 55.8°F in 1995 exceeded temperature standard for bull trout (50).		303(d) List	Addition
Trinity Creek Mouth to West Fork	32E-TRIN	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data: 7 day average of daily maximums of 65 exceeded temperature standard (64) in 1992.		303(d) List	

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Basin <i>Powder</i>	Sub	<i>Burnt</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Alder Creek Mouth to Headwaters	32B-ALDE0	Flow Modification			NPS Assessment - segment 383: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 383: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 383: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Auburn Creek Mouth to Headwaters	32B-AUBU0	Sedimentation			NPS Assessment - segment 418: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 418: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Beaverdam Creek Mouth to Headwaters	32B-BEAV0	Flow Modification			NPS Assessment - segment 423: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 423: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 423: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Big Creek Mouth to Headwaters	32B-BIG0	Dissolved Oxygen (DO)			NPS Assessment - segment 421: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 421: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 421: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>	Sub	<i>Burnt</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	32B-BIG0	Sedimentation			NPS Assessment - segment 421: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 421: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Brannan Gulch Mouth to Headwaters	32B-BRAN0	Habitat Modification			NPS Assessment - segment 411: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 411: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 411: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Burnt River Mouth to Clarks Cr	32B-BURN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USBR Data; NPS Assessment - segment 389 - 391: severe, data (DEQ, 1988)	USBR Data (Site BUR002; RM 1.1): 6% (2 of 31) Summer values exceeded fecal coliform standard (400) with a maximum of 11,000 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USBR Data; NPS Assessment - segment 389 - 391: severe, data (DEQ, 1988)	USBR Data (Site BUR002; RM 1.1): 7% (3 of 41) FWS values exceeded fecal coliform standard (400) with a maximum of 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site BUR002; RM 1.1): 3% (1 of 31) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum of 18.9 ug/l between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	USBR Data	USBR Data (Site BUR002; RM 1.1): 0% (0 of 71) Annual values exceeded cool water dissolved oxygen standard (6.5 mg/l) between WY 1986 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK	

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Basin <i>Powder</i>			Sub	<i>Burnt</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Clarks Cr	32B-BURN0	Flow Modification			IWR (ODFW); Flow (USGS, WRD); ODFW (1967); NPS Assessment - segment 390: moderate, data (DEQ, 1988)	Redband Trout are a state sensitive species, water withdrawal has been identified as a concern (ODFW, 1990); IWR (72168) is often not met at USGS gages (13274200, 13275000).		303(d) List		
		Habitat Modification			NPS Assessment - segment 391: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients			NPS Assessment - segment 389 - 391: severe, data (DEQ, 1988)		No supporting data or information	Need Data		
		pH			Fall-Winter-Spring	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site BUR002; RM 1.1): 0% (0 of 41) FWS values exceeded pH standard (6.5-9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH			Summer	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site BUR002; RM 1.1): 0% (0 of 31) Summer values exceeded pH standard (6.5-9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 391: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)		Summer	USBR Data; NPS Assessment - segment 390 - 391: moderate, data (DEQ, 1988)	USBR Data (Site BUR002; RM 1.1): 68% (21 of 31) Summer values exceeded temperature standard (64) with exceedences recorded in each year between WY 1988 - 1995. SWCD data also available.		303(d) List	
		Toxics	Tissue - Mercury		Year Around	DEQ Data; 304(l) list, Part B	DEQ Data, no fish consumption recommendation made.	Did not meet listing criteria	Potential Concern List	
Clarks Cr to Unity Res	32B-BURN45.8	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USBR Data	USBR Data (Site BUR001; RM 77.0): 3% (1 of 38) FWS values exceeded fecal coliform standard (440) with a maximum of 440 between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USBR Data	USBR Data (Site BUR001; RM 77.0): 0% (0 of 32) Summer values exceeded fecal coliform standard (440) between WY 1986 - 1995.	Did not meet listing criteria	OK		

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Basin <i>Powder</i>	Sub	<i>Burnt</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Clarks Cr to Unity Res	32B-BURN45.8	Chlorophyll a		Summer	USBR Data	USBR Data (Site BUR001; RM 77.0): 29% (9 of 31) Summer values exceeded chlorophyll a standard (15 ug/l) with 3 month averages exceeding 15 ug/l in 88, 92, and 94 based on data between WY 1986 - 1995.		303(d) List	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	August 1 - March 31	USBR Data	USBR Data (Site BUR001; RM 77.0): 11% (5 of 42) August - March values exceeded rearing dissolved oxygen standard (8 mg/l or 90% saturation) with a minimum of 6.1 mg/l between WY 1986 - 1995 (Cold water fishery, rearing approximately August - March). Did not meet the "Minimum Data Requirements" of two exceedences for a season of interest.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	April 1 - July 31	USBR Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 392: severe, observation (DEQ, 1988)	USBR Data (Site BUR001; RM 77.0): 11% (3 of 27) April - June values exceeded spawning dissolved oxygen standard (11 mg/l or 95% saturation) with a minimum of 6.4 mg/l between WY 86 - 95 (Cold water fishery, spawning approximately April - June). Did not meet the "Minimum Data Requirements" of two exceedences for a season of interest.	Did not meet listing criteria	OK	
		Flow Modification			IWR (ODFW); Flow (USGS, WRD); ODFW (1967); NPS Assessment - segment 392: severe, observation (DEQ, 1988)	Redband Trout are a state sensitive species, water withdrawal has been identified as a concern (ODFW, 1993); IWR (72169) is often not met at USGS gage (13273000).		303(d) List	
		Habitat Modification			NPS Assessment - segment 392: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 392: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	USBR Data	USBR Data (Site BUR001; RM 77.0): 0% (0 of 38) FWS values exceeded pH standard (6.5-9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Powder</i>	Sub	<i>Burnt</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Clarks Cr to Unity Res	32B-BURN45.8	pH		Summer	USBR Data	USBR Data (Site BUR001; RM 77.0): 3% (1 of 32) Summer values exceeded pH standard (6.5-9.0) with a maximum of 9.2 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 392: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USBR Data; DEQ Ambient Data; NPS Assessment - segment 392: severe, data (DEQ, 1988)	USBR Data (Site BUR001; RM 77.0): 34% (11 of 32) Summer values exceeded temperature standard (64) with exceedences recorded in each year between WY 1988 - 1995. SWCD data also available.		303(d) List	
Burnt River, Middle Fork Mouth to Headwaters	32B-BUMF0	Dissolved Oxygen (DO)			NPS Assessment - segment 395: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 395: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 395: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 395: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 395: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 395: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Burnt River, North Fork Mouth to Pete Mann Ditch	32B-BUNF0	Dissolved Oxygen (DO)			NPS Assessment - segment 393: severe, observation (DEQ, 1988)		No supporting data or information; Segmentation based on input from Tim Bliss, W-W NF (2/96)	Need Data	

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Basin <i>Powder</i>		Sub		<i>Burnt</i>		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season							
Mouth to Pete Mann Ditch	32B-BUNF0	Flow Modification				IWR (ODFW); Flow (USGS, WRD); North Fork Brunt River Watershed Analysis (USFS, 1995)	Redband Trout are a state sensitive species, water withdrawal has been identified as a concern (ODFW, 1990); IWR (72186) is often not met at USGS gage (13269300).		303(d) List		
		Habitat Modification				North Fork Burnt River Watershed Analysis (USFS, 1995); NPS Assessment - segment 393: severe, observation (DEQ, 1988)	Stream habitat is below potential for supporting fish due to deficient pools and LWD, and a high width to depth ratio (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List		
		Nutrients					NPS Assessment - segment 393: severe, observation (DEQ, 1988)		No supporting data or information; Segmentation based on input from Tim Bliss, W-W NF (2/96)	Need Data	
		Sedimentation					North Fork Burnt River Watershed Analysis (USFS, 1995); NPS Assessment - segment 393: severe, observation (DEQ, 1988)	Stream habitat is below potential for supporting fish due to high cobble embeddedness (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer			USFS Data; NPS Assessment - segment 393: severe, observation (DEQ, 1988)	USFS Data (2 Sites: #1 (T11S,R36E,S23); #2 (Antlers Guard Station)): 7 day average of daily maximums of >64/80.5 and >64/73.3 with nd/74 and nd/67 days exceeding temperature standard (64) in 1992/1993 respectively.		303(d) List	
Burnt River, South Fork Mouth to Thirsty Gulch Creek	32B-BUSF0	Flow Modification				NPS Assessment - segment 396: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification				NPS Assessment - segment 396: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer			USFS Data	USFS Data (Site below Barney Creek): 7 day average of daily maximums of 59.1 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	

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Basin <i>Powder</i>		Sub	<i>Burnt</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Burnt River, West Fork Mouth to Headwaters	32B-BUWF0	Dissolved Oxygen (DO)			NPS Assessment - segment 394: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			North Fork Burnt River Watershed Analysis (USFS, 1995); NPS Assessment - segment 394: severe, observation (DEQ, 1988)	Stream habitat is below potential for supporting fish due to deficient pools and LWD (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Nutrients			NPS Assessment - segment 394: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			North Fork Burnt River Watershed Analysis (USFS, 1995); NPS Assessment - segment 394: moderate, data (DEQ, 1988)	Stream habitat is below potential for supporting fish due to high cobble embeddedness (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature			NPS Assessment - segment 394: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Camp Creek (Burnt River) Mouth to East/West Forks	32B-CAMP0	Habitat Modification			North Fork Burnt River Watershed Analysis (USFS, 1995); NPS Assessment - segment 425: severe, data (DEQ, 1988)	Stream habitat is below potential for supporting fish due to deficient pools and LWD (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Sedimentation			North Fork Burnt River Watershed Analysis (USFS, 1995); NPS Assessment - segment 425: moderate, observation (DEQ, 1988)	Stream habitat is below potential for supporting fish due to high cobble embeddedness (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature			NPS Assessment - segment 425: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Camp Creek (North Fork Burnt) Mouth to Headwaters	32B-CANF0	Habitat Modification			NPS Assessment - segment 491: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 491: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>		Sub	<i>Burnt</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Camp Creek, East Mouth to King Creek	32B-CAE0	Habitat Modification			NPS Assessment - segment 425: severe, data (DEQ, 1988)		No supporting data or information, Segmentation based on input from Tim Bliss, W-W NF (2/96)	Need Data	
		Sedimentation			NPS Assessment - segment 425: moderate, observation (DEQ, 1988)		No supporting data or information; Segmentation based on input from Tim Bliss, W-W NF (2/96)	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 425: severe, data (DEQ, 1988)	USFS Data (Site at 14S-37E-24): 7 day average of daily maximums of 66.7 with 24 days exceeding temperature standard (64) in 1993; Min/Max temperature data for 1992 also available.		303(d) List	
Camp Creek, West Mouth to North/South Confluence	32B-CAW0	Habitat Modification			NPS Assessment - segment 425: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 425: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 425: severe, data (DEQ, 1988)	USFS Data (Site at 14S-37E-17): 7 day average of daily maximums of 59.7 with 0 days exceeding temperature standard (64) in 1993; Min/Max temperature data for 1992 also available.	Did not meet listing criteria	OK	
Cave Creek Mouth to Headwaters	32B-CAVE0	Habitat Modification			NPS Assessment - segment 409: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 409: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 409: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>			Sub	<i>Burnt</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
China Creek Mouth to Headwaters	32B-CHIN0	Habitat Modification			North Fork Burnt River Watershed Analysis (USFS, 1995); NPS Assessment - segment 496 and 497: moderate, observation (DEQ, 1988)	Stream habitat is below potential for supporting fish due to deficient pools and LWD and a high width to depth ratio (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Sedimentation			North Fork Burnt River Watershed Analysis (USFS, 1995)	Stream habitat is below potential for supporting fish due to high cobble embeddedness (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 496 and 497: moderate, observation (DEQ, 1988)	USFS Data (Site T11S-R37E-14 at National Forest Boundary): 7 day average of daily maximums of 68.8 with 38 days exceeding temperature standard (64) in 1993.		303(d) List	
Clark Creek Mouth to Headwaters	32B-CLAR0	Dissolved Oxygen (DO)			NPS Assessment - segment 397: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 397: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 397: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 397: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 397: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Coronet Creek Mouth to Headwaters	32B-CORO0	Dissolved Oxygen (DO)			NPS Assessment - segment 419: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 419: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>	Sub	<i>Burnt</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	32B-CORO0	Sedimentation			NPS Assessment - segment 419: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 419: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cow Creek Mouth to Headwaters	32B-COW0	Dissolved Oxygen (DO)			NPS Assessment - segment 420: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 420: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 420: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dark Canyon Creek Mouth to Headwaters	32B-DARK0	Habitat Modification			NPS Assessment - segment 408: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 408: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 408: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Deer Creek Mouth to Headwaters	32B-DEER0	Habitat Modification			NPS Assessment - segment 406: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 406: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 406: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Powder</i>		Sub	<i>Burnt</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Denny Flat Creek Mouth to Headwaters	32B-DENNO	Habitat Modification			NPS Assessment - segment 412: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 412: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 412: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dixie Creek, North Fork Mouth to Headwaters	32B-DINFO	Dissolved Oxygen (DO)			NPS Assessment - segment 386 and 388: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 386 and 388: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 386 and 388: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 386 and 388: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dixie Creek, South Fork Mouth to Headwaters	32B-DISFO	Dissolved Oxygen (DO)			NPS Assessment - segment 387: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 387: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 387: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 387: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>		Sub	<i>Burnt</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Durbin Creek Mouth to Headwaters	32B-DURB0	Habitat Modification			NPS Assessment - segment 385: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 385: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 385: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Durkee Creek Mouth to Headwaters	32B-DURK0	Dissolved Oxygen (DO)			NPS Assessment - segment 417: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 417: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 417: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
French Gulch Mouth to Headwaters	32B-FREN0	Habitat Modification			NPS Assessment - segment 407: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 407: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 407: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Geiser Creek Mouth to Headwaters	32B-GEIS0	Habitat Modification			North Fork Burnt River Watershed Analysis (USFS, 1995); NPS Assessment - segment 494: moderate, observation (DEQ, 1988)	Stream habitat is below potential for supporting fish due to deficient pools (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Powder</i>		Sub	<i>Burnt</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	32B-GEIS0	Sedimentation			North Fork Burnt River Watershed Analysis (USFS, 1995)	Stream habitat is below potential for supporting fish due to high cobble embeddedness (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 494: moderate, observation (DEQ, 1988)	USFS Data (Site at 10S-35E-14): 7 day average of daily maximums of 62.3 with 0 days exceeding temperature standard (64) in 1993; Ryan thermograph data for 1992 also available.	Did not meet listing criteria	OK	
Gimlet Creek Mouth to Headwaters	32B-GIML0	Habitat Modification			North Fork Burnt River Watershed Analysis (USFS, 1995)	Stream habitat is below potential for supporting fish due to deficient LWD (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Sedimentation			North Fork Burnt River Watershed Analysis (USFS, 1995)	Stream habitat is below potential for supporting fish due to high cobble embeddedness (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site below South Fork): 7 day average of daily maximums of 58.4 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Glasgow Creek Mouth to Headwaters	32B-GLAS0	Sedimentation			NPS Assessment - segment 562: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Hooker Gulch Mouth to Headwaters	32B-HOOK0	Habitat Modification			NPS Assessment - segment 405: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 405: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 405: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
King Creek Mouth to Headwaters	32B-KING0	Habitat Modification			NPS Assessment - segment 499: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>			Sub	<i>Burnt</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lawrence Creek									
Mouth to Black Springs Creek	32B-LAWR0	Habitat Modification			NPS Assessment - segment 412: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 412: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 412: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Meadow Creek									
Mouth to Headwaters	32B-MEAD0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	NPS Assessment - segment 424: moderate, observation (DEQ, 1988); USFS data	Two USFS sites: 7 day ave. max. stream temperature in 1992 was 61.8/66.9°F; in 1993 was nd/60.3°F; in 1995 was 57.5/55.9°F all sites all years exceeded bull trout temperature standard (50°F)		303(d) List	Addition
Mill Creek									
Mouth to Headwaters	32B-MILL0	Sedimentation			NPS Assessment - segment 563: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Patrick Creek									
Mouth to S end of Patrick Meadows	32B-PATR0	Flow Modification			W-W National Forest		No supporting data or information	Need Data	
		Habitat Modification			North Fork Burnt River Watershed Analysis (USFS, 1995)	Stream habitat is below potential for supporting fish due to deficient pools and width/depth ratio (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Sedimentation			North Fork Burnt River Watershed Analysis (USFS, 1995)	Stream habitat is below potential for supporting fish due to high cobble embeddedness (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Patrick Creek Road): 7 day average of daily maximums of 68.1 with 13 days exceeding temperature standard (64) in 1993.		303(d) List	

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Basin <i>Powder</i>		Sub	<i>Burnt</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Pine Creek Mouth to Headwaters	32B-PINE0	Flow Modification			NPS Assessment - segment 410: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 410: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 410: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 410: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics			NPS Assessment - segment 410: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pine Creek (Clark Cr) Mouth to Headwaters	32B-PINC0	Habitat Modification			NPS Assessment - segment 398: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 398: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 398: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pinus Creek Mouth to Headwaters	32B-PINU0	Habitat Modification			NPS Assessment - segment 492: severe, observation DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 492: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pole Creek Mouth to Headwaters	32B-POLE0	Temperature			NPS Assessment - segment 489: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>		Sub	<i>Burnt</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Pritchard Creek Mouth to Headwaters	32B-PRIT0	Habitat Modification			NPS Assessment - segment 412 and 413: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 412 and 413: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 412 and 413: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sardine Creek Mouth to Headwaters	32B-SARD0	Habitat Modification			NPS Assessment - segment 414: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 414: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 414: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Shirrtail Creek Mouth to Headwaters	32B-SHIRO	Habitat Modification			NPS Assessment - segment 399: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 399: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 399: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sisley Creek Mouth to Headwaters	32B-SISL0	Habitat Modification			NPS Assessment - segment 400: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 400: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>		Sub	<i>Burnt</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	32B-SISL0	Temperature			NPS Assessment - segment 400: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Swayse Creek									
Mouth to Headwaters	32B-SWAY0	Dissolved Oxygen (DO)			NPS Assessment - segment 416: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 416: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 416: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Trout Creek									
Mouth to Headwaters	32B-TROU0	Habitat Modification			North Fork Burnt River Watershed Analysis (USFS, 1995); NPS Assessment - segment 495: moderate, observation (DEQ, 1988)	Stream habitat is below potential for supporting fish due to deficient LWD (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Sedimentation			North Fork Burnt River Watershed Analysis (USFS, 1995); NPS Assessment - segment 495: moderate, observation (DEQ, 1988)	Stream habitat is below potential for supporting fish due to high cobble embeddedness (North Fork Burnt River Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 495: moderate, observation (DEQ, 1988)	USFS Data (Site below Three Cent Gulch): 7 day average of daily maximums of 69.3 with 41 days exceeding temperature standard (64) in 1993.		303(d) List	
Unity Reservoir									
Reservoir	32B.UNIT	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 495: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 495: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>	Sub	<i>Burnt</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Reservoir	32B.UNIT	Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 495: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 495: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 495: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Water Gulch Mouth to Headwaters	32B-WATE0	Flow Modification			NPS Assessment - segment 422: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 422: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 422: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 422: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Whiskey Creek Mouth to Headwaters	32B-WHIS0	Habitat Modification			NPS Assessment - segment 488: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 488: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 488: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Anthony Fork of North Powder									
Mouth to Headwaters	32D-ANNF0	Sedimentation			NPS Assessment - segment 482: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to North Fork Anthony Creek/Carnes Diversion	32D-ANTH0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Indian Creek): 7 day average of daily maximums of 55.4 did not exceed temperature standard (64) in 1993; Min/Max temperature data for 1992 also available.	Did not meet listing criteria	OK	
Anthony Fork of North Powder, North Fork									
Mouth to Headwaters	32D-ANNF0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (3 Sites: 6S-37E-14; 6S-37E-15; 6S-37E-16): 7 day average of daily maximums of >55/>55 (based on min/max thermometer) at #1 , nd/53 and nd/54.4 exceeding Bull Trout temperature standard (50) respectively in 1992/1993.		303(d) List	
Antone Creek									
Mouth to Headwaters	32D-ANTO0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at 7S-37E-10): 7 day average of daily maximums of <64 with 0 days exceeding temperature standard (64) in 1992 and 1993 based on min/max temperature data.	Did not meet listing criteria	OK	
Baldock Slough									
Mouth to Headwaters	32D+BALD0	Sedimentation			NPS Assessment - segment 600: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Balm Creek									
Mouth to Headwaters	32D-BALM0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 286: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 286: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 286: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	32D-BALM0	Sedimentation			NPS Assessment - segment 286: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 286: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Beagle Creek									
Mouth to Wisdom Creek	32D-BEAG0	Dissolved Oxygen (DO)			NPS Assessment - segment 286: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 286: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 286: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 286: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Beaver Creek									
Mouth to Headwaters	32D-BEAV0	Habitat Modification			NPS Assessment - segment 432: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 432: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 432: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Big Creek									
Mouth to Headwaters	32D-BIG0	Dissolved Oxygen (DO)			NPS Assessment - segment 352: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 352 and 478: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 352 and 478: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	32D-BIG0	Temperature			NPS Assessment - segment 352 and 478: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Big Muddy Creek Mouth to Headwaters	32D-MUBI0	Dissolved Oxygen (DO)			NPS Assessment - segment 436: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 436: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 436: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 436: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Blue Canyon Creek Mouth to Headwaters	32D-BLUE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at 10S-39E-29): 7 day average of daily maximums of <64 with 0 days exceeding temperature standard (64) in 1992 based on min/max temperature data.	Did not meet listing criteria	OK	
Buck Creek Mouth to Headwaters	32D-BUCK0	Habitat Modification			NPS Assessment - segment 483: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 483: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
California Gulch Mouth to Headwaters	32D-CALI0	Sedimentation			NPS Assessment - segment 487: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 487: moderate, data (DEQ, 1988)	USFS Data (Site at 10S-39E-29): 7 day average of daily maximums of 68.1 with 22 days exceeding temperature standard (64) in 1993; Min/Max temperature data for 1992 also available.		303(d) List	

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Basin <i>Powder</i>		Sub	<i>Powder</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Chalk Creek Mouth to Headwaters	32D-CHAL0	Habitat Modification			NPS Assessment - segment 360: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 360: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 360: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Clear Creek Mouth to Headwaters	32D-CLEA0	Habitat Modification			NPS Assessment - segment 485: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 485: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Clover Creek Mouth to Headwaters	32D-CLOV0	Habitat Modification			NPS Assessment - segment 364: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 364 and 544: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 364 and 544: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cracker Creek Mouth to Headwaters	32D-CRAC0	Habitat Modification			NPS Assessment - segment 427: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 427: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Crews Creek Mouth to Headwaters	32D-CREW0	Habitat Modification			NPS Assessment - segment 362: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	32D-CREW0	Sedimentation			NPS Assessment - segment 362: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 362: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Crystal Palace Creek									
Mouth to Headwaters	32D-CRYS0	Dissolved Oxygen (DO)			NPS Assessment - segment 376: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 376: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 376: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Daly Creek									
Mouth to Headwaters	32D-DALY0	Temperature			NPS Assessment - segment 357: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Daly Creek, South Fork									
Mouth to Headwaters	32D-DASF0	Habitat Modification			NPS Assessment - segment 358: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 358: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 358: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dean Creek									
Mouth to Headwaters	32D-DEAN0	Habitat Modification			NPS Assessment - segment 486: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 486: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	32D-DEAN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site below Little Dean Creek): 7 day average of daily maximums of greater than 68 exceeded temperature standard (64) in 1992 and 1993.		303(d) List	
Deer Creek									
Mouth to Headwaters	32D-DEER0	Flow Modification			NPS Assessment - segment 429: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 429: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 429: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 429: moderate, observation (DEQ, 1988)	USFS Data (Site above Alder Creek): 7 day average of daily maximums of 59.7 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Denny Creek									
Mouth to Headwaters	32D-DENNO	Habitat Modification			NPS Assessment - segment 431: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 431: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 431: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dry Creek									
Mouth to Headwaters	32D-DRY0	Flow Modification			NPS Assessment - segment 382: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 382: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 382: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Powder</i>			Sub	<i>Powder</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Dry Gulch Mouth to Headwaters	32D-DRYG0	Habitat Modification			NPS Assessment - segment 373: severe, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Sedimentation			NPS Assessment - segment 373: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature			NPS Assessment - segment 373: severe, observation (DEQ, 1988)		No supporting data or information	Need Data		
Dutch Creek Mouth to Headwaters	32D-DUTC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at 6S-37E-12): 7 day average of daily maximums of <64 with 0 days exceeding temperature standard (64) in 1992 and 1993 based on min/max temperature data.	Did not meet listing criteria	OK		
Eagle Creek Mouth to East Fork	32D-EAGL0	Dissolved Oxygen (DO)			NPS Assessment - segment 348: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Flow Modification			NPS Assessment - segment 348 and 349: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment - segment 348: moderate, observation (DEQ, 1988); USFS Eagle Creek Watershed Analysis		This evaluation pertains to Eagle Creek and its tributaries. Most of watershed streams did not meet the pool frequency guidelines set by the INFISH document, however, 85% of the streams did meet the Large Woody Debris objective. There is a question about whether the INFISH pool frequency standard is appropriate for this basin.	Did not meet listing criteria	Potential Concern	Status Modification
		Sedimentation			NPS Assessment - segment 348 and 349: moderate, observation (DEQ, 1988); USFS Eagle Creek Watershed Analysis 1997		Analysis applies to Eagle Creek and its tributaries. Embeddedness ranged from 7.1% to 59 %. Desired embeddedness <15%. Affect on fish	Did not meet listing criteria	Potential Concern	Status Modification

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Powder</i>		Sub	<i>Powder</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to East Fork	32D-EAGL0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 348 and 349: moderate, data/observation (DEQ, 1988); USFS Eagle Creek Watershed Analysis 1997	Six USFS sites: 7 day ave. max. temperatures in 1994 were 69.3/67.2/66.0/69.8/66.5/65.9°F excluded temperatures when air temperatures were above the 90th percentile, all water temperature sites exceeded temperature standard.		303(d) List	Addition
Eagle Creek, East Fork Mouth to headwaters	32D-EAEF0	Habitat Modification			USFS Eagle Creek Watershed Analysis 1997	This evaluation pertains to Eagle Creek and its tributaries. Most of watershed streams did not meet the pool frequency guidelines set by the INFISH document, however, 85% of the streams did meet the Large Woody Debris objective. There is a question about whether the INFISH pool frequency standard is appropriate for this basin.	No supporting data or information	Potential Concern	Addition
		Sedimentation			USFS Eagle Creek Watershed Analysis 1997	Analysis applies to Eagle Creek and its tributaries. 60% of the system was classified as embedded.	Did not meet listing criteria	Potential Concern	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Eagle Creek Watershed Analysis 1997	Two USFS sites: 7 day ave. max. temperatures in 1994 were 64.0/55.8°F did not exceeded temperature standard.	Did not meet listing criteria	OK	Addition
Eagle Creek, West Fork Mouth to headwaters	32D-EAWF0	Habitat Modification			USFS Eagle Creek Watershed Analysis 1997	This evaluation pertains to Eagle Creek and its tributaries. Most of watershed streams did not meet the pool frequency guidelines set by the INFISH document, however, 85% of the streams did meet the Large Woody Debris objective. There is a question about whether the INFISH pool frequency standard is appropriate for this basin.		Potential Concern	Addition
		Sedimentation			USFS Eagle Creek Watershed Analysis 1997	Analysis applies to Eagle Creek and its tributaries. 60% of the system was classified as embedded.	Did not meet listing criteria	Potential Concern	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Eagle Creek Watershed Analysis 1997	Two USFS sites: 7 day ave. max. temperatures in 1994 were 67.5/64.6°F excluded temperatures when air temperatures were above the 90th percentile, all water temperature sites exceeded temperature standard.		303(d) List	Addition

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Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Ebell Creek Mouth to Headwaters	32D-EBEL0	Flow Modification			NPS Assessment - segment 381: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 381: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 381: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Elk Creek Mouth to Baker City Municipal Diversion	32D-ELK0	Habitat Modification			NPS Assessment - segment 415: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 415: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 415: severe, observation (DEQ, 1988)	USFS Data (Site above Wilson Creek): 7 day average of daily maximums of 68.7 with 27 days exceeding temperature standard (64) in 1993.		303(d) List	
Fivemile Creek Mouth to Headwaters	32D-FIVE0	Habitat Modification			NPS Assessment - segment 379: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 379: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Goose Creek Mouth to East/West Fork	32D-GOOS0	Flow Modification			NPS Assessment - segment 350: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 350: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 350: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>			Sub	<i>Powder</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to East/West Fork	32D-GOOS0	Temperature			NPS Assessment - segment 350: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Goose Creek, East Fork Mouth to Phillips-Ingle Ditch	32D-GOEF0	Turbidity		Spring/Summer	USFS, Goose Creek, Phillips-Ingle Ditch Monitoring Report, 1994	USFS data shows a marked increase in turbidity over background levels when the ditch is in operation in the spring and summer. Turbidity measurements increase from 1.5 to 90 JTU's in the spring and remains above background levels through out the summer. Turbidity criteria is 10% over background levels.		303(d) List	Addition
Goslin Ditch Mouth to Headwaters	32D-GOSL0	Sedimentation			NPS Assessment - segment 548: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Houghton Creek Mouth to Headwaters	32D-HOUG0	Dissolved Oxygen (DO)			NPS Assessment - segment 377: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 377: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 377: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 377: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Indian Creek Mouth to Headwaters	32D-INDI0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at 6S-37E-26): 7 day average of daily maximums of >50 with maximums of 63 and 61 recorded exceeding Bull Trout temperature standard (50) in 1992 and 1993 respectively based on min/max temperature readings.		303(d) List	

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Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lick Creek Mouth to Headwaters	32D-LICK0	Sedimentation			NPS Assessment - segment 479: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 479: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Little Eagle Creek Mouth to headwaters	32D-EALI0	Habitat Modification			USFS Eagle Creek Watershed Analysis 1997	This evaluation pertains to Eagle Creek and its tributaries. Most of watershed streams did not meet the pool frequency guidelines set by the INFISH document, however, 85% of the streams did meet the Large Woody Debris objective. There is a question about whether the INFISH pool frequency standard is appropriate for this basin.		Potential Concern	Addition
		Sedimentation			USFS Eagle Creek Watershed Analysis 1997		Analysis applies to Eagle Creek and its tributaries. 60% of the system was classified as embedded. Analysis indicated that the greatest concern was in Little Eagle Creek and its tributaries. Fines averaged 58 and 59 present and noted heavy grazing along channels and bank damage by trampling.	Did not meet listing criteria	Potential Concern
Little Muddy Creek Mouth to Headwaters	32D-MULI0	Dissolved Oxygen (DO)			NPS Assessment - segment 435: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 435: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 435: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 435: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>		Sub	<i>Powder</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Love Creek Mouth to Headwaters	32D-LOVE0	Habitat Modification			NPS Assessment - segment 359: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 359: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 359: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Maiden Gulch Mouth to Headwaters	32D-MAID0	Flow Modification			NPS Assessment - segment 374: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 374: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 374: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
McCully Fork Mouth to Headwaters	32D-MCCU0	Sedimentation			NPS Assessment - segment 565: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at 9S-36E-24): 7 day average of daily maximums of <64 with seasonal maximums of 55 and 62 did not exceed temperature standard (64) in 1992 and 1993 respectively based on min/max temperature readings.	Did not meet listing criteria	OK	
Powder River Mouth to Thief Valley Res	32D-POWD0	Aquatic Weeds or Algae	Algae		Concern identified in 94/96 303(d) list review (between Canyon to Coose Creeks)		No supporting data or information	Need Data	

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Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Thief Valley Res	32D-POWD0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ/USBR Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 341 - 343: severe, data (DEQ, 1988)	USBR Data (Site POW110; RM 32.1): 11% (4 of 39) FWS values exceeded fecal coliform standard (400) with a maximum of 2650 between WY 1986 - 1995; DEQ Data (Site 402401; RM 32.1): 20% (7 of 32) FWS values exceeded fecal coliform standard between WY 79 - 90.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ/USBR Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 341 - 343: severe, data (DEQ, 1988)	USBR Data (Site POW110; RM 32.1): 35% (11 of 31) Summer values exceeded fecal coliform standard (400) with a maximum of 2600 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ/USBR Data	USBR Data (Site POW110; RM 32.1): 6% (2 of 31) Summer values exceeded chlorophyll a standard (15 ug/l) and no 3 month average exceeded standard between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	March 1 - June 30	USBR Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 341 - 343: moderate/severe, observation (DEQ, 1988)	USBR Data (Site POW110; RM 32.1): 8% (2 of 24) March through June values exceeded spawning dissolved oxygen standard (11 mg/l or 95% saturation) with a minimum of 7.2 mg/l between WY 1986 - 1995 (Cold water spawning, approximately March - June).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	July 1 - September 30	USBR Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 341 - 343: moderate/severe, observation (DEQ, 1988)	USBR Data (Site POW110; RM 32.1): 22% (10 of 45) July - February values exceeded rearing dissolved oxygen standard (8 mg/l or 90% saturation) with a minimum of 4.5 mg/l between WY 1986 - 1995 (Cold water rearing, approximately July - February).		303(d) List	
		Flow Modification			IWR (ODFW); Flow (USGS, WRD); ODFW (1967); NPS Assessment - segment 341 - 343: moderate/severe, data/observation (DEQ, 1988)	Redband Trout are a state sensitive species, water withdrawal has been identified as a concern (ODFW, 1990); IWR (72193) is often not met at USGS gage (13286700).		303(d) List	
		Habitat Modification			NPS Assessment - segment 341 - 343: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Thief Valley Res	32D-POWD0	Nutrients			NPS Assessment - segment 341 - 343: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ/USBR Data	USBR Data (Site POW110; RM 32.1): 0% (0 of 39) FWS values exceeded pH standard (6.5-9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ/USBR Data	USBR Data (Site POW110; RM 32.1): 0% (0 of 31) Summer values exceeded pH standard (6.5-9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 341 - 343: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USBR Data; NPS Assessment - segment 341 - 343: moderate/severe, observation (DEQ, 1988)	USBR Data (Site POW110; RM 32.1): 55% (17 of 31) Summer values exceeded temperature standard (64) with exceedences recorded in each year between WY1988 - 1995. SWCD data also available.		303(d) List	
Thief Valley Res to Sutton Cr	32D-POWD073	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ/USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site POW108; RM 119.3): 15% (6 of 39) FWS values exceeded fecal coliform standard (400) with a maximum of 6200 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ/USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site POW108; RM 119.3): 10% (3 of 31) Summer values exceeded fecal coliform standard (400) with a maximum of 600 between WY 1986 - 1995; DEQ Data (Site 404169; RM 119.3): 25% (3 of 12) Summer values exceeded standard between 1982 - 1987.		303(d) List	
		Chlorophyll a		Summer	DEQ/USBR Data	USBR Data (Site POW108; RM 119.3): 0% (0 of 31) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Powder</i>	Sub	<i>Powder</i>									
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96		
Thief Valley Res to Sutton Cr	32D-POWD073	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	March 1 - June 30	USBR Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 345: moderate, observation (DEQ, 1988)	USBR Data (Site POW108; RM 119.3): 8% (2 of 24) March through June values exceeded spawning dissolved oxygen standard (11 mg/l or 95% saturation) with a minimum of 7.8 mg/l between WY 1986 - 1995 (Cold water spawning, approximately March - June).	Did not meet listing criteria	OK			
							No supporting data or information	Need Data			
							No supporting data or information	Need Data			
				Nutrients			NPS Assessment - segment 345: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
				pH		Fall-Winter-Spring	DEQ/USBR Data	USBR Data (Site POW108; RM 119.3): 0% (0 of 39) FWS values exceeded pH standard (6.5-9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
				pH		Summer	DEQ/USBR Data	USBR Data (Site POW108; RM 119.3): 0% (0 of 31) Summer values exceeded pH standard (6.5-9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
				Sedimentation			NPS Assessment - segment 344 - 345: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	Baker Valley SWCD Data; NPS Assessment - segment 344 - 345: moderate, observation (DEQ, 1988)	Baker Valley SWCD Data (2 sites: below Hughes Lane and First Bridge above North Powder): 7 day moving average of daily maximums of approximately 70.4/65.7 and 80.4/no data exceeding temperature standard (64) in 1995 and 1996 respectively.		303(d) List	Addition		
Sutton Cr to National Forest Boundary	32D-POWD114	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ/USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site POW108; RM 119.3): 10% (3 of 31) Summer values exceeded fecal coliform standard (400) with a maximum of 600 between WY 1986 - 95; DEQ (Site 404169; RM 119.3): 25% (3 of 12) Summer values exceeded fecal coliform standard between 82 - 87.		303(d) List			

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Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Sutton Cr to National Forest Boundary	32D-POWD114	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ/USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site POW108; RM 119.3): 15% (6 of 39) FWS values exceeded fecal coliform standard (400) with a maximum of 6200 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ/USBR Data	USBR Data (Site POW108; RM 119.3): 0% (0 of 31) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	July 1 - February 28	USBR Data; d1 in 305(b) Report (DEQ, 1994)	USBR Data (Site POW108; RM 119.3): 4% (2 of 45) July through February values exceeded rearing dissolved oxygen standard (8 mg/l or 90% saturation) with a minimum of 7.3 mg/l between WY 1986 - 1995 (Cold water rearing, approximately July - February).	Did not meet listing criteria	OK	
		pH		Summer	DEQ/USBR Data	USBR Data (Site POW108; RM 119.3): 0% (0 of 31) Summer values exceeded pH standard (6.5-9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ/USBR Data	USBR Data (Site POW108; RM 119.3): 0% (0 of 39) FWS values exceeded pH standard (6.5-9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USBR Data, Baker Valley SWCD Data	USBR Data (Site POW108; RM 119.3): 6% (2 of 31) Summer values exceeded temperature standard (64) with a maximum of 66.4 between WY 1986 - 1995. Baker Valley SWCD Data (1995, 1996)	Did not meet listing criteria	OK	
Phillips Lake to Headwaters	32D-POWD136.5	Flow Modification			NPS Assessment - segment 428: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 428: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 428: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 428: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Powder River, North Mouth to National Forest Boundary	32D-PON0	Flow Modification			NPS Assessment - segment 346: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 346: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 346: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 346: moderate, data (DEQ, 1988)	USFS Data (Site at 7S-37E-36): 7 day average of daily maximums of >64 with seasonal maximums of 66 and 72 exceeded temperature standard (64) in 1992 and 1993 respectively based on min/max thermometer readings.		303(d) List	
Ritter Creek Mouth to Love Reservoir	32D-RITTO	Flow Modification			NPS Assessment - segment 354: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 354: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 354: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 354: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rock Creek Mouth to Olsen Ditch	32D-ROCK0	Flow Modification			NPS Assessment - segment 356: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 356: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 356: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Powder</i>		Sub	<i>Powder</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Ruckles Creek Mouth to North Fork	32D-RUCK0	Habitat Modification			NPS Assessment - segment 355: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 355: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 355: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Salt Creek Mouth to Headwaters	32D-SALT0	Habitat Modification			NPS Assessment - segment 378: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 378: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sawmill Creek Mouth to Headwaters	32D-SAWM0	Habitat Modification			NPS Assessment - segment 484: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 484: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sheep Creek Mouth to Headwaters	32D-SHEE0	Habitat Modification			NPS Assessment - segment 564: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Silver Creek Mouth to Headwaters	32D-SILV0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at 9S-37E-6): 7 day average of daily maximums of 54.5 with 0 days exceeding Bull Trout temperature standard (50) in 1993; Min/max temperature readings also available for 1992.		303(d) List	
Summit Creek Mouth to Headwaters	32D-SUMM0	Flow Modification			NPS Assessment - segment 353: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 353: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	32D-SUMM0	Sedimentation			NPS Assessment - segment 353: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 353: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sutton Creek Mouth to Headwaters	32D-SUTT0	Flow Modification			NPS Assessment - segment 380: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 380: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 380: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 380: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Thief Valley Reservoir Reservoir	32D.THIE	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 507: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 507: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 507: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 507: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 507: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Powder</i>		Sub	<i>Powder</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Reservoir	32D.THIE	Temperature			NPS Assessment - segment 507: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Town Gulch									
Mouth to Headwaters	32D-TOWN0	Sedimentation			NPS Assessment - segment 375: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 375: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Tucker Creek									
Mouth to Headwaters	32D-TUCK0	Flow Modification			NPS Assessment - segment 363: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 363: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 363: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 363: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Union Creek									
Mouth to Headwaters	32D-UNIO0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near FSR 2225/7220 Junction): 7 day average of daily maximums of <64 with a maximum of 59 did not exceed temperature standard (64) in 1993 based on min/max temperature readings.	Did not meet listing criteria	OK	
Velvet Creek									
Mouth to Headwaters	32D-VELV0	Flow Modification			NPS Assessment - segment 543: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 543: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	32D-VELV0	Sedimentation			NPS Assessment - segment 543: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Waterbury Gulch									
Mouth to Headwaters	32D-WATE0	Habitat Modification			NPS Assessment - segment 372: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 372: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 372: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Willow Creek									
Mouth to Headwaters	32D-WILLO	Dissolved Oxygen (DO)			NPS Assessment - segment 434: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 434: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 434: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 434: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wolf Creek									
Mouth to Wolf Creek Reservoir	32D-WOLF0	Dissolved Oxygen (DO)			NPS Assessment - segment 351: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 351: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 351: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 351: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Powder</i>	Sub	<i>Powder</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Wolf Creek Reservoir	32D-WOLF0	Temperature			NPS Assessment - segment 351: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wolf Creek Reservoir to North Fork	32D-WOLF8.5	Dissolved Oxygen (DO)			NPS Assessment - segment 351: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 351: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 351: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 351: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 351: moderate, observation (DEQ, 1988)	USFS Data (5S-38E-30): 7 day ave of daily maximums were >64 and <64 with a seasonal maximums of 69 and 62 (temperature standard (64)) in 1992 and 1993 respectively based on min/max thermometer readings	Did not meet listing criteria	Potential Concern List	

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Basin <i>Rogue</i>	Sub	<i>Applegate</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Applegate River									
Mouth to Applegate Reservoir	15C-APPL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 239: moderate, data (DEQ, 1988)	DEQ Data (Site 402098; RM 12.0): 9% (4 of 47) FWS values exceeded fecal coliform standard (400) with a maximum of 1600 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 239: moderate, data (DEQ, 1988)	DEQ Data (Site 402098; RM 12.0): 0% (0 of 24) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data; NPS Assessment - segments 239 & 240: moderate, data/observation (DEQ, 1988)	DEQ Data (Site 402098; RM 12.0): 0% (0 of 25) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - July 31	DEQ Data	DEQ Data (Site 402098; RM 12.0): 3% (2 of 62) October through July values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 9.6 between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct - Jul).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	August 1 - September 30	DEQ Data	DEQ Data (Site 402098; RM 12.0): 0% (0 of 13) August through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately Aug - Sep).	Did not meet listing criteria	OK	
		Flow Modification			IWR (ODFW); Flow Data (USGS, WRD); NPS Assessment - segments 239 & 240: moderate, data (DEQ, 1988)	Coho have severely depressed populations and have been designated as a sensitive species, low flows due to water withdrawals have been identified as one of the limiting factors (ODFW, 93); IWR (66613) are often not met at USGS gage 14369500.			303(d) List
		pH		Summer	DEQ Data	DEQ Data (Site 402098; RM 12.0): 4% (1 of 25) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.7 between WY 1986 - 1995.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>		Sub <i>Applegate</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name & Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Applegate Reservoir	15C-APPL0	pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402098; RM 12.0): 0% (0 of 50) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Sedimentation				NPS Assessment - segments 239 & 240: moderate, data/observation (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer		USGS Data; BLM Data; DEQ (Temperature Issue Paper, 1994); NPS Assessment - segments 239 & 240: moderate, data/observation (DEQ, 1988)	USGS Data (2 Sites: Near Applegate and Near Wilderville): 7 day moving average of daily maximums of 73.1-81.8/72.5 - 80.9/74.4 - 80.9/71.2 - 76 with 79 - 153 days exceeding temperature standard (64) in 1990/91/92/93 respectively. BLM 1994 70.8°.		303(d) List	
		Toxics				NPS Assessment - segments 239 & 240: moderate, data (DEQ, 1988)	No supporting data or information	Need Data		
Applegate Reservoir to Headwaters	15C-APPL47	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site near Copper): 7 day moving average of daily maximums of 61.1/62.5/64.3/63.1/61.8 did not exceed temperature standard (64) in 1990/91/92/93/94 respectively.	Did not meet listing criteria	OK		
Applegate River, Butte Fork										
Mouth to Headwaters	15C-APBF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T48N,R12W,S36): 7 day moving average of daily maximums of 52.8 and 63.0 with 0 days exceeding temperature standard (64) in 1993 and 1994 respectively; stream in California.	Did not meet listing criteria	OK		
Bear Gulch (Little Applegate)										
Mouth to Headwaters	15C-BEAG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T40S,R1W,S22): 7 day moving average of daily maximums of 60.6 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK		
Bear Gulch (Waters Creek)										
Mouth to Headwaters	15C-BEAR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at confluence with Waters Cr, T37S,R7W,S5): 7 day moving average of daily maximums of 68.8/63.9/64.1/65.9 for years 1994/95/96/97 three of four years exceeded temperature standard (64°F).		Potential Concern List		

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>	Sub	<i>Applegate</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Beaver Creek Mouth to Headwaters	15C-BEAV0	Biological Criteria			Beaver & Palmer Creek Watershed Analysis (USFS, 1994)	USFS Data: 1991 benthic macroinvertebrate study indicated that Beaver Creek is moderately to severely impaired due to habitat limitations, fine sediment is a problem and many positive indicator groups are not		303(d) List	
		Flow Modification			Beaver & Palmer Creek Watershed Analysis (USFS, 1994); NPS Assessment - segment 243: moderate, observation (DEQ, 1988)	Both Beaver and Palmer Creeks can be de-watered by irrigation withdrawals which allows for little or no movement of fish, can result in stress, predation and increased temperature; Beaver Cr has an IWR application (Beaver & Palmer W/S Analysis, USFS, 94).		303(d) List	
		Habitat Modification			Beaver & Palmer Creek Watershed Analysis (USFS, 1994)	Coho have been petitioned under the ESA, summer steelhead and fall chinook spawning has been reduced; LWD is well below Desired Feature Conditions (Beaver/Palmer Watershed Analysis, USFS, 1994).		303(d) List	
		Sedimentation			Beaver & Palmer Creek Watershed Analysis (USFS, 1994); NPS Assessment - segment 243: moderate, observation (DEQ, 1988)	USFS Data: 1991 benthic macroinvertebrate study indicated that Beaver Creek is moderately to severely impaired due to habitat limitations, fine sediment is a problem and many positive indicator groups are not		303(d) List	
Mouth to river mile 3.5		Temperature	Rearing 64 F (17.8 C)		USFS data	No temperature exceedences, 7 day Ave. Max. 63.5°F 1997 data		OK	Addition
River Mile 3.5 to headwaters	15C-BEAV3.5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS	1997 data shows exceedence of temperature criteria, 64.8°		303(d) List	Addition
Bill Creek Mouth to Headwaters	15C-BILL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T39S,R6W,S13): 7 day moving average of daily maximums of 61.4 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Box Canyon Creek Mouth to Headwaters	15C-BOXC0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T40S,R2W,S3): 7 day moving average of daily maximums of 55.8 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>		Sub <i>Applegate</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Chapman Creek, West Fork									
Mouth to headwaters	15C-CHWF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1995 7-day average maximum temperature was 55.2°F	Did not meet listing criteria	OK	Addition
Crapsey Gulch									
Mouth to Headwaters	15C-CRAP0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T40S,R2W,S15): 7 day moving average of daily maximums of 59.9 with 0 days exceeding temperature standard (64) in 1994. 1995 (58.2°F)	Did not meet listing criteria	OK	
Dog Fork (Little Applegate)									
Mouth to Headwaters	15C-DOG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T40S,R2W,S15): 7 day moving average of daily maximums of 61.4 with 0 days exceeding temperature standard (64) in 1994. 1995 (59.0°F), 1997 (60.4 °F)	Did not meet listing criteria	OK	
Forest Creek									
Mouth to Headwaters	15C-FORE0	Bacteria			NPS Assessment - segment 246: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 246: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 246: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 246: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 246: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 246: severe, observation (DEQ, 1988), BLM data	No temperature exceedences, 7 day Ave. Max. above Poorman Creek 1994 (59.0°F), 1995 (62.0°F)	Did not meet listing criteria	OK	Addition

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Basin <i>Rogue</i>		Sub <i>Applegate</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Glade Creek Mouth to Headwaters	15C-GLAD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS and BLM Data	USFS Data (Site T39S,R1W,S31): 7 day moving average of daily maximums of 60.7 and 63.8 with 0 and 3 days exceeding temperature standard (64) in 1993 and 1994 respectively. BLM data 1994, 59.5°F	Did not meet listing criteria	OK	
Glade Fork (Williams Creek) Mouth to Headwaters	15C-GLWI0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T39S,R5W,S23): 7 day moving average of daily maximums of 63.2 with 2 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Greeley Creek Mouth to Headwaters	15C-GREE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T40S,R1W,S4): 7 day moving average of daily maximums of 62.2 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Haskins Gulch Mouth to Headwaters	15C-HASK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 1997 (58.3°F)		OK	Addition
Lake Creek Mouth to Headwaters	15C-LAKE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS and BLM Data	USFS Data (Site T40S,R1W,S27): 7 day moving average of daily maximums of 56.7 with 0 days exceeding temperature standard (64) in 1994. BLM 1995 (55.0°F).	Did not meet listing criteria	OK	
Lick Gulch Mouth to Headwaters	15C-LICK0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T39S,R2W,S27): 7 day moving average of daily maximums of 59.3 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Little Applegate River Mouth to McDonald Cr	15C-APLI0	Dissolved Oxygen (DO) Flow Modification			NPS Assessment - segment 241: severe, data (DEQ, 1988) NPS Assessment - segments 241 & 242: moderate, observation/data (DEQ, 1988)		No supporting data or information No supporting data or information	Need Data Need Data	

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Basin <i>Rogue</i>			Sub	<i>Applegate</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to McDonald Cr	15C-APLIO	Habitat Modification			NPS Assessment - segments 241 & 242: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 241 & 242: moderate, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Headwaters		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segments 241 & 242: moderate, observation (DEQ, 1988)	BLM Data 9 Sites: Near mouth(1994, 75.6°F; 1995, 67.0°F); Below Sterling Cr (1994, 70.8°F); Below Yale Cr (1994, 71.3; 1995, 64.0°F); at Tunnel Ridge Trailhead (1994, 67.6 °F; 1995, 62.0; 1996,66.2; 1997,65.0°F); above Glade Cr (1994, 68°F; 1995, 62.0°F, 1997, 64.7) ; above Bear Gulch (1994, 62.9°F; 1995, 59.0°F; 1997, 61.8°F); below McDonald Cr. (1994, 65.9°F; 1995, 60.0°F; 1996, 61.7; 1997, 65.2°F;) at BLM USFS boundary (1994, 64.0°F): Over 50% exceed temperature criteria of 64 °F.		303(d) List	Segment Modification
Little Creek									
Mouth to headwaters	15C-LITTO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1994 data shows exceedence of temperature criteria, 73.4, but not 1995, 52.0°F and 1996, 54.0°F.	Did not meet listing criteria	OK	Addition
McDonald Creek									
Mouth to Headwaters	15C-MCDOO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: T40S,R1W,S10 and T40S,R1W,S14): 7 day moving average of daily maximums of 63.1 and 62.1 with 4 and 1 days respectively exceeding temperature standard (64) in 1994. 1995, 59.0 and 55.0°F; 1997, 61.4 and 58.9°F.	Did not meet listing criteria	OK	
Middle Monogram Lake Spring									
Mouth to headwaters	15C-MMLS0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. 1994 (58.5°F)	Did not meet listing criteria	OK	Addition
Ninemile Creek									
Mouth to Headwaters	15C-NINE	Habitat Modification			NPS Assessment - segment 248: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub	<i>Applegate</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	15C-NINE	Temperature		Summer	BLM Data	BLM Data (Site T39S,R4W,S19): 7 day moving average of daily maximums of 59.8 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Palmer Creek									
Mouth to Headwaters	15C-PALM0	Flow Modification			Beaver & Palmer Creek Watershed Analysis (USFS, 1994)	Both Beaver and Palmer Creeks can be de-watered by irrigation withdrawals which allows for little or no movement of fish, can result in stress, predation and increased temperature (Beaver & Palmer W/S Analysis, USFS, 94).		303(d) List	
		Habitat Modification			Beaver & Palmer Creek Watershed Analysis (USFS, 1994)	Coho have been petitioned under the ESA, summer steelhead and fall chinook spawning has been reduced; LWD is well below Desired Feature Conditions (Beaver/Palmer Watershed Analysis, USFS, 1994).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Temperature data 7 day Ave. Max 1997, 68.0°F, exceeded 64°F, 41 times		303(d) List	Addition
Pipe Creek									
Mouth to Headwaters	15C-PIPE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T39S,R5W,S35): 7 day moving average of daily maximums of 60.0 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Powell Creek									
Mouth to Headwaters	15C-POWE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T38S,R5W,S15): 7 day moving average of daily maximums of 66.6 in 1994; 1995, 65.6°F; 1996, 67.6; 1997, 66.9 °F all exceeded 64 °F water temperature criteria.		303(d) List	
Blodgett Creek to headwaters	15C-POWE4	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1994, 61.5°F	Did not meet listing criteria	OK	Removed (5)
Ramsey Creek									
Mouth to Headwaters	15C-RAMS0	Sedimentation			NPS Assessment: segment 354: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Applegate</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Rock Creek (East Fork Williams Cr)									
Mouth to Headwaters	15C-ROCK0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T39S,R5W,S15): 7 day moving average of daily maximums of 61.6 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Rock Gulch									
Mouth to Headwaters	15C-ROCG0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T39S,R3W,S4): 7 day moving average of daily maximums of 61.5 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Slate Creek									
Mouth to Headwaters	15C-SLAT0	Flow Modification			NPS Assessment - segment 251 & 404: moderate-severe, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 251 & 404: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 251 & 404: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 251 & 404: moderate-severe, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
Split Rock Creek									
Mouth to Headwaters	15C-SPLI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T40S,R1W,S13): 7 day moving average of daily maximums of 57.5 with 0 days exceeding temperature standard in 1994.	Did not meet listing criteria	OK	
Star Gulch									
Mouth to 1918 Gulch	15C-STAR0	Flow Modification			NPS Assessment - segment 245: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 245: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>			Sub	<i>Applegate</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to 1918 Gulch	15C-STAR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at USGS Gaging Station): 7 day moving average of daily maximums of 67.7 with 48 days exceeding temperature standard (64) in 1995. In 1996, 67.5°F.		303(d) List	Addition
1918 Gulch to Headwaters	15C-STAR4	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site Above Deadman Gulch - T39S-R4W-S22): 7 day moving average of daily maximums of 57.6/60.8/58.4/60.7/54.1°F with 0 days exceeding temperature standard (64) in 1993 through 1997 respectively. Second site at Ladybug Gulch 1996, 64.3 and 1997, 61.2°F	Did not meet listing criteria	OK	
Sterling Creek									
Mouth to Headwaters	15C-STER0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site above Armstrong Gulch): 7 day moving average of daily maximums of 59.0 in 1994 and 58.0°F in 1995 with 0 days exceeding temperature standard (64).	Did not meet listing criteria	OK	
Steve Fork Creek									
Mouth to headwaters	15C-STEVO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1992 data shows exceedence of temperature criteria, 65.8°F, but not in 1996, 63.1°F.	Did not meet listing criteria	Potential Concern	Addition
Sturgis Fork									
Mouth to Headwaters	15C-STUR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T40S,R4W,S19): 7 day moving average of daily maximums of 60.4/63.3/60.0°F in 1993/94/95 did not exceed temperature criteria, but did exceed temperature criteria (64) in 1996, 64.6°F.	Did not meet listing criteria	OK	
Thompson Creek									
Mouth to Ninemile Creek	15C-THOM0	Flow Modification			NPS Assessment - segment 247: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 247: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Applegate</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Mee Cove	15C-THOM0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data; NPS Assessment: segment 247: moderate, observation (DEQ, 1988)	ODFW Data @ mouth in 1994, 61.9°F no temperature exceedences, 7 day Ave. Max., however exceeded temperature criteria up stream	Did not meet listing criteria	OK	Removed (5)
Mee Cove to Ninemile Creek	15C-THOM5	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW data	(Site at RM 6): 7 day moving average of daily maximums of 68.0 with 31 days exceeding temperature standard (64) in 1994.		303(d) List	Addition
Ninemile Creek to Headwaters	15C-THOM9	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	(Site above Ninemile Creek; RM 9): 7 day moving average of daily maximums of 62.0°F in 1995; 63.4 in 1996; 63.6 in 1997 did not exceed 64°F temperature criteria.	Did not meet listing criteria	OK	Addition
Waters Creek									
Mouth to RM 2	15C-WATE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site above Bear Gulch): 7 day moving average of daily maximums of 68.4 exceeded temperature standard (64) in 1994.		303(d) List	
Waters Creek, West Fork									
Mouth to headwaters	15C-WAWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1996 data shows exceedence of temperature criteria, 66.9°F		303(d) List	Addition
Waters Gulch (Yale Creek)									
Mouth to Headwaters	15C-WAGU0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T40S,R2W,S5): 7 day moving average of daily maximums of 56.1 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Williams Creek									
Mouth to East/West Fork Confluence	15C-WILL0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 249: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 249: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 249: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 249: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub		Applegate					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to East/West Fork Confluence	15C-WILL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 249: moderate, observation (DEQ, 1988)	BLM Data (Site T38S,R5W,S1): 7 day moving average of daily maximums of 73.8 with 101 exceeding temperature standard (64) in 1994.		303(d) List	
Williams Creek, East Fork									
Mouth to Rock Creek	15C-WIEF0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 249: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 249: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 249: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 249: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 249: moderate, observation (DEQ, 1988)	BLM Data (Site above Glade Fork): 7 day moving average of daily maximums of 62.9 with 2 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Williams Creek, West Fork									
Mouth to Headwaters	15C-WIWF0	Flow Modification			NPS Assessment - segment 250: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 250: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 250: severe, observation (DEQ, 1988)	BLM Data (Site T39S,R5W,S19): 7 day moving average of daily maximums of 61.4 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Yale Creek									
Mouth to Waters Gulch	15C-YALE0	Habitat Modification			NPS Assessment - segment 244: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub	<i>Applegate</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Waters Gulch	15C-YALE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 244: moderate, observation (DEQ, 1988)	BLM Data 2 Sites: near Little Applegate River -T39S,R2W,S29 7 day moving average of daily maximums of 67.0 in 1994; 61.3°F in 1995) and above Waters Gulch - T39S-R2W-S32: 65.3 in 1994; 61.2 in 1995; 65.4 °F in 1996; and 63.9 in 1997. Although 1994 was a drought year 1996 also exceeded the 64°F water temperature criteria.		303(d) List	
Waters Gulch to Headwaters	15C-YALE5	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 244: moderate, observation (DEQ, 1988)	BLM Data (2 Sites: Above Box Canyon Cr - T40S-R2W-S3 and Above Crapsey Gulch - T40S-R2W-S15): 7 day moving average of daily maximums of 63.0 and 60.0 with 3 and 0 days respectively exceeding temperature standard (64) in 1994 and 7 day moving average of daily maximums of 58.6 and 56.7 with 0 days respectively exceeding temperature standard (64) in 1995. In 1997 was 59.2°F.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Althouse Creek									
Mouth to Headwaters	15E-ALTH0	Flow Modification			NPS Assessment - segments 225 & 403: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segments 225 & 403: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 225 & 403: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to river mile 7.5 (Tartar Gulch)		Temperature	Rearing 64 F (17.8 C)	Summer	USFS and BLM data	Additional data shows Temperature data 7 day Ave. Max up to 69.0°F, exceeded 64°F, at 5 sites		303(d) List	Addition
River Mile 7.5 (@Tartar Gulch) to Headwaters	15E-ALTH7.5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segments 225 & 403: severe/moderate, observation (DEQ, 1988)	USFS Data (6 sites) show no violations of temperature criteria highest value	Did meet listing criteria	OK	Addition
Althouse Creek, West Fork									
Mouth to headwaters	15E-ALWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. in 1995, 55.0°F and 1996, 56.5°F	Did not meet listing criteria	OK	Addition
Bear Creek									
Mouth to Headwaters	15E-BEAR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.5 with 4 days exceeding temperature standard (64) in 1993. 1994 data shows 79.8°		303(d) List	
Bolan Creek									
Mouth to Headwaters	15E-BOLA0	Temperature	Rearing 64 F (17.8 C)		USFS data	Exceeded Temperature criteria in 1994 (75.6°), but did not in 1995 (56.0) 1996 (58.1)	Did not meet listing criteria	Potential Concern	Addition
Breezy Creek									
Mouth to headwaters	15E-BREE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Did not violate temperature criteria 1993 (60.6°F), 1996 (64.0°F)		OK	Addition

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Basin <i>Rogue</i>		Sub	<i>Illinois</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Briggs Creek Mouth to Horse Creek	15E-BRIG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992)	USFS Data (2 Sites: Below and Above Soldier Cr): 7 day moving average of daily maximums of 65.2/68.9 and nd/68.0 with 6/45 and nd/32 days exceeding temperature standard (64) in 1993/1994 respectively. Additional 6 sites all show violations of temperature criteria 1992 through 1996 up to (69.3°F)		303(d) List	
Canyon Creek Mouth to Lightning Creek	15E-CANY0	Habitat Modification			1991 Canyon Creek stream survey, FEIS for the Canyon Resource Project (USFS)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	Insufficient data or information	Potential Concern	Addition
Mouth to Headwaters		Sedimentation			USFS FEIS for Canyon Integrated Resource Project (1992)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	Insufficient data or information	Potential Concern (Need data)	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992)	USFS Data (Site T39S,R9W,S11): 7 day moving average of daily maximums of 68.6 and 73.3 with 34 and 74 days exceeding temperature standard (64) in 1993 and 1994 respectively. USFS data in 1990 showed a 7 day average of daily maximums of 73.5. Exceedence of temperature criteria at 3 sites 1992-96 75.5°F.		303(d) List	
Canyon Creek, South Fork Mouth to headwaters	15E-CASF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1991 data shows exceedence of temperature criteria, 65.7°F		303(d) List	Addition
Cave Creek Mouth to headwaters	15E-CAVE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Temperature criteria exceeded in 1994 (77.8 °F) not in 1995 (59.0 °F)	Did not meet listing criteria	Potential Concern	Addition
Cedar Swamp Creek Mouth to Headwaters	15E-CEDA0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T35S,R9W,S14): 7 day moving average of daily maximums of 55.8 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Collier Creek Mouth to South Fork	15E-COLL0	Sedimentation			NPS Assessment - segment 352: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 352: moderate, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day moving average of daily maximums of 67.3 with 25 days exceeding temperature standard (64) in 1993.			303(d) List
Crooks Creek Mouth to Headwaters	15E-CROO0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T37S,R7W,S34): 7 day moving average of daily maximums of 60.7 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Deer Creek Mouth to North/South Fork Confluence	15E-DEER0	Flow Modification			NPS Assessment - segments 228 & 229: severe, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segments 228 & 229: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 228 & 229: severe, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992); NPS Assessment - segments 228 & 229: severe, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day moving average of daily maximums of 75.7 with 66 days exceeding temperature standard (64) in 1993. 1992 (81.0 °F) 2 sites in 1996 (71.0 °F) & (78.1 °F)			303(d) List
Deer Creek, North Fork Mouth to Headwaters	15E-DENF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T38S,R6W,S8): 7 day moving average of daily maximums of 59.2 with 0 days exceeding temperature standard (64) in 1993. 1995, 61.0°F.	Did not meet listing criteria	OK	
Deer Creek, South Fork Mouth to RM 2	15E-DESF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM and USFS Data; Krebs (1992)	BLM Data (Site above Dry Creek): 7 day moving average of daily maximums of 65.3 and 64.4 exceeded temperature standard (64) in 1994 and 1995 respectively. USFS data 1992, 67.0°F			303(d) List

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
RM 2 to Headwaters	15E-DESF2	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; Krebs (1992)	BLM Data (Site 1 mile above Dry Creek at BLM boundary): 7 day moving average of daily maximums of 61.9 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Democrat Gulch Mouth to Headwaters	15E-DEMO0	Sedimentation			NPS Assessment - segment 226: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Draper Creek Mouth to Headwaters	15E-DRAP0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T37S,R7W,S31): 7 day moving average of daily maximums of 63.5 with 1 day exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Dry Creek (South Fork Deer Cr) Mouth to Headwaters	15E-DRY0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site above confluence with South Fork Deer Creek - T38S,R6W,S17): 7 day moving average of daily maximums of 62.5 and 64.4 with 0 and 6 days exceeding temperature standard (64) in 1994 and 1995 respectively. In 1996, the 7 day moving average of daily maximums was 66.5. 1997 (63.0°F)		303(d) List	Addition
Dunn Creek Mouth to Headwaters	15E-DUNN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1992 data shows exceedence of temperature criteria, 71.0°F		303(d) List	Addition
Elder Creek Mouth to Headwaters	15E-ELDE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.0 with 4 days exceeding temperature standard (64) in 1993 and 59.2°F at an up stream site. 1996 (62.4°F)	Did not meet listing criteria	OK	
Elk Creek Mouth to California Border	15E-ELK0	Temperature	Rearing 64 F (17.8 C)	Summer	Krebs (1992); USFS Data	USFS Data (Site at gage): 7 day moving average of daily maximums of 68.8 with 28 days exceeding temperature standard (64) in 1993. 1996 (71.5°F)		303(d) List	

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Basin <i>Rogue</i>		Sub <i>Illinois</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Elk Creek (Grayback Ck) Mouth to Headwaters	15E-ELKG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T40S,R6W,S12): 7 day moving average of daily maximums of 55.6 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Elk Creek on Grayback Mouth to Headwaters	15E-ELKB0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 1995 (52.0°F) and 1996 (55.7°F)	Did not meet listing criteria	OK	Addition
Fall Creek Mouth to Headwaters	15E-FALL0	Habitat Modification			1992 Stream Survey for Fall Creek (USFS)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	Insufficient data or information	Potential Concern	Addition
		Temperature	Rearing 64 F (17.8 C)		1992 Stream Survey for Fall Creek (USFS) and USFS data	1996 data shows exceedence of temperature criteria, 67.5°F	Did meet listing criteria	303(d) List	Addition
Fan Creek Mouth to Headwaters	15E-FAN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Exceeded temperature criteria in 1994(73.6°F), but not in 1995 (52.0°F) or 1996 (54.5°F)	Did not meet listing criteria	OK	Addition
Fiddler Gulch Mouth to Headwaters	15E-FIDDO	Temperature	Rearing 64 F (17.8 C)	Summer	Krebs (1992), USFS Data	Krebs (1993): Monthly mean maximums of 65 to 70 exceeded standard (64) between June and September 1992. USFS Data in 1991 showed a 7-day moving average of daily maximums of 70.9 and 1992 (73.3°F)		303(d) List	
Free and Easy Creek Mouth to Headwaters	15E-FREE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Data shows exceedence of temperature criteria, 1996 (72.9°F); 1997 (71.3°F)		303(d) List	Addition
Grayback Creek Mouth to Headwaters	15E-GRAY0	Habitat Modification			Grayback/Sucker Pilot Watershed Analysis (USFS, 1995); NPS Assessment - segment 356: moderate, data (DEQ, 1988)	Coho and Winter Run Steelhead have been petitioned under ESA, large wood, pool depth and frequency were below expected conditions (Grayback/Sucker Pilot Watershed Analysis (USFS, 1995).		303(d) List	

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Basin <i>Rogue</i>			Sub	<i>Illinois</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	15E-GRAY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992), Siskiyou Audabon Society (1996)	USFS Data (Site at mouth): 7 day moving average of daily maximums of 60.0 and 63.2 with 0 and 4 days did not exceed temperature standard (64) in 1993 and 1994 respectively; Siskiyou Audubon Society (near Windy Creek and at Mossback Creek): 7 day moving average of daily maximums of 55.0 and 59.0 did not exceed temperature standard (64) in 1996. Other USFS data available.	Did not meet listing criteria	OK	
Hansen Gulch Mouth to Headwaters	15E-HANS0	Bacteria			USGS (1980)		No supporting data or information	Need Data	
Horse Creek Mouth to Headwaters	15E-HORS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences at two sites, 7 day Ave. Max. 1993 (59.9°F), 1995 (61.0°F)	Did not meet listing criteria	OK	Addition
Horsesign Creek Mouth to Headwaters	15E-horss0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 1991 60.6°F	Did not meet listing criteria	OK	Addition
Illinois River Mouth to Briggs Creek	15E-ILLIO	Flow Modification			NPS Assessment - segment 220: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992); Siskiyou Audabon Society (1996); NPS Assessment - segment 220: severe, observation (DEQ, 1988)	USFS Data (2 Sites: Above Silver and At mouth): 7 day moving average of daily maximums of 73.6/76.5 and 72.0/74.1 with 55/81 and 52/81 days respectively exceeding temperature standard (64) in 1993 and 1994 respectively; Siskiyou Audubon Society (2 sites: above Briggs Creek and above Lawson Creek): 7 day moving average of daily maximums of 80.0 and 75.0 exceeding temperature standard (64) in 1996 respectively.		303(d) List	

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Briggs Creek to East/West Fork 15E-ILLI32.5 Confluence		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 404161; RM 48.4): 0% (0 of 19) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404161; RM 48.4): 0% (0 of 29) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404161; RM 48.4): 0% (0 of 19) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	July 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404161; RM 48.4.0): 0% (0 of 19) July through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately July - Sept).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - June 30	DEQ Data	DEQ Data (Site 404161; RM 48.4): 3% (1 of 34) October through June values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 8.4 between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct - Jun).	Did not meet listing criteria	OK		
		Flow Modification				USGS (1990); IWR (ODFW); NPS Assessment - segments 221 & 222: severe/moderate, data/observation (DEQ, 1988)	Coho populations are depressed and are designated as a sensitive species, Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (072843) are often not met at USGS gage 14377100.		303(d) List	
		pH			Summer	DEQ Data	DEQ Data (Site 404161; RM 48.4): 5% (1 of 21) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Briggs Creek to East/West Fork Confluence	15E-ILLI32.5	pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404161; RM 48.4): 0% (0 of 29) FW values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segments 221 & 222: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; DEQ Data (Temperature Issue Paper, 1994); Krebs (1992); Siskiyou Audabon Society (1996); NPS Assessment - segments 221 & 222: severe, data (DEQ, 1988)	USFS Data (2 Sites: At Kerby gage and Above Briggs): 7 day moving average of daily maximums of 76.0/79.7 and 73.1/nd with 71/73 and 73/nd days exceeding temperature standard (64) in 1993 and 1994 respectively; Siskiyou Audubon Society (2 sites: at Gage Station (above Josephine Creek) and above Falls Creek): 7 day moving average of daily maximums of 79.0 and 80.0 exceeding temperature standard (64) in 1996 respectively.		303(d) List	
Illinois River, East Fork Mouth to California Border	15E-ILEF0	Flow Modification			USGS (1990); IWR (ODFW); ODFW (1995); NPS Assessment - segments 222, 224 & 401: moderate/severe, observation/data (DEQ, 1988)	Coho populations are depressed and are designated as a sensitive species, Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (070979) are often not met at USGS gage 14372500.		303(d) List	
		Sedimentation				NPS Assessment - segments 222, 224 & 401: moderate/severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992); Siskiyou Audabon Society (1996); NPS Assessment - segments 222, 224 & 401: severe/moderate, observation (DEQ, 1988)	USFS Data (Site T40S,R8W,S11): 7 day moving average of daily maximums of 73.4 with 85 days exceeding temperature standard (64) in 1994, 1995 (71.0°F) and 1996 (73.9°F);Siskiyou Audubon Society (Site near mouth): 7 day moving average of daily maximums of 72.0 exceeding temperature standard (64) in 1996.		303(d) List	

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Illinois River, West Fork Mouth to California Border	15E-ILWFO	Flow Modification			USGS (1990); IWR (ODFW); ODFW (1995); NPS Assessment - segments 223 & 379: severe/moderate, data/observation (DEQ, 1988)	Coho populations are depressed and are designated as a sensitive species, Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (070996) are often not met at USGS gage 14375500.		303(d) List	
		Sedimentation			NPS Assessment - segments 223 & 379: moderate/severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	Krebs (1992); NPS Assessment - segments 223 & 379: severe/moderate, observation (DEQ, 1988) also USFS data	Krebs (1993): Monthly mean maximums of 69 to 76 exceeded standard (64) between June and September 1992. USFS data from 5 sites: 1992, 77.8/77.5°F; 1996, 78.3/80.9/74.4/84.4°F		303(d) List	
Indigo Creek Mouth to East Fork	15E-INDI0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 344: moderate, observation (DEQ, 1988) USFS data	2 sites show exceedence of temperature criteria, 1990 (70.6 above N.F. and 72.2°F at mouth) 1991 (69.9°F above N.F.)		303(d) List	Addition
Indigo Creek, East Fork Mouth to Headwaters	15E-INEFO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 344: moderate, observation (DEQ, 1988)	USFS Data (2 Sites: Above Breezy and Chiefton Creeks): 7 day moving average of daily maximums of 60.6/nd and 59.3/62.4 with 0/nd and 0/1 exceeding temperature standard (64) in 1993/1994 respectively. 1995 (61.0°F) and 1996 (62.7°F)	Did not meet listing criteria	OK	
Indigo Creek, North Fork Mouth to Headwaters	15E-INNF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.0 with 5 days exceeding temperature standard (64) in 1993. 1995, 67.0°F and 1996, 69.3°F both exceeded temperature criteria.	Did meet listing criteria	303(d) List	Addition

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Indigo Creek, West Fork Mouth to Headwaters	15E-INWF0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 344: moderate, observation (DEQ, 1988)USFS data	No temperature exceedences, 7 day Ave. Max. (3 sites: 1991, 57.1/59.2°F; 1992, 60.2°F; 1996, 59.7°F	Did not meet listing criteria	OK	Status Modification
Josephine Creek Mouth to Headwaters	15E-JOSE0	Habitat Modification			1990 Josephine Creek stream survey, FEIS for the Canyon Resource Project (USFS)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	Insufficient data or information	Potential Concern	Addition
		Sedimentation			NPS Assessment - segment 357: moderate, observation (DEQ, 1988); FEIS for the Canyon Resource Project (USFS)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, NPS Assessment - segment 357: moderate, observation (DEQ, 1988)	USFS Data: 7 day moving average of daily maximums of 81.4 exceeded temperature standard (64) in 1990.		303(d) List	Addition
Klondike Creek Mouth to Headwaters	15E-KLON0	Sedimentation			NPS Assessment - segment 364: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 364: moderate, observation (DEQ, 1988) USFS data	1996 data shows exceedence of temperature criteria, 68.5°F		303(d) List	Addition
Lake Creek (Cave Creek) Mouth to headwaters	15E-LAKC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. in 1993 was 58.1°F	Did not meet listing criteria	OK	Addition
Lake Creek (Sucker Creek) Mouth to diversion	15E-LAKE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site for 1994 to 1997 data shows exceedence of temperature criteria, (76.9, 74.1, 77.4 and 72.8°F)		303(d) List	Addition
Diversion to headwaters	15E-LAKE1	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data (2 Sites: Above Diversion and At mouth): 7 day moving average of daily maximums of 56 and 58.1 with 0 and 0 days respectively exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	Segment Modification
Lawson Creek Mouth to South Fork Lawson Creek	15E-LAWS0	Sedimentation			NPS Assessment - segment 343: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to river mile 5	15E-LAWS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 343: moderate, observation (DEQ, 1988)	USFS Data (Site at mouth): 7 day moving average of daily maximums exceeding temperature standard (64) in 1990 to 1996 (71.5, 70.6, 72.5, 67.2 69.7, 69.0 69.7°F) and two other sites in 1994 (69.9, 69.6°F).		303(d) List	Segment Modification
Lawson Creek @ section 16 River mile 5 to headwaters	15E-LAWS6	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1990 to 96 data 2 out of 7 years exceeded, 7 day Ave. Max temperature criteria. (64.8, 63.4, 64.2, 61.9, 62.9 63.0, 63.1°F)	Did not meet listing criteria	Potential Concern List	Removed (5)
Lawson Creek, North Fork Mouth to Headwaters	15E-LANF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 57.9 with 0 days exceeding temperature standard (64) in 1994. 1995, 57.0°F	Did not meet listing criteria	OK	
Lawson Creek, South Fork Mouth to headwaters	15E-LASF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 1994, 62.8°F and 1995, 60.0°F	Did not meet listing criteria	OK	Addition
Lighting Gulch Mouth to headwaters	15E-LIGH0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 1991, 7 day Ave. Max. 56.8°F	Did not meet listing criteria	OK	Addition
Little Grayback Creek Mouth to Headwaters	15E-GRLI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Diversion 1993, 59.4°F): 7 day moving average of daily maximums of less than 64.0 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Long Gulch Mouth to Headwaters	15E-LONG0	Sedimentation			NPS Assessment - segment 359: severe, data(DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 359: severe, data(DEQ, 1988)		No supporting data or information	Need Data	
Minnow Creek Mouth to Headwaters	15E-MINNO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 61.3 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Myer Creek Mouth to headwaters	15E-MYER0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 1995, 61.0°F	Did not meet listing criteria	OK	Addition
Onion Creek Mouth to Headwaters	15E-ONIO0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 1995, 62.0°F	Did not meet listing criteria	OK	Addition
Page Creek Mouth to Headwaters	15E-PAGE0	Flow Modification			NPS Assessment - segment 360: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 360: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 360: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Paradise Creek Mouth to Headwaters	15E-PARA0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; USFS Data	BLM Data (Site T38S,R6W,S33): 7 day moving average of daily maximums of 56.5 and 59.3 with 0 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
Rancherie Creek Mouth to Headwaters	15E-RANC0	Habitat Modification			1992 Stream Survey for Rancherie Creek (USFS)	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	Insufficient data or information	Potential Concern	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	1992 Stream Survey for Rancherie Creek (USFS), USFS data	1996 data shows exceedence of temperature criteria, 70.8°F		303(d) List	Addition
Red Dog Creek Mouth to Headwaters	15E-REDD0	Sedimentation			NPS Assessment - segment 355: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 1995, 61.0°F	Did not meet listing criteria	OK	Addition

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Rough & Ready Creek Mouth to North/South Confluence	15E-ROUG0	Temperature	Rearing 64 F (17.8 C)	Summer	Krebs (1992); Siskiyou Audabon Society (1996), USFS data (1992)	Krebs (1993): Monthly mean maximums of 72 to 79 exceeded temperature standard (64) between August and September 1992; Siskiyou Audubon Society (1 sites below N and S Forks: 42 05' 35" lat, 123 44' 35" long): 7 day moving average of daily maximums of 82.1°F in 1992 and 79.7 in 1996 exceed temperature standard (64).		303(d) List	
Rough & Ready Creek, South Fork Mouth to Headwaters	15E-ROSF0	Temperature	Rearing 64 F (17.8 C)	Summer	Siskiyou Audabon Society (1996)	Siskiyou Audubon Society (sites near mouth): 7 day moving average of daily maximums of 74.7 exceeding temperature standard (64) in 1996.		303(d) List	Addition
Run Gulch Mouth to headwaters	15E-RUNG0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 62.5°F in 1996	Did not meet listing criteria	OK	Addition
Secret Creek Mouth to Headwaters	15E-SECR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.4 with 3 days exceeding temperature standard (64) in 1994. Above campground in 1991, 72.2 and at mouth in 1995, 62.0°F	Did not meet listing criteria	Potential Concern List	Status Modification
Selmac Lake Lake	15E-SELM	Aquatic Weeds or Algae	Aquatic Weeds		Complaints from local citizen and follow up through CLW		No supporting data or information	Need Data	
		Turbidity			Complaints from local citizen and follow up through CLW		No supporting data or information	Need Data	
Silver Creek Mouth to Todd Creek	15E-SILV0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992); NPS Assessment - segment 345: moderate, observation (DEQ, 1988)	USFS Data: 4 sites (Site at mouth): 7 day moving average of daily maximums 1990 to 1993, 70.0, 69.9, 70.9, 67.4. Other sites 67.6, 63.0, 67.3 and 69.3.		303(d) List	
Todd Creek to Headwaters	15E-SILV11	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Silver Falls): 7 day moving average of daily maximums of 53.1 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	

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Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Silver Creek, North Fork									
Mouth to Hawk Creek	15E-SINF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS; NPS Assessment - segment 346: moderate, observation (DEQ, 1988)	USFS Data: 7 day moving average of daily maximums of 69.7 with 14 days exceeding temperature standard (64) in 1993.		303(d) List	
Hawk Creek to Headwaters	15E-SINF4	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (2 Sites: Above Sourgrass and Cedar Swamp Creeks): 7 day moving average of daily maximums of 60.9 and 60.7 with 0 days exceeding temperature standard (64) in 1994 respectively. Two additional sites above Cedar Swamp Creek 1994, 66.9,53.0°F; 1995, 55.0°F.	Did not meet listing criteria	OK	
Silver Creek, South Fork									
Mouth to Headwaters	15E-SISF0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 347: moderate, observation (DEQ, 1988) and USFS data	1990 data shows exceedence of temperature criteria, 65.2°F, 1991, 64.0°F was at temperature standard		303(d) List	Addition
Sixmile Creek									
Mouth to Headwaters	15E-SIXM0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 64.4 and 67.8 with 8 and 31 days exceeding temperature standard (64) in 1993 and 1994 respectively. 1995, 65.0 and 1996, 67.1°F.		303(d) List	
Snail Creek									
Mouth to headwaters	15E-SNAI0	Temperature	Rearing 64 F (17.8 C)		USFS data	No temperature exceedences, 7 day Ave. Max. 1991, 57.8°F; 1992, 59.8°F; 1996, 59.0°F.	Did not meet listing criteria	OK	Addition
Soldier Creek									
Mouth to Spalding Dam	15E-SOLD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Data shows exceedence of temperature criteria, 4 years 1991, 67.7°F; 1992, 65.5; 1995, 67.0; and 1996, 71.7°F		303(d) List	Addition
Spalding Dam to headwaters	15E-SOLD2	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences at 3 sites 1992 52.9, 59.2, 60.1°F; 1995, 52.0°F; 1996, 52.1°F; 7 day Ave. Max.	Did not meet listing criteria	OK	Addition
Sourgrass Creek									
Mouth to Headwaters	15E-SOUR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T35S,R9W,S16): 7 day moving average of daily maximums of 59.6 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Spalding Pond Mouth to headwaters	15E-SPAL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. in 1991 was 51.7°F	Did not meet listing criteria	OK	Addition	
Sucker Creek Mouth to Bolan Creek	15E-SUCK0	Dissolved Oxygen (DO)			NPS Assessment - segment 227: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Flow Modification			Grayback/Sucker pilot Watershed Analysis (USFS, 1995); USGS (1990); IWR (ODFW); NPS Assessment - segment 227: moderate, observation (DEQ, 1988)	Coho populations are depressed and are designated as a sensitive species, Winter Steelhead are declining; low flows due to water withdrawals have been identified as a limiting factors (ODFW, 93); IWR (62323) are often not met at USGS gage 14375100.		303(d) List		
		Habitat Modification			Grayback/Sucker Pilot Watershed Analysis (USFS, 1995); NPS Assessment - segment 227: moderate, observation (DEQ, 1988)	Coho and Winter Run Steelhead have been petitioned under ESA, large wood, pool depth and frequency were below expected conditions (Grayback/Sucker Pilot Watershed Analysis (USFS, 1995).		303(d) List		
		Sedimentation			NPS Assessment - segment 227: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Mouth to Grayback Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Krebs (1992); Siskiyou Audabon Society (1996); NPS Assessment - segment 227: moderate, observation (DEQ, 1988)	USFS Data (5 Sites: Below Little Grayback; Below Grayback; Above Lake Creeks Below Nelson Creek and at the mouth): 7 day average of daily maximums between 1992 and 1996 ranged between 64.6 and 82.7°F. all exceeded temperature standard (64). Siskiyou Audubon Society Data (3 Sites: Near old gage, Holland Loop Bridge, Takelma Rd Bridge): 7 day average of daily maximums of 64.0, 72.0 and 71.0 exceeding temperature standard (64) in 1996 respectively.		303(d) List	Segment Modification	
Grayback Creek to Headwaters listing	15E-SUCK11 Segment	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data	USFS Data: 5 Sites between 1992 and 1996: 7 day moving average of daily maximums were between 57.0 and 63.3 with 0 days exceeding temperature standard (64).	USFS Data: 5 Sites between 1992 and 1996: 7 day moving average of daily maximums were between 57.0 and 63.3 with 0 days exceeding temperature standard (64).	Did not meet criteria	Modification

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Basin <i>Rogue</i>			Sub	<i>Illinois</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Sucker Creek, Left Fork Mouth to Headwaters	15E-SULF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 1992 to 95 7 day moving average of daily maximums of 60.7, 56.7, 59.8 and 57.0°F; 0 days exceeding temperature standard (64). Two other sites 1994 to 96 (75, 55, 58.4 and 59.3°F)	Did not meet listing criteria	OK	
Swede Creek Mouth to headwaters	15E-SWED0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. in 1994 was 61.0°F	Did not meet listing criteria	OK	Addition
Trapper Gulch Mouth to Headwaters	15E-TRAP0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (3 Sites): 7 day moving average of daily maximums 1993, 57.7; 1994, 60.5 and 1995, 60.0°F with 0 days exceeding temperature standard (64).	Did not meet listing criteria	OK	
White Creek Mouth to Headwaters	15E-WHIT0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T38S,R7W,S25): 7 day moving average of daily maximums of 59.7 and 62.9 with 0 and 2 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
Wildhorse Creek Mouth to headwaters	15E-WILD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. data from 1990 to 1996, 61.6/62.0/59.1/60.2/60.0/62.4°F	Did not meet listing criteria	OK	Addition
Windy Creek Mouth to headwaters	15E-WIND0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1994 data shows exceedence of temperature criteria, 74.0°F, however, 1995 did not 54.0°F, 1994 was a drought year.	Did not meet listing criteria	Potential Concern	Addition
Wood Creek Mouth to Headwaters	15E-WOOD0	Flow Modification			NPS Assessment - segment 358: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 358: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>	Sub	<i>Illinois</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	15E-WOOD0	Temperature			NPS Assessment - segment 358: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Big Boulder Creek Mouth to Headwaters	15F-BOBI0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site near confluence with Grave Creek - T33S-R4W,S15): 7 day moving average of daily maximums of 68.0 with 28 days exceeding temperature standard (64) in 1995.		303(d) List	Addition
Billings Creek Mouth to Headwaters	15F-BILL0	Sedimentation			NPS Assessment - segment 348: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Boulder Creek (Grave Creek) Mouth to headwaters	15F-BOUG0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Exceeded temperature criteria in 1996 (67.8°F) did not in 1997 (63.9°F)		303(d) List	Addition
Boulder Creek (SF Lobster) Mouth to headwaters	15F-BOUL0	Temperature	Rearing 64 F (17.8 C)		USFS data	No temperature exceedences, 7 day Ave. Max. 63.4°F		OK	Addition
Bradford Creek Mouth to Headwaters	15F-BRAD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 59.3 and 59.9 with 0 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
Burned Timber Creek Mouth to Headwaters	15F-BURN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums of 63.6/67.1/63.5 with 4/13/nd exceeding temperature standard (64) in 1993/1994/1995 respectively.	Did not meet listing criteria	OK	
Chief Creek Mouth to headwaters	15F-CHIE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 60.9°F	Did not meet listing criteria	OK	Addition
Chiefton Creek Mouth to headwaters	15F-CHIE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 58.6°F	Did not meet listing criteria	OK	Addition
Clark Creek (@ Grave Creek) Mouth to Headwaters	15F-CLAG0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	7-day Ave. Max. of 61.7/64.8/62.6°F for years 1995/1996/1997, exceedence occurred in 1996		303(d) List	Addition

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Coyote Creek Mouth to Headwaters	15F-COY00	Flow Modification			NPS Assessment - segment 313: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 313: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at Interstate 5): 7 day moving average of daily maximums of 70.2 with 79 days exceeding temperature standard (64) in 1994.		303(d) List	
Dutcher Creek Mouth to RM 2.5	15F-DUTC0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data	ODFW Data (2 Sites: Above Blue Gulch and Riverbanks Rd Br): 7 day moving average of daily maximums of 65.1 and 67 respectively exceeded temperature standard (64) in 1994.		303(d) List	
Foster Creek Mouth to Headwaters	15F-FOST0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums from 1990 to 96 exceed temperature standard (64) (67.8, 67.6, 68.1, 65.0, 67.7, 67.0, 68.7 °F).		303(d) List	
Galice Creek Mouth to North/South Fork Confluence	15F-GALI0	Sedimentation			NPS Assessment - Segment 235 & 236: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data; BLM Data	BLM Data (Site above Merlin-Galice Hwy): 7 day moving average of daily maximums of 70.4 with 67 days exceeding temperature standard (64) in 1994.		303(d) List	
Galice Creek, North Fork Mouth to Headwaters	15F-GANF0	Sedimentation			NPS Assessment - segment 424: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site above Mill Cr): 7 day moving average of daily maximums of 60.2 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Galice Creek, South Fork Mouth to Chiefton Creek (RM 3) (Site	303(d) List	15F-GASF0	Temperature (17.8 C)	Rearing 64 F	Summer	USFS Data; ODFW Data above Forks) Data: 7 day moving average of the daily maximum temperatures of 67.4 and 67.5 with 27 and 32 days exceeding temperature standard (64) in 1994.		USFS (Site at mouth) and ODFW	
Grave Creek Mouth to Last Chance Creek	15F-GRAV0	Aquatic Weeds or Algae	Algae			NPS Assessment - segments 232 & 233: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Flow Modification				NPS Assessment - segments 232 & 233: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Habitat Modification				NPS Assessment - segment 232: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segments 232 & 233: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer		BLM Data; NPS Assessment - segments 232 & 233: severe, data and moderate, observation (DEQ, 1988)	BLM Data (Site above Wolf Creek): 7 day moving average of daily maximums of 86.3 with 105 days exceeding temperature standard (64) in 1994. 1995 (79.0°F)	303(d) List	
Last Chance Creek to Headwaters	15F-GRAV32	Temperature	Rearing 64 F (17.8 C)	Summer		BLM data	No temperature exceedences, 7 day Ave. Max. 1995 (61.0°F)	OK	Addition
Hog Creek Mouth to Headwaters	15F-HOG0	Temperature	Rearing 64 F (17.8 C)	Summer		BLM Data	BLM Data (Site near mouth -T35S,R7W,S11): 7 day moving average of daily maximums of 66.1 with 22 days exceeding temperature standard (64) in 1995.	303(d) List	Addition
Jump Off Joe Creek Mouth to Headwaters	15F-JUMP0	Flow Modification				NPS Assessment - segment 237: moderate, data (DEQ, 1988)	No supporting data or information	Need Data	
		Habitat Modification				NPS Assessment - segment 237: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	15F-JUMP0	Sedimentation			NPS Assessment - segment 237: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 237: moderate, observation (DEQ, 1988), BLM data	1997 data shows exceedence of temperature criteria, 67.7°F		303(d) List	Addition
Last Chance Creek (Grave Creek)									
Mouth to Headwaters	15F-LAST0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1994 data shows exceedence of temperature criteria, 65.5°F, but 1995 (62.0°F) does not.	Did not meet listing criteria	Potential Concern	Addition
Lazy Creek									
Mouth to headwaters	15F-LAZY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS	No temperature exceedences, 1996 7 day Ave. Max. 59.3°F	Did not meet listing criteria	OK	Addition
Limpy Creek									
Mouth to Headwaters	15F-LIMPO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, two sites 1991 7 day Ave. Max. 63.5°F, 1994 (63.0°F)	Did not meet listing criteria	OK	Addition
Lobster Creek									
Mouth to Headwaters	15F-LOBS0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered healthy with a Discriminant Score of >75 points. Discriminant Score was 99.	Did not meet listing criteria	OK	Addition
		Sedimentation			NPS Assessment - segment 230: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 230: moderate, data (DEQ, 1988)	USFS Data (Site at mouth): 1990 to 1996, 7 day moving average of daily maximums of 67.9, 68.7, 68.6, 65.0 and 66.4 shows exceedence of temperature criteria.		303(d) List	
Lobster Creek, North Fork									
Mouth to river mile 3	15F-LONF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day moving average of daily maximums years 1990 to 1996 (64.9, 65.0, 64.8, 62.6, 64.0, 64.0 and 64.1°F) either at or exceeding temperature standard (64) in 6 of 7 years.		303(d) List	Addition
River mile 3 to headwaters	15F-LONF3	Temperature	Rearing 64 F (17.8 C)		USFS data	No temperature exceedences, 7 day Ave. Max. 1996, 62.7°F	Did not meet listing criteria	OK	Segment Modification

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Lobster Creek, South Fork									
Mouth to Iron Creek	15F-LOSF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (At mouth: 7 day moving average of daily maximums of 1994, 66.8; 1995, 67.0; and 1996, 66.8 exceeded temperature standard (64) all three years.		303(d) List	Addition
Iron Creek to headwaters	15F-LOSF3	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Site below Ol'Diggins Bridge had no 7 day Ave. Max temperature exceedences (64°F) between 1990 and 1996 reading were between 60.0°F and 62.4°F.	Did not meet listing criteria	OK	Removed (5)
Louse Creek									
Mouth to Headwaters	15F-LOUS0	Flow Modification			NPS Assessment - segment 238: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 238: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 238: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 238: moderate, observation (DEQ, 1988)ODFW and BLM data	Temperature criteria are exceeded at 3 sites in 1996, 75.2, 70.9, 64.3°F; and one of two in 1997, 67.9 and 62.5		303(d) List	Addition
Mill Creek									
Mouth to Headwaters	15F-MILL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T35S,R8W,S5): 7 day moving average of daily maximums of 61.8 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Miners Creek									
Mouth to headwaters	15F-MINE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. 1990 56.4°F	Did not meet listing criteria	OK	Addition

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mule Creek Mouth to Headwaters	15F-MULE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T33S,R10W,S9): 7 day moving average of daily maximums was 68.4 with 35 days exceeding temperature standard (64) in 1994. West Fk of Mule Ck is in the Rogue Wilderness Area and, due to soils and geology of Dothan Formation, grows sparse riparian. vegetation; Excursions above standard are considered a natural condition based on 2/96 judgment of David Jones, Medford BLM District Manager. However, only the West Fork Mule is in a wilderness area. Further information is need about the mainstem of Mule Creek before the stream can be remove for natural conditions.		303(d) List	Addition
Pickett Creek Mouth to RM 4	15F-PICK0	Habitat Modification			NPS Assessment - segment 252: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data	ODFW Data (2 Sites: At Riverbanks and RM 3.5): 7 day moving average of daily maximums of 72.1 and 67.8 with 59 and 26 days exceeding temperature standard (64) in 1993 and 1994 respectively.		303(d) List	
Poorman Creek Mouth to Headwaters	15F-POOR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (SiteT33S,R7W,S33): 7 day moving average of daily maximums of 65.7 with 19 days exceeding temperature standard (64) in 1994.		303(d) List	
Quartz Creek Mouth to Headwaters	15F-QUAR0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW and BLM Data	ODFW Data (2 Sites: Above mouth: 7 day moving average of daily maximums 1994, 77.6 and 1996, 76.2 °F. and RM 4.5 1994, 67.5 and 1997, 62.9. Three of four exceed temperature standard (64).		303(d) List	

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Quosatana Creek Mouth to Headwaters	15F-QUOS0	Sedimentation			NPS Assessment - segment 342: moderate, data (DEQ, 1988)	USFS Data (Site at mouth): 7 day moving average of daily maximums 1991, 66.4; 1992, 69.3; 1994, 67.2 and 1995, 69.0°F all exceeded temperature standard (64). Three up stream sites RM 2.5, 1993,63.2°F; RM 2.6, 1995, 65.0°F; East Fork, 1995, 64.0 and West Fork, 1995, 63.0°F. Most years at or above temperature criteria.	No supporting data or information	Need Data	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 342: moderate, data (DEQ, 1988)				
Reuben Creek Mouth to Headwaters	15F-REUB0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T33S,R7W,S30): 7 day moving average of daily maximums of 68.3 with 38 days exceeding temperature standard (64) in 1994.		303(d) List	
Rock Creek (Grave Creek) Mouth to Headwaters	15F-ROCK0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T33S,R7W,S32): 7 day moving average of daily maximums of 64.5 and 62.3 with 5 and 0 days exceeding temperature standard (64) in 1994 and 1995 respectively.	Did not meet listing criteria	Potential Concern List	
Rogue River Mouth to Illinois River	15=-ROGU0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402084; RM 11.0): 0% (0 of 6) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402084; RM 11.0): 0% (0 of 5) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402084; RM 11.0): 0% (0 of 17) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>	Sub	<i>Lower Rogue</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Illinois River	15--ROGU0	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October1 - March 31	DEQ Data	DEQ Data (Site 402084; RM 11.0): 0% (0 of 6) October through March values exceeded rearing dissolved oxygen standard (11.0 mg/l or 95% saturation) between 1992 - 1995 (Cold water fishery, spawning approximately Oct - Mar).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data	DEQ Data (Site 402084; RM 11.0): 0% (0 of 6) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between 1992 - 1995 (Cold water fishery, rearing approximately April - Sept).	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402084; RM 11.0): 33% (6 of 18) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.9 between WY 1986 - 1995.			303(d) List
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402084; RM 11.0): 0% (0 of 5) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segments 216: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; DEQ Data (Temperature Issue paper, 1994); NPS Assessment - segments 216 & 217: moderate, data (DEQ, 1988)	USFS Data (2 Sites: At Crooked Riffle: 7 day moving average of the daily maximum of 72.3 in 1993 and 77.6 in 1996. At Kimball Bend Dock 75.8 in 1994; 74.0 in 1995 and 75.2 in 1996. All exceeded temperature standard (64).			303(d) List
Illinois River to Grave Creek	15--ROGU027.1	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 14372300; RM 29.7): 0% (0 of 18) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	October1 - March 31	USGS Data	USGS Data (Site 14372300; RM 29.7): 3% (1 of 35) FWS values exceeded fecal coliform standard (400) with a maximum of 890 between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Illinois River to Grave Creek	15--ROGU027.1	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - May 31	USGS Data	USGS Data (Site 14372300; RM 29.7): 4% (1 of 28) October through May values exceeded rearing dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct - May).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	USGS Data	USGS Data (Site 14372300, RM 29.7): 0% (0 of 21) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately April - Sept).	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USGS Data	USGS Data (Site 14372300; RM 29.7): 0% (0 of 36) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	USGS Data	USGS Data (Site 14372300; RM 29.7): 0% (0 of 18) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segments 218 & 420: moderate, data (DEQ, 1988)	USFS Data (3 Sites: Above Illinois R, T34S,R11W,S9, and T34S,R11W,S2): 7 day moving average of daily maximums of 70.9/78.7, nd/77.6, nd/77.7 with 60/64, nd/85, nd/73 days exceeding temperature standard (64) in 1993/1994 respectively.			303(d) List
Grave Creek to Applegate River meet listing	15--ROGU068.4 OK	Bacteria	Removed (5)	Water Contact	Fall-Winter-	DEQ Data; d1 in 305(b) Report	DEQ Data (Site 402088; RM 86.6): 8% (4		Did not
			Recreation (fecal coliform-96 Std)	Spring	(DEQ, 1994); NPS Assessment - segment 219: moderate, data (DEQ, 1988)	of 48) FWS values exceeded fecal coliform standard (400) with a maximum value of 930 between WY 1986 - 1996.	criteria		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 219: moderate, data (DEQ, 1988)	DEQ Data (Site 402088; RM 86.6): 12% (3 of 26) Summer values exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 1986 - 1995.		303(d) List	

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Grave Creek to Applegate River meet listing	OK	15=-ROGU068.4		Chlorophyll a	Summer	DEQ Data	DEQ Data (Site 402088; RM 86.6): 0% (0 of 28) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	DEQ Data (Site 402088; RM 86.6): 0% (0 of 40) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately April - Sept).	Did not meet listing criteria	Did not
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data	DEQ Data (Site 402088; RM 86.6): 0% (0 of 37) October through March values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct - Mar).	DEQ Data (Site 402088; RM 86.6): 0% (0 of 37) October through March values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct - Mar).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - March 31	DEQ Data			Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 219: moderate, data (DEQ, 1988)			No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 219: moderate, observation (DEQ, 1988)			No supporting data or information	Need Data	
		pH		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402088; RM 86.6): 8% (2 of 24) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.8 between WY 1986 - 1996.	DEQ Data (Site 402088; RM 86.6): 11% (6 of 53) FWS values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 9.0 between WY 1986 - 1995.	Did not meet listing criteria	OK	Removed (5)
		pH		Fall-Winter-Spring	DEQ Data				303(d) List	
		Sedimentation			NPS Assessment - segment 219: moderate, observation (DEQ, 1988)			No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Grave Creek to Applegate River (86.6): 54%	303(d) List	15=-ROGU068.4	Temperature	Rearing 64 F	Summer	USFS Data; DEQ Data (14 of 26) Summer values exceeded temperature standard (64) with a maximum of 74.3 and exceedences measured in 1986 - 1988, 1990 - 1995 between WY 1986 - 1995.		DEQ Data (Site 402088; RM		
				(17.8 C)						(Temperature Issue Paper, 1994); NPS Assessment - segment 219: moderate, data (DEQ, 1988)
Shan Creek Mouth to Headwaters	15F-SHAN0	Temperature	Toxics	Tissue - Mercury	Year Around	DEQ Data; 1994 304(l) list, Part B	DEQ Data: no fish consumption recommendation given.	Did not meet listing criteria	Potential Concern	Removed (1)
			Rearing 64 F (17.8 C)	Summer	ODFW and USFS Data	ODFW Data (2 Sites: At Riverbanks Rd Br and Near NF boundary): 7 day moving average of daily maximums of 73.2 and 72.6 with 77 and 63 days exceeding temperature standard (64) in 1994 respectively. Up stream of the USFS boundary 67.9°F in 1991		303(d) List	Segment Modification	
Shasta Costa Creek Mouth to Headwaters	15F-SHAS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 1990 to 1996, 75.2, 71.1, 72.5, 67.9, 70.5, 69.0 and 70.7 were all above the temperature criteria. 4 other sites had temperatures of 68.7 and 69.8 in 1991 and 68.7 and 66.8 in 1996.		303(d) List		
Slate Creek (Grave Creek) Mouth to Headwaters	15F-SLAT0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Data shows exceedence of temperature criteria, in 2 out of 3 years. 1995, 62.9°F; 1996, 65.6°F; 1997, 64.6°F		303(d) List	Addition	
Stair Creek Mouth to Headwaters	15F-STAI0	Sedimentation			NPS Assessment - segment 353: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Taylor Creek Mouth to China Creek	15F-TAYLO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data: At English Meadows 7 day moving average of daily maximums 1990 to 1995, 69.2/68.7/69.3/65.0/66.0°F 65.0 and above China Creek, 1996, 64.4°F data shows exceedence of temperature criteria.		303(d) List	Addition	

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
China Creek to Headwaters	15F-TAYL5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Above Minnow Creek: 1994, 61.9°F and above West Fork: 1991, 61.4 and 1992, 62.6°F; 0 days exceeding temperature standard (64).	Did not meet listing criteria	OK	Segment Modification
Two Mile Creek Mouth to headwaters	15F-TWOM0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. for 1993, 61.7°F	Did not meet listing criteria	OK	Addition
Twomile Creek Mouth to Headwaters	15F-TWOM0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered a Potential Concern with a Discriminant Score of 61 to 75 Points. Discriminant Score was 66.	Did not meet listing criteria	Potential Concern List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Illahe Rd): 7 day moving average of daily maximums of 61.7 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Whiskey Creek Mouth to Headwaters	15F-WHIS0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T33S,R8W,S34): 7 day moving average of daily maximums of 69.9 with 55 days exceeding temperature standard (64) in 1994. 1995, 68.0°F			303(d) List
Whitten Prairie Creek Mouth to headwaters	15F-WHPR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. in 1990, 62.1°F	Did not meet listing criteria	OK	Addition
Wolf Creek Mouth to Headwaters	15F-WOLF0	Flow Modification			NPS Assessment - segment 234: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 234: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 234: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Lower Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	15F-WOLF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (2 Sites: T34S,R7W,S1 and Above Hole in the Ground Cr): 7 day moving average of daily maximums of 90.8 and 65.9 (and 64.1 in 95) with 103 and 13 days exceeding temperature standard (64) in 1994 respectively.		303(d) List	

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Allen Creek Mouth to Headwaters	15B-ALLE0	Flow Modification			NPS Assessment segment 256: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment segment 256: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Anderson Creek Mouth to Headwaters	15B-ANDE0	Bacteria			USGS (1980)		No supporting data or information	Need Data	
Ashland Creek Mouth to Ashland City Limits	15B-ASHL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 402812; RM 0.6): 80% (4 of 5) Summer values exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402812; RM 0.6): 18% (2 of 11) FWS values exceeded fecal coliform standard (400) with a maximum value of 1100 between 1988 - 1994.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402812; RM 0.6): 0% (0 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402091; RM 117.3): 0% (0 of 9) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately April - Sept).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - May 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402812; RM 0.6): 12% (1 of 8) October through March values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 8.8 between 1988 - 1991 (Cold water fishery, spawning approximately Oct - Mar).	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Ashland STP	15B-ASHL0	Nutrients	Phosphorus	May 1 - November 30	DEQ Data	DEQ TMDL Data.	TMDL established for BOD, ammonia and phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/08/92)	
Mouth to Ashland City Limits		pH		Summer	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 402812; RM 0.6): 0% (0 of 8) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 402812; RM 0.6): 0% (0 of 12) FWS values exceeded pH standard (6.5 - 8.5) between 1988 - 1994.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	Bear Creek Temperature Study (ODFW, 1992)	ODFW Data (Site near mouth): Monthly average maximum of 64, 60, and 60 in July, August, and September 1992 respectively using minimum/maximum thermometer.	Did not meet listing criteria	OK	
Mouth to Ashland STP		Toxics	Water (Ammonia)	May 1 - November 30	DEQ Data	DEQ TMDL Data.	TMDL established for BOD, ammonia and phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/08/92)	
Ashland Creek, East Fork									
Mouth to Headwaters	15B-ASEF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Reeder Reservoir): 7 day moving average of daily maximums of 59.2 and 64 with 0 and 4 days exceeding temperature standard (64) in 1993 and 1994 respectively. In 1997 (60.2°F)	Did not meet listing criteria	OK	
Baby Bear Creek									
Mouth to Headwaters	15B-BEBA0	Bacteria			RVCOG		No supporting data or information	Need Data	
Baldy Creek									
Mouth to Headwaters	15B-Bald0	Temperature	Rearing 64 F (17.8 C)	Summer	FOG data	1997 data shows exceedence of temperature criteria, 65.3°		303(d) List	Addition

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Battle Creek Mouth to Headwaters		15B-BATT0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T34S,R3W,S15): 7 day moving average of daily maximums of 67.6 and 63.8 did/did not exceed temperature standard (64) in 1994 and 1995 respectively. 1996 data 65.3°. Two out of three year above criteria.	Did meet listing criteria	303(d) List Addition
Bear Creek Mouth to Neil Creek		15B-BEAR0	Aquatic Weeds or Algae	Periphyton		NPS Assessment - segment 273: severe, data (DEQ, 1988)	TMDL Study (Baumgartner, DEQ, 1989).	TMDL established for BOD, ammonia and phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/8/92)
			Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); USGS (1980); RVCOG Data; NPS Assessment - segment 273: severe, data (DEQ, 1988)	DEQ Data (6 Sites: RM 0.9 - 24) 6 Sites = 50 - 82% (15 of 26; 9 of 11; 4 of 8; 13 of 20; 3 of 5; 16 of 20) Summer values respectively exceeded fecal coliform standard (400) with maximum values of 2400, 1200, 1100 between WY 1986 - 1995.		303(d) List
			Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); USGS(1980); RVCOG Data; NPS Assessment - segment 273: severe, data (DEQ, 1988)	DEQ Data (7 Sites; RM 0.9 - 24) 3 Sites = 19 - 22% (4 of 18; 3 of 16; 1 of 5), 4 Sites = 30 - 59% (32 of 54; 14 of 47; 5 of 12; 16 of 38) Summer values respectively exceeded standard (400) with maximum values of 1100 - 11,000 between WY 1986 - 1995.		303(d) List
			Chlorophyll a		Summer	DEQ - TMDL & Ambient Monitoring, (305(b), 1994); USGS (1980); NPS Assessment - segment 273: severe, data (DEQ, 1988)	DEQ Data (6 Sites: RM 0.9 - 24): 0%(0 of 6, 13, 24, 21); 402728 = 3% (1 of 34); 402103 = 14%(2 of 14) Summer values exceeded chlorophyll a standard (15 ug/l) with maximums of 20, 22 between WY 1986 - 1995.	TMDL established for BOD, ammonia and phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/8/92)
			Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - May 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 273: severe, data (DEQ, 1988)	DEQ Data (Site 402728; RM 0.9): 25% (10 of 40) October through March values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 7.7 mg/l between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct-Mar).	TMDL established for BOD, ammonia and phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/8/92)

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Neil Creek	15B-BEAR0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 273: severe, data (DEQ, 1988)	DEQ Data (Site 402728, RM 0.9): 15% (6 of 40) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 4 mg/l between WY 1986 - 1995 (Cold water fishery, rearing approximately April - Sept).	TMDL established for BOD, ammonia and phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/8/92)	
		Flow Modification			ODFW (1992); Water Use Invent (RVCOG, 1994); NPS Assessment - segment 273: severe, data (DEQ, 1988)	Coho have severely depressed populations and have been designated as a sensitive species, low flows and flow alteration due to withdrawals have been identified as one of the limiting factors (ODFW, 92); IWR (70993) are often not met at USGS gage 14357500.		303(d) List	
		Habitat Modification			ODFW (1992); NPS Assessment - segment 273: severe, observation (DEQ, 1988)	ODFW Study (1992).		303(d) List	
		Nutrients	Phosphorus	May 1 - November 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 273: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402728, 402104; RM 0.9, 19.9): 100% (9 of 9), 100% (6 of 6) May - November values exceeded TMDL phosphorus standard (0.08) with maximums of 0.38, 0.61 respectively between 1/95 - 11/95.	TMDL established for BOD, ammonia and phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/08/92)	
		pH		Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 273: severe, data (DEQ, 1988)	DEQ Data (7 Sites: RM 0.9 - 24.0): 4 Sites = 0% (0 of 17, 54, 19, 6); 3 Sites = 9 - 25% (7 of 64, 6 of 24, 4 of 44) Summer values respectively exceeded pH maximum standard (6.5 - 8.5) with maximum values of 8.8; 8.8; 8.8 between WY 1986 - 1995.	TMDL established for BOD, ammonia and phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/8/92)	
		pH		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 273: severe, data (DEQ, 1988)	DEQ Data (8 Sites: RM 0.9 - 24) 2 Sites = 0% (0 of 31, 27); 2 Sites = 20% (1 of 5); 4 Sites = 16, 80, 38, 19% (6, 4, 6, 3 of 38, 5, 16, 16) Summer values respectively exceeded pH standard (6.5 - 8.5) with maximum values of 8.8 - 9.0 between WY 1986 - 95.	TMDL established for BOD, ammonia and phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/8/92)	
		Sedimentation			NPS Assessment - segment 273: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96			
Name && Description	Waterbody Segment	Parameter	Criteria	Season								
Mouth to Neil Creek	15B-BEAR0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data; Bear Creek Temperature Study (ODFW, 1992); NPS Assessment - segment 273: severe, observation (DEQ, 1988)	ODFW Data (6 Sites): Monthly average maximums ranged from 62-77, 65-78, 70-76, and 65-73 in July, Aug, Sept, October 1992 respectively using min/max thermometer; DEQ Data (402728, RM .9): 64% (28 of 44) Summer values exceeded standard (64) from WY 86-95.		303(d) List				
		Toxics	Water (Ammonia)	May 1 - November 30	DEQ Data					Bear Creek TMDL Study (Baumgartner, DEQ, 1989).	TMDL established for BOD, ammonia and phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/8/92)
		Toxics	Pesticides							NPS Assessment - segment 273: moderate, data (DEQ, 1988)	No supporting data or information	Need Data
Bee Creek (Savage Creek)												
Mouth to Headwaters	15B-Bee0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1997 data shows exceedence of temperature criteria, 73.1°		303(d) List	Addition			
Birdseye Creek												
Mouth to Headwaters	15B-BIRD0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T37S,R4W,S4): 7 day moving average of daily maximums of 67.0 and 63.2 did/did not exceed temperature standard (64) in 1994 and 1995 respectively. Exceeded temperature criteria in 1996 (65.6°F) and in 1997 (64.3°F)		303(d) List	Addition			
Butler Creek												
Mouth to Headwaters	15B-BUTL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402811; RM 0.1): 50% (4 of 8) FWS values exceeded fecal coliform standard (400) with a maximum of 2400 in 1988 - 1989.		303(d) List				
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402811; RM 0.1): 0% (0 of 6) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between 1988 - 1989 (Cold water fishery, rearing approximately April - Sept).	Did not meet listing criteria	OK				

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	15B-BUTL0	pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402811; RM 0.1): 0% (0 of 8) FWS values exceeded pH standard (6.5 - 8.5) between 1988 - 1989.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	Bear Creek Temperature Study (ODFW, 1992)	ODFW Data (Site near mouth): Monthly average maximums of 67 and 69 in July and August 1992 respectively using minimum/maximum thermometer.		303(d) List	
Carter Creek Mouth to Headwaters	15B-CART0	Temperature	Rearing 64 F (17.8 C)	Summer	FOG Data	FOG Data (Sites at confluence with Emigrant Creek): 7 day moving average of daily maximums of 71.6 with 18 days exceeded temperature standard (64) in 1996. 2 sites 1997; 74.2 and 74.8°F		303(d) List	Addition
Cold Creek Mouth to Headwaters	15B-COLD0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at Rock Creek confluence): 7 day moving average of daily maximums of 69.3 with 31 days exceeding temperature standard (64) in 1994.		303(d) List	
Coleman Creek Mouth to Headwaters	15B-COLE0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	RVCOG (1990); NPS Assessment - segment 279: moderate, data (DEQ, 88)	RVCOG Data: Annual average fecal coliform data ranging between 230 - 536 did not/did exceed fecal coliform standard (400) between 1988 - 1990 (RVCOG, 1990).		303(d) List	
		Sedimentation			NPS Assessment - segment 279: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 279: moderate, data (DEQ, 1988) BLM data	1997 data shows exceedence of temperature criteria, 64.9°		303(d) List	Addition

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Crooked Creek Mouth to Headwaters	15B-CROO0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS (1980); Jackson County (1982)	9 Sites: 40% (8 of 20), 63% (12 of 19), 100% (4 of 4), 75% (3 of 4), 67% (2 of 3), 100% (3 of 3), 44% (7 of 16), 63% (10 of 16), and 80% (4 of 5) exceeded fecal coliform standard (400) with a maximum of 16000 in 1981 - 1982 (Jackson Co, 1882).		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS (1980); Jackson County (1982)	9 Sites: 64% (9 of 14), 100% (6 of 6), 67% (6 of 9), 100% (8 of 8), 100% (10 of 10), 90% (9 of 10), 63% (10 of 16), 85% (11 of 13), and 91% (10 of 11) exceeded fecal coliform standard (400) with a maximum of 15300 in 1981 - 1982 (Jackson Co, 1882).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	Bear Creek Temperature Study (ODFW, 1992)	ODFW Data (Site near mouth): Monthly average maximums of 73, 74, and 72 in July, August, and September 1992 respectively using minimum/maximum thermometer.		303(d) List	
Emigrant Creek Mouth to Emigrant Reservoir	15B-EMIG0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	USGS (1980); RVCOG (1990)	RVCOG Data: Annual average fecal coliform data ranging between 51 - 181 did not exceed fecal coliform standard (400) between 1988 - 1990 (RVCOG, 1990).	Did not meet listing criteria	OK	
		Nutrients	Total Phosphorus as P		Rogue Valley Council of Governments data	Three sample sites below Emigrant dam. Total Phosphorus as P ranged from a high of .287 to a low of .104 mg/L. All exceeded the criteria of .08 mg/l set as part of the Bear Creek TMDL		TMDL Approved (12/08/92)	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	Bear Creek Temperature Study (ODFW, 1992)	ODFW Data (Site near mouth): Monthly average maximums of 60, 69, 73, and 73 in July, August, September, and October 1992 respectively using minimum/maximum thermometer.		303(d) List	
Green Mountain Creek to headwaters	15B-EMIG11.5	Temperature	Rearing 64 F (17.8 C)	Summer	Fog and Boise Cascade data	Two sites in 1997 showed no temperature exceedences, 7 day Ave. Max. 55.3 and 62.1°F	Did not meet listing criteria	OK	Removed (5)

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Emigrant Reservoir to Headwaters	15B-EMIG6	Flow Modification			NPS Assessment - segment 286: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 286: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Emigrant Reservoir to Green Mountain Creek		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 286: moderate, observation (DEQ, 1988) and FOG data	FOG Data (2 sites: above Carter Creek and above Baldy Creek): 7 day moving average of daily maximums of 67.9 and 67.6 with 20 and 24 days exceeded temperature standard (64) in 1996. Four sites in 1997 exceeded temperature criteria 67.5, 66.7, 66.5 and 68.9°F .		303(d) List	Segment Modification
Emigrant Lake Reservoir	15B.EMIG	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segments 285 & 376: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segments 285 & 376: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 285 & 376: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Turbidity			RVCOG (1988); NPS Assessment - segments 285 & 376: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Evans Creek Mouth to West Fork Evans Creek	15B-EVAN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 259: severe, data (DEQ, 1988)	DEQ Data (Site 404051; RM 0.2): 22% (5 of 23) FWS values exceeded fecal coliform standard (400) with a maximum of 930 between WY 1980 - 1985.		303(d) List	

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to West Fork Evans Creek	15B-EVAN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 259: severe, data (DEQ, 1988)	DEQ Data (Site 404051; RM 0.2): 45% (5 of 11) Summer values exceeded fecal coliform standard (400) with a maximum of 1200 between WY 1980 - 1985.		303(d) List	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data	DEQ Data (Site 404051; RM 0.2): 6% (1 of 18) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 7.5 between WY 1979 - 1985 (Cold water fishery, spawning approximately Apr - Sep).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - March 31	DEQ Data	DEQ Data (Site 404051; RM 0.2): 10% (2 of 20) October through July values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 9.6 between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct - Jul).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 259: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 259: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (Site 404051; RM 0.2): 0% (0 of 11) Summer values exceeded pH standard (6.5 - 8.5) between WY 1980 - 1985.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404051; RM 0.2): 4% (1 of 23) FWS values exceeded pH minimum standard (6.5 - 8.5) with a minimum of 6.2 between WY 1980 - 1985.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 259: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 259: severe, observation (DEQ, 1988)	BLM Data (Site above Sprignett Creek): 7 day moving average of daily maximums of 69.4 exceeded temperature standard (64) in 1994.		303(d) List	

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
West Fork Evans Creek to Headwaters	15B-EVAN19.2	Flow Modification			NPS Assessment - segment 260: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 260: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 260: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 260: moderate, observation (DEQ, 1988)	BLM Data (Site above Sprignett Creek): 7 day moving average of daily maximums of 69.4 exceeded temperature standard (64) in 1994.		303(d) List	
Evans Creek, West Fork Mouth to Headwaters	15B-EVWF0	Habitat Modification			NPS Assessment - segment 265: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 265: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM and ODFW Data; NPS Assessment - segment 265: severe, observation (DEQ, 1988)	ODFW Data (Site above Rock Cr) and BLM Data (Site near mouth): 7 day moving average of daily maximums of 72.4 and 75.5 with 59 and 76 days exceeding temperature standard (64) in 1994 respectively. 1995 ODFW data, 71.0°F, 1996 ODFW data, 71.9/63.8°F		303(d) List	
Fruitdale Creek Mouth to Headwaters	15B-FRUI0	Flow Modification			NPS Assessment - segment 255: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 255: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 255: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Galls Creek Mouth to Headwaters	15B-GALL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1997 data shows exceedence of temperature criteria, 75.6°F		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Griffin Creek Mouth to Headwaters		15B-GRIF0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 277: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Jackson County (1982); NPS Assessment - segments 277 & 278: moderate, data (DEQ, 1988)	4 Sites: 22% (4 of 18), 41% (7 of 17), 29% (2 of 7), and 33% (3 of 9) exceeded fecal coliform standard (400) with a maximum of 2800 in 1981 - 1982 (Jackson Co, 1882).	303(d) List	
			Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Jackson County (1982); NPS Assessment - segments 277 & 278: moderate, data (DEQ, 1988)	4 Sites: 75% (3 of 4), 75% (3 of 4), 100% (5 of 5), and 83% (5 of 6) exceeded fecal coliform standard (400) with a maximum of 5200 in 1981 - 1982 (Jackson Co, 1882).	303(d) List	
			Flow Modification			NPS Assessment - segment 277: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Nutrients			NPS Assessment - segment 277: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Sedimentation			NPS Assessment - segments 277 & 278: moderate, data (DEQ, 1988)	No supporting data or information	Need Data	
			Temperature	Rearing 64 F (17.8 C)	Summer	Bear Creek Temperature Study (ODFW, 1992); NPS Assessment - segments 277 & 278: moderate, data (DEQ, 1988)	ODFW Data (2 Sites: Lower, Near mouth and Upper): Monthly average maximums of nd/77/72/nd and 74/71/70/64 in July/August/September/October 1992 respectively using minimum/maximum thermometer.	303(d) List	
Hobart Creek Mouth to Headwaters		15B-HOBA0	Temperature	Rearing 64 F (17.8 C)	Summer	FOG Data	FOG Data (Sites above confluence with Tyler Creek): 7 day moving average of daily maximums of 68.6 with 34 days exceeded temperature standard (64) in 1996.	303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Horn Gulch Mouth to Headwaters	15B-HORG0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T39S,R1W,S14): 7 day moving average of daily maximums of 60.9 and 58.1 with 0 days exceeding temperature standard (64) in 1994 and 1995 respectively.	Did not meet listing criteria	OK		
Jackson Creek Mouth to Headwaters	15B-JACK0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); RVCOG (1990)	RVCOG Data: Annual average fecal coliform data ranging between 386 - 623 did not/did exceed fecal coliform standard (400) between 1988 - 1990 (RVCOG, 1990).		303(d) List		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October1 - March 31	DEQ Data		DEQ Data (Site 402802; RM 1.5): 17% (1 of 6) October through March values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 8.7 between 1988 - 1989 (Cold water fishery, spawning approximately Oct - Mar).	Did not meet listing criteria	OK	
		Nutrients				NPS Assessment - segment 275: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402802; RM 1.5): 0% (0 of 8) FWS values exceeded pH standard (6.5 - 8.5) between WY 1988 - 1995.	Did not meet listing criteria	OK	
		pH			Summer	DEQ Data	DEQ Data (Site 402802; RM 1.5): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 8.5) between WY 1988 - 1995.	Did not meet listing criteria	OK	
		pH			Summer	DEQ Data	DEQ Data (Site 402802; RM 1.5): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 8.5) between 1988 - 1994.	Did not meet listing criteria	OK	
		Sedimentation					NPS Assessment - segment 275: moderate, data (DEQ, 1988)		No supporting data or information	Need Data

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	15B-JACK0	Temperature	Rearing 64 F (17.8 C)	Summer	Bear Creek Temperature Study (ODFW, 1992); NPS Assessment - segment 275: moderate, observation (DEQ, 1988)	ODFW Data (3 Sites: Lower; Middle; Upper): Monthly average maximums of 68/70/69/61; 70//7069/62; 73/73/70/65 in July/August/September/October 1992 respectively using minimum/maximum thermometer.		303(d) List	
Jones Creek Mouth to Headwaters	15B-JONE0	Flow Modification			NPS Assessment - segment 257: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 257: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Larson Creek Mouth to Headwaters	15B-LARS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	USGS (1980); Jackson County (1982); RVCOG (1990)	RVCOG Data: Annual average fecal coliform data ranging between 439 - 707 exceeded fecal coliform standard (400) between 1988 - 1990 (RVCOG, 1990).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	Bear Creek Temperature Study (ODFW, 1992)	ODFW Data (Site near mouth): Monthly average maximums of 81, 80, 76, and 63 in July, August, September, and October 1992 respectively using minimum /maximum thermometer.		303(d) List	
Lazy Creek Mouth to Headwaters	15B-LAZY0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	RVCOG (1990)	RVCOG Data: Annual average fecal coliform data ranging between 803 - 1235 exceeded fecal coliform standard (400) between 1988 - 1990 (RVCOG, 1990).		303(d) List	
Lone Pine Creek Mouth to Headwaters	15B-LONE0	Temperature	Rearing 64 F (17.8 C)	Summer	Bear Creek Temperature Study (ODFW, 1992)	ODFW Data (2 Sites: Lower, near mouth and Upper): Monthly average maximums of 75, 76, 78, 70 and 73, 74, nd, nd in July, August, September, October 1992 respectively using minimum/maximum thermometer.		303(d) List	

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
May Creek Mouth to Headwaters	15B-MAY0	Flow Modification			NPS Assessment - segment 264: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 264: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 264: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Meyer Creek Mouth to Headwaters	15B-MEYE0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS (1980); Jackson County (1982); NPS Assessment - segment 282: moderate, data (DEQ, 1988)	4 Sites: 12% (2 of 16), 50% (4 of 8), 50% (4 of 8), and 75% (6 of 8) exceeded fecal coliform standard (400) with a maximum of 7300 in 1981 - 1982 (Jackson Co, 1882).		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS (1980); Jackson County (1982); NPS Assessment - segment 282: moderate, data (DEQ, 1988)	4 Sites: 43% (3 of 7), 83% (5 of 6), 83% (5 of 6), and 100% (7 of 7) exceeded fecal coliform standard (400) with a maximum of 8400 in 1981 - 1982 (Jackson Co, 1882).		303(d) List	
		Sedimentation			NPS Assessment - segment 282: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	Bear Creek Temperature Study (ODFW, 1992); NPS Assessment - segment 282: moderate, data (DEQ, 1988)	ODFW Data (Site near mouth): Monthly average maximums of 72 and 73 in July and August 1992 respectively using minimum/maximum thermometer.		303(d) List	
Neil Creek Mouth to Headwaters	15B-NEILO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	USGS (1980)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 284: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to I-5	15B-NEIL0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW and USFS Data	ODFW Data (Site T39S,R1E,S11): 7 day moving average of daily maximums of 72.2 with 77 days exceeding temperature standard (64) in 1994. 1997 (73.0°F).		303(d) List	Segment Modification
I-5 to headwaters	15B-NEIL5	Temperature	Rearing 64 F (17.8 C)		USFS data	No temperature exceedences, 7 day Ave. Max. 59.7°F	Did not meet listing criteria	OK	Removed (5)
Payne Creek									
Mouth to Headwaters	15B-PAYN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	RVCOG and DEQ Data; d1 in 305(b) Report (DEQ, 1994)	RVCOG Data: Annual average fecal coliform data ranging between 827 - 840 exceeded fecal coliform standard (400) between 1988 - 1990 (RVCOG, 1990).		303(d) List	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October1 - March 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404203; RM 1.0): 17% (1 of 7) October through March values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 10.4 between 1988 - 1989 (Cold water fishery, spawning approximately Oct - Mar).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404203; RM 1.0): 17% (1 of 6) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 6.8 mg/l between 1988 - 1989 (Cold water fishery, rearing approximately April - Sept).	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (site 404203, RM 0.1): 0% (0 of 7) FWS values exceeded pH standard (6.5 - 8.5) between WY 1988 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 404203; RM 0.1) 0% (0 of 5) Summer values exceeded pH standard (6.5 - 8.5) between 1988 - 1994.	Did not meet listing criteria	OK	
Pleasant Creek									
Mouth to Headwaters	15B-PLEA0	Flow Modification			NPS Assessment - segment 261: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	15B-PLEA0	Sedimentation			NPS Assessment - segment 261 & 262: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data				BLM Data: 7 day moving average of daily maximums of 75.2 with 76 days exceeding temperature standard (64) in 1994.
Ramsey Creek									
Mouth to Headwaters	15B-RAMS0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site near confluence with Evans Creek): 7 day moving average of daily maximums of 68.6/71.5/69.4°F for years 1995/1996/1997 all years exceeded temperature standard (64).	303(d) List	Addition	
Reeder Reservoir									
Reservoir	15B.REED	Sedimentation			Bear Watershed Assessment (USFS, 1995); NPS Assessment - segment 283: severe, data (DEQ, 1988)	Excessive Sedimentation requires periodic sluicing of Reeder Reservoir to provide storage for drinking water supply (1995 Bear Watershed Analysis, USFS, 1995).	303(d) List		
Rock Creek (West Fork Evans Ck)									
Mouth to Headwaters	15B-ROCK0	Sedimentation			NPS Assessment - segment 266: moderate, data (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM and ODFW Data				BLM Data (Site above Cold Creek): 7 day moving average of daily maximums of 71.9 with 36 days exceeding temperature standard (64) in 1994. ODFW 1995, 66.0°F.
Rogue River									
Applegate River to Evans Creek Need Data		15=-ROGU094.8 or Algae			Aquatic Weeds 368: moderate, observation (DEQ, 1988)	NPS Assessment - segment or information	No supporting data		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 368: moderate, data (DEQ, 1988)				DEQ Data (Site 402088; RM 86.6): 8% (4 of 48) FWS values exceeded fecal coliform standard (400) with a maximum value of 930 between WY 1986 - 1996.

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Applegate River to Evans Creek 86.6): 12%	303(d) List	15--ROGU094.8	Bacteria	Water Contact	Summer	DEQ Data		DEQ Data (Site 402088; RM		
			Recreation (fecal coliform-96 Std)				(3 of 26) Summer values exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 1986 - 1995.			
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data	DEQ Data (Site 402091; RM 117.3): 0% (0 of 38) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately April - Sept).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - March 31	DEQ Data	DEQ Data (Site 402091; RM 117.3): 0% (0 of 38) October through March values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct - Mar).	Did not meet listing criteria	OK		
		Flow Modification			NPS Assessment - segment 368: severe, data (DEQ, 1988)	No supporting data or information	Need Data			
		Nutrients			NPS Assessment - segment 368: moderate, data (DEQ, 1988)	No supporting data or information	Need Data			
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402091; RM 117.3): 0% (0 of 52) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		pH		Summer	DEQ Data	DEQ Data (Site 402091; RM 117.3): 0% (0 of 25) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Sedimentation			NPS Assessment - segment 368: severe, data (DEQ, 1988)	No supporting data or information	Need Data			
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data; NPS Assessment - segment 368: severe, data (DEQ, 1988)	USGS Data (Site at Raygold): 7 day moving average of daily maximums of 65.9/64.3/69.0/64.4/70.2 exceeded temperature standard (64) and 12 - 63 days were above standard in 1990/91/92/93/94 respectively.		303(d) List		

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Evans Creek to Little Butte Creek	15--ROGU110.8	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site at Raygold): 7 day moving average of daily maximums of 65.9/64.3/69.0/64.4/70.2 exceeded temperature standard (64) and 12 - 63 days were above standard in 1990/91/92/93/94 respectively.		303(d) List	
Salt Creek Mouth to Headwaters	15B-SALTO	Sedimentation			NPS Assessment - segment 267: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM and MWC Data	BLM Data (Site above Salt Creek Right Fork): 7 day moving average of daily maximums of 72.0 with 58 days exceeding temperature standard (64) in 1994. MWC site @Hwy 140 1995, 71.0°F and 1996, 73.7°F.		303(d) List	
Salt Creek, Right Fork Mouth to Headwaters	15B-SALRO	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T33S,R3W,S34): 7 day moving average of daily maximums of 71.9 with 67 days exceeding temperature standard (64) in 1994.		303(d) List	
Sams Creek Mouth to Headwaters	15B-SAMS	Flow Modification			NPS Assessment - segment 272: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 272: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 272: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sardine Creek Mouth to Forks	15B-SARD0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 271: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 271: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Forks	15B-SARD0	Nutrients			NPS Assessment - segment 271: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 271: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 271: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Savage Creek Mouth to headwaters	15B-SAVE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Data shows exceedence of temperature criteria, 65.7°F in 1996 and 64.7°F in 1997.		303(d) List	Addition
Sykes Creek Mouth to Headwaters	15B-SYKE0	Flow Modification			NPS Assessment - segment 263: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 263: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 263: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Tyler Creek Mouth to Headwaters	15B-TYLE0	Temperature	Rearing 64 F (17.8 C)	Summer	FOG Data	FOG Data (Sites above Hobart Creek): 7 day moving average of daily maximums of 68.6 with 34 days exceeded temperature standard (64) in 1996. 1997, 78.1°F		303(d) List	Addition
Vannoy Creek Mouth to Headwaters	15B-VANNO	Flow Modification			NPS Assessment - segment 253: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 253: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 253: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	15B-VANN0	Temperature			NPS Assessment - segment 253: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics			NPS Assessment - segment 253: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wagner Creek Mouth to Horn Gulch	15B-WAGN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	RVCOG (1990)	RVCOG Data: Annual average fecal coliform data ranging between 162 - 329 did not exceed fecal coliform standard (400) between 1988 - 1990 (RVCOG, 1990).	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; RVCOG(90); NPS Assessment - segments 280 & 281: moderate, data (DEQ, 88)	DEQ Data (Site 402810; RM 0.3): 0% (0 of 9) FWS values exceeded fecal coliform standard (400) between 1986 - 1994.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data, NPS Assessment - segment 280: severe, observation (DEQ, 1988)	DEQ Data (Site 402810; RM 0.3): 0% (0 of 5) Summer values exceeded chlorophyll a standard (15 ug/l) between 1986 - 1994.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402810, RM 3.0): 0% (0 of 7) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between 1988 - 1989 (Cold water fishery, rearing approximately April - Sept).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October1 - March 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402810, RM 3.0): 0% (0 of 7) October through March values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) between 1988 - 1991 (Cold water fishery, spawning approximately Oct - Mar).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segments 280 & 281: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 280: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Horn Gulch	15B-WAGN0	pH		Summer	DEQ Data	DEQ Data (Site 402810; RM 0.3): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 1994.	Did not meet listing criteria	OK		
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402810; RM 0.3): 0% (0 of 9) FWS values exceeded pH standard (6.5 - 8.5) between 1986 - 1994.	Did not meet listing criteria	OK		
		Sedimentation				NPS Assessment - segments 280 & 281: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ (1994); Bear Creek Temperature Study (1992); NPS Assessment - segments 280 & 281: moderate, data (DEQ, 1988) BLM data	DEQ Data : 7 day average of daily maximums were less than 64 and did not exceed temperature standard of 64 (Arnold, 1995).	Did not meet listing criteria	OK		
Horn Gulch to Headwaters	15B-WAGN6	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site above Horn Gulch): 7 day moving average of daily maximums of 66.3 and 59.8 did/did not exceed temperature standard (64) in 1994 and 1995 respectively. 1996, 64.3°F and 1997, 67.4°F . Three out of four years exceeded temperature criteria.		303(d) List	Addition	
Walker Creek (Ashland area)										
Mouth to Headwaters	15B-WALK0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 405: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Bacteria			NPS Assessment - segment 405: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients			NPS Assessment - segment 405: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	Bear Creek Temperature Study (ODFW, 1992)	ODFW Data (Site near mouth): Monthly average maximum of 71, 72, 69, and 66 in July, August, September, and October 1992 respectively using minimum/maximum thermometer.		303(d) List		

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Basin <i>Rogue</i>		Sub <i>Middle Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Walker Creek (Jackson drainage)									
Mouth to Headwaters	15B-WALJ0	Sedimentation			NPS Assessment - segment 276: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Ward Creek									
Mouth to Headwaters	15B-WARD0	Flow Modification			NPS Assessment: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Willow Creek									
Mouth to Headwaters	15B-WILLO	Sedimentation			NPS Assessment - segment 274: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Abbott Creek Mouth to Woodruff Creek	15A-ABBO0	Habitat Modification			Upper Rogue River Watershed Analysis (USFS, 1995)	Upper Rogue Watershed Analysis (USFS, 1995): suitable spawning areas, 40% LWD presently, warm temperatures, channels degraded - high priority for fish habitat restoration. USFS Data (Site T31S, R3E,S18): 7 day moving average of the daily maximums of 75.4 exceeded temperature standard (64) and approximately 74 days were above standard in 1994. USFS 1997 7 day Ave. max. 74.8		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data			303(d) List	
Agate Reservoir Reservoir	15A.AGAT	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 378: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 378: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 378: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Alder Creek Mouth to Headwaters	15A-ALDE0	Flow Modification			NPS Assessment - segment 310: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 310: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 310: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Antelope Creek Mouth to Headwaters	15A-ANTE0	Flow Modification			NPS Assessment- segments 291 & 292: moderate to severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	15A-ANTE0	Temperature	Rearing 64°F (17.8°C)	Summer	BLM Data; NPS Assessment-segments 291 & 292: moderate to severe, observation (DEQ, 1988), MWC data	BLM Data (Site above Burnt Canyon Creek): 7 day average of daily maximums of 76.5 exceeded temperature standard (64) in 1995. 4 MWC sites show temperature exceedences in 1995 and 1996 from mouth to Burnt Canyon (river mile 11)		303(d) List	
Above Burnt Canyon Creek to Headwaters	15A-ANTE11	Temperature	Rearing 64 F (17.8 C)	Summer	MWC data	No temperature exceedences, 7 day Ave. Max. 63.2°F		OK	Removed (5)
Big Ben Creek Mouth to headwaters	15A-BIGB0	Temperature	Rearing 64 F (17.8 C)		USFS data	No temperature exceedences, 7 day Ave. Max. 48.8°F		OK	Addition
Big Butte Creek Mouth to North/South Fork Confluence	15A-BUBI0	Flow Modification			NPS Assessment - segment 311: moderate, observation (DEQ, 1988)	No supporting data or information		Need Data	
		Sedimentation			NPS Assessment - segment 311: moderate, observation (DEQ, 1988)	No supporting data or information		Need Data	
Mouth to river mile 3		Temperature	Rearing 64 F (17.8 C)	Summer	USGS, MWC and BLM data	1996 data shows exceedence of temperature criteria, 67.4° at river mile 3. Previous years showed exceedences near McLeod (USGS): 7 day moving ave of the daily maxs of 74.3/69.9/68.0/69.7/71.2 with 47/63/83/56/83 days exceeding std in 90/91/92/93/94 respect.		303(d) List	Segment Modification
River mile 3 to headwaters	15A-BUBI3	Temperature	Rearing 64 F (17.8 C)	Summer	BLM, USGS and MWC data	1996 data from 6 sites shows 4 within temperature criteria (59.4 to 63.8°F) and 1 above at (64.4°F). Past data shows exceedences BLM Data (Site above Dog Cr): 7 day moving ave of the daily max of 64.9 exceeded temp standard (64) in 94. 1994 was a drought year.	Did not meet listing criteria	Potential Concern	Removed (5)

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name & Description	Waterbody Segment	Parameter	Criteria	Season						
Big Butte Creek, North Fork Mouth to Headwaters		15A-BUBN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data, NPS Assessment - segment 312: moderate, data (DEQ, 1988)	BLM Data (3 Sites: T35S,R2E,S3; Above Jackass Cr; Above Camp Cr): 7 day moving average of daily maximums ranging from 67.9 to 78.2 with 41 to 90 days exceeding temperature standard (64) in 1994.		303(d) List	
Big Butte Creek, South Fork Mouth to Headwaters		15A-BUBS0	Flow Modification			NPS Assessment - segment 426: severe, observation (DEQ, 1988)	No supporting data or information		Need Data	
			Temperature	Rearing 64 F (17.8 C)	Summer	BLM and MWC Data	BLM Data (Site T35S,R2E,S3): 7 day moving average of daily maximums of 55.0 with 0 days exceeding temperature standard (64) in 1994. MWC data 2 sites 1995, 59.0 and 60.0°F; 1996, 60.6 and 62.7°F. No temperature exceedences.	Did not meet listing criteria	OK	
Bitter Lick Creek Mouth to Headwaters		15A-BITT0	Sedimentation			NPS Assessment - segment 305: moderate, observation (DEQ, 1988)	No supporting data or information		Need Data	
			Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 305: moderate, observation (DEQ, 1988).	USFS Data (3 Sites): 7 day moving average of daily maximums from 62.7 and 67.2 did not/did exceed temperature standard (64) and approximately 0 and 24 days were above standard in 1993 and 1994 respectively. 1996 and 97 all three sites were above temperature criteria. Stream temperature could be considered natural conditions, forest canopy is intact and is in a roadless tract.		303(d) List	Addition
Browns Creek Mouth to headwaters		15A-BROW0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 59.1°F	Did not meet listing criteria	OK	Addition
Brush Creek Mouth to Headwaters		15A-BRUS0	Sedimentation			NPS Assessment - segment 308: moderate, observation (DEQ, 1988)	No supporting data or information		Need Data	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	15A-BRUS0	Temperature			NPS Assessment - segment 308: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Burnt Canyon Creek									
Mouth to Headwaters	15A-BURN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at confluence with Antelope Creek): 7 day average of daily maximums of 81.8 with 51 days exceeding temperature standard (64) in 1995. 1996 (79.3°F) 1997 (72.6°F)		303(d) List	Addition
Burnt Timber Creek									
Mouth to headwaters	15A-BURN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 63.6°F	Did not meet listing criteria	OK	Addition
Button Creek									
Mouth to Headwaters	15A-BUTT0	Sedimentation			NPS Assessment - segment 309: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 309: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Camp Creek									
Mouth to Headwaters	15A-CAMP0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T34S,R3E,S27): 7 day moving average of daily maximums of 62.3 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Castle Creek									
Mouth to Headwaters	15A-CAST0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T30S,R3E,S25): 7 day moving average of the daily maximums of 56.3 and 65.6 with 0 and 15 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Excursions above standard are a natural condition due to extensive pumice walls inside CLNP, riparian area is undisturbed; based on 12/95 judgment of Jon Brazier, Hydrologist Rogue NF	OK	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Clark Creek (@ Big Butte Creek)									
Mouth to North/South Fork	15A-CLAR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T34S,R2E,S7): 7 day moving average of the daily maximum of 68.9 with 15 days exceeding temperature standard (64) in 1994.		303(d) List	
Conde Creek									
Mouth to Headwaters	15A-CONDO	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T38S,R3E,S9, above irrigation diversion): 7 day moving average of daily maximums of 74 with 82 days exceeding temperature standard (64) in 1994.		303(d) List	
Dead Indian Creek									
Mouth to Headwaters	15A-DEAD0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM and USFS Data	USFS Data (Site near South Fork of Little Butte) and BLM Data (Site above Conde Creek): 7 day moving average of daily maximums of 68.8 - 72.5 with 31 - 56 days exceeding temperature standard (64) in 1994.		303(d) List	
Dead Indian Creek, West Fork									
Mouth to Headwaters	15A-DEWFO	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T38S,R3E,S21): 7 day moving average of daily maximums of 76.2 with 28 days exceeding temperature standard (64) in 1994.		303(d) List	
Deer Creek									
Mouth to Headwaters	15A-DEER0	Sedimentation			ODFW (1994)	Coho Salmon have been petitioned under the ESA, high percentage of fine sediment was measured in most reaches (ODFW, 1994).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; ODFW Data	BLM Data (Site T37S,R2E,S13): 7 day moving average of daily maximums of 66.6 exceeded temperature standard (64) in 1994; ODFW Data (Mouth and RM 1.5): 7 day average of daily maximums of less than 64 at both sites in 1995.	Did not meet listing criteria	Potential Concern List	
Dog Creek									
Mouth to Headwaters	15A-DOG0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T34S,R2E,S29): 7 day moving average of daily maximums of 74.2 with 75 days exceeding temperature standard (64) in 1994.		303(d) List	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Doubleday Creek Mouth to Headwaters	15A-DOUB0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T35S,R2E,S23): 7 day moving average of daily maximums of 58.8 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Elk Creek Mouth to Bitterlick Creek	15A-ELK0	Sedimentation			NPS Assessment - segment 298: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data; NPS Assessment - segment 298: moderate, data (DEQ, 1988)	USGS Data (3 Sites: Near Trail, Below Alco Cr, Near Cascade Gorge): 7 day moving average of daily maxs of 79.6 - 84.6 /78.8 - 82.0/78.0 - 87.0/69.7 - 77.3/78.3 - 85.1 with 25 - 161days exceeding temperature standard (64) in 1990/91/92/93/94 respectively.		303(d) List	
Bitterlick Creek to Headwaters	15A-ELK12.7	Sedimentation			NPS Assessment - segment 307: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 307: moderate, observation (DEQ, 1988)	USFS (Site T31S,R2E,S32) Data: 7 day moving average of daily maximums of 60.4 and 62.9 with 0 and 1 days exceeding temperature standard (64) in 1993 and 1994.	Did not meet listing criteria	OK	
Elk Creek, West Branch Mouth to Headwaters	15A-ELWB0	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data; NPS Assessment - segment 300: moderate, data (DEQ, 1988)	USGS Data (Site near Trail): 7 day moving average of daily maximums of 74.4/70.9/73.1/68.8/77.4 with 55/70/98/31/97 days exceeding temperature standard (64) in 1990/91/92/93/94 respectively.		303(d) List	
Elkhorn Creek Mouth to Headwaters	15A-ELKH0	Sedimentation			NPS Assessment - segment 303: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 303: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Fish Lake Reservoir	15A.FISH	Chlorophyll a		Summer	Salinas (1994)	Salinas (5/94): Average chlorophyll a values at the surface near the dam of 24.4 (range of 16.2 - 35.3) exceeded the chlorophyll a standard (15 ug/l) in July - September 1993.		303(d) List	
		pH		Summer	Salinas (1994)				
Flat Creek (Elk drainage) Mouth to Headwaters	15A-FLAT0	Flow Modification			NPS Assessment - segment 301: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 301: moderate, observation (DEQ, 1988)				
		Temperature			NPS Assessment - segment 301: moderate, observation (DEQ, 1988)				
Flat Creek (Rogue drainage) Mouth to Headwaters	15A-FLAR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Temperature data 7 day Ave. Max 67.7°F, exceeded 64°F, 32 times in 1997, 1996 (68.7°F)		303(d) List	Addition
Foster Creek Mouth to Wiley Creek	15A-FOST0	Habitat Modification			Upper Rogue River Watershed Analysis (USFS, 1995)	Upper Rogue Watershed Analysis (USFS, 1995): low LWD in channels, high temperatures, wide channels and bare pumice banks have been identified as problems.		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data				

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Fourbit Creek Mouth to Headwaters	15A-FOUR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T35S,R4E,S20): 7 day moving average of daily maximums of 57.2 and 64.8 with 0 and 12 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
Ginger Creek Mouth to Headwaters	15A-GING0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T35S,R2E,S23): 7 day moving average of daily maximums of 60.1 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Ginkgo Creek Mouth to Headwaters	15A-GINK0	Temperature	Rearing 64 F (17.8 C)		USFS data	No temperature exceedences, 7 day Ave. Max. 54.8°F		OK	Addition
Hawk Creek Mouth to Timber Creek	15A-HAWK0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site above Sugarpine Creek): 7 day moving average of daily maximums of 71.5 with 51 days exceeding temperature standard (64) in 1994. Boise Cascade data shows creek meets temperature criteria above Timber Creek.		303(d) List	Segment Modification
Timber Creek to Headwaters	15A-HAWK2	Temperature	Rearing 64 F (17.8 C)	Summer	Boise Cascade data	Boise Cascade data shows creek meets temperature criteria above Timber Creek. 1997 (61.2°F)	Did not meet listing criteria	OK	Removed (5)
Hukill Creek Mouth to Headwaters	15A-HUKI0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T35S,R2E,S15): 7 day moving average of daily maximums of 65.7 and 63.1 with 11 days (in 1994) exceeding temperature standard (64) in 1994 and 1995 respectively.	Did not meet listing criteria	Potential Concern List	
Hungry Creek Mouth to Headwaters	15A-HUNG0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T33S,R1W,S12): 7 day moving average of daily maximums of 63.4 with 2 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>		Sub			<i>Upper Rogue</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Imnaha Creek Mouth to Headwaters	15A-IMNA0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T33S,R4E,S17): 7 day moving average of daily maximums of 54.6 and 56.8 with 0 and 0 days exceeding temperature standard (64) in 1993 and 1994 respectively. 1995 (55.0°F)	Did not meet listing criteria	OK		
Indian Creek Mouth to Headwaters	15A-INDI0	Flow Modification			NPS Assessment - segment 293: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature			NPS Assessment - segment 293: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Jackass Creek Mouth to Headwaters	15A-JACK0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T34S,R3E,S33): 7 day moving average of daily maximums of 71.3 with 51 days exceeding temperature standard (64) in 1994.		303(d) List		
Lake Creek Mouth to Headwaters	15A-LAKE0	Habitat Modification			ODFW (1994)	Coho Salmon have been petitioned under the ESA, low volumes of wood and lack of water were measured in most reaches (ODFW, 1994).		303(d) List		
		Sedimentation			ODFW (1994)	Coho Salmon have been petitioned under the ESA, high percentage of fine sediment was measured in most reaches (ODFW, 1994).		303(d) List		
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM and MWC Data	BLM Data (Sites at confluence with Little Butte Creek): 7 day moving average of daily maximums of 74.1 with 90 days exceeding temperature standard (64) in 1995. 1996 (72.6°F)		303(d) List	Addition	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Little Butte Creek Mouth to North/South Fork Confluence	15A-BULI0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 287: severe, data (DEQ, 1988)	DEQ Data (3 Sites: 402279, 404205, 404204; RM 1.4 - 16.6): 48% (24 of 50), 27% (3 of 11), 40% (4 of 10) Summer values exceeded fecal coliform standard (400) with maximum values of 2400, 1100, 1100 respectively between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 287: severe, data (DEQ, 1988)	DEQ Data (Site 402279; RM 1.4): 92% (22 of 24) Summer values exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402279; RM 1.4): 0% (0 of 25) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - May 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 287: moderate, data (DEQ, 1988)	DEQ Data (Site 402279; RM 1.4): 10% (3 of 38) October through March values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 10.3 mg/l between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct-Mar).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 287: moderate, data (DEQ, 1988)	DEQ Data (Site 402279; RM 1.4): 8% (3 of 37) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 6.4 mg/l between WY 1986 - 1995 (Cold water fishery, rearing approximately April - Sept).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segments 287 & 288: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 287: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 287: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to North/South Fork Confluence	15A-BULI0	pH		Summer	DEQ Data	DEQ Data (Site 402279; RM 1.4): 0% (0 of 25) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (3 Sites: 402279, 404205, 404204; RM 1.4 - 16.6): 0% (0 of 52, 15), 14% (2 of 14) Summer values respectively exceeded pH maximum standard (6.5 - 8.5) with a value of 8.7 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			ODFW (1994); NPS Assessment - segments 287 & 288: moderate, observation (DEQ, 1988)	ODFW Data (1994): Excess fines were measured in 7 of 11 reaches.		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS and BLM Data; NPS Assessment - segments 287 & 288: moderate, observation (DEQ, 1988) and MWC data.	USFS Data (Site T37S,R2E,S20) and BLM Data (Site @ Eagle Pt): 7 day moving average of daily maximums of 74.2 - 82.3 with 95 - 101 days exceeding temperature standard (64) in 1994; DEQ Data also available. MWC data 5 sites in 1995 and 1996 range from 77.0°F to 83.1°F		303(d) List	
Little Butte Creek, North Fork									
Mouth to Heppsie Mtn. Rd.	15A-BULN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Sites near mouth - T36S,R2E,S20): 7 day moving average of daily maximums of 72.5 with 85 days exceeding temperature standard (64) in 1994. 1995, 72.5°F; 1996, 63.9°F.		303(d) List	
Heppsie Mtn Rd to Headwaters	15A-BULN5	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Sites at Heppsie Mt. Bridge - T36S,R3E,S31): 7 day moving average of daily maximums of 67.9 and 60.2 with 31 and 0 days exceeding temperature standard (64) in 1994 and 1995 respectively. 1996, 63.9°F; 1997, 62.2°F. and USFS boundary 1993, 62.3°F; 1997, 61.3°F.	Did not meet listing criteria	OK	Removed (5)

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Little Butte Creek, South Fork									
Mouth to Beaver Dam Creek	15A-BULS0	Flow Modification			ODFW (1994); USGS (1990); IWR (ODFW); NPS Assessment - segments 289 & 290: moderate, data (DEQ, 1988)	Coho have severely depressed populations and have been designated as a sensitive species, low flows due to water withdrawals have been identified as one of the limiting factors (ODFW, 93); IWR (071008) are often not met at USGS gage 14341500.		303(d) List	
		Habitat Modification			ODFW 1990 Surveys	Coho Salmon have been petitioned under the ESA, low volumes of wood were measured in lower reaches (ODFW, 1994).		303(d) List	
		Sedimentation			ODFW (1994); NPS Assessment - segment 289: moderate, observation (DEQ, 1988)	Coho Salmon have been petitioned under the ESA, high percentage of fine sediment was measured in most reaches (ODFW, 1994).		303(d) List	
Mouth to Grizzly Creek RM 11		Temperature	Rearing 64 F (17.8 C)	Summer	USFS, ODFW and BLM Data; NPS Assessment - segment 289: moderate, observation (DEQ, 1988)	USFS, ODFW and BLM Data (11 Sites): 7 day moving average of daily maximums of 65.6 - 80.4 with 33 - 112 days exceeding temperature standard (64) in 1994. 1995, 67.0 and 68.0 °F; 1996 (3 sites), 70.7 to 75.4°F; 1997 USFS (5 sites) Temperature data 7 day Ave. Max 67.3°F, exceeded 64°F, 44 times		303(d) List	Segment Modification
Grizzly Creek RM 11 to headwaters	15A-BULS11	Temperature	Rearing 64 F (17.8 C)		USFS data	USFS Data (3 Sites: Headwaters, Camp Latgawa, T37S,R4E,S20): 7 day moving average of daily maximums of 38.6 - 64 with 0 - 15 days exceeding temperature standard (64) in 1993 and 1994. USFS 1997 data (6 sites) No temperature exceedences, 7 day Ave. Max. 63.6°F		OK	Segment Modification
Lost Creek (Little Butte drainage)									
Mouth to Headwaters	15A-LOSL0	Sedimentation			ODFW (1994)	Coho Salmon have been petitioned under the ESA, high percentage of fine sediment was measured in most reaches (ODFW, 1994).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T37S,R2E,S9): 7 day moving average of daily maximums of 64.8 with 15 days exceeding temperature standard (64) in 1995; 1996, 70.7°F respectively.		303(d) List	Addition

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Morine Creek Mouth to Headwaters	15A-MORI0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data, 1994	BLM Data (Site T33S,R1W,S12): 7 day moving average of daily maximums of 63.5 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Muir Creek Mouth to Headwaters	15A-MUIR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site T29S,R4E,S16): 7 day moving average of daily maximums of 56.3 and 59.1 with 0 and 0 days exceeding temperature standard (64) in 1993 and 1994 respectively. 1995, 57.0°F; 1996, 56.9°F; 1997 three sites, 55.1, 48.3, 65.2°F.	Did not meet listing criteria	OK	
Muir Creek, East Fork Mouth to Headwaters	15A-MUEF0	Temperature	Rearing 64 F (17.8 C)		USFS data	No temperature exceedences, 7 day Ave. Max. 48.3°F		OK	Addition
Muir Creek, West Fork Mouth to Headwaters	15A-MUWF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Temperature data 7 day Ave. Max 64.5°F, exceeded 64°F, 13 times		303(d) List	Addition
Mule Creek Mouth to Headwaters	15A-MULE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T34S,R3E,S21): 7 day moving average of daily maximums of 66.7 and 61.6 with 20 and days exceeding standard (64) in 1994 and 1995 respectively.	Did not meet listing criteria	Potential Concern List	
Rancheria Creek Mouth to Headwaters	15A-RANC0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T35S,R3E,S2): 7 day moving average of daily maximums of 63.1 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Red Blanket Creek Mouth to Headwaters	15A-REDB0	Temperature	Rearing 64 F (17.8 C)		USFS Data	No temperature exceedences, 7 day Ave. Max. 1996, 55.5°F; 1997, 58.1°F		OK	Addition
Rogue River Evans Creek to Little Butte Creek	15--ROGU110.8	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402091; RM 117.3): 8% (2 of 24) Summer values exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Evans Creek to Little Butte Creek	15--ROGU110.8	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 366: moderate, data (DEQ, 1988)	DEQ Data (Site 402091; RM 117.3): 11% (5 of 46) FWS values exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 1986 - 1995.		303(d) List	Addition
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402091; RM 117.3): 0% (0 of 25) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October1 - March 31	DEQ Data	DEQ Data (Site 402091; RM 117.3): 0% (0 of 38) October through March values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct - Mar).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data	DEQ Data (Site 402091; RM 117.3): 0% (0 of 38) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY1986 - 1995 (Cold water fishery, rearing approximately April - Sept).	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402091; RM 117.3): 0% (0 of 52) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402091; RM 117.3): 0% (0 of 25) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Little Butte Creek to Lost Creek Reservoir	15--ROGU132	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Water Contact Spring	Fall-Winter-	DEQ Data (0 of 49) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	DEQ Data (Site 402093; RM 138.4): 0% criteria
Bacteria	Water Contact Recreation (fecal coliform-96 Std)			Summer	DEQ Data	DEQ Data (Site 402093; RM 138.4): 0% (0 of 25) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Little Butte Creek to Lost Creek meet listing Reservoir	OK	15=-ROGU132		Chlorophyll a	Summer	DEQ Data	DEQ Data (Site 402093; RM 138.4): 0% criteria		Did not
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data	DEQ Data (Site 402091; RM 117.3): 0% (0 of 38) April through September values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately April - Sept).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - March 31	DEQ Data	DEQ Data (Site 402093; RM 138.4): 0% (0 of 38) October through March values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1986 - 1995 (Cold water fishery, spawning approximately Oct - Mar).	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402093; RM 138.4): 8% (2 of 25) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402093; RM 138.4): 2% (1 of 52) FWS values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (3 Sites: McLeod, Trail, & Dodge Bridge): 7 day moving average of daily maximums of 55.3 - 64.0/56.6 - 64.3/56.4 - 69.3/57.2 - 62/59.9 - 67.4 with 0 - 39 days exceeding temperature standard (64) in 1990/91/92/93/94 respectively. 1991, 1992 and 1994 data were not used because they were drought years and two years of non drought year data were available which were below the temperature criteria.	Did not meet listing criteria	OK	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Lost Creek Reservoir to Headwaters	15--ROGU167.3	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site below Prospect): 7 day moving average of daily maximums of 60.0/59.5/59.1/53.9 met temperature standard (64) and 0 days annually were above standard in 1990/91/92/93 respectively.	Did not meet listing criteria	OK	
Rogue River, South Fork Mouth to Headwaters	15A-ROSF0	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data; USFS Data	USGS Data (Site south of Prospect) 62.9/60.5/62.7°F in 1990/91/92 and USFS Data (Site T33S,R4E,S7): 7 day moving average of daily maximums temperatures of 53.4/57.4/53.0/54.0/53.5 for 1993 through 1997. No temperature exceedences.	Did not meet listing criteria	OK	
Soda Creek Mouth to Headwaters	15A-SODA0	Sedimentation			ODFW (1994)	Coho Salmon have been petitioned under the ESA, high percentage of fine sediment was measured in most reaches (ODFW, 1994).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM and ODFW Data	BLM Data (Site T37S,R3E,S18): 7 day moving average of daily maximums of 68.9 and 63.6 did/did not exceed temperature standard (64) in 1994 and 1995. 1996, 68.4°F and 1997, 65.9°F both exceeded temperature criteria. Site at RM 5 1995, 64.0°F.		303(d) List	Addition
Sugarpine Creek Mouth to Headwaters	15A-SUGA0	Sedimentation			NPS Assessment - segment 302: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 302: moderate, observation (DEQ, 1988)	BLM Data (Site above Hawk Creek): 7 day moving average of daily maximums of 69.3 with 36 days exceeding temperature standard (64) in 1994.		303(d) List	
Swanson Creek Mouth to Headwaters	15A-SWAN0	Sedimentation			NPS Assessment - segment 306: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	15A-SWAN0	Temperature			NPS Assessment - segment 306: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Thousand Springs Creek									
Mouth to Headwaters	15A-THOU0	Temperature	Rearing 64 F (17.8 C)	Summer	Crater Lake National Park Data	Crater Lake National Park Data (Site T31S,R4E,S12): 7 day moving average of daily maximums of 41.7 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Timber Creek									
Mouth to Headwaters	15A-TIMB	Sedimentation			NPS Assessment - segment 304: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 304: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Trail Creek									
Mouth to Headwaters	15A-TRAI0	Flow Modification			NPS Assessment - segment 294: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 294: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 294: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
	15A-TRAI6	Sedimentation			NPS Assessment - segment 295: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Trail Creek, West Fork									
Mouth to Headwaters	15A-TRWF0	Flow Modification			NPS Assessment - segment 296: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 296 & 299: moderate-severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segments 296 & 299: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Rogue</i>		Sub			<i>Upper Rogue</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Twincheria Creek										
Mouth to RM 3 below Misfit Creek	15A-TWIN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Site T35S,R3E,S1: 1994, 69.1°F exceeded temperature standard 38 times.		303(d) List	Segment Modification	
RM 3 below Misfit Creek to Headwaters	15A-TWIN3	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (@ Lower BLM line): 7 day moving average of daily maximums 1994, 59.0; 1995, 58.9; 1996, 61.6 and 1997,59.9 °F 0 days exceeding temperature standard (64).	Did not meet listing criteria	OK	Removed (5)	
Wall Creek										
Mouth to Headwaters	15A-WALL0	Sedimentation			NPS Assessment - segment 297: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Willow Creek										
Mouth to Willow Creek Reservoir	15A-WILL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS and MWC data	USFS temperature data 7 day Ave. Max 76.1°F, exceeded 64°F, 48 times in 1997. MWC data at Willow Creek dam 1995, 64.0; 1996, 62.1°F. At mouth 1996, 72.9°F		303(d) List	Addition	
Willow Creek Reservoir										
Reservoir	15A.WILL	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 400: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 400: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 400: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Woodruff Creek										
Mouth to Headwaters	15A-WOOD0	Habitat Modification			Upper Rogue River Watershed Analysis (USFS, 1995)	Upper Rogue Watershed Analysis (USFS, 1995): low LWD in channels, high temperatures, few pools - high priority for fish habitat restoration.		303(d) List		

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Basin <i>Rogue</i>		Sub <i>Upper Rogue</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	15A-WOOD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data: 7 day moving average of daily maximums of 67.8 with 19 days exceeding temperature standard (64) in 1993. 1994, 75.4°F		303(d) List	

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Basin <i>Sandy</i>		Sub <i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Alder Creek Mouth to Headwaters	23A-ALDE0	Flow Modification			WRD Data		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: 09D101 below FSR 2609-132 and 09D100 between FSR 3626-038 and FSR 3626-107): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) at both sites in 1991.	Did not meet listing criteria	OK	
Bear Creek Mouth to Headwaters	23A-BEAR0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 14138990, near Bull Run): 0% (0 of 68) Summer values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS Data	USGS Data (Site 14138990, near Bull Run): 0% (0 of 150) FWS values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Summer	USGS Data	USGS Data (Site 14138990, near Bull Run): 0% (0 of 68) of FWS values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USGS Data	USGS Data (Site 14138990, near Bull Run): 0% (0 of 153) FWS values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	

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Basin <i>Sandy</i>		Sub <i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Beaver Creek Mouth to Headwaters	22A-BEAV0	Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Chromium, Copper, Manganese, Nickel and Zinc were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Sandy</i>	Sub	<i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22A-BEAV0	Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Benzo(A)anthracene, Benzo(GHI)perylene, Benzo(K)fluoranthene, Benzo(A)pyrene, Bis(2Ethylhexyl)phthalate, Chrysene, Fluoranthene, Phenol and Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Benzo(B)fluoranthene, Butylbenzylphthalate, Dibenzothiophene, Di-n-butylphthalate, Indeno123-cdpyrene, p-Cresol and Phenan were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations. No other PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	p,p'DDD, p,p'DDE, p,p' DDT and Dieldrin were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity. Cis-chlordane, Cis-nonachlor, Heptachlorepoxide, Trans-chlordane and trans-nonachlor were found, however, there are no well established guidelines available for evaluating risks for sediment, nor have there been any beneficial use impairment evaluations. No other pesticides were detected in the sediment.	Did not meet listing criteria	OK	Addition

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Basin <i>Sandy</i>		Sub <i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	23A-BEAV0	Bacteria			NPS Assessment - segment 36: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 36: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 36: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 36: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 36: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Bull Run River									
Mouth to Bull Run Reservoir 1	23A-BULL0	Flow Modification			S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segments 38 and 39: moderate, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Bull Run Reservoir 2		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximum of 67.6/65.1/68.9°F exceeded temperature standard in 1994/95/96 respectively.		303(d) List	Addition
Bull Run Reservoir 2 to Bull Run Lake	23A-BULL14.5	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 14138850, near Multnomah Falls): 0% (0 of 67) Summer values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS Data	USGS Data (Site 14138850, near Multnomah Falls): 0% (0 of 144) FWS values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Summer	USGS Data	USGS Data (Site 14138850, near Multnomah Falls): 0% (0 of 67) Summer values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	

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Basin <i>Sandy</i>		Sub <i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bull Run Reservoir 2 to Bull Run Lake	23A-BULL14.5	pH		Fall-Winter-Spring	USGS Data	USGS Data (Site 14138850, near Multnomah Falls): 0% (0 of 146) FWS values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site near Multnomah Falls): 7 day average of daily maximum of 62.1/60.7/63.5/60.8/62.7 with 0/0/4/0/1 days exceeding standard in 1990/91/92/93/94 respectively.	Did not meet listing criteria	OK	
Bull Run River, North Fork									
Mouth to Headwaters	23A-BUNF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 14138900, near Multnomah Falls): 0% (0 of 68) Summer values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS Data	USGS Data (Site 14138900, near Multnomah Falls): 0% (0 of 149) FWS values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Summer	USGS Data	USGS Data (Site 14138900, near Multnomah Falls): 0% (0 of 87) Summer values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USGS Data	USGS Data (Site 14138900, near Multnomah Falls): 0% (0 of 160) FWS values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site near Multnomah Falls): 7 day average of daily maximums of 55.4/56.7/53.1/56.9 with 0/0/0/0 days exceeding temperature standard (64) in 1991/92/93/94 respectively.	Did not meet listing criteria	OK	
Bull Run River, South Fork									
Mouth to Headwaters	23A-BUSF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 14139800, near Bull Run): 0% (0 of 68) Summer values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	

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Basin <i>Sandy</i>	Sub	<i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	23A-BUSF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS Data	USGS Data (Site 14139800, near Bull Run): 0% (0 of 144) FWS values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Summer	USGS Data	USGS Data (Site 14139800, near Bull Run): 0% (0 of 84) Summer values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USGS Data	USGS Data (Site 14139800, near Bull Run): 0% (0 of 158) FWS values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site at Bull Run): 7 day average of daily maximums of 60/60.2/63.5/57.2/61.7 with 0/0/4/0/0 days exceeding temperature standard in 1990/91/92/93/94 respectively.	Did not meet listing criteria	OK	
Camp Creek Mouth to Headwaters	23A-CAMP0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 14139600, near Bull Run): 0% (0 of 69) Summer values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		Bacteria		Fall-Winter-Spring	USGS Data	USGS Data (Site 14139600, near Bull Run): 0% (0 of 143) FWS values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		Habitat Modification				NPS Assessment - segment 407: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		pH		Summer	USGS Data	USGS Data (Site 14139600, near Bull Run): 0% (0 of 69) Summer values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USGS Data	USGS Data (Site 14139600, near Bull Run): 0% (0 of 148) FWS values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	

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Basin <i>Sandy</i>		Sub <i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	23A-CAMP0	Sedimentation			NPS Assessment - segment 407: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cedar Creek									
Mouth to Headwaters	23A-CEDA0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 414: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 02C100 near FSR 2609-100): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1991.	Did not meet listing criteria	OK	
Chance Creek									
Mouth to Headwaters	23A-CHAN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: 03K004 at confluence with Clear Fk and 03K001 near FSR 1828-118): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) at both sites in 1992.	Did not meet listing criteria	OK	
Clear Creek									
Mouth to Headwaters	23A-CLEA0	Habitat Modification			NPS Assessment - segment 53: moderate, data (DEQ, 1988), IWR (ODFW)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 53: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cougar Creek									
Mouth to Headwaters	23A-COUG0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 14138960, near Bull Run): 0% (0 of 68) Summer values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS Data	USGS Data (Site 14138960, near Bull Run): 0% (0 of 148) FWS values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	

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Basin <i>Sandy</i>		Sub <i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	23A-COUG0	pH		Fall-Winter-Spring	USGS Data	USGS Data (Site 14138960, near Bull Run): 0% (0 of 82) Summer values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Summer	USGS Data	USGS Data (Site 14138960, near Bull Run): 0% (0 of 82) Summer values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
Deer Creek Mouth to Headwaters	23A-DEER0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 14138950, near Bull Run): 0% (0 of 68) Summer values exceeded fecal coliform standard (400) between 1980 - 1883.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS Data	USGS Data (Site 14138950, near Bull Run): 0% (0 of 149) FWS values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USGS Data	USGS Data (Site 14138950, near Bull Run): 0% (0 of 152) FWS values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Summer	USGS Data	USGS Data (Site 14138950, near Bull Run): 0% (0 of 68) Summer values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
Fir Creek Mouth to headwaters	22A-FIR0	Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition

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Basin <i>Sandy</i>	Sub	<i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	23A-FIR0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 14138870, near Brightwood): 0% (0 of 69) Summer values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS Data	USGS Data (Site 14138870, near Brightwood): 0% (0 of 141) FWS values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USGS Data	USGS Data (Site 14138870, near Brightwood): 0% (0 of 156) FWS values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Summer	USGS Data	USGS Data (Site 14138870, near Brightwood): 0% (0 of 85) Summer values exceeded pH (6.5 to 8.5) between 1980 -1983.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site near Brightwood): 7 day average of daily maximums of 57.1/57.1/59.5/53.6/54.8 with 0/0/0/0 days exceeding temperature standard (64) in 1990/91/92/93/94 respectively.	Did not meet listing criteria	OK	
Fivemile Creek Mouth to Headwaters	23A-FIVE0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 14139510, near Bull Run): 0% (0 of 59) Summer values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS Data	USGS Data (Site 14139510, near Bull Run): 0% (0 of 147) FWS values exceeded fecal coliform standard (400) between 1980 - 1983.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USGS Data	USGS Data (Site 14139510, near Bull Run): 0% (0 of 148) FWS values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	

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Basin <i>Sandy</i>		Sub <i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	23A-FIVE0	pH		Summer	USGS Data	USGS Data (Site 14139510, near Bull Run): 0% (0 of 59) Summer values exceeded pH (6.5 to 8.5) between 1980 - 1983.	Did not meet listing criteria	OK	
Ghost Creek Mouth to Headwaters	23A-GHOS0	Sedimentation			NPS Assessment - segment 420: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Henry Creek Mouth to Headwaters	23A-HENR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 04H600 across from Cabin 10, near mouth): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1991.	Did not meet listing criteria	OK	
Kelly Creek Mouth to Headwaters	23A-KELLO	Bacteria			NPS Assessment - segment 37: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 37: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 37: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 37: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Linney Creek Mouth to Headwaters	23A-LINNO	Habitat Modification			NPS Assessment - segment 412: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 412: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Little Sandy Creek Mouth to Little Sandy Dam	23A-SALI0	Flow Modification			NPS Assessment - segment 35: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Sandy</i>		Sub <i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Little Sandy River Little Sandy Dam to Headwaters	23A-LSAN2	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 27B085 at FSR 2503 HP Turn): 7 day average of daily maximums of less than 64 with 0/23 days exceeding temperature standard (64) in 1991/1992 respectively.	Did not meet listing criteria	OK	Segment Modification
Lost Creek Mouth to Headwaters	23A-LOST0	Habitat Modification			NPS Assessment - segment 406: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 406: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Mud Creek Mouth to Headwaters	23A-MUD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site 05L025 near FSR 2656-309): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1991.	Did not meet listing criteria	OK	
Salmon River Mouth to Headwaters	23A-SALM0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)		BLM data	Five BLM sites: 1991 to 1996 all fecal coliform counts below standard of (400) highest values occur in July at 332.	Did not meet listing criteria	OK	Addition
		Habitat Modification			NPS Assessment - segment 410: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			BLM data	Five BLM sites: 4% (3 of 68) measurements were below the pH standard of 6.5 to 8.5.	Did not meet listing criteria	OK	Addition
		Sedimentation			NPS Assessment - segment 410: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Boulder Creek		Temperature	Rearing 64 F (17.8 C)	Summer	Salmon River Watershed Analysis (USFS, 1995): BLM data	BLM site at mouth in 1993, 7 day ave. max. temperature was 63.5°F; in 1994 was 68°F; in 1995 was 59.9°F; in 1996 was 67.1°F. Two exceedences at mouth one during a drought year 1994.		303(d) List	Addition

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Basin <i>Sandy</i>		Sub <i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Boulder Creek to Headwaters	23A-SALM1	Temperature	Rearing 64 F (17.8 C)	Summer	Salmon River Watershed Analysis (USFS, 1995): BLM data	USFS Data (5 Sites): All values, except 1, measured between 1991 - 1994 were less than temperature standard (64) with a maximum of 64.4 (Salmon R Watershed Analysis, USFS, 1995). BLM site at RM 10 in 1993, 7 day ave. max. temperature was 55.0; in 1994 was 61.3°F; in 1995 was 59°F; in 1996 was 59.5°F.	Did not meet listing criteria	OK	Status Modification
Salmon River, South Fork									
Mouth to Headwaters	23A-SASF0	Habitat Modification			NPS Assessment - segment 411: moderate, observation (DEQ, 1988), IWR (ODFW)		No supporting data or information	Need Data	
Sandy River									
Mouth to Marmot Dam	23A-SAND0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402351; RM 3.1): 0% (0 of 54) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995. BLM data also available 1991 to 1996 high value 113 no exceedences of Fecal Coliform bacteria standard.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402351; RM 3.1): 0% (0 of 30) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402351; RM 3.1): 0% (0 of 31) Summer values exceeded chlorophyll standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - June 30	DEQ Data	DEQ Data (Site 402351; RM 3.1): 6% (4 of 71) September through June values exceeded dissolved oxygen standard for spawning (11.0 or 95% saturation) between WY 1986 - 1995 (Cold water fishery, spawning approximately September - June).	Did not meet listing criteria	OK	

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Basin <i>Sandy</i>	Sub	<i>Lower Columbia / Sandy</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Marmot Dam	23A-SAND0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	July 1 - August 31	DEQ Data	DEQ Data (Site 402351; RM 3.1): 0% (0 of 14) July through August values exceeded dissolved oxygen standard for rearing (8.0 or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately July - August).	Did not meet listing criteria	OK		
		Flow Modification				S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 32: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Habitat Modification				S & S Plan (ODFW, 1990); WRD Data; NPS Assessment - segment 32: severe, observation (DEQ, 1988)	No supporting data or information	Need Data		
		pH			Summer	DEQ Data	DEQ Data (Site 402351; RM 3.1): 3% (1 of 33) Summer values exceeded pH standard (6.5 - 8.5) with a maximum of 8.6 between WY 1986 - 1995. BLM data also available 1991 to 1996.	Did not meet listing criteria	OK	
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402351; RM 3.1): 2% (1 of 54) FWS values exceeded pH standard (6.5 - 8.5) with a minimum of 6.4 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation					NPS Assessment - segment 32: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)		Summer	DEQ Data (Temperature Issue Paper, 1994)	DEQ Data (Site 402351; RM 3.1): 35% (12 of 34) Summer values exceeded temperature standard (64) with a maximum of 77 and exceedences measured in 1986 - 1992 and 1994 between WY 1986 - 1995. Three BLM sites Below Bull Run River, RM 6, RM19 for year 1993 7 day ave. max temperatures were 69.4/68.9/nd; 1994 were 72.5/73.4/75.2°F; in 1995 were 68.9/71.2/73.4°F; in 1996 were 68.0/66.7/71.6°F; all years all sites exceeded temperature standard (64°F).		303(d) List	
Marmot Dam to Headwaters	23A-SAND30	Flow Modification			NPS Assessment - segment 32: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		

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Basin <i>Sandy</i>		Sub <i>Lower Columbia / Sandy</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Marmot Dam to Headwaters	23A-SAND30	Habitat Modification			NPS Assessment - segment 32: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 32: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sandy River, Clear Fork Mouth to Headwaters	23A-SACF0	Habitat Modification			NPS Assessment - segment 34: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 34: moderate, data (DEQ, 1988)	USFS Data (3 Sites: 03K002 at confluence with Chance Cr, 03K020 above FSR 1828 Br, 03K061 S Lolo Pass FSR 1828-118): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1992.	Did not meet listing criteria	OK	
Sandy River, Muddy Fork Mouth to Headwaters	23A-SAMF0	Habitat Modification			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
Still Creek Mouth to Headwaters	23A-STIL0	Habitat Modification			NPS Assessment - segment 408: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 408: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (3 Sites: 04A003 below FSR 20 Br, 04A600 mid Still Cr, 04A018 at FSR 2612): 7 day average of daily maximums of less than 64 with 0 days exceeding standard (64) in 1992 at all sites.	Did not meet listing criteria	OK	
Zigzag River Mouth to Headwaters	23A-ZIGZ0	Habitat Modification			NPS Assessment - segment 42: moderate, observation (DEQ, 1988), IWR (ODFW)		No supporting data or information	Need Data	

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Basin <i>Sandy</i>	Sub	<i>Lower Columbia / Sandy</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	23A-ZIGZO	Sedimentation			NPS Assessment - segment 42: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Snake River</i>		Sub <i>Middle Snake</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Snake River									
Washington Border to Hells Canyon Dam	30--SNAK176.0	Temperature		Summer	USGS Data	USGS Data (Site 13290450; Hells Canyon): 75% (21 of 28) Summer values exceeded temperature standard (64) with exceedences recorded each year sampled and a maximum of 75.2 between 1980 - 92.		303(d) List	
		Toxics	Fish tissue (Mercury)	Year Around	1997 Oregon Health Division Health Advisory				
Hells Canyon Dam to Oxbow Dam	30--SNAK247	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data	USGS Data (Site 13290450; Hells Canyon): 0% (0 of 14) Summer values exceeded fecal coliform standard (400) between 1980 - 92.	Did not meet listing criteria	OK	
		pH		Summer	USGS Data				
		Temperature		Summer	USGS Data	USGS Data (Site 13290450; Hells Canyon): 75% (21 of 28) Summer values exceeded temperature standard (64) with exceedences recorded each year sampled and a maximum of 75.2 between 1980 - 92.		303(d) List	
		Toxics	Fish tissue (Mercury)	Year Around	1997 Oregon Health Division Health Advisory				
Oxbow Dam to Brownlee Dam	30--SNAK272.7	Temperature		Summer	USGS and USBR Data	USGS Data (Site 13213100, Nyssa): 87% (20 of 23) Summer values exceeded temperature standard (64) with exceedences recorded each year sampled and a maximum of 76.1 between 1980 - 92.		303(d) List	

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Basin <i>Snake River</i>		Sub <i>Middle Snake</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Oxbow Dam to Brownlee Dam	30--SNAK272.7	Toxics	Fish tissue (Mercury)	Year Around	1997 Oregon Health Division Health Advisory	Data from 1969 to present, average level of mercury found in fish tissue is 0.41 parts per million. Mercury could be from natural sources, possibly influenced by historical mining practices in the watershed.		303(d) List	Addition	
Brownlee Reservoir to Idaho Border	30--SNAK294.6	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USGS and USBR Data	USBR Data (Site CSP118; Nyssa): 0% (0 of 6) FWS values exceeded fecal coliform standard (400) between 1988 - 89.	Did not meet listing criteria	OK		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS and USBR Data	USBR Data (Site CSP118; Nyssa): 0% (0 of 8) Summer values exceeded fecal coliform standard (400) between 1988 - 89.	Did not meet listing criteria	OK		
		Flow Modification				NPS Assessment - segment 228: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Habitat Modification				NPS Assessment - segment 228: severe, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Nutrients				NPS Assessment - segment 228: moderate, data (DEQ, 1988)	No supporting data or information	Need Data		
		pH			Summer	USGS and USBR Data	USGS Data (Site CSP118; Nyssa): 13% (1 of 8) Summer values exceeded pH standard (7.0 - 9.0) with a maximum value of 9.3 between 1988 - 89.	Did not meet listing criteria	OK	
		Sedimentation					NPS Assessment - segment 228: severe, data (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			Summer	USGS and USBR Data	USGS Data (Site 13213100; Nyssa): 87% (20 of 23) Summer values exceeded temperature standard (64) with exceedences recorded each year sampled and a maximum of 76.1 between 1980 - 92.		303(d) List	
Toxics			Pesticides		NPS Assessment - segment 228: severe, data (DEQ, 1988)	No supporting data or information	Need Data			

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Basin <i>Snake River</i>		Sub <i>Middle Snake</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Brownlee Reservoir to Idaho Border	30--SNAK294.6	Toxics	Tissue - Mercury		94 Idaho Fish Consumption Advisory, 94 Id 303 List; NPS Assessment - segment 228: moderate, data (DEQ, 1988); 1997 Oregon Health Division Health Advisory.	Idaho Fish Consumption Advisory: 30% of fish tested had levels greater than 0.5 ppm (Idaho's level of concern for health reasons) (Idaho Dept of Health, 1994). Data from 1969 to present, average level of mercury found in fish tissue is 0.41 parts per million. Mercury could be from natural sources, possibly influenced by historical mining practices in the watershed.		303(d) List	

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Basin	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
<i>South Coast</i>									
Big Emily Creek									
Mouth to Headwaters	14D-BEM10	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered healthy with Discriminant Scores > 75 points. Discriminant Score was 68, however, a Multimetric score was high which indicated a healthier stream than what the Discriminant Score showed..	Did not meet listing criteria	OK	Addition
Bravo Creek									
Mouth to Headwaters	14D-BRAV0	Sedimentation			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (1993, 1994)	BLM Data : 7 day average of daily maximum of 72.2 with 68 days exceeding temperature standard (64) in 1994.		303(d) List	
Chetco River									
Mouth to Box Canyon Creek	14D-CHET0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 404162; RM 10.8): 0% (0 of 5) Summer values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404162; RM 10.8): 0% (0 of 6) FWS values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404162; RM 10.8): 0% (0 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between 1992 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404162; RM 10.8): 0% (0 of 6) October through April values exceeded standard (11 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October - April).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404162; RM 10.8): 0% (0 of 6) May through September values exceeded standard (8 mg/l or 90% saturation) between 1992 - 1995 (Cold water rearing, approximately May - September).	Did not meet listing criteria	OK	

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Basin <i>South Coast</i>		Sub <i>Chetco</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Box Canyon Creek	14D-CHET0	Flow Modification			NPS Assessment - segments 319 & 320: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			USFS Chetco River Watershed Analysis (1996)	Watershed Analysis notes that existing data needs compile, data not included as part of analysis.	No supporting data or information	Need Data	Addition	
		pH			Summer	DEQ Data	DEQ Data (Site 404162; RM 10.8): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404162; RM 10.8): 0% (0 of 5) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segments 319 & 320: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature		Rearing 64 F (17.8 C)		Summer	ODFW Data; DEQ Ambient Data; NPS Assessment - segments 319 & 320: moderate, data/observation (DEQ, 1988)	ODFW Data (5 Sites: Near mouth to above Big Emily Cr): 7 day average of daily maximums of approximately 74 with 68 - 70 days exceeding temperature standard (64) in 1994.		303(d) List
Chetco River, North Fork										
Mouth to Bravo Creek	14D-CHNF0	Flow Modification			NPS Assessment - segment 321: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Sedimentation			NPS Assessment - segment 321: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature		Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 321: moderate, observation (DEQ, 1988)	BLM Data (2 Sites: Near mouth to below Bravo Cr): 7 day average of daily maximums of 73.6 and 70.7 with 94 and 65 days respectively exceeding temperature standard (64) in 1994.		303(d) List	
Bravo Creek to Headwaters	14D-CHNF6	Temperature		Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 321: moderate, observation (DEQ, 1988)	BLM Data (Site above Bravo Creek): 7 day average of daily maximum of 63.6 with 1 day exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	

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Basin <i>South Coast</i>	Sub	<i>Chetco</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Chetco River, South Fork Mouth to Headwaters	14D-CHSF0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered healthy with Discriminant Scores > 75 points. Discriminant Score was 99.	Did not meet listing criteria	OK	Addition
		Flow Modification			NPS Assessment - segment 322: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 322: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Deep Creek Mouth to Headwaters	14D-DEEP0	Sedimentation			NPS Assessment - segment 318: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Deer Creek (Winchuck River) Mouth to Headwaters	14D-DEER0	Sedimentation			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
Eagle Creek Mouth to Headwaters	14D-EAGL0	Sedimentation			NPS Assessment - segment 349: severe, observation (DEQ, 1988); USFS Two Forks Timber Sales EIS 1992	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 349: severe, observation (DEQ, 1988); USFS Two Forks Timber Sales EIS 1992	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	No supporting data or information	Need Data	
Hawk Creek Mouth to headwaters	14D-HAWK0	Habitat Modification			USFS Chetco River Watershed Analysis (1996)	Watershed Analysis notes that existing data needs compile, data not included as part of analysis.	No supporting data or information	Need Data	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Chetco River Watershed Analysis (1996)	Watershed Analysis notes that existing data needs compile, data not included as part of analysis.	No supporting data or information	Need Data	Addition
Hunter Creek Mouth to RM 16.5	14D-HUNT0	Sedimentation			NPS Assessment - segment 315: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub <i>Chetco</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to RM 16.5	14D-HUNT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1993, 1994); NPS Assessment - segment 315: moderate, observation (DEQ, 1988)	USFS Data (Site at forest boundary): 7 day average of daily maximums of approximately 72.1 and 70.7 exceeded temperature standard (64) in 1993 and 1994.		303(d) List	
Jack Creek Mouth to Headwaters	14D-JACK0	Sedimentation			NPS Assessment - segment 323: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Little Chetco River Mouth to headwaters	14D-CHEL0	Habitat Modification			USFS Chetco River Watershed Analysis (1996)	Watershed Analysis notes that existing data needs compile, data not included as part of analysis.	No supporting data or information	Need Data	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Chetco River Watershed Analysis (1996)	Watershed Analysis notes that existing data needs compile, data not included as part of analysis.	No supporting data or information	Need Data	Addition
Pistol River Mouth to Headwaters	14D-PIST0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404172; RM 1.2): 17% (1 of 6) FWS values exceeded fecal coliform standard (400) with a value of 540 between 1992 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404172; RM 1.2): 0% (0 of 5) Summer values exceeded chlorophyll a standard (15 ug/l) between 1993 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404172; RM 1.2): 20% (1 of 5) May through September values exceeded standard (8 mg/l or 90% saturation) with a minimum of 7.5 mg/l between 1993 - 1995 (Cold water rearing, approximately May - September).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404172; RM 1.2): 0% (0 of 6) October through April values exceeded standard (11 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October - April).	Did not meet listing criteria	OK	

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Basin <i>South Coast</i>		Sub <i>Chetco</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	14D-PIST0	Flow Modification			NPS Assessment - segments 316 & 317: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (Site 404172; RM 1.2): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404172; RM 1.2): 0% (0 of 5) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segments 316 & 317: moderate, observation (DEQ, 1988); USFS Two Forks Timber Sales EIS 1992	General description of concern outlined, however, specific data on impacts to beneficial uses not documented.	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1987); ODFW (1994); DEQ Ambient Data; NPS Assessment - segments 316 & 317: moderate, data (DEQ, 1988)	ODFW Data (2 Sites: Near RM 3 and 6): 7 day average of daily maximums of approximately 74 and 71.7 with 57 and 58 days respectively exceeding temperature standard (64) in 1994.		303(d) List	
Pistol River, South Fork Mouth to Headwaters	14D-PISF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (1993)	BLM Data (4 Sites): 7 day average of daily maximums of less than 59 with 0 days exceeding temperature standard (64) at all sites in 1994.	Did not meet listing criteria	OK	
Tincup Creek Mouth to Headwaters	14D-TINC0	Flow Modification			NPS Assessment - segment 325: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 325: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 325: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wheeler Creek Mouth to Headwaters	14D-WHEE0	Sedimentation			NPS Assessment - segments 327 & 350: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub <i>Chetco</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	14D-WHEE0	Temperature			NPS Assessment - segment 350: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Winchuck River									
Mouth to East Fork/Wheeler Creeks	14D-WINC0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402208; RM 2.5): 0% (0 of 6) FWS values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402208; RM 2.5): 0% (0 of 5) Summer values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402208; RM 2.5): 0% (0 of 7) Summer values exceeded chlorophyll a standard (15 ug/l) between 1992 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402208; RM 2.5): 0% (0 of 6) October through April values exceeded standard (11 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October - April).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402208; RM 2.5): 0% (0 of 7) May through September values exceeded standard (8 mg/l or 90% saturation) between 1992 - 1995 (Cold water rearing, approximately May - September).	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402208; RM 2.5): 0% (0 of 5) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402208; RM 2.5): 0% (0 of 7) Summer values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 326: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub <i>Chetco</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to East Fork/Wheeler Creeks	14D-WINC0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994); NPS Assessment - segment 326: moderate, data (DEQ, 1988)	ODFW Data (3 Sites: Near mouth to below East Fork/Wheeler Cr): 7 day average of daily maximums of 72, 70, and 64 with 57, 56, and 9 days respectively exceeding temperature standard (64) in 1994.		303(d) List	
Winchuck River, East Fork Mouth to Headwaters	14D-WIEF0	Temperature			NPS Assessment - segment 351: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>South Coast</i>		Sub	<i>Coos</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Arrow Creek Mouth to Headwaters	14A-ARRO0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1996 was 61.7°F	Did not meet listing criteria	OK	Addition
Beale Lake Lake	14A.BEAL	Habitat Modification			NPS Assessment - segment 331: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Benson Creek Mouth to Headwaters	14A-BENS0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered impaired with a Discriminant Score of <61 points. Discriminant Score was 93, however, a multimetric measure was very low so stream was listed as a Potential Concern.	Did not meet listing criteria	Potential Concern List	Addition
		Habitat Modification			NPS Assessment - segment 131: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Big Creek Mouth to Headwaters	14A-BIG0	Habitat Modification			NPS Assessment - segment 129: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 129: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Bluebill Lake Lake	14A.BLUE	Habitat Modification			NPS Assessment - segment 329: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Bottom Creek Mouth to Headwaters	14A-BOTT0	Habitat Modification			NPS Assessment - segment 151: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Burnt Creek Mouth to Headwaters	14A-BURN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1996 data shows exceedence of temperature criteria, 7 day ave. max. 65.6°F		303(d) List	Addition

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Basin <i>South Coast</i>		Sub <i>Coos</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Catching Slough									
Tidal portions of the slough	14A-CATC0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412298; Mile 0.1): 0% (0 of 10) Summer values exceeded fecal coliform standard (400) between 1988 - 1991.	Did not meet listing criteria	OK	
		Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412298; Mile 0.1): Exceeded fecal coliform log mean criteria (14) with a value of 51 and exceeded 90% criteria (43) with a maximum value of 170 between WY 1992 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412298; Mile 0.1): 13% (4 of 30) FWS values exceeded fecal coliform standard (400) with a maximum value of 1100 between 1988 - 1995.		303(d) List	
		Dissolved Oxygen (DO)			NPS Assessment - segment 160: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Tissue - Tributyltin	Year Around	DEQ Data; OSHD Advisory (1995)	Advisory had been made against eating clams harvested from Catching Slough including all tidal flats from Catching Slough bridge southward (upstream) due to elevated level of tributyltin in clams, crabs and fish (OSHD, 10/95). Advisory was lifted in 1997.	Did not meet listing criteria	Potential Concern	Removed (5)
Cedar Creek									
Mouth to Headwaters	14A-CEDA0	Habitat Modification			NPS Assessment - segment 152: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 152: moderate, observation (DEQ, 1988) and BLM data	Two BLM sites in 1996, data shows exceedence of temperature criteria, 7 day ave. max. 70.5/65.1°F .		303(d) List	Addition
Clear Creek									
Mouth to Headwaters	14A-CLEA0	Sedimentation			NPS Assessment - segment 334: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub		Coos		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season							
Clear Lake (Reedsport) Lake	14A.CLEA	Chlorophyll a		Summer		Systema (1995)	1994 Clear Lake Limnological Survey (Sytsma, PSU, 1995). 1994 Clear Lake Limnological Survey (Sytsma, PSU, 1995). 1994 Clear Lake Limnological Survey (Sytsma, PSU, 1995).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)		Summer		Systema (1995)					
		pH		Summer		Systema (1995)					
Coal Creek Mouth to Headwaters	14A-COAL0	Temperature	Rearing 64 F (17.8 C)	Summer		BLM data	Two BLM sites in 1996, No temperature exceedences, 7 day Ave. Max. was 61.8/62.4°F	Did not meet listing criteria	OK	Addition	
Coalbank Slough Tidal portions of the slough	14A+COAL0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around		DEQ Data	DEQ Data (Site 412095; Mile 0.1): Exceeded fecal coliform log mean criteria (14) with a value of 40 and exceeded 90% criteria (43) with a maximum value of 280 between WY 1992 - 1995.			303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring		DEQ Data					DEQ Data (Site 412095; Mile 0.1): 3% (1 of 35) FWS values exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 1986 - 1995.
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer		DEQ Data					DEQ Data (Site 412095; Mile 0.1): 7% (1 of 14) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 between 1987 - 1991.
Coos Bay - Lower Coos Bay - mouth to Jordan Cove	14A*COOS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer		DEQ Data; NPS Assessment - segment 138: severe, data (DEQ, 1988)	DEQ Data (6 Sites: Mile 1.0 - 7.0): 412087, 412088 = 0% (0 of 27, 29); 412083, 412084, 412086 = 3% (1 of 31, 32, 30); 412085 = 6% (2 of 31) Summer values exceeded fecal coliform standard (400) respectively with a maximum value of 1100 between WY 86 - 95.	Did not meet listing criteria	OK		

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Basin <i>South Coast</i>		Sub		Coos		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Coos Bay - mouth to Jordan Cove	14A*COOS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring		DEQ Data; NPS Assessment - segment 138: severe, data (DEQ, 1988)	DEQ Data (6 Sites: Mile 1.0 - 7.0): 0% (0 of 45 - 54) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around		DEQ Data; NPS Assessment - segment 138: severe, data (DEQ, 1988)	DEQ Data (6 Sites: Mile 1.0 - 7.0): All sites met fecal coliform log mean criteria (14) with values ranging from 3 to 7 and all sites met 90% criteria (43) with values ranging from 12 to 33 between WY 1992 - 1995.	Did not meet listing criteria	OK	
			Sedimentation				NPS Assessment - segment 138: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
Coos Bay - Upper										
Coos Bay - Jordan Cove to Marshfield Channel.	14A*COOS7.5	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer		DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 138: severe, data (DEQ, 1988)	DEQ Data (9 Sites: Mile 7.75 - 12.0): All Sites = 0% (0 of 14 - 28) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around		DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 138: severe, data (DEQ, 1988)	DEQ Data (9 Sites: Mile 7.75 - 12.0): 5 Sites exceeded fecal coliform log mean criteria (14) with values ranging from 15 to 28 and all 9 sites exceeded 90% criteria (43) with values ranging from 46 - 170 between WY 1992 - 1995.			303(d) List
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring		DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 138: severe, data (DEQ, 1988)	DEQ Data (9 Sites: Mile 7.75 - 12.0): 6 Sites = 0% (0 of 32 - 59); 412320 = 2% (1 of 66); 412322 = 4% (3 of 67); 412091 = 7% (4 of 59) FWS values with maximum values of 740,1200,1100 respectively exceeded fecal coliform standard (400) between WY 86 - 95.	Did not meet listing criteria	OK	
			Sedimentation				NPS Assessment - segment 138: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data

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Basin <i>South Coast</i>		Sub		Coos		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Coos Bay - Jordan Cove to Marshfield Channel.	14A*COOS7.5	Toxics	Sediment - PAHs, PCBs			DEQ Data	Values exceeded reference values but did not meet listing criteria. No data on beneficial use impairment (e.g. bioassays). Minimum Data Requirements were not met (Two exceedences of a standard and at least 10% of the time) there are no standards for sediment concentrations.	Did not meet listing criteria	OK	
Coos Bay - Jordan Cove area		Toxics	Tissue - Tributyltin	Year Around		DEQ Data; OSHD Advisory (1995); 304(l) list, Part A/B	Advisory had been made against eating clams harvested from Jordan Cove area including all tideland between Jordan Point and the northern point of North Spit due to elevated level of tributyltin in clams, crabs and fish (OSHD, 10/95). Advisory was lifted in 1997.	Did not meet listing criteria	Potential Concern	Removed (5)
Coos Bay - Jordan Cove to Marshfield Channel.		Toxics	Sediment-Metals(Copper, Chromium, Lead, Nickel, Zinc)			DEQ Data	Values exceeded reference values but did not meet listing criteria. No data on beneficial use impairment (e.g. bioassays). Minimum Data Requirements were not met (Two exceedences of a standard and at least 10% of the time) there are no standards for sediment concentrations.	Did not meet listing criteria	Potential Concern	
Coos River										
Mouth to Millicoma/South Fork	14A-COOS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring		DEQ Data	DEQ Data (Site 412229; RM 1.75): 3% (1 of 29) FWS values exceeded fecal coliform standard (400) with a value of 460 between 1989 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer		DEQ Data	DEQ Data (Site 412229; RM 1.75): 0% (0 of 8) Summer values exceeded fecal coliform standard (400) between 1989 - 1992.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 140: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub		Coos		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Coos River, South Fork										
Mouth to Williams/Tioga Creeks	14A-COSF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring		Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (2 Sites: 412290 (below Dellwood) and 412291 (Daniels Cr Rd): 0% (0 of 8) and 0% (0 of 9) FWS values exceeded fecal coliform standard (400) in one storm event in January 1982 (Jackson et al, 1983).	Did not meet listing criteria	OK	
		Habitat Modification				NPS Assessment - segment 142: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segments 141 & 142: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				NPS Assessment - segments 141 & 142: moderate/severe, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
Cox Creek										
Mouth to Headwaters	14A-COX0	Temperature	Rearing 64 F (17.8 C)	Summer		BLM data	In 1996, No temperature exceedences, 7 day Ave. Max. was 59.9°F	Did not meet listing criteria	OK	Addition
Daniels Creek										
Mouth to Headwaters	14A-DANI0	Sedimentation				NPS Assessment - segment 158: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Day Creek										
Mouth to Headwaters	14A-DAY0	Bacteria				NPS Assessment - segment 409: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 409: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics				NPS Assessment - segment 409: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	<i>South Coast</i>		Sub	<i>Coos</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Eel Lake Lake	14A.EEL	pH		Summer	Systema (1995)	1994 Eel Lake Limnological Survey (Sytsma, PSU, 1995): pH values were recorded above standard (8.5) in 1990, 91, and 94 with durations of one week to three months and a maximum of 9.4 by City of Lakeside (at water intake structure).		303(d) List	
		Turbidity		Year Around	Systema (1995)	1994 Eel Lake Limnological Survey (Sytsma, PSU, 1995): Turbidity was typically less than 2 NTU with higher turbidity (ranging from 3 to 9.5 NTU) occurring in winter months (as measured by City of Lakeside at water intake structure).	Did not meet listing criteria	OK	
Elk Creek Mouth to Headwaters	14A-ELK0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Stream was sampled in 1994 and 1995. Discriminant Score was 60 in 1994 and 97 in 1995. Streams are considered impaired with Discriminant Scores <61 and healthy with Discriminant Scores >75 points. The variability of the scores are a potential concern.	Did not meet listing criteria	Potential Concern List	Addition
Fall Creek Mouth to Headwaters	14A-FALL0	Sedimentation			NPS Assessment - segment 150: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Fivemile Creek Mouth to Headwaters	14A-FIVE0	Temperature			NPS Assessment - segment 155: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Haynes Inlet Tidal portions of the slough	14A+HAYN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (3 Sites: 412307, 412370, 412368; Mile 0.1 - 1.23): 0% (0 of 5 - 25) Summer values exceeded fecal coliform standard (400) between WY 1989 - 1995.	Did not meet listing criteria	OK	

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Basin	Sub	Coos							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tidal portions of the slough	14A+HAYN0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (3 Sites: Mile 0.1 - 1.23): All sites exceeded fecal coliform log mean criteria (14) with values ranging from 15 to 43 and all sites exceeded 90% criteria (43) with values ranging from 130 to 1600 between WY 1992 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (3 Sites: 412307, 412370, 412368; Mile 0.1, 0.9, 1.23): 5% (3 of 56); 7% (2 of 29); 18% (7 of 39) exceeded fecal coliform standard (400) with maximum values of 1600, 920, 2400 respectively between WY 1986 - 1995.		303(d) List	
Horsefall Lake Lake	14A.HORS	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 328: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 328: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 328: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Isthmus Slough Tidal portions of the slough	14A+ISTH0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 412096; RM 1.9): 0% (0 of 25) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 412096; RM 1.9): 0% (0 of 9) Summer values exceeded fecal coliform standard (400) between 1987 - 1991.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Marine Waters: reduction in DO concentrations	June 1 - October 31	DEQ Data; NPS Assessment - segment 161: severe, data (DEQ, 1988)	DEQ Data (Site 412096; Mile 1.9): 74% (17 of 23) June through October values exceeded estuarine DO standard (6.5) with a minimum of 4.3 between 1980 - 1985.		303(d) List	

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Basin <i>South Coast</i>		Sub		Coos					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Joe Ney Slough Tidal portions of the slough		14A+JOEN0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 411: moderate, data (DEQ, 1988)	DEQ Data (Site 412108; Mile 0.25): Met fecal coliform log mean criteria (14) with a value of 14 and exceeded 90% criteria (43) with a value of 240 between WY 1992 - 1995.		303(d) List
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 411: moderate, data (DEQ, 1988)	DEQ Data (Site 412108; Mile 0.25): 2% (1 of 52) FWS values exceeded fecal coliform standard (400) with a maximum value of 540 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 411: moderate, data (DEQ, 1988)	DEQ Data (Site 412108; Mile 0.25): 0% (0 of 24) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 411: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Johnson Creek Mouth to Headwaters		14A-JOHN0	Habitat Modification			NPS Assessment - segment 132: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 132: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Kentuck Slough Tidal portions of the slough		14A+KENT0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412311; at mouth behind tidegate): 27% (3 of 11) FWS values exceeded fecal coliform standard (400) with a maximum of 1300 in WY 1982 (Jackson et al, 1983).		303(d) List
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412311; at mouth behind tidegate): 60% (3 of 5) Summer values exceeded fecal coliform standard (400) with a maximum of 600 in WY 1982 (Jackson et al, 1983).		303(d) List	
		Habitat Modification			NPS Assessment - segment 139: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub <i>Coos</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Tidal portions of the slough	14A+KENT0	Sedimentation			NPS Assessment - segment 139: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Larson Slough Mouth to Larson/Sullivan Creeks	14A+LARS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (4 Sites: 412369, 412306, 404558, 404560; RM 0.05, 0.1, 0.8, 3.7): 38% (13 of 34), 37% (7 of 19), 33% (2 of 6), 0% (0 of 7) FWS values exceeded fecal coliform standard (400) with a maximum of 2400, 1100, and 1100 respectively between 1989 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (2 Sites: 412369, 412306; RM 0.05, 0.1): 23% (3 of 13) and 0% (0 of 7) Summer values respectively exceeded fecal coliform standard (400) with a maximum value of 1600 between 1989 - 1995.		303(d) List	
		Habitat Modification			NPS Assessment - segment 135: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 135: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data	DEQ Data (Site approximately RM 3): 7 day average of daily maximum of 65.7 with 43 days exceeding temperature standard (64) in 1994.		303(d) List	
Lost Creek Mouth to Headwaters	14A-LOST0	Temperature			NPS Assessment - segment 154: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Matson Creek Mouth to Headwaters	14A-MATS0	Sedimentation			NPS Assessment - segment 149: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub		Coos		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Millicoma River										
Mouth to Headwaters	14A-MILL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (2 Sites: 412287, at Rooke-Higgins Co Park and 412289, Co Boat Ramp Dock: 11% (1 of 9) and 0% (0 of 7) FWS values exceeded fecal coliform standard (400) in one storm event in January 82 (Jackson et al,	Did not meet listing criteria	OK		
		Sedimentation			NPS Assessment - segment 143: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Millicoma River, East Fork										
Mouth to Headwaters	14A-MIEF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412285): 0% (0 of 7) FWS values exceeded fecal coliform standard (400) in one storm event in January 82 (Jackson et al, 1983).	Did not meet listing criteria	OK		
Millicoma River, West Fork										
Mouth to Headwaters	14A-MIWF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412286; at Allegany): 0% (0 of 7) FWS values exceeded fecal coliform standard (400) in one storm event in January 1982 (Jackson et al, 1983).	Did not meet listing criteria	OK		
		Habitat Modification			NPS Assessment - segment 145: severe, observation (DEQ, 1988)		No supporting data or information	Need Data		
Stalls Falls to Elk Creek	14A-MIWF15	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered a Potential Concern with a Discriminant Score of 61 to 75 points. Discriminant score was 66.	Did not meet listing criteria	Potential Concern List	Addition	
Morgan Creek										
Mouth to Headwaters	14A-MORG0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered healthy with Discriminant Scores>75 points. Discriminant Score was 100.	Did not meet listing criteria	OK	Addition	
		Sedimentation			NPS Assessment - segment 159: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		

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Basin <i>South Coast</i>		Sub		Coos		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Murphy Creek Mouth to Headwaters		14A-MURP0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data	DEQ Data (2 Sites: locations??): 7 day average of daily maximum of 59.5 and 62.9 with 0 and 1 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
North Slough Tidal portions of the slough		14A+NORT0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 412304; Mile 0.2): 2% (1 of 56) FWS values exceeded fecal coliform standard (400) with a maximum value of 920 between WY 1986 - 1995.	Did not meet listing criteria	OK	
			Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 412304; Mile 0.2): Exceeded fecal coliform log mean criteria (14) with a value of 16 and exceeded 90% criteria with a value of 140 between WY 1992 - 1995.			303(d) List
			Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 412304; Mile 0.2): 0% (0 of 27) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
			Sedimentation			NPS Assessment - segment 136: severe, observation (DEQ, 1988)		No supporting data or information		Need Data
			Toxics	Tissue - Tributyltin	Year Around	DEQ Data; OSHD Advisory (1995); 304(l) list, Part A/B	Advisory had been made against eating clams harvested from North Slough including all tidal areas north of the causeway and west of Highway 101 due to elevated level of tributyltin in clams, crabs and fish (OSHD, 10/95). Advisory was lifted in 1997.	Did not meet listing criteria	Potential Concern	Removed (5)
Palouse Creek Mouth to Headwaters		14A-PAL00	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 412305; RM 0.1): 0% (0 of 8) FWS values exceeded fecal coliform standard (400) between 1989 - 1994.	Did not meet listing criteria	OK	

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Basin	South Coast	Sub	Coos						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	14A-PALOO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 412305; RM 0.1): 0% (0 of 5) Summer values exceeded fecal coliform standard (400) between 1989 - 1993.	Did not meet listing criteria	OK	
		Habitat Modification			NPS Assessment - segment 133: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 133 & 134: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Panther Creek									
Mouth to headwaters	14A-PANT0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered impaired with a Discriminant Score of <61 points. Discriminant score was 33, however, site was not listed as "impaired" because samples did not meet minimum sample size requirements.	Did not meet listing criteria	Potential Concern List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	In 1996, No temperature exceedences, 7 day Ave. Max. was 57.2°F	Did not meet listing criteria	OK	Addition
Pony Creek									
Mouth to Headwaters	14A-PONY0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412315; South of High School): 20% (1 of 5) Summer values exceeded fecal coliform standard (400) with a maximum of 430 in WY 1982 (Jackson et al, 1983).	Did not meet listing guidance	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412315; South of High School): 78% (7 of 9) FWS values exceeded fecal coliform standard (400) with a maximum of 8500 in WY 1982 (Jackson et al, 1983).			303(d) List
Pony Slough									
Tidal portions of the slough	14A+PONY0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 412317; Mile 0.2): Met fecal coliform log mean criteria (14) with a value of 7 and met 90% criteria (43) with a value of 33 between WY 1992 - 1995.		OK	

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Basin <i>South Coast</i>		Sub		Coos					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Tidal portions of the slough	14A+PONY0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 412317; Mile 0.2): 0% (0 of 29) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 412317; Mile 0.2): 0% (0 of 53) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
Ross Slough									
Tidal portions of the slough	14A+ROSS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412296; Mile 1.0): 0% (0 of 16) FWS values exceeded fecal coliform standard (400) between 1989 - 1994.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412296; Mile 1.0): 0% (0 of 7) Summer values exceeded fecal coliform standard (400) between 1989 - 1991.	Did not meet listing criteria	OK	
Sandpoint Lake									
Lake	14A.SAND	Habitat Modification			NPS Assessment - segment 333: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 333: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Shinglehouse Slough									
Tidal portions of the slough	14A+SHIN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412300; at mouth): 25% (2 of 8) FWS values exceeded fecal coliform standard (400) with a maximum of 1000 in one storm event sampling in January 1982 (Jackson et al, 1983).	Did not meet listing criteria	OK	
Snag Lake									
Lake	14A.SNAG	Habitat Modification			NPS Assessment - segment 330: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub		Coos		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
South Slough										
Tidal portions of the slough	14A+SOUT0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data - Ambient Monitoring (305(b), 1994); NPS Assessment - segment 408: moderate, data (DEQ, 1988)	DEQ Data (9 Sites: Mile 1.1 - 3.6): 0% (0 of 15 - 28) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data - Ambient Monitoring (305(b), 1994); NPS Assessment - segment 408: moderate, data (DEQ, 1988)	DEQ Data (9 Sites: Mile 1.1 - 3.6): 6 Sites = 0% (0 of 35 - 60); 412102 = 2% (1 of 59); 412231 = 4% (2 of 46); 412232 = 4% (2 of 48) FWS values exceeded fecal coliform standard (400) with maximum values of 1600, 920, 540 respectively from WY 1986 - 95.	Did not meet listing criteria	OK		
		Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data - Ambient Monitoring (305(b), 1994); NPS Assessment - segment 408: moderate, data (DEQ, 1988)	DEQ Data (9 Sites: Mile 1.1 - 3.6): 4 Sites exceeded fecal coliform log mean criteria (14) with values ranging from 15 to 36 and 8 Sites exceeded 90% criteria (43) with values ranging from 49 to 240 between WY 1992 - 1995.			303(d) List	
			Sedimentation		NPS Assessment - segment 408: severe, observation (DEQ, 1988)		No supporting data or information		Need Data	
			Toxics		NPS Assessment - segment 408: moderate, data (DEQ, 1988)		No supporting data or information		Need Data	
Spirit Lake										
Lake	14A.SPIR	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 332: moderate, data (DEQ, 1988)		No supporting data or information		Need Data	
		Habitat Modification			NPS Assessment - segment 332: moderate, data (DEQ, 1988)		No supporting data or information		Need Data	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 332: moderate, data (DEQ, 1988)		No supporting data or information		Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>South Coast</i>		Sub		Coos		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Stock Slough										
Tidal portions of the slough	14A+STOC0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412294; at mouth): 86% (6 of 7) FWS values exceeded fecal coliform standard (400) with a maximum of 4000 in WY 1982 (Jackson et al, 1983).			303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412294; at mouth): 60% (3 of 5) Summer values exceeded fecal coliform standard (400) with a maximum of 2300 in WY 1982 (Jackson et al, 1983).			303(d) List	
Story Creek										
Mouth to Headwaters	14A-STOR0	Bacteria			NPS Assessment - segment 410: moderate, data (DEQ, 1988)		No supporting data or information		Need Data	
			Sedimentation		NPS Assessment - segment 410: severe, observation (DEQ, 1988)		No supporting data or information		Need Data	
			Toxics		NPS Assessment - segment 410: moderate, data (DEQ, 1988)		No supporting data or information		Need Data	
Tenmile Creek										
Mouth to Headwaters	14A-TENM0		Sedimentation		NPS Assessment - segment 137: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data	
Tenmile Lake										
Lake	14A.TENM	Aquatic Weeds, Algae	Aquatic Weeds, Algae		Systema (1995); Sweet (1990); Johnson (1985); McHugh (1979); NPS Assessment - segment 130: moderate, observation (DEQ, 1988)	Tenmile Lakes Limno. Survey (PSU, 1995): Extensive growth of Elodea densa, a non-native aquatic plant and a "B" designated weed by ODA, dominates the macrophyte assemblage and interferes with beneficial uses; Chlorophyll a exceeds 3 month std of 15 ug/l.			303(d) List	
			Dissolved Oxygen (DO)		NPS Assessment - segment 130: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data	

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Basin <i>South Coast</i>		Sub		Coos		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Lake	14A.TENM	Nutrients				Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 130: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				NPS Assessment - segment 130: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Tenmile Lake, North Lake	14A.TENN	Aquatic Weeds or Algae	Aquatic Weeds, Algae			Systma (1995); Johnson (1985); McHugh (1979); NPS Assessment - segment 374: moderate, observation (DEQ, 1988)	Tenmile Lakes Limno. Survey (PSU, 1995): Extensive growth of Elodea densa, a non-native aquatic plant and a "B" designated weed by ODA, dominates the macrophyte assemblage and interferes with beneficial uses; Chlorophyll a exceeds 3 month std of 15 ug/l.		303(d) List	
		Dissolved Oxygen (DO)				NPS Assessment - segment 374: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients				Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 374: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Tioga Creek Mouth to Headwaters	14A-TIOG0	Habitat Modification				NPS Assessment - segment 157: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer		BLM data	1996 BLM data shows exceedence of temperature criteria, 7 day ave. max. 72.7°F		303(d) List	Addition
Willanch Slough Tidal portions of the slough	14A+WILL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring		Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412312; at Russell Rd): 27% (3 of 11) FWS values exceeded fecal coliform standard (400) with a maximum of 700 in WY 1982 (Jackson et al, 1983).		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer		Coos Bay Bacteria Study (DEQ, 1983)	DEQ Data (Site 412312; at Russell Rd): 60% (3 of 5) Summer values exceeded fecal coliform standard (400) with a maximum of 1400 in WY 1982 (Jackson et al, 1983).		303(d) List	

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Basin <i>South Coast</i>		Sub <i>Coos</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Williams River Mouth to Headwaters		14A-WILLO	Habitat Modification			NPS Assessment - segment 153: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
			Sedimentation				NPS Assessment - segment 153: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
			Temperature	Rearing 64 F (17.8 C)	Summer		NPS Assessment - segments 153 & 156: moderate, observation (DEQ, 1988), BLM data	1996 BLM data shows exceedence of temperature criteria, 7 day ave. max. 72.7°F		303(d) List
Panther Creek to Headwaters		14A-WILL18	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered a Potential Concern with a Discriminant Score of 61 to 75 points. Discriminant score was 72.	Did not meet listing criteria	Potential Concern List	Addition

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Alder Creek Mouth to headwaters	14B-ALDE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1996 data shows exceedence of temperature criteria, 7 day ave. max. 65.7°F, 1997 data does not show an exceedence of 7 day av. max. was 63.9°F	Did not meet listing criteria	303(d) List	Addition	
Baker Creek Mouth to Headwaters	14B-BAKE0	Sedimentation			NPS Assessment - segment 191: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data, DEQ data	BLM Data (4 Sites: From mouth to Road 31-12-3.0): 7 day average of daily maximums ranged from 61.1 to 53.7 and did not exceed temperature standard (64) in 1994; DEQ Data (Site near mouth): 7 day ave of daily max of 64.9 with 9 days above standard in 1993.	Did not meet listing criteria	Potential Concern	Status Modification	
Bear Creek Mouth to Headwaters	14B-BEAR0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404254; RM 3.0): 22% (2 of 9) FWS values exceeded fecal coliform standard (400) with a maximum value of 1100 between 1988 - 1992.		303(d) List		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data: 80% (4 of 5) violated the Salmonid spawning standard (11mg/l). Low DO value was 9.6		303(d) List		
		Flow Modification			NPS Assessment - segment 180: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment - segment 180: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		pH			Fall-Winter-Spring	DEQ Data - Ambient Monitoring (305(b), 1994)	DEQ Data (Site 404254; RM 3.0): 0 % (0 of 6) FWS values exceeded pH standard (6.5 - 8.5) between 1988 - 1989.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 180: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	14B-BEAR0	Temperature			NPS Assessment - segment 180: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Beaver Creek									
Mouth to Headwaters	14B-BEAV0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 183: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 183: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 183: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 183: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Belieu Creek									
Mouth to headwaters	14B-BELI0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1996 BLM data shows exceedence of temperature criteria, 7 day ave. max. 66.0°F		303(d) List	Addition
Big Creek									
Mouth to Headwaters	14B-BIG0	Habitat Modification			NPS Assessment - segment 197: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 197: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (2 Sites: Near mouth and Below Bear Creek): 7 day average of daily maximums of 67.2 and 65.8 with 54 and 19 days respectively exceeding temperature standard (64) in 1994.		303(d) List	
Bill Creek									
Mouth to Headwaters	14B-BILL0	Temperature			NPS Assessment - segment 181: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Brownson Creek Mouth to Headwaters	14B-BROW0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (1994)	BLM Data (Site near mouth): 7 day average of daily maximum of 59.0 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Brummet Creek, West Fork Mouth to headwaters	14B-BRWFO	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site had no temperature exceedences, 7 day Ave. Max. for 1997 was 60.8°F	Did not meet listing criteria	OK	Addition
Camas Creek Mouth to Headwaters	14B-CAMA0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (1993, 1994)	BLM Data (2 Sites: Near mouth and Below East Fork): 7 day average of daily maximum of nd/60.4 and 59.8/62.6 with nd/0 and 0/1 days exceeding temperature standard (64) in 1993/1994 respectively.	Did not meet listing criteria	OK	
Camas Creek, East Fork Mouth to Headwaters	14B-CAEF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (1993, 1994)	BLM Data (Site near mouth): 7 day average of daily maximum of 59.7 and 61.1 with 0 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
Catching Creek Mouth to Headwaters	14B-CATC0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1994)	DEQ Data (Site at bridge 34 near mouth): 7 day average of daily maximum of 65.5 with 17 days exceeding temperature standard (64) in 1994.			303(d) List
Cherry Creek Mouth to Little Cherry Creek	14B-CHERO	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1994)	DEQ Data (1 Site): 7 day average of daily maximum of 68.0 with 57 days exceeding standard (64) in 1994. BLM site in 1996 7 day ave. max. water temperature 67.7°F			303(d) List Segment Modification

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Basin <i>South Coast</i>	Sub	<i>Coquille</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Little Cherry Creek to Headwaters	14B-CHER2	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1994), BLM data	DEQ Data (1 Site): 7 day average of daily maximum of 68.0 with 57 days exceeding standard (64) in 1994. Site on BLM land did not exceeded the temperature criteria, 7 day Ave. Max. for 1997 was 58.0°F. 1994 data was not used because it was a drought year and a second year's data was available which was below the temperature criteria.	Did not meet listing criteria	OK	Removed (5)
Cherry Creek, North Fork Mouth to Little Cherry Creek	14B-CHNF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences at BLM site, 7 day Ave. Max. for 1997 was 62.5°F	Did not meet listing criteria	OK	Addition
China Creek Mouth to headwaters	14B-CHIN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site had no temperature exceedences, 7 day Ave. Max. for 1997 was 59.8°F	Did not meet listing criteria	OK	Addition
Clear Creek Mouth to Headwaters	14B-CLEA0	Temperature	Rearing 64 F (17.8 C)	Summer	Georgia Pacific Data (1994)	Georgia Pacific Data (Site near mouth): 7 day average of daily maximum of less than 59 did not exceed temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Coal Creek Mouth to Headwaters	14B-COAL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS and DEQ Data (1993); Georgia Pacific Data (1994)	Georgia Pacific Data (2 Sites): 7 day average of daily maximum of less than 59 did not exceed temperature standard (64) in 1994; DEQ Data (Site near mouth): 7 day average of daily maximum of 60.9 with 0 days above standard in 1993.	Did not meet listing criteria	OK	
Coquille Bay Mouth to Prosper	14B+COQU0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 426 & 163: moderate, data (DEQ, 1988)	DEQ Data (8 Sites: RM 0.3 - 3.0): All Sites = 0% (0 of 5 - 7) FWS values exceeded fecal coliform standard (400) between 1988 - 1992.	Did not meet listing criteria	OK	

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Prosper	14B-COQU0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 426 & 163: moderate, data (DEQ, 1988)	DEQ Data (8 Sites: RM 0.3 - 3.0): All 8 Sites exceeded fecal coliform log mean criteria (14) with values ranging from 15 - 26 and 6 Sites exceeded 90% criteria with values ranging from 49 - 240 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (7 Sites: RM 0.3 - 3.3): 0% (0 of 5 - 7) Summer values, exceeded fecal coliform standard (400) between 1988 - 1992.	Did not meet listing criteria	OK	
Coquille River Prosper to North/South Fork Confluence	14B-COQU4	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 426 & 163: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 412114, 402273; RM 16.0, 24.45): 0% (0 of 8) and 18% (2 of 11) Summer values respectively exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites; 412114, 402273; RM 16.0, 24.45): 25% (2 of 8) and 27% (4 of 15) FWS values respectively exceeded fecal coliform standard (400) with maximum values of 1100 and 1760 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ Data; NPS Assessment - segments 426 & 163: moderate, data (DEQ, 1988)	DEQ Data (Site 402273; RM 24.45): 30% (3 of 10) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995. Three month average above standard in 1995.		303(d) List	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	October 1 - April 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 426 & 163: severe, data (DEQ, 1988)	DEQ Data (Site 402273; RM 24.5): 8% (1 of 12) October through April values exceeded standard (8 mg/l or 90% saturation) with a minimum of 7.9 mg/l between WY 1986 - 1995 (Cold water rearing, approximately October - April).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segments 426 & 163: severe, data (DEQ, 1988)	DEQ Data (Site 402273; RM 24.5): 47% (7 of 15) May through September values exceeded standard (8 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water rearing, approximately May - September).	TMDL Report (March 1994) submitted to EPA for approval	TMDL Approved	

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Basin	Sub								
South Coast		Coquille							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Prosper to North/South Fork Confluence	14B-COQU4	Nutrients			NPS Assessment - segments 426 & 163: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (3 Sites: 412114, 402273, 404406; RM 16.0, 24.45, 24.5): 0% (0 of 5 - 11) FWS values, exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (3 Sites: 412114, 402273, 404406; RM 16.0, 24.45, 24.5): 0% (0 of 6 - 14) Summer values, exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 163: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Ambient Data; NPS Assessment - segment 163: severe, observation (DEQ, 1988)	DEQ Data (Site 402273; RM 24.45): 71% (20 of 28) Summer values exceeded temperature standard (64) with a maximum of 72.5 and exceedences measured in 1979-82, 84, 86, 89, 90-95 between WY 1980 - 1995.		303(d) List	
Coquille River, East Fork									
Mouth to Headwaters	14B-COEF0	Habitat Modification			NPS Assessment - segment 167: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 167: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Lost Creek		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1994), BLM data	DEQ Data (3 Sites: Below Elk, China and Camas Creeks; RM 2.5, 16.2, and 23.2): 7 day average of daily maximums of 72.8, 66.5, and 64.3 with 74, 46, and 5 days respectively exceeding temperature standard in 1994. Three BLM sites in 1997, 7 day ave. max. was 65.7/64.1/59.7°F Site above Camas Creek exceeded temperature criteria site above Lost Creek did not.		303(d) List	Segment Modification

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Brummit Creek to Headwaters	14B-COEF20	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered healthy with Discriminant Scores > 75 points. Discriminant Score was 85.	Did not meet listing criteria	OK	Addition
Lost Creek to headwaters	14B-COEF25	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1994), BLM data	BLM sites in 1997, 7 day ave. max. was 59.7°F site above Lost Creek did not exceeded temperature criteria .	Did not meet listing criteria	OK	Removed (5)
Coquille River, Little North Fork									
Mouth to Headwaters	14B-CONL0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1994), BLM data	DEQ Data (Site near mouth): 7 day average of daily maximum of 65.8 with 13 days exceeding temperature standard (64) in 1994. BLM site in 1997 did not exceed temperature criteria, 7 day Ave. Max. for 1997 was 59.8°F. 1994 was a drought year.	Did not meet listing criteria	Potential Concern	Removed (5)
Coquille River, Middle Fork									
Mouth to Upper Rock Creek	14B-COMF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 404164; RM 0.2): 7% (1 of 14) Summer values exceeded fecal coliform standard (400) with a value of 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 169: moderate, observation (DEQ, 1988)	DEQ Data (Site 404164; RM 0.2): 14% (2 of 14) FWS values exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 1986 - 1995.			303(d) List
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404164; RM 0.2): 0% (0 of 11) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404164; RM 0.2): 6% (1 of 16) May through September values exceeded standard (8 mg/l or 90 % saturation) between WY 1986 - 1995 (Cold water rearing, approximately May - September).	Did not meet listing criteria	OK	

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Upper Rock Creek	14B-COMF0	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404164; RM 0.2): 14% (2 of 14) October through April values exceeded standard (11 mg/l or 95% saturation) with a minimum of 9.9 mg/l between WY 1986 - 1995 (Cold water spawning, approximately October - April).		303(d) List		
		Habitat Modification			NPS Assessment - segment 169: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		pH		Summer	DEQ Data		DEQ Data (Site 404164; RM 0.2): 0% (0 of 15) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data		DEQ Data (Site 404164; RM 0.2): 0% (0 of 14) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 169: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Mouth to headwaters		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1993, 1994); NPS Assessment - segment 169 & 170: severe, data (DEQ, 1988)	DEQ Data (2 Sites: At mouth and Sturdivant Park; RM 0.2 and 24.5): 7 day average of daily maximum of 73.6/77.9 and 72.3/74.7 with 87/77 and 85/100 days exceeding temperature standard (64) in 1993/1994 respectively.		303(d) List	Segment Modification	
Upper Rock Creek to Headwaters	14B-COMF18	Sedimentation			NPS Assessment - segment 170: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Coquille River, North Fork										
Mouth to Middle Creek	14B-CONF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 402063, 404252; RM 0.2, 4.1): 43% (3 of 7), 0% (0 of 9) FWS values exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 1986 - 1995.		303(d) List		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data		DEQ Data (Site 402063, 404252; RM 0.2, 4.1): 0% (0 of 9 and 0 of 9 respectively) Summer values exceeded fecal coliform standard (400) between 1991 - 1995.	Did not meet listing criteria	OK	

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Basin <i>South Coast</i>		Sub <i>Coquille</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Middle Creek	14B-CONF0	Chlorophyll a		Summer	DEQ Data; NPS Assessment - segment 164: moderate, observation (DEQ, 1988)	DEQ Data (Site 402063; RM 0.2): 0% (0 of 8) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 164: severe, observation (DEQ, 1988)	DEQ Data (2 Sites: 402063, 404252; RM 0.2, 4.1): 36% (3 of 14), 0% (0 of 6) May through September values exceeded standard (8 mg/l or 90 % saturation) with a minimum of 5.1, 8.8 respectively from WY 1986 - 1995 (Cold water rearing, approx. May - Sep).	TMDL Report (March 1994) submitted to EPA for approval	TMDL Approved	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 164: severe, observation (DEQ, 1988)	DEQ Data (2 Sites: 402063, 404252; RM 0.2, 4.1): 0% (0 of 6) and 20% (1 of 5) October through April values exceeded standard (11 mg/l or 95 % saturation) with a minimum of 9.9 between WY 1986 - 1995 (Cold water spawning, approx. Oct - Apr).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 164: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 164: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 164: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (Site 402063, 404252; RM 0.2, 4.1): 0% (0 of 10 and 0 of 9 respectively) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402063, 404252; RM 0.2, 4.1): 0% (0 of 6 and 0 of 7 respectively) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 164: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Middle Creek	14B-CONF0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1994); ODFW Data (1993)	DEQ Data (3 Sites: Hwy 42 near mouth, Bennett Park, and Near Hervey Bridge; RM 0.1, 10.2, and 18): 7 day average of daily maximums of 71.2/75.8, nd/71.0 and nd/70.4 with 79/96, nd/56, and nd/62 days respectively exceeding temperature standard in 1994.		303(d) List	
Middle Creek to Headwaters	14B-CONF018.8	Habitat Modification			NPS Assessment - segment 166 moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 165: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segments 165 & 166: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Middle Creek to Little North Fork		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1994); ODFW Data (1993)	DEQ Data (4 Sites: RM 29.0,32.8,33.9, 47): 7 day average of daily maximums of 68.7/71.5/67.4/65.8 with 57/77/31/7 days exceeding standard (64) in 1994; ODFW (2 Sites; RM 39.25, 40.3): 7 day ave of daily max of 66.7/64.4 with 17/7 days exceeding std in 93.		303(d) List	Segment Modification
Little North Fork to headwaters	14B-CONF045	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Three BLM sites in the upper basin above Little North Fork in 1996 61.0/61.8/61.5°F and one site in 1997 61.5°F had no temperature exceedences for the 7 day Ave. Max. water temperature.	Did not meet listing criteria	OK	Removed (5)
Coquille River, South Fork									
Mouth to Yellow Creek	14B-COSF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data - TMDL & Ambient Monitoring (305(b), 1994)	DEQ Data (2 sites: Site 404250 and 404165; RM 1.2 and 10.00): 18% (2 of 11) and 7% (1 of 14) FWS values exceeded fecal coliform standard (400) with a value of 1100 and 1600 respectively between 1985 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data - TMDL & Ambient Monitoring (305(b), 1994)	DEQ Data (Site 404165; RM 10.0): 0% (0 of 14) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>South Coast</i>		Sub <i>Coquille</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Yellow Creek	14B-COSF0	Chlorophyll a		Summer	DEQ Data - TMDL & Ambient Monitoring (305(b), 1994)	DEQ Data (Site 404165; RM 10.0): 0% (0 of 11) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - April 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 404250 and 404165; RM 1.2 and 10.0): 8% (1 of 13) and 11% (1 of 9) October through April values respectively exceeded standard (11 mg/l or 95% saturation) between WY 1986 - 1995 (Cold water spawning, approximate October - April).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 404250, 404165; RM 1.2, 10.0): 0% (0 of 6) and 6% (1 of 16) May through September values exceeded standard (8 mg/l or 90 % saturation) between WY 1986 - 1995 (Cold water rearing, approximately May - September).	Did not meet listing criteria	OK		
		Flow Modification				NPS Assessment - segment 171: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification				NPS Assessment - segment 171: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Fall-Winter-Spring	DEQ Data - TMDL & Ambient Monitoring (305(b), 1994)	DEQ Data (2 Sites: 404250, 404165; RM 1.2, 10.0): 0% (0 of 9), 0% (0 - 13) FWS values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH			Summer	DEQ Data - TMDL & Ambient Monitoring (305(b), 1994)	DEQ Data (Site 404165; RM 10.0): 0% (0 of 15) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 171: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)		Summer	USFS Data (1990 - 1993); DEQ Data (1993 - 1994); NPS Assessment - segment 171: severe, data (DEQ, 1988)	DEQ Data (Site at Broadbent; RM 10): 7 day average of daily maximums of 76.0/77.5 with 94 and 64 days exceeding temperature standard (64) in 1993/1994 respectively.		303(d) List	

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Basin	Sub								
<i>South Coast</i>	<i>Coquille</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Yellow Creek to Johnson Creek	14B-COSF19.5	Flow Modification			NPS Assessment (DEQ, 1988); NPS Assessment - segment 172: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segments 172 & 173: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1990 - 1993); DEQ Data (1993 - 1994); NPS Assessment - segments 172 & 173: severe/moderate, data (DEQ, 1988)	USFS Data (Site near National Forest Boundary) and DEQ Data (RM 28): 7 day average of daily maximums of 70.4/70.2/70.8/71.9 in 1990 - 93 and 79.8 with 70 days exceeding temperature standard (64) in 1994 respectively.		303(d) List	
Johnson Creek to Headwaters	14B-COSF42.7	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data	DEQ Data (Site 404251; RM 45.0): 0% (0 of 5) May through September values exceeded standard (8 mg/l or 90 % saturation) between WY 1986 - 1995 (Cold water rearing, approximately May - September).	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data - TMDL & Ambient Monitoring (305(b), 1994)	DEQ Data (Site 404251; RM 45.0): 0% (0 of 5) FWS values exceeded pH standard (6.5 - 8.5) in 1989.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1990 - 1994)	USFS Data (2 Sites: Below Buck Creek and Above Rock Creek): 7 day average of daily maximums of 68/66.3/67.7/64.7 in 1990/91/92/93 and 68.4/69.1 in 1991/92 exceeded temperature standard (64) respectively.		303(d) List	
Cunningham Creek Mouth to Headwaters	14B-CUNNO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404255; RM 0.1): 40% (2 of 5) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 between 1989 - 1991.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404255; RM 0.1): 56% (5 of 9) FWS values exceeded fecal coliform standard (400) with a maximum value of 2400 between 1988 - 1992.		303(d) List	

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Basin	<i>South Coast</i>	Sub	<i>Coquille</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	14B-CUNN0	Dissolved Oxygen (DO)		Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data		303(d) List	
					NPS Assessment - segment 185: moderate, observation (DEQ, 1988)			No supporting data or information	
		Habitat Modification		NPS Assessment - segment 185: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404255; RM 0.1): 0% (0 of 6) FWS values exceeded pH standard (6.5 - 8.5) between 1988 - 1992.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 404255; RM 0.1): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 8.5) in 1989.	Did not meet listing criteria	OK	
Dead Horse Creek Mouth to headwaters	14B-DEAH0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site had no temperature exceedences, 7 day Ave. Max. for 1997 was 60.7°F	Did not meet listing criteria	OK	Addition
Dement Creek Mouth to Headwaters	14B-DEME0	Habitat Modification			NPS Assessment - segment 189: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 189: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1993, 1994)	DEQ Data (Site near mouth): 7 day average of daily maximums of 72.8/72.1 with 80/23 days exceeding temperature standard (64) in 1993/1994 respectively.		303(d) List	
Elk Creek Mouth to Headwaters	14B-ELK0	Sedimentation			NPS Assessment - segment 203: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Two BLM sites in 1997, 7 day ave. max. water temperature was 66.1/63.5°F exceeded and didn't exceed the temperature criteria. Lower value was at forest edge, however, segment is too short to split stream.		303(d) List	Addition

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Evans Creek Mouth to Headwaters	14B-EVAN0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1994)	DEQ Data (Site at Fairview Elementary School): 7 day average of daily maximum of 63.9 with 14 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Fat Elk Creek Mouth to Headwaters	14B-FATE0	Flow Modification			NPS Assessment - segment 184: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 184: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Ferry Creek Mouth to Headwaters	14B-FERR0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 412244; RM 0.1): 20% (1 of 5) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 in 1989.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites: 412244 and 404253; RM 0.1 and 0.3): 0% (0 of 6) and 12% (1 of 8) FWS values respectively exceeded fecal coliform standard (400) with a maximum value of 1600 between 1989 - 1990.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - September 30	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404253; RM 0.3): 0% (0 of 5) May through September values exceeded rearing standard (8.0 mg/l or 90% saturation) between 1988 - 1992 (Cold water fishery, rearing approximately May - Sep).	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404253; RM 0.3): 40% (2 of 5) FWS values exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 6.3 between 1988 - 1992.	Low pH were attributed to natural causes (pH of rain)	OK	

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Basin <i>South Coast</i>	Sub	<i>Coquille</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Fishtrap Creek Mouth to Headwaters	14B-FISH0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered a Potential Concern with a Discriminant Score of 61 to 75 Points. Discriminant Score was 64.	Did not meet listing criteria	Potential Concern List	Addition
Foggy Creek Mouth to Headwaters	14B-FOGG0	Habitat Modification			USFS (1991)		No supporting data or information	Need Data	
		Sedimentation			USFS (1991)		No supporting data or information	Need Data	
		Temperature			USFS (1991)		No supporting data or information	Need Data	
Frenchie Creek Mouth to headwaters	14B-FREN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site, No temperature exceedences, 7 day Ave. Max. for 1996 was 63.0°F		OK	Addition
Giles Creek Mouth to Headwaters	14B-GILE0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1994)	DEQ Data (Site near mouth): 7 day average of daily maximum of 57.8 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Hall Creek Mouth to Headwaters	14B-HALL0	Flow Modification			NPS Assessment - segment 187: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 187: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 187: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Hayes Creek Mouth to Headwaters	14B-HAYE0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1993); Georgia Pacific Data (1994)	Georgia Pacific Data (1 Site) and DEQ Data (Site near mouth): 7 day average of daily maximum of <64 in 1994 and 62.5 with 1 day exceeding temperature standard (64) in 1993 respectively.	Did not meet listing criteria	OK	

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Johns Creek Mouth to Headwaters	14B-JONS0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (1994)	BLM Data (2 Sites: Lower and Upper site): 7 day average of daily maximums of 60.3 and 61.6 with 0 days exceeding temperature standard (64) respectively in 1994. Four BLM sites in 1996, 7 day ave. max. water temperatures 61.8/63.3/62.4/63.8°F	Did not meet listing criteria	OK	
Johnson Creek Mouth to Headwaters	14B-JOHN0	Sedimentation			NPS Assessment - segment 337: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1990 - 1993)	USFS Data (1 Site): 7 day average of daily maximums of 67.5, 67.1, 67.2, 63.9 exceeded temperature standard (64) in 1990, 91, 92, 93 respectively.		303(d) List	
Lampa Creek Mouth to headwaters	14B-LAMP0	Temperature	Rearing 64 F (17.8 C)	Summer	Georgia-Pacific West data	Site at RM 2, No temperature exceedences, 7 day Ave. Max. for 1996/97 was 63.1/63.0°F. Temperature standard is 17.8°C (64°F).	Did not meet listing criteria	OK	Addition
Land Creek Mouth to Headwaters	14B-LAND0	Temperature	Rearing 64 F (17.8 C)	Summer	Georgia Pacific Data (1994); NPS Assessment - segment 341: moderate, observation (DEQ, 1988)	Georgia Pacific Data (1 Site): 7 day average of daily maximum of less than 64 did not exceed temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Little Rock Creek Mouth to headwaters	14B-ROCL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Two BLM sites in 1996 shows exceedence of temperature criteria, 7 day ave. max. was 77.1/69.0°F		303(d) List	Addition
Middle Creek Mouth to headwaters	14B-MIDD0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Two BLM sites in 1996, both sites exceeded temperature criteria, 7 day Ave. Max. was 68.3/69.9°F		303(d) List	Addition
Moon Creek Mouth to Headwaters	14B-MOON0	Habitat Modification			NPS Assessment - segment 206: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Muddy Creek Mouth to Headwaters	14B-MUDD0	Temperature	Rearing 64 F (17.8 C)	Summer	ODF Data (1993)	ODF Data (4 Sites): 7 day average of daily maximums ranged from 58.7 to 63.2 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Myrtle Creek Mouth to Headwaters	14B-MYRT0	Habitat Modification			NPS Assessment - segments 193 & 194: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 193: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Panther Creek Mouth to Headwaters	14B-PANT0	Habitat Modification			USFS (1991)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 340: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Park Creek Mouth to Headwaters	14B-PARK0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	In 1996, No temperature exceedences, 7 day Ave. Max. was 57.1°F	Did not meet listing criteria	OK	Addition
Pulaski Creek Mouth to Headwaters	14B-PULA0	Flow Modification			NPS Assessment - segment 186: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 186: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rasler Creek Mouth to Headwaters	14B-RASL0	Temperature	Rearing 64 F (17.8 C)	Summer	ODF Data (1993), BLM data	ODF Data (1 Site): 7 day average of daily maximum of 56.0 with 0 days exceeding temperature standard (64) in 1993. BLM site in 1996 7 day ave. max. was 63.9°F	Did not meet listing criteria	OK	
Rock Creek (Middle Fork drainage) Mouth to Headwaters	14B-ROCM0	Habitat Modification			NPS Assessment - segment 196: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	14B-ROCM0	Sedimentation			NPS Assessment - segment 196: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rock Creek (Middle Fork near Remote)									
Mouth to Headwaters	14B-ROCM0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (1994); NPS Assessment - segment 196: moderate, observation (DEQ, 1988)	BLM Data (4 Sites): 7 day average of daily maximums of 65.8/65.7/68.0/63.0 with 13/15/37/1 days respectively exceeding temperature standard (64) in 1994. BLM site in Upper Rock Creek in 1996, 7 day ave. max. was 56.0°F segment too far up in headwaters to split stream listing.		303(d) List	
Rock Creek (Myrtle Creek drainage)									
Mouth to Headwaters	14B-ROCK0	Habitat Modification			NPS Assessment - segment 193: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 193: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rock Creek (South Fork drainage)									
Mouth to RM 3	14B-ROCS0	Habitat Modification			USFS (1991)	USFS (Chen, 1991): Lack of wood and deep pools limited salmonid production.		303(d) List	
		Sedimentation			NPS Assessment - segment 339: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1990 - 1994)	USFS Data (Site near mouth): 7 day average of daily maximum of approximately 70, 69, 70.9, and 66.7 exceeded temperature standard (64) in 1990 - 1993 (USFS, 1990-1993).		303(d) List	
Rowland Creek									
Mouth to Headwaters	14B-ROWL0	Flow Modification			NPS Assessment - segment 190: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub <i>Coquille</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	14B-ROWL0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1993), BLM data	DEQ Data (Site near mouth): 7 day average of daily maximum of 65.5 with 14 days exceeding temperature standard (64) in 1993. BLM site in upper reach 1996 data shows meeting of temperature criteria, 7 day ave. max. 61.9°F. Stream is too short to divide.		303(d) List	
Salmon Creek									
Mouth to Headwaters	14B-SALM0	Habitat Modification			NPS Assessment - segment 192: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 192: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1993, 1994), BLM data	DEQ Data (Site near mouth): 7 day average of daily maximum of 68.1 and 69.1 with 65 and 47 days exceeding temperature standard (64) in 1993 and 1994 respectively. Two BLM sites in 1997, 7 day ave. max. was 66.1/70.1°F exceeded temperature criteria.		303(d) List	
Sandy Creek									
Mouth to ~ RM 5	14B-SAND0	Habitat Modification			NPS Assessment - segment 198: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (1994); NPS Assessment - segment 198: moderate, observation (DEQ, 1988)	BLM Data (Site near mouth): 7 day average of daily maximum of 67.6 with 29 days exceeding temperature standard (64) in 1994.		303(d) List	
~RM 5 to Headwaters	14B-SAND5	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (1994); ODF (1993)	BLM Data (Upper site): 7 day average of daily maximum of 61.1 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Slide Creek									
Mouth to headwaters	14B-SLID0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1996 was 63.4°F		OK	Addition
Twelvemile Creek									
Mouth to Headwaters	14B-TWEL0	Sedimentation			NPS Assessment - segment 199: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	South Coast	Sub	Coquille						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	14B-TWEL0	Temperature			NPS Assessment - segment 199: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wooden Rock Creek (Middle Fork drain)									
Mouth to Headwaters	14B-WORO0	Habitat Modification			NPS Assessment - segment 195: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wooden Rock Creek (South Fork drainage)									
Mouth to Headwaters	14B-WORS0	Temperature	Rearing 64 F (17.8 C)	Summer	Georgia Pacific Data (1994)	Georgia Pacific Data (1 Site): 7 day average of daily maximum of less than 59 did not exceed temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Woodward Creek									
Mouth to headwaters	14B-WOOD0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Two BLM sites in 1996, data shows exceedence of temperature criteria, 7 day ave. max. at one site 70.0°F and does not show an exceedence at the other was 62.5°F, stream too short to segment.		303(d) List	Addition
Yankee Run Creek									
Mouth to headwaters	14B-YANR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site had no temperature exceedences, 7 day Ave. Max. for 1997 was 61.4°F	Did not meet listing criteria	OK	Addition
Yellow Creek									
Mouth to Headwaters	14B-YELL0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (1993)	DEQ Data (Site near mouth): 7 day average of daily maximum of 63.4 with 4 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	

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Basin <i>South Coast</i>		Sub <i>Sixes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Bald Mountain Creek Mouth to RM 2	14C-BALD0	Habitat Modification			Elk River Watershed Analysis (1994)	Elk River Watershed Analysis (in Elk Wild and Scenic River Management Plan, USFS & State Parks, 1994). USFS Data (Site near mouth): 7 day average of daily maximum of approximately 65.5 exceeded temperature standard (64) in both 1990 and 1992 (USFS, 1990, 1992).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1990 - 1992)				
Benson Creek Mouth to Headwaters	14C-BENS0	Sedimentation			NPS Assessment - segment 335: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Bethel Creek Mouth to Headwaters	14C-BETH0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994)	ODFW Data (Site at Hwy 101 Bridge): 7 day average of daily maximum of approximately 70.5 with 54 days exceeding temperature standard (64) in 1994.		303(d) List	
Butler Creek Mouth to Headwaters	14C-BUTL0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered healthy with Discriminant Scores > 75 points. Discriminant Score was 100.	Did not meet listing criteria	OK	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1992, 1993)	USFS Data (Site near mouth): 7 day average of daily maximum of approximately 67 exceeded temperature standard (64) in 1992 and was approximately 64 in 1993 (USFS, 1992, 1993).		303(d) List	
Butte Creek Mouth to Headwaters	14C-BUTE0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994)	ODFW Data (2 Sites: At mouth and Hwy 101): 7 day average of daily maximums of approximately 71.7 and 69.5 with 54 and 50 days respectively exceeding temperature standard (64) in 1994.		303(d) List	
Butter Creek Mouth to Headwaters	14C-BUTT0	Sedimentation			NPS Assessment - segment 338: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>South Coast</i>		Sub <i>Sixes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Dry Creek Mouth to Headwaters		14C-DRY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1990 - 1993)	USFS Data (Site at Wilderness Boundary): 7 day average of daily maximum of approximately 68 in 1990 - 92 and 65 in 1993 exceeded temperature standard (64) in 1990 - 1993 (USFS, 1990-1993).	Watershed is in an a wilderness area, exceedences are due to natural conditions (USFS)	OK	
Elk River Mouth to North/South Confluence		14C-ELK0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404600; RM 3.4): 17% (1of 6) FWS values exceeded fecal coliform standard (400) with a value of 920 between 1992 - 1995.	Did not meet listing criteria	OK	
Bear Creek to North/South Confluence			Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered healthy with Discriminant Scores>75 points. Discriminant Score was 100.	Did not meet listing criteria	OK	Addition
Mouth to North/South Confluence			Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	June 1 - September 30	DEQ Data	DEQ Data (Site 404600; RM 3.4): 0% (0 of 5) June through September values exceeded standard (8 mg/l or 90% saturation) between 1993 - 1995 (Cold water rearing, approximately June - September).	Did not meet listing criteria	OK	
			Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - May 31	DEQ Data	DEQ Data (Site 404600; RM 3.4): 0% (0 of 6) October through May values exceeded standard (11 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October - May).	Did not meet listing criteria	OK	
Mouth to Anvil Creek			Habitat Modification			Elk River Watershed Analysis (1994)	Elk River Watershed Analysis (in Elk Wild and Scenic River Management Plan, USFS & State Parks, 1994).			303(d) List
Mouth to North/South Confluence			pH		Summer	DEQ Data	DEQ Data (Site 404600; RM 3.4): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 8.5) between 1993 - 1995.	Did not meet listing criteria	OK	
			pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404600; RM 3.4): 0% (0 of 5) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	

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Basin <i>South Coast</i>		Sub		Sixes		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to North/South Confluence	14C-ELK0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data (1991 - 1993); NPS Assessment - segment 214: moderate, data (DEQ, 1988)	USFS Data (2 Sites: At hatchery; RM 13 and Above Sunshine Creek; RM 22: 7 day average of daily maximum exceeded temperature standard (64) in 1991 - 1993 at both sites (Elk Wild and Scenic River Management Plan, USFS, 1994).		303(d) List	
Elk River, North Fork Mouth to Headwaters	14C-ELNF0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data (1990 - 1993)	USFS Data (Site near mouth): 7 day average of daily maximum of less than 64 did not exceed temperature standard (64) in 1990 - 1994 (USFS, 1990-1994).	Did not meet listing criteria	OK	
Euchre Creek Mouth to Headwaters	14C-EUCH0	Flow Modification				NPS Assessment - segment 215: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 215: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				NPS Assessment - segment 215: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Floras Creek Mouth to Headwaters	14C-FLOR0	Flow Modification				NPS Assessment - segment 211: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 211: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				NPS Assessment - segment 211: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Floras Lake Lake	14C.FLOR	Aquatic Weeds or Algae	Aquatic Weeds			Systema (1995)	Floras Lake Limnological Survey (PSU, 1995): Extensive growth of Elodea densa, a non-native aquatic plant and a "B" designated weed by ODA, dominates the macrophyte assemblage and interferes with beneficial uses.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>South Coast</i>	Sub	<i>Sixes</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Fourmile Creek Mouth to Headwaters	14C-FOUR0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994)	ODFW Data (Site Hwy 101 Bridge): 7 day average of daily maximum of approximately 68.3 with 20 days exceeding temperature standard (64) in 1994.		303(d) List	
Garrison Lake Lake	14C.GARR	Aquatic Weeds or Algae	Aquatic Weeds, Algae		Systema (1995); SRI (1990); DEQ (1988); NPS Assessment - segment 375: moderate, observation (DEQ, 1988)	Phase 1 Clean Lake Study: Extensive beds of Elodea densa throughout the lake, "B" designated weeds by ODA, interferes with lake usage and 3 month average of chlorophyll a exceeded standard (15 ug/l) in 1985 and 89 (SRI, 90).	TMDL Established for phosphorus, Approved (12/8/92) and is being Implemented	TMDL Approved	
		Nutrients	Phosphorus	Year Around	Systema (1995); SRI (1990); DEQ (1988); NPS Assessment - segment 375: moderate, observation (DEQ, 1988)	TMDL for phosphorus established (DEQ, 1988), diversion of STP effluent from lake has occurred (November 1994), follow up monitoring to determine current phosphorus budget needed.	TMDL Established for phosphorus, Approved (12/8/92) and is being Implemented	TMDL Approved	
		pH			Systema (1995); SRI (1990); DEQ (1988); NPS Assessment - segment 375: moderate, observation (DEQ, 1988)	DEQ and SRI Data (Site in center of lower basin): 40% (4 of 10) Summer values exceeded standard (6.5 to 8.5) with a maximum of 9.8 between 1985 - 1989 (SRI, 1990).	TMDL Established for phosphorus, Approved (12/8/92) and is being Implemented	TMDL Approved	
Morton Creek Mouth to Headwaters	14C-MORT0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994)	ODFW Data (Site Hwy 101 Bridge): 7 day average of daily maximum of approximately 65.3 with 34 days exceeding standard (64) in 1994.		303(d) List	
New River Mouth to Headwaters	14C-NEW0	Flow Modification			NPS Assessment - segment 210: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data (1994); NPS Assessment - segment 210: severe, data (DEQ, 1988)	BLM Data (3 Sites): 7 day average of daily maximum of 82.3, 78.9, and 79.9 with 58, 58, and 87 days respectively exceeding temperature standard (64) in 1994.		303(d) List	

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Basin <i>South Coast</i>		Sub		Sixes		Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season						
Panther Creek Mouth to Headwaters	14C-PANT0	Temperature	Rearing 64 F (17.8 C)	Summer		USFS Data (1992, 1993)	USFS Data (Site near mouth): 7 day average of daily maximum of less than 64 did not exceed temperature standard (64) in 1992 - 1993 (USFS, 1992-1993).	Did not meet listing criteria	OK	
Rusty Creek Mouth to Headwaters	14C-RUST0	Habitat Modification				NPS Assessment - segment 336: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sixes River Mouth to Headwaters	14C-SIXE0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring		DEQ Data	DEQ Data (Site 402204; RM 5.5): 0% (0 of 5) FWS values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer		DEQ Data	DEQ Data (Site 402204; RM 5.5): 0% (0 of 6) Summer values exceeded fecal coliform standard (400) between 1992 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer		DEQ Data	DEQ Data (Site 402204; RM 5.5): 0% (0 of 7) Summer values exceeded chlorophyll a standard (15 ug/l) between 1992 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	June 1 - September 30		DEQ Data	DEQ Data (Site 402204; RM 5.5): 0% (0 of 7) June through September values exceeded standard (8 mg/l or 90 % saturation) between 1992 - 1995 (Cold water rearing, approximately June - September).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - May 31		DEQ Data	DEQ Data (Site 402204; RM 5.5): 17% (1 of 6) October through May values exceeded standard (11 mg/l or 95% saturation) between 1992 - 1995 (Cold water spawning, approximately October - May).	Did not meet listing criteria	OK	
		pH		Summer		DEQ Data	DEQ Data (Site 402204; RM 5.5): 0% (0 of 7) Summer values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	Sub	Sixes							
<i>South Coast</i>									
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	14C-SIXE0	pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402204; RM 5.5): 0% (0 of 5) FWS values exceeded pH standard (6.5 - 8.5) between 1992 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segments 212 & 213: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994); DEQ Ambient Data; NPS Assessment - segments 212 & 213: moderate, data (DEQ, 1988)	ODFW Data (2 Sites: Near Hwy 101 and Above Edson Cr; RM 5.5 and 10.2): 7 day average of daily maximums of approximately 72.5 with 61 days exceeding temperature standard (64) at both sites in 1994.		303(d) List	
Sixes River, Middle Fork Mouth to Headwaters	14C-SIMF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1994); Georgia Pacific Data (1994)	Georgia Pacific Data (1 Site): 7 day average of daily maximum of less than 64 did not exceed temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Sixes River, North Fork Mouth to Headwaters	14C-SINF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1994); Georgia Pacific Data (1994)	Georgia Pacific Data (1 Site): 7 day average of daily maximum of less than 64 did not exceed temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Sixes River, South Fork Mouth to Headwaters	14C-SISF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1992; 1991 and 1993)	USFS Data (Site near mouth): 7 day average of daily maximums exceeded temperature standard (64) in 1991 and 1992 but not 1993.			303(d) List
Suger Creek Mouth to headwaters	14C-SUGE0	Temperature	Rearing 64 F (17.8 C)	Summer	Georgia-Pacific data	Site above mouth, No temperature exceedences, 7 day Ave. Max. for 1995/96/97 was 62.4/63.5/63.5°F. Temperature standard is 17.8°C (64°F).	Did not meet listing criteria	OK	Addition
Twomile Creek Mouth to Headwaters	14C-TWOM0	Temperature			Concern identified in 94/96 303(d) list review		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>South Coast</i>		Sub <i>Sixes</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Willow Creek Mouth to Headwaters	14C-WILL0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994)	ODFW Data (2 Sites: County and Hwy Bridges): 7 day average of daily maximums of approximately 76 and 69.5 with 50 and 48 days respectively exceeding temperature standard (64) in 1994.		303(d) List	

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Basin <i>Umatilla</i>		Sub <i>Middle Columbia / Lake Wallula</i>			Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season				
Juniper Canyon (E of Umatilla R)								
Mouth to Headwaters	27A-JUNI0	Dissolved Oxygen (DO)			NPS Assessment - segment 517: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 517: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 517: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Juniper Canyon (W of Umatilla R)								
Mouth to Headwaters	27A-JUNP0	Dissolved Oxygen (DO)			NPS Assessment - segment 531: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 531: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 531: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Sanford Canyon								
Mouth to Headwaters	27A-SANF0	Dissolved Oxygen (DO)			NPS Assessment - segment 518: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 518: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 518: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Sixmile Canyon								
Mouth to Headwaters	27A-SIXM0	Dissolved Oxygen (DO)			NPS Assessment - segment 516: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 516: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	Sub								
<i>Umatilla</i>		<i>Middle Columbia / Lake Wallula</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	27A-SIXM0	Temperature			NPS Assessment - segment 516: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Strawberry Canyon									
Mouth to Headwaters	27A-STRA0	Dissolved Oxygen (DO)			NPS Assessment - segment 519: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 519: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 519: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Alkali Canyon Mouth to Headwaters	27B-ALKA0	Dissolved Oxygen (DO)			NPS Assessment - segment 522: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 522: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 522: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Beaver Creek Mouth to Headwaters	27B-BEAV0	Habitat Modification			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 79.4%; Wood pieces 9.2 to 28.6, Stream in good shape. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.	Did not meet listing criteria	OK	Addition
		Sedimentation			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 61%. Stream is in the undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition

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Basin <i>Umatilla</i>	Sub <i>Umatilla</i>	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bell Cow Creek Mouth to Headwaters	27B-BELC0	Habitat Modification			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 3.9%; Wood pieces 4.9 to 13.9. Undesirable pools and marginal wood. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
		Sedimentation			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 11 to 17%. Stream is in marginal category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.	Did not meet listing criteria	Potential Concern	Addition
Birch Creek Mouth to Headwaters	27B-BIRC0	Flow Modification			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 267: moderate, observation (DEQ, 1988)	Wild Summer Steelhead populations are a possible species of concern, flows are frequently below Instream Water Right (59836) as measured at USGS gage (14025000) and have been identified as a limiting factor (ODFW, 1993; CTUIR, 1990).		303(d) List	
		Habitat Modification			ODFW observations		No supporting data or information	Need Data	Addition
		Nutrients			NPS Assessment - segment 267: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 267: moderate, observation (DEQ, 1988); ODFW observations		No supporting data or information	Need Data	

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Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	27B-BIRC0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994); NPS Assessment - segment 267: moderate, observation (DEQ, 1988)	ODFW Data (2 Sites: Approximately RM 3.0 and RM 6.0): 7 day average of daily maximum of 78 and 85.6 with 93 and 128 days respectively exceeding temperature standard (64) in 1994.		303(d) List	
Birch Creek, East Fork Mouth to Pearson Creek	27B-BIEF0	Flow Modification			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 268: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Headwaters		Habitat Modification			Umatilla River Salmon & Steelhead Plan (1990); ODFW observations; ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 9%; Wood pieces 0.1 to 2.9. Both measures are in the Undesirable category. Data on additional Measures available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
Mouth to Pearson Creek		Nutrients			NPS Assessment - segment 268: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Headwaters		Sedimentation			ODFW observations; ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics Gradient <1.5% (% Area) desirable <12 %, Undesirable >25%. Survey results were between 3% and 6%. Stream is in the desirable category. Data on additional measures available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.	No supporting data or information	OK	Addition

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Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Pearson Creek	27B-BIEF0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data; NPS Assessment - segment 268: moderate, observation (DEQ, 1988)	ODFW Data (2 Sites: Near mouth and Near Johnson Creek): 7 day average of daily maximum of 68.3 and 78 with 36 and 101 days respectively exceeding temperature standard (64) in 1994. 1992 data also showed weekly averages in high 70's (ODFW, 1993).		303(d) List	
Birch Creek, West Fork Mouth to Headwaters	27B-BIWF0	Dissolved Oxygen (DO)			NPS Assessment - segment 533: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 533: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Umatilla River Salmon & Steelhead Plan (1990); ODFW observations; ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 10.4%; Wood pieces 0.7 to 11.5. Pool is marginal, wood is in undesirable category. Data on additional measures available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
		Sedimentation			NPS Assessment - segment 269: moderate, observation (DEQ, 1988); ODFW observations; ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were between 9 and 30%. Stream is in marginal to undesirable condition. Data on additional measures available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	27B-BIWF0	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994); NPS Assessment - segment 533: moderate, observation (DEQ, 1988)	ODFW Data (2 Sites: Approximately RM 2.0 and RM 15.0): 7 day average of daily maximum of 84.8 and 65.7 with 64 and 31 days respectively exceeding temperature standard (64) in 1994.		303(d) List	
Boston Canyon Creek Mouth to Headwaters	27B-BOSC0	Habitat Modification			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 10.8%; Wood pieces 0. Marginal pools and undesirable wood. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
		Sedimentation			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 24%. Stream is in the undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
Buckaroo Creek Mouth to Headwaters	27B-BUCK0	Flow Modification			Umatilla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data (Entirely Tribal Waters)	
		Habitat Modification			Umatilla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data (Entirely Tribal Waters)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	27B-BUCK0	Temperature	Rearing 64 F (17.8 C)	Summer	CTUIR Data (1993, 1994)	CTUIR Data (Site at RM 2.0): 7 day average of daily maximum of 75.8 and 79.6 with 79 and 94 days exceeding temperature standard (64) in 1993 and 1994 respectively.		303(d) List (Entirely Tribal Waters)	
Butcher Creek Mouth to Headwaters	27B-BUTC0	Flow Modification			NPS Assessment - segment 338: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 338: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 338: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 338: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 338: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Butter Creek Mouth to Little Butter Creek	27B-BUTT0	Bacteria			NPS Assessment - segment 242, 244: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 242: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 242: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Umatilla River Salmon & Steelhead Plan (1990); ODFW observations		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 242, 244: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub <i>Umatilla</i>	Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
		Mouth to Little Butter Creek	27B-BUTT0	pH			DEQ data	Two of thirteen samples between 1993 and 1997 exceeded a pH of 9.0 (15%)		303(d) List	Addition
				Sedimentation			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 242, 244: moderate, observation (DEQ, 1988); ODFW observations		No supporting data or information	Need Data	
				Temperature			NPS Assessment - segment 242: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Little Butter Creek to E Fk Butter Creek		27B-BUTT19.4			Bacteria		NPS Assessment - segment	No supporting data	
				Dissolved Oxygen (DO)			242: moderate, observation (DEQ, 1988)		or information		
				Flow Modification			NPS Assessment - segment 242, 243: moderate, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
				Nutrients			NPS Assessment - segment 242: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
				Sedimentation			NPS Assessment - segment 242, 243: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
				Temperature			NPS Assessment - segment 242, 243: moderate/ severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Butter Creek, East Fork									
		Mouth to Headwaters	27B-BUEF0	Dissolved Oxygen (DO)			NPS Assessment - segment 243: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
				Flow Modification			NPS Assessment - segment 243: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
				Sedimentation			NPS Assessment - segment 243, 245: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	27B-BUEF0	Temperature			NPS Assessment - segment 243: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Butter Creek, North Fork									
Mouth to Headwaters	27B-BUNF0	Flow Modification			Umatilla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Habitat Modification			Umatilla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
Butter Creek, South Fork									
Mouth to Headwaters	27B-BUSF0	Flow Modification			Umatilla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Habitat Modification			Umatilla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
Calamity Creek									
Mouth to Headwaters	27B-CALA0	Habitat Modification			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 4.8%; Wood pieces 0 to 2.4. Undesirable pools and wood. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
		Sedimentation			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 1 to 7%. Stream is in the desirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.	Did not meet listing criteria	OK	Addition
Cold Springs Reservoir									
Reservoir	27B.COLD	Nutrients			Atlas of Oregon Lakes (PSU, 1985)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Coombs Canyon Mouth to Headwaters	27B-COOM0	Dissolved Oxygen (DO)			NPS Assessment - segment 524: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 524: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 524: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Coonskin Creek Mouth to Headwaters	27B-COON0	Habitat Modification			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 29.5%; Wood pieces 1.6. Stream in marginal to poor condition. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Entirely Tribal Waters)	Addition
		Sedimentation			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 31%. Stream is in the undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Entirely Tribal Waters)	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub <i>Umatilla</i>	Season	Parameter	Criteria	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Cottonwood Creek Mouth to Headwaters	27B-COTT0		Habitat Modification		ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 24.9%; Wood pieces 3.4. Stream in marginal to poor condition. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Entirely Tribal Waters)	Addition
					ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 32%. Stream is in the undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Entirely Tribal Waters)	Addition
Darr Creek Mouth to Headwaters	27B-DARR0		Habitat Modification		ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 5.1%; Wood pieces 2.1 to 3.5. Undesirable pools and undesirable wood. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	27B-DARR0	Sedimentation			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 11 to 20%. Stream is in marginal to undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.	Did not meet listing criteria	Potential Concern	Addition
George Canyon									
Mouth to Headwaters	27B-GEOR0	Dissolved Oxygen (DO)			NPS Assessment - segment 525: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 525: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 525: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Gerking Creek									
Mouth to Headwaters	27B-GERK0	Dissolved Oxygen (DO)			NPS Assessment - segment 536: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 536: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 536: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Greasewood Canyon									
Mouth to Headwaters	27B-GREA0	Dissolved Oxygen (DO)			NPS Assessment - segment 535: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 535: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 535: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Hermiston Drain, North Mouth to headwaters	27B-HEDN0	Toxics	Ammonia	Summer	DEQ Data	DEQ Data site at RM .5: for 1996 2 of 3 samples exceeded both gold and silver book criteria for ammonia.		303(d) List	Addition
Jack Creek Mouth to Headwaters	27B-JACK0	Dissolved Oxygen (DO)			NPS Assessment - segment 538: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 538: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 538: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Line Creek Mouth to Headwaters	27B-LINE0	Habitat Modification			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 15.4%; Wood pieces 3.4. Marginal pools and undesirable wood. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
		Sedimentation			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 28%. Stream is in the undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition

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Basin <i>Umatilla</i>	Sub <i>Umatilla</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Little Beaver Creek Mouth to Headwaters	27B-BEAL0	Habitat Modification			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 10.4%; Wood pieces 7.5 to 18.2. Stream in marginal to poor condition. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being		303(d) List	Addition
		Sedimentation			NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988); ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were between 57% and 93%. Stream is in the undesirable category. Additional measurement data available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
Little Butter Creek Mouth to Headwaters	27B-BULI0	Flow Modification			NPS Assessment - segment 246, 247: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			ODFW observations		No supporting data or information	Potential Concern	Addition
		Sedimentation			ODFW observations		No supporting data or information	Potential Concern	Addition
Mouth to Lena									
Mouth to Headwaters		Temperature			NPS Assessment - segment 246, 247: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub <i>Umatilla</i>	Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lost Pin Creek		Mouth to Headwaters	27B-LOSP0	Habitat Modification			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Frequency (channel width between pools) Desirable >5 - 8, Undesirable >20 and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Frequency 13.4 to 156.4; Wood pieces 3.3 to 21. Majority in undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
				Sedimentation			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 12 to 40%. Majority in undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
Matlock Canyon		Mouth to Headwaters	27B-MATL0	Dissolved Oxygen (DO)			NPS Assessment - segment 521: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
				Flow Modification			NPS Assessment - segment 521: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
				Temperature			NPS Assessment - segment 521: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
McKay Creek		Mouth to McKay Reservoir	27B-MCKA0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 503: moderate, observation (DEQ, 1988)	DEQ Data (2 Sites: 402767 and 404703; RM 4.1 and 1.5): 12% (2 of 16) FWS values exceeded fecal coliform standard (400) with a maximum of 1100 between WY 1986 - 1995. (Data combined for two sites).		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub <i>Umatilla</i>	Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
		Mouth to McKay Reservoir	27B-MCKA0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994; DEQ, 1992); NPS Assessment - segment 503: moderate, observation (DEQ, 1988)	DEQ Data (2 Sites: 402767 and 404703; RM 4.1 and 1.5): 14% (3 of 21) Summer values exceeded fecal coliform standard (400) with a maximum of 1100 between WY 1986 - 1995. (Data combined for two sites).		303(d) List	
				Chlorophyll a		Summer	DEQ Data - Preliminary TMDL Report (DEQ, 1988); NPS Assessment - segment 262, 263: severe, observation (DEQ, 1988)	DEQ Data (Sites 402767 and 404703; RM 4.1 and 1.5): 7% (1 of 14) and 0% (0 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
				Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	DEQ Data	DEQ Data (2 Sites: 402767 and 404703; RM 4.1 and 1.5): 0% (0 of 38) Annual values exceeded dissolved oxygen cool water fishery rearing standard (6.5 mg/l). Cool water fishery, annual.	Did not meet listing criteria	OK	
				Flow Modification			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 503: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
				Habitat Modification			Umatilla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
				Nutrients			NPS Assessment - segment 503: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
				pH		Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 402767 and 404703; RM 4.1 and 1.5): 20% (3 of 15) FWS values exceeded pH standard (8.5) with a maximum of 9.4 between WY 1986 - 1995. (Data combined for two sites).		303(d) List	
				pH		Summer	DEQ Data	DEQ Data (2 Sites: 402767 and 404703; RM 4.1 and 1.5): 0% (0 of 22) Summer values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995. (Data combined for two sites).	Did not meet listing criteria	OK	
				Sedimentation			ODFW observations		No supporting data or information	Need Data	Addition

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Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to McKay Reservoir	27B-MCKA0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, DEQ, 1994)	DEQ Data (Sites 402767 and 404703; RM 4.1 and 1.5): 36% (8 of 22) Summer values exceeded temperature standard (64) with a maximum of 75 between WY 1986 - 1995. (Data combined for two sites).		303(d) List	
McKay Reservoir to Headwaters	27B-MCKA9.5	Flow Modification			WRD Data; NPS Assessment - segment 270: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Habitat Modification			ODFW observations		No supporting data or information	Need Data (Partially Tribal Waters)	Addition
		Sedimentation			NPS Assessment - segment 270: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Temperature			NPS Assessment - segment 270: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	

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Basin <i>Umatilla</i>	Sub <i>Umatilla</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
McKay Creek, North Fork Mouth to headwaters	27B-MCNF0	Habitat Modification			ODFW observations; ODFW Habitat Surveys 1995-97	This evaluation pertains to McKay Creek, North Fork and its tributaries. Most of watershed streams did not meet the ODFW guidelines. ODFW Habitat Benchmarks for Pool Area (% total Stream Area) Desirable >35, Undesirable <10 and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 9.5; Wood pieces 0.6 to 18.9. Stream in the undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Partially Tribal Waters)	Addition
		Sedimentation			ODFW observations; ODFW Habitat Surveys 1995-97	This evaluation pertains to McKay Creek and its tributaries. Most of watershed streams did not meet the desirable condition for Silt/Sand/Organics (% area), ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 8 to 47%. Majority in marginal category. Because of undesirable condition of the tributaries stream is listed. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Partially Tribal Waters)	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	CTUIR data	CTUIR site at mouth 1997 data shows exceedence of temperature criteria, 7 day ave. max. 83.0°F		303(d) List (Partially Tribal Waters)	Addition
McKay Creek, South Fork Mouth to headwaters	27B-MCSF0	Habitat Modification			ODFW observations		No supporting data or information	Potential Concern	Addition

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Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to headwaters	27B-MCSF0	Sedimentation			ODFW observations		No supporting data or information	Potential Concern	Addition
McKay Reservoir Reservoir	27B.MCKA	Aquatic Weeds or Algae	Algae	Summer	Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 627: moderate, observation (DEQ, 1988)	PSU Data (Site near deepest area): Heavy blooms of blue-green algae (<i>Aphanizomenon flos-aquae</i>) observed (PSU, 1985).	Did not meet listing criteria (more than one measurement needed) but had an elevated pH measurement that was above the "further study" criteria and should be studied as part of TMDL effort	Need Data	
		pH		Summer	Atlas of Oregon Lakes (PSU, 1985)	PSU Data (Site near deepest area): 1 pH value of 8.8 measured which exceeded "study" criteria (PSU, 1985).	Did not meet listing criteria (more than one measurement needed) but had an elevated pH measurement that was above the "further study" criteria and should be studied as part of TMDL effort	Need Data	
Meacham Creek Mouth to East Meacham Creek	27B-MEAC0	Dissolved Oxygen (DO)			NPS Assessment - segment 264: severe, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Flow Modification			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 264: severe, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	

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Basin <i>Umatilla</i>	Sub <i>Umatilla</i>	Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
		Mouth to East Meacham Creek	27B-MEAC0	Habitat Modification			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 264: severe, observation (DEQ, 1988); ODFW Habitat Surveys 1995-97	This evaluation pertains to Meacham Creek and its tributaries. Most of watershed streams did not meet the desirable condition for Pool area or Wood pieces in ODFW guidelines. For Meacham Creek ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 35.6%; Wood pieces 1.6. Listed because stream segment is marginal and most tributaries are in the undesirable category. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Partially Tribal Waters)	Addition
				Sedimentation			NPS Assessment - segment 264: severe, observation (DEQ, 1988); ODFW Habitat Surveys 1995-97	This evaluation pertains to Meacham Creek and its tributaries. Most of watershed streams did not meet the desirable condition for Silt/Sand/Organics (% area), however, the survey of Meacham Creek showed it meeting the desirable ODFW guidelines. ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 7%. Listed as Potential Concern, because many of the tributaries are in the marginal or undesirable category. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.	Did not meet listing criteria	Potential Concern (Partially Tribal Waters)	Status Modification
				Temperature	Rearing 64 F (17.8 C)	Summer	CTUIR Data; NPS Assessment - segment 264: severe, observation (DEQ, 1988) USFS data	CTUIR Data (3 Sites: RM 2.0, RM 5.25, RM 13): 7 day average of daily maximum of 77.1/74.2/77.2 and 78.5/74.4/77.1 in 1992/93/94 and 73.0 in 1994 respectively. At all sites all years exceeded temperature standard (64)		303(d) List (Partially Tribal Waters)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub <i>Umatilla</i>	Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
		East Meacham Creek to Headwaters	27B-MEAC18.5	Habitat Modification			ODFW observations; ODFW Habitat Surveys 1995-97	This evaluation pertains to Meacham Creek and its tributaries. Most of watershed streams did not meet the desirable condition for Pool area or Wood pieces in ODFW guidelines. For Meacham Creek ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 13.8%; Wood pieces 0.8 to 9.3. Listed because stream segment is marginal to undesirable and most tributaries are in the undesirable category. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
				Sedimentation			ODFW observations; ODFW Habitat Surveys 1995-97	This evaluation pertains to Meacham Creek and its tributaries. Most of watershed streams did not meet the desirable condition for Silt/Sand/Organics (% area). ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were between 3 and 40%. Listed because of marginal condition and majority of tributaries are in the undesirable category. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
				Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (1994)	CTUIR site above Tie Creek 1993/94/95/96 data shows exceedence of temperature criteria, 7 day ave. max. 78.0/74.0/77.0/76.075.0°F; ODFW Data (Site near RM 31.0): 7 day average of daily maximum of 70.8 with 46 days exceeding temperature standard (64) in 1994.		303(d) List	

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Basin <i>Umatilla</i>	Sub <i>Umatilla</i>	Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
		Meacham Creek, East Fork									
		Mouth to Headwaters	27B-MEEF0	Temperature	Rearing 64 F (17.8 C)	Summer	CTUIR data	CTUIR Data (Site at mouth): 7 day average of daily maximum of 64.0/65.0/67.0 in 1993/95/96 exceeded the temperature standard (64).		303(d) List	Addition
		Meacham Creek, North Fork									
		Mouth to Headwaters	27B-MENF0	Dissolved Oxygen (DO)			NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
				Flow Modification			NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
				Habitat Modification			NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988); ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 11%; Wood pieces 3.2 to 20.3, a majority below 10. Stream marginal to poor condition. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
				Sedimentation			NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988); ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were between 6 and 17%. Most survey sites were marginal. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.	Did not meet listing criteria	Potential Concern	Status Modification
				Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data; NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988)	USFS Data (Site at Umatilla National Forest boundary above Bear Creek): 7 day average of daily maximum of 65.4/ 71.5/68/67°F exceeded temperature standard (50°F) in 1993/94/95/96 respectively.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub <i>Umatilla</i>	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mill Creek Mouth to Headwaters	27B-MILL0	Habitat Modification			NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988); ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 5.3%; Wood pieces 5.3 to 25, a majority in marginal to poor condition. Additional measurement data available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
			Sedimentation	NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988); ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics Gradient <1.5% (% Area) desirable <12 %, Undesirable >25%. Survey results were between 18% and 49%. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition	
Mission Creek Mouth to Headwaters	27B-MISS0	Habitat Modification			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 10.6%; Wood pieces 6.6. Stream in marginal to poor condition. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Entirely Tribal Waters)	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	27B-MISS0	Sedimentation			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 24%. Stream is in the undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Entirely Tribal Waters)	Addition
Moonshine Creek Mouth to Headwaters	27B-MOON0	Habitat Modification			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% total Stream Area) Desirable >35, Undesirable <10 and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 18.5; Wood pieces 1.2. Marginal pools and undesirable wood. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Entirely Tribal Waters)	Addition
		Sedimentation			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 21%. Stream is in the undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Entirely Tribal Waters)	Addition
Owings Canyon Mouth to Headwaters	27B-OWNI0	Dissolved Oxygen (DO)			NPS Assessment - segment 526: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 526: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	27B-OWNI0	Temperature			NPS Assessment - segment 526: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Patawa Creek									
Mouth to Headwaters	27B-PATA0	Dissolved Oxygen (DO)			NPS Assessment - segment 528: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Flow Modification			NPS Assessment - segment 528: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Temperature			NPS Assessment - segment 528: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
Pearson Creek									
Mouth to Headwaters	27B-PEAR0	Habitat Modification			NPS Assessment - segment 444: moderate, observation (DEQ, 1988); ODFW observations		No supporting data or information	Need Data	
		Sedimentation			ODFW observations		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Umatilla National Forest boundary): 7 day average of daily maximum of 58.9/63/59°F did not exceed temperature standard (64) in 1993/94/95 respectively.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Rail Creek Mouth to Headwaters		27B-RAIL0	Habitat Modification			ODFW Habitat Surveys 1995-97 Using ODFW Habitat Benchmarks for Pool Area (% total Stream Area) Desirable >35, Undesirable <10 and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 4.4; Wood pieces 0.9 to 5.5. All in undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition	
			Sedimentation							ODFW Habitat Surveys 1995-97 Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 11 to 27%. Majority in undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.
Rayn Creek Mouth to headwaters		27B-RAYN0	Temperature	Rearing 64 F (17.8 C)	Summer	CTUIR data	CTUIR site at mouth 1993 data did not show exceedence of temperature criteria, 7 day ave. max. 64.0°F	Did not meet listing criteria	OK	Addition
Sheep Creek Mouth to Headwaters		27B-SHEE0	Habitat Modification			NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988); ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 2.1%; Wood pieces 12.1 to 24.2, a majority in marginal condition. Additional measurement data available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	27B-SHEE0	Sedimentation			NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988); ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were between 21% and 85%. Stream in undesirable category. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
Shimmiehorn Creek Mouth to Headwaters	27B-SHIM0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximum of 65.0/59.7/63/62/67°F exceeded Bull Trout temperature standard (50) in 1993/94/95/96/97 respectively.		303(d) List	
Speare Canyon Mouth to Headwaters	27B-SPEA0	Dissolved Oxygen (DO)			NPS Assessment - segment 523: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 523: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 523: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Spring Hollow Creek Mouth to Headwaters	27B-SPRH0	Dissolved Oxygen (DO)			NPS Assessment - segment 567: moderate, data (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Flow Modification			NPS Assessment - segment 567: moderate, data (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Temperature			NPS Assessment - segment 567: moderate, data (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	27B-SPRH0	Toxics	Nitrate		CTUIR data	Three sample taken in Sept. 1997 had 19 mg/l of nitrate.		303(d) List (Partially Tribal Waters)	Addition
Squaw Creek Mouth to Headwaters	27B-SQUA0	Flow Modification			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 443: severe, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Habitat Modification			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 443: severe, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Sedimentation			NPS Assessment - segment 443: severe, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Temperature	Rearing 64 F (17.8 C)	Summer	CTUIR Data; NPS Assessment - segment 443: severe, observation (DEQ, 1988)	CTUIR Data (2 Sites: RM 2.0 and RM 9.0; data shown for RM 2): 7 day average of daily maximum of 72.1/70.6/72.5 with 106/82/84 days exceeding temperature standard (64) in 1992/93/94 respectively.		303(d) List (Partially Tribal Waters)	
Tutuilla Creek Mouth to Headwaters	27B-TUTU0	Dissolved Oxygen (DO)			NPS Assessment - segment 527: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Flow Modification			NPS Assessment - segment 527: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	27B-TUTU0	Temperature			NPS Assessment - segment 527: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
Twomile Creek Mouth to Headwaters	27B-TWOM0	Habitat Modification			NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988); ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% Total Stream Area) Desirable >35%, Undesirable <10% and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 19.2%; Wood pieces .5 to 17.7, a majority in marginal condition. Data on other measures available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		Potential Concern	Addition
		Sedimentation			NPS Assessment - segment 265, 266: severe/moderate, observation (DEQ, 1988); ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics gradient <1.5% (% Area) desirable <8 %, Undesirable >15%. Survey results were between 52% and 92%. Stream in undesirable condition. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
Umatilla River Mouth to Speare Canyon	27B-UMAT0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 257, 258: moderate, data (DEQ, 1988)	DEQ Data (Site 404168; RM 8.7): 12% (3 of 25) Summer values exceeded fecal coliform standard (400) with a maximum of 540 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 257, 258: moderate, data (DEQ, 1988)	DEQ Data (Site 404168; RM 8.7): 8% (2 of 25) FWS values exceeded standard (400) with a maximum of 1600 between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Speare Canyon	27B-UMAT0	Chlorophyll a		Summer	DEQ Data - Preliminary TMDL Report (DEQ, 1988); NPS Assessment - segment 257: moderate, data (DEQ, 1988)	DEQ Data (Site 404168; RM 8.7): 8% (2 of 25) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - March 31	DEQ Data; NPS Assessment - segment 258: severe, data (DEQ, 1988)	DEQ Data (Site 404168; RM 8.7): 6% (1 of 16) October through March values exceeded dissolved oxygen standard (11 mg/l or 95% saturation) with a minimum of 10.5 mg/l between WY 1986 - 1995 (Cool water spawning, approximately October through March).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data; NPS Assessment - segment 258: severe, data (DEQ, 1988)	DEQ Data (Site 404168; RM 8.7): 3% (1 of 34) April through September values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 6.1 mg/l between WY 86 - 95 (Cool water rearing, approximately April through September).	Did not meet listing criteria	OK	
		Flow Modification			Umatilla River Salmon & Steelhead Plan (1990); IWR (ODFW); USGS/WRD Data; NPS Assessment - segment 257, 258: moderate, observation (DEQ, 1988)	Summer Steelhead pop are greatly reduced, runs of Fall/Spring Chinook and Coho no longer present largely due to hydro and irrigation operations on mainstem (CTUIR, 90); Flows have been below IWR (59837) but are increasing due to recent flow augmentation.			303(d) List
		Habitat Modification			ODFW observations		No supporting data or information	Potential Concern	Addition

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Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Speare Canyon	27B-UMAT0	Nutrients	Phosphorus	Summer	DEQ Data - Preliminary TMDL Report (DEQ, 1988); NPS Assessment - segment 257, 258: moderate, data (DEQ, 1988)	DEQ Data (Site 404168; RM 8.7): 37% (10 of 27) Summer values exceeded proposed phosphorus standard of (0.1 mg/l) with a maximum of 0.140 between WY 1986 - 1995. Development of TMDL and modeling shows that phosphorus is not the limiting constituent. Reduction in water temperature will address pH concerns and TMDL will be based on reducing water temperatures. Initially phosphorous levels were thought to be the factor which was driving the pH violations. A preliminary analysis based on limited data was developed about 10 years ago using the EPA Yellow Book guidance level for phosphorous of .1mg/l. This preliminary analysis was used to originally list the river for nutrients. After further data collection and recent TMDL modeling efforts it was found that temperature was the limiting factor for pH not phosphorous and bringing the water temperature down would bring the pH down. Therefore, phosphorous was removed from the 303(d) list as a water quality limiting factor.	Development of TMDL and modeling shows that phosphorus is not the limiting constituent. Reduction in water temperature will address pH concerns and TMDL will be based on reducing water temperatures.	OK	Removed (5)
		pH		Summer	DEQ Data	DEQ Data (Site 404168; RM 8.7): 0% (0 of 27) Summer values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404168; RM 8.7): 0% (0 of 25) FWS values exceeded pH standard (6.5 - 9.0) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 258: moderate, data (DEQ, 1988); ODFW observations		No supporting data or information	Need Data	

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Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Speare Canyon	27B-UMAT0	Temperature	Rearing 64 F (17.8 C)	Summer	CTUIR Data; DEQ ambient data (Temperature Issue Paper, DEQ, 1994); NPS Assessment - segment 257, 258: moderate, observation (DEQ, 1988)	CTUIR Data (Site at RM 4, Threemile Dam): 7 day average of daily maximum of 80.2/69.4/83.3 with 143/67/107 days exceeding temperature standard (64) in 92/93/94 respectively; DEQ (404168; RM 8.7): 85% (23 of 27) Summer values exceeded standard from 86-95.		303(d) List	
Mouth to RM 5		Toxics	Ammonia	Summer	DEQ Data	DEQ Data site at RM 5: for 1996 3 of 8 samples (38%) exceeded gold book criteria for ammonia and 2 of 8 (25%) for Silver book criteria. (Criteria is about 0.1 mg/l depends on pH and temperature)		303(d) List	Addition
Mouth to Mission Creek		Turbidity		Spring/Summer	DEQ data	Four sites above Mission Creek in 1997 were 2 to 26 NTU's, three sites below Mission Creek in 1997 ranged from a low of 14 to a high of 235 NTU's. All down stream measurements represented greater than a 10% increase in turbidity over up stream sites.		303(d) List	Addition
Speare Canyon to Wildhorse Creek	27B-UMAT32.5	Aquatic Weeds or Algae	Periphyton (attached Algae)	May 1 - October 31	DEQ Data, d1 in 305(b) Report (DEQ, 1994; DEQ, 1992); TMDL Report (DEQ, 98); NPS Assessment - segment 260 - 262: moderate/severe, data (DEQ, 1988)	DEQ Umatilla River Basin Data Review (TMDL) 1998, Pg. 3 "The algae of concern in the Umatilla River is periphyton (algae attached to the bottom substrate in the river). and pg. 7 "pH at Highway 11 increases as the temperature, resulting in increased periphyton growth.		303(d) List	Addition
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 262: moderate, observation (DEQ, 1988)	DEQ Data (Site 402074; RM 37.2): 4% (1 of 24) Summer values exceeded fecal coliform standard (400) with a maximum of 460 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 262: moderate, observation (DEQ, 1988)	DEQ Data (Site 402074; RM 37.2): 0% (0 of 25) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data - Preliminary TMDL Report (DEQ, 1988); NPS Assessment - segment 261 - 262: severe, observation (DEQ, 1988)	DEQ Data (Site 402074; RM 37.2): 4% (1 of 24) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Speare Canyon to Wildhorse Creek	27B-UMAT32.5	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October1 - March 31	DEQ Data	DEQ Data (Site 402074; RM 37.2): 0% (0 of 16) October through March values exceeded dissolved oxygen standard (11 mg/l or 95% saturation) between WY 1986 - 1995 (Cold water spawning, approximately April through March).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data	DEQ Data (Site 402074; RM 37.2): 0% (0 of 34) April through September values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water rearing, approximately April - September).	Did not meet listing criteria	OK		
		Flow Modification				NPS Assessment - segment 260 - 261: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification				NPS Assessment - segment 260 - 261: moderate, observation (DEQ, 1988); ODFW observations		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Speare Canyon to Wildhorse Creek	27B-UMAT32.5	Nutrients	Phosphorus	Summer	DEQ Data - Preliminary TMDL Report (DEQ, 1988); NPS Assessment - segment 260 - 262: moderate, observation (DEQ, 1988)	DEQ Data (Site 402074; RM 37.2): 72% (18 of 25) Summer values exceeded proposed phosphorus standard of (0.1 mg/l) with a maximum of 0.240 between WY 1986 - 1995. Development of TMDL and modeling shows that phosphorus is not the limiting constituent. Reduction in water temperature will address pH concerns and TMDL will be based on reducing water temperatures. Initially phosphorous levels were thought to be the factor which was driving the pH violations. A preliminary analysis based on limited data was developed about 10 years ago using the EPA Yellow Book guidance level for phosphorous of .1mg/l. This preliminary analysis was used to originally list the river for nutrients. After further data collection and recent TMDL modeling efforts it was found that temperature was the limiting factor for pH not phosphorous and bringing the water temperature down would bring the pH down. Therefore, phosphorous was removed from the 303(d) list as a water quality limiting factor.	Development of TMDL and modeling shows that phosphorus is not the limiting constituent. Reduction in water temperature will address pH concerns and TMDL will be based on reducing water temperatures.	OK	Removed (5)
		pH		November 1 - April 30	DEQ Data, d1 in 305(b) Report (DEQ, 1994; DEQ, 1992); Preliminary TMDL Report (DEQ, 88); NPS Assessment - segment 260 - 262: moderate/severe, data (DEQ, 1988)	DEQ Data (Site 402074; RM 37.2): 6% (1 of 16) November through April values exceeded pH standard (6.5 - 9.0) with a maximum of 9.1 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		May 1 - October 31	DEQ Data, d1 in 305(b) Report (DEQ, 1994; DEQ, 1992); Preliminary TMDL Report (DEQ, 88); NPS Assessment - segment 260 - 262: moderate/severe, data (DEQ, 1988)	DEQ Data (Site 402074; RM 37.2): 38% (13 of 34) May through October values exceeded pH standard (6.5 - 9.0) with a maximum of 9.7 between WY 1986 - 1995.			303(d) List

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Speare Canyon to Wildhorse Creek	27B-UMAT32.5	Sedimentation			NPS Assessment - segment 260 - 262: moderate/severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, DEQ, 1994)	DEQ Data (Site 402074; RM 37.2): 76% (19 of 25) Summer values exceeded standard (64) with a maximum of 74.3 between WY 86 - 95; 7 day average of daily maximum of 73.4 with 56 days exceeding temperature standard in		303(d) List	
		Toxics			NPS Assessment - segment 262: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Wildhorse Creek to Forks	27B-UMAT55	Aquatic Weeds or Algae	Periphyton (attached Algae)	Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994; DEQ, 1992); TMDL Report (DEQ, 98); NPS Assessment - segment 262, 263: moderate, data (DEQ, 1988)	DEQ Umatilla River Basin Data Review (TMDL) 1998, Pg. 3 "The algae of concern in the Umatilla River is periphyton (algae attached to the bottom substrate in the river). and pg. 7 "pH at Highway 11 increases as the temperature, resulting in increased periphyton growth.		303(d) List (Partially Tribal Waters)	Addition
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 262, 263: moderate, data (DEQ, 1988)	DEQ Data (Site 402076; RM 57.1): 0% (0 of 25) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK (Partially Tribal Waters)	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 262, 263: moderate, data (DEQ, 1988)	DEQ Data (Site 402076; RM 57.1): 4% (1 of 24) Summer values exceeded fecal coliform standard (400) with a maximum of 460 between WY 1986 - 1995.	Did not meet listing criteria	OK (Partially Tribal Waters)	
		Chlorophyll a		Summer	DEQ Data - Preliminary TMDL Report (DEQ, 1988); NPS Assessment - segment 262, 263: severe, observation (DEQ, 1988)	DEQ Data (Site 402076; RM 57.1): 0% (0 of 24) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK (Partially Tribal Waters)	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October1 - March 31	DEQ Data	DEQ Data (Site 402076; RM 57.1): 0% (0 of 14) October through March values exceeded dissolved oxygen standard (11 mg/l or 95% saturation) between WY 1986 - 1995 (Cold water spawning, approximately October though March).	Did not meet listing criteria	OK (Partially Tribal Waters)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Wildhorse Creek to Forks	27B-UMAT55	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 30	DEQ Data	DEQ Data (Site 402076; RM 57.1): 3% (1 of 34) April through September values exceeded dissolved oxygen standard (8.0 mg/l) with a minimum of 7.5 mg/l between WY 1986 - 1995 (Cold water rearing, approximately April through September).	Did not meet listing criteria	OK (Partially Tribal Waters)	
		Flow Modification			NPS Assessment - segment 263: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Habitat Modification			NPS Assessment - segment 442: moderate, data (DEQ, 1988); ODFW observations; ODFW Habitat Surveys 1995-97	This evaluation pertains to Umatilla River and its tributaries. Most of watershed streams did not meet the ODFW guidelines. ODFW Habitat Benchmarks for Pool Area (% total Stream Area) Desirable >35, Undesirable <10 and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 26.4 to 35.8% (marginal); Wood pieces 1.1 to 2.7. All in the undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Partially Tribal Waters)	Addition
		Nutrients	Phosphorus	Summer	DEQ Data - Preliminary TMDL Report (DEQ, 1988); NPS Assessment - segment 262, 263: severe/moderate, data (DEQ, 1988)	DEQ Data (Site 402076; RM 57.1): 0% (0 of 25) Summer values exceeded proposed TMDL (0.1 mg/l) for the lower river between WY 1986 - 1995.	Did not meet listing criteria	OK (Partially Tribal Waters)	
		pH		Fall-Winter-Spring	DEQ Data, d1 in 305(b) Report (DEQ, 1994; DEQ, 1992); Preliminary TMDL Report (DEQ, 88); NPS Assessment - segment 262, 263: moderate, data (DEQ, 1988)	DEQ Data (Site 402076; RM 57.1): 8% (2 of 25) FWS values exceeded pH standard (6.5 - 9.0) and 20% (5 of 25) exceeded the further study criteria (8.7) with a maximum of 9.1 between WY 86 - 1995.	Did not meet listing criteria but exceeded the further study pH criteria and should be studied as part of TMDL effort	Study (Partially Tribal Waters)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Wildhorse Creek to Forks	27B-UMAT55	pH		Summer	DEQ Data, d1 in 305(b) Report (DEQ, 1994; DEQ, 1992); Preliminary TMDL Report (DEQ, 88); NPS Assessment - segment 262, 263: moderate, data (DEQ, 1988)	DEQ Data (Site 402076; RM 57.1): 60% (15 of 25) Summer values exceeded pH standard (6.5 - 9.0) with a maximum of 9.6 between WY 1986 - 1995.		303(d) List (Partially Tribal Waters)	
			Sedimentation		NPS Assessment - segment 262, 263: severe, observation/data (DEQ, 1988); ODFW Habitat Surveys 1995-97	This evaluation pertains to Umatilla River and its tributaries. Most of watershed streams did not meet the desirable condition for Silt/Sand/Organics (% area), ODFW Habitat Benchmarks for Silt/Sand/Organics gradient <1.5 (% Area) desirable <12 %, Undesirable >25%. Survey results were 12 to 21%. All in marginal category. Because of undesirable condition of the tributaries stream is listed. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List (Partially Tribal Waters)	Addition
Wildhorse Creek to Lick Creek		Temperature	Rearing 64 F (17.8 C)	Summer	CTUIR Data; DEQ ambient data (Temperature Issue Paper, DEQ, 1994); NPS Assessment - segment 262, 263: moderate, observation (DEQ, 1988)	CTUIR Data (4 Sites: RM 56, 78.5, 79, 81.7; data shown for RM 56 and 81.7): 7 day average of daily maximum of 89.6/81.8/87.1 and 70.5/69.8/73.1 with 111/122/99 and 63/45/71 days exceeding temperature standard (64) in 1991/93/94 respectively.		303(d) List (Partially Tribal Waters)	Segment Modification
Lick Creek to Forks	27B-UMAT89		Sedimentation		ODFW observations		No supporting data or information	Need Data	Addition
			Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1993, 1994); NPS Assessment - segment 442: moderate, data (DEQ, 1988)	CTUIR and USFS Data (Site at RM 89.0 at Corporation): 7 day average of daily maximum of 63.4/63.5/63.1/64/63°F did not exceed temperature standard (64) in 1991/93/94/95/96 respectively.	Did not meet listing criteria	OK

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>		Sub <i>Umatilla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Umatilla River, North Fork									
Mouth to Headwaters	27B-UMNF0	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at gage): 7 day average of daily maximum of 58.3/59.8/57/59 exceeded Bull Trout temperature standard (50) in 1993 and 1994 respectively.		303(d) List	Addition
Umatilla River, South Fork									
Mouth to Thomas Cr	27B-UMSF0	Habitat Modification			ODFW (1993); NPS Assessment - segment 442: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to headwaters		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data (1993, 1994) - Bull Trout Habitat; NPS Assessment - segment 442: moderate, data (DEQ, 1988)	USFS Data (Site at gage): 7 day average of daily maximum of 67.6/70.1/66/67°F in 1993/94/95/96 respectively. (Site above Shimmiehorn Creek): 7 day average of daily maximum of 64.0/61/66.9/67/68.0°F exceeded Bull Trout temperature standard (50) in 1992/93/94/95/96 respectively. All years exceeded Bull Trout temperature standard (50).		303(d) List	
Westgate Canyon									
Mouth to headwaters	27B-WESCO	Temperature	Rearing 64 F (17.8 C)	Summer	ODFW data	1995 ODFW data shows exceedence of temperature criteria, 7 day ave. max. 69.0°F		303(d) List	Addition
Wildhorse Creek									
Mouth to Headwaters	27B-WILD0	Bacteria			NPS Assessment - segment 249, 250: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Flow Modification			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 249, 250: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Habitat Modification			Umatilla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data (Partially Tribal Waters)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Umatilla</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	27B-WILD0	Sedimentation			Umatilla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 249, 250: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data (Partially Tribal Waters)	
		Temperature	Rearing 64 F (17.8 C)	Summer	CTUIR Data (1992 - 1994); ODFW (1994)	CTUIR Data (2 Sites: RM 0 and RM 26.0): 7 day average of daily maximum of nd/81.4/84 and 85.2/70.3/68.2 with nd/122/118 and 135/63/64 days exceeding standard (64) in 1992/93/94 respectively.		303(d) List (Partially Tribal Waters)	
		Toxics	Nitrates	Year Around	NPS Assessment - segment 249: severe, observation (DEQ, 1988), DEQ TMDL data	Data from development of the Umatilla River TMDL shows that Wildhorse Creek nitrate concentrations are significantly elevated throughout the watershed and exceed the drinking water standards at the mouth. Nitrate measurements ranged from 1.7 mg/l to 12.0 mg/l		303(d) List (Partially Tribal Waters)	Addition
Woodhollow Creek Mouth to Headwaters	27B-WOOD0	Habitat Modification			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Pool Area (% total Stream Area) Desirable >35, Undesirable <10 and Wood pieces per 100 m Desirable >20, Undesirable <10. Survey results: Pool Area 2.8; Wood pieces 0.8 to 4.9. All in undesirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.		303(d) List	Addition
		Sedimentation			ODFW Habitat Surveys 1995-97	Using ODFW Habitat Benchmarks for Silt/Sand/Organics (% Area) desirable <8 %, Undesirable >15%. Survey results were 1 to 16%. Majority in desirable category. Other measures also available. Dewatering and degradation of habitat have reduced steelhead populations and eliminated salmon runs, recovery efforts are now being undertaken.	Did not meet listing criteria	OK	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>		Sub <i>Willow</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Balm Fork Mouth to Headwaters	27D-BALM0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USGS Data; d1 in 305(b) Report (DEQ, 1994)	USGS Data (Site 452013119324000, at Willow Creek Lake): 17% (2 of 12) Summer values exceeded fecal coliform standard (400) with a maximum of 673 in 1986.	Did not meet listing criteria	OK	303(d) List
		pH		Summer	USGS Data; d1 in 305(b) Report (DEQ, 1994)				
Blackhorse Creek Mouth to Headwaters	27D-BLAC0	Dissolved Oxygen (DO)			NPS Assessment - segment 534: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification		NPS Assessment - segment 534: moderate, observation (DEQ, 1988)					
		Temperature		NPS Assessment - segment 534: moderate, observation (DEQ, 1988)					
Clarks Canyon Mouth to Headwaters	27D-CLAR0	Dissolved Oxygen (DO)			NPS Assessment - segment 520: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification		NPS Assessment - segment 520: moderate, observation (DEQ, 1988)					
		Temperature		NPS Assessment - segment 520: moderate, observation (DEQ, 1988)					
Eight Mile Canyon Mouth to Headwaters	27D-EIGH0	Dissolved Oxygen (DO)			NPS Assessment - segment 514: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification		NPS Assessment - segment 514: moderate, observation (DEQ, 1988)					

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>	Sub	<i>Willow</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	27D-EIGH0	Temperature			NPS Assessment - segment 514: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Fourmile Canyon Mouth to Headwaters	27D-FOUR0	Dissolved Oxygen (DO)			NPS Assessment - segment 515: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 515: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 515: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Herren Creek Mouth to Headwaters	27D-HERR	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1993, 1994)	USFS Data (Site at Umatilla National Forest boundary): 7 day average of daily maximum of 56.4/63.2/58/62°F did not exceed temperature standard (64) in 1993/94/95/96 respectively.	Did not meet listing criteria	OK	
Hinton Creek Mouth to Headwaters	27D-HINT0	Flow Modification			NPS Assessment - segment 240, 241: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 240, 241: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Shaw Creek Mouth to Headwaters	27D-SHAW	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data (1993, 1994)	USFS Data (Site near mouth): 7 day average of daily maximum of 58.7 and 64.9 did not/did exceed temperature standard (64) in 1993 and 1994 respectively. 1994 was a drought year.	Did not meet listing criteria	Potential Concern List	
Willow Creek Mouth to Willow Cr Reservoir	27D-WILL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USFS Data	USGS Data (Site 452057119324800, below Willow Creek Lake): 0% (0 of 11) Summer values exceeded fecal coliform standard (400) in 1986.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umatilla</i>		Sub		Willow						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Willow Cr Reservoir	27D-WILL0	Dissolved Oxygen (DO) Flow Modification			NPS Assessment - segment 239: severe, data (DEQ, 1988)		No supporting data or information	Need Data		
					ODFW (1995); WRD Data; NPS Assessment - segment 239: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		pH - Summer		Summer	USGS Data; d1 in 305(b) Report (DEQ, 1994)	USGS Data (Site 452057119324800, below Willow Creek Lake): 50% (6 of 12) Summer values exceeded pH standard (6.5 - 9.0) with a maximum of 9.2 in 1986.			303(d) List	
		Sedimentation			NPS Assessment - segment 239: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Willow Cr Reservoir to Headwaters	27D-WILL56	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data; NPS Assessment - segment 239: moderate, observation (DEQ, 1988)	USGS Data (Site 452057119324800, below Willow Creek Lake): 70% (7 of 10) Summer values exceeded temperature standard (64) with a maximum of 72 in 1986.			303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Umatilla National Forest boundary): 7 day average of daily maximum of 59.9/57/57°F did not exceed temperature standard (64) in 1993/95/96.	Did not meet listing criteria	OK		
Willow Creek Reservoir Reservoir	27D.WILL	Aquatic Weeds or Algae	Algae		Corp Report		No supporting data or information	Need Data		
		Nutrients			Corp Report		No supporting data or information	Need Data		
		pH			Corp Report		No supporting data or information	Need Data		

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Bear Creek Mouth to Headwaters	13A-BEAR0	Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		Sedimentation			NPS Assessment - segment 65: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data		USFS Data (Site near mouth): 7 day average of daily maximums of 54.2/52.8/55.9/51.7/54.7/51.1°F did not exceed temperature standard (64) in 1990/91/92/93/94/95 respectively .	Did not meet listing criteria	OK
Big Bend Creek Mouth to Headwaters	13A-BEBIO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums were 65.4/63.0/63.7/60.9/64.3 did not exceed temperature standard (64) in 1990/91/92/93/94 respectively.	Did not meet listing criteria	Potential Concern List	
Black Creek Mouth to Headwaters	13A-BLAC0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Little River Committee data (1994 to 97)	DO measurements appear within criteria of 8.0 mg/l, however, does not met minimum requirements for evaluation.	Did not meet listing criteria	Need Data	Addition
		pH		Summer	Little River Committee data (1994 to 97)	pH measurements appear within criteria of 6.5 to 8.5, however, does not met minimum requirements for evaluation.	Did not meet listing criteria	Need Data	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Little River Committee data (1994 to 97)	USFS Data (Site at mouth): 7 day average of daily maximum for 1994 was 65.3°F exceeding temperature standard (64) (Little R Watershed Analysis (9/95).		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Boulder Creek Mouth to Headwaters	13A-BOUL0	Temperature	Rearing 64 F (17.8 C)	Summer	Harza (1995)	Harza (1995)	Did not meet listing criteria	OK	
		Temperature	Salmon Spawning 55 F (12.8 C)	May - June and September	USFS data	7 -day ave. max. exceeded spawning criteria of (12.8°C) 1992 June (19.1 °C) in Sept. (15.6°C), 1993 June (13.3°C) and Sept. (16.3°C), 1994 June (16.2°C).		303(d) List	Addition
Calf Creek Mouth to Headwaters	13A-CALF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near mouth): 7 day average of daily maximums of 70.3/68.1/71.1/65.2/70.2 exceeded temperature standard (64) in 1990/91/92/93/94 respectively.		303(d) List	
		Temperature	Salmon Spawning 55 F (12.8 C)	June and September	USFS Data	USFS Data 7 -day ave. max. exceeded spawning criteria 100% of measurements exceeded spawning criteria in June 1993 (Max 59.9°F); 100% Sept. 1993 Max (61.0°F); 46% June 1995 Max 62.2 °F) 100% Sept. 1995 (63.1 °F) and 100% June 1997 (61.3 °F), 80% Sept. 1997 (Max 64.8 °F). 1992 June (Max 66.9 °F) Sept. (Max 60.6 °F) and 1994 June (Max 62.2 °F) Sept. (Max 62.6 °F) data are from drought years.	303(d) List	Addition	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96		
Name && Description	Waterbody Segment	Parameter	Criteria	Season							
Canton Creek Mouth to Pass Creek	13A-CANT0	Habitat Modification			Canton Creek Watershed Analysis (BLM, 1995); NPS Assessment - segment 51: severe, data (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Coastal Coho and Searun Cutthroat have been petitioned under the ESA; habitat conditions are in poor condition due to a severe lack of gravel and large wood in portions of the lower river (Canton R Watershed Analysis, 5/95). Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List			
			Sedimentation			Canton Creek Watershed Analysis (BLM, 1995); NPS Assessment - segment 51: moderate, observation (DEQ, 1988)	Coastal Coho and Searun Cutthroat have been petitioned under the ESA; habitat conditions are in poor condition large amounts of fine sediment in portions of the lower river (Canton R Watershed Analysis, 5/95).		303(d) List		
			Temperature	Rearing 64 F (17.8 C)		Summer	USFS Data; Canton Creek Watershed Analysis (BLM, 1995); NPS Assessment - segment 51: moderate, data (DEQ, 1988)	USFS Data (Site at mouth): 7 day average of daily maximums of 73.7/71.6/72.8/70.0/74.5/71.8/72.1°F exceeded temperature standard (64) in 1990/91/92/93/94/96/97 respectively; BLM data also available.		303(d) List	
			Temperature	Salmon Spawning 55 F (12.8 C)		June and September	USFS Data; Canton Creek Watershed Analysis (BLM, 1995); NPS Assessment - segment 51: moderate, data (DEQ, 1988)	USFS Data 7 -day ave. max. exceeded spawning criteria 81% of measurements exceeded spawning criteria in June 1993 (Max 63.0°F); 100% Sept. 1993 Max (65.7°F); 83% June 1995 (Max 66.2°F) 100% Sept. 1995 (65.5°F); 100% June 1996 (Max 64.9 °F), 100% Sept 1996 (Max 62.1 °F) and 100% June 1997 (64.9°F), 100% Sept. 1997 (Max 66.7°F). 1992 June (Max 71.4°F) Sept. (Max 64.2°F) data are from drought years.		303(d) List	Addition

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Pass Creek to headwaters	13A-CANT10	Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; Canton Creek Watershed Analysis (BLM, 1995)				
Cavitt Creek									
Mouth to Plusfour Creek	13A-CAV10	Habitat Modification			Little River Watershed Analysis (USFS, 1995); NPS Assessment - segment 48: moderate, data (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Coastal Coho and Searun Cutthroat have been petitioned under the ESA; habitat conditions are in highly degraded state in part due to lack of large wood and complex habitat in portions of the river (Little R Watershed Analysis, 9/95). Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Evarts Creek	13A-CAV10	pH		Summer	USFS Data, Little River Committee Data	USFS submitted continuous pH monitoring data collected near Cavitt Falls (T26S,R2W,S14) by Resources Northwest, Inc. indicated that pH values of approximately 8.6 exceeded pH standard (8.5) on two consecutive days (9/6-7/95). Little River Committee data indicates an exceedence of pH standard (8.5) on 8/23/95 (8.68) at ballpark past covered bridge.		303(d) List	Addition
Mouth to Plusfour Creek		Sedimentation			Little River Watershed Analysis (USFS, 1995); NPS Assessment - segment 48: moderate, data (DEQ, 1988)	Coastal Coho and Searun Cutthroat have been petitioned under the ESA; habitat conditions are in highly degraded state in part due to large amounts of fine sediment in portions of the river (Little R Watershed Analysis, 9/95).		303(d) List	
Mouth to headwaters		Temperature	Rearing 64 F (17.8 C)	Summer	BLM and USFS Data; NPS Assessment - segment 48: moderate, observation (DEQ, 1988), Little River Committee data (1994 to 97)	BLM Data (4 Sites: mouth in years 1994/95/96, 7 day average of daily maximums was 74.4/73.4/73.9°F; below McKay Creek 1995, 72.9°F; below Buckshot Creek 1994/95/96 was 76.1/70.2/73.9°F; at Cavitt Cr Falls 1994/95 was 74.9/72.9°F and USFS site below Tuttle Creek in 1994/96 was 71.9/68.2°F. All sites all years exceed temperature standard (64). Little River Committee data showed temperatures up to 68.9°F in several years.		303(d) List	Segment Modification
Cedar Creek Mouth to Headwaters	13A-CEDA0	Habitat Modification			Cedar Creek Watershed Analysis (USFS, 1995); NPS Assessment - segment 56: moderate, data (DEQ, 1988)	Searun Cutthroat which have been petitioned under the ESA occur in the stream; habitat conditions (lack of LWD) are below DFC (Cedar Creek Watershed Analysis, USFS, 1995).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 67.7/65.2/67.6/63.4/65.7 exceeded temperature standard (64) in 1990/91/92/93/94 respectively.		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
City Creek									
Mouth to Headwaters	13A-CITY0	Habitat Modification			NPS Assessment - segment 58: moderate, observation (DEQ, 1988), USFS, Upper Steamboat Creek Watershed Analysis, 1997	Study shows reduced large wood pg. 92. Stream contributes to the habitat of fish species protected by the Oregon Plan.		303(d) List	Addition
		Sedimentation			USFS, Upper Steamboat Creek Watershed Analysis, 1997	Figure 48 and 49. Management related landslides 20%; low levels of fines, low substrate embeddedness and moderately truncated macroinvertebrate community.	Did not meet listing criteria	OK	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 67.0/66.4/62.3/65.4/63.9 in 1990/92/93/94/95 respectively. Three out of five years exceeded temperature standard (64).		303(d) List	Addition
Clearwater River									
Mouth to diversion structure	13A-CLEW0	Dissolved Oxygen (DO)	Salmonid spawning:inter gravel DO>8mg/l,water<9mg/l	September 1 - June 30			No supporting data or information	Need Data	Removed (1)
Mouth to Headwaters		Temperature	Rearing 64 F (17.8 C)	Summer	Harza (1995) - near Clearwater No 2 tailrace and Pacificorp data	3 Pacificorp sites at mouth 7 day ave. max. temperatures for 1992/93 were 51.0/48.3°F; midway to Stump Lake in 1992 was 55.7/59.7 in 1993 was 49.9°F; below Stump Lake in 1992 was 58.0°F.	Did not meet listing criteria	OK	
Immediately below Stump Lake	13A-CLEW6	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Pacificorp data	During a Aug 1995 diel study, 11% of DO measurements did not meet standard at beginning of maintenance.		303(d) List	Addition
Clearwater River Diversion									
Between Clearwater Powerhouse #1 and #2	13A-CLED0	Temperature	Rearing 64 F (17.8 C)	Summer	Pacificorp data,	Pacificorp data shows temperature exceeded criteria (64°F) in the diversion channel in 1993 with a 7 day ave. max. of 69.6°F. The thermograph was sitting in less than 1 foot of stagnant water in the canal because maintenance activities had resulted in no flow in the canal.	Did not meet listing criteria	Need Data	Addition

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Immediately below Clearwater #2 Powerhouse	13A-CLED0	Total Dissolved Gas	Above 110 percent of saturation	Year Around	Pacificorp data, Final Technical Report for Water Quality Pacificorp (1995) and The North Umpqua Cooperative Watershed Analysis (Dec., 1997)	Pacificorp reports showed this reach violating the Total Dissolved Gas criteria		303(d) List	Addition
Immediately above Clearwater #2 Powerhouse		Total Dissolved Gas	Above 105 percent of saturation	Year Around	Pacificorp data, Final Technical Report for Water Quality Pacificorp (1995) and The North Umpqua Cooperative Watershed Analysis (Dec., 1997)	Pacificorp reports showed this reach violating the Total Dissolved Gas criteria		303(d) List	Addition
Clover Creek (Little River drainage)									
Mouth to Headwaters	13A-CLLD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Little River Committee data	USFS Data (Site at mouth): in 1994/95 7 day average of daily maximum was 67.4/64.5°F exceeding temperature standard (64) (Little R Watershed Analysis (9/95).		303(d) List	
Cooper Creek (Sutherlin trib.)									
Mouth to Cooper Creek Reservoir	13A-COOS0	Flow Modification			NPS Assessment - segment 44: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Copeland Creek									
Mouth to Headwaters	13A-COPE0	Habitat Modification			NPS Assessment - segment 61 and 62: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 61: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 68.8/69.3/65.9/78.2 exceeded temperature standard (64) in 1990/91/93/94 respectively.		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	13A-COPE0	Temperature	Salmon Spawning 55 F (12.8 C)	June and September	USFS and Pacificorp Data	USFS data: 7 -day ave. max. exceeded spawning criteria 90% of measurements exceeded spawning criteria in June 1993 (Max 59.1°F) and 52% exceeded spawning criteria of June 1995 (61.9 °F). Pacificorp data: Sept. 1993 43% (Max 62.2°F) Sept. 1994 90% (Max 57.6°F).		303(d) List	Addition
Deer Creek Mouth to Diversion	13A-DEER0	Flow Modification		Summer	Pacificorp's North Umpqua Cooperative Watershed Analysis	Report stated a change in fish density has been inferred due to flow diversion. Creek is a diverted tributary which receives a minimum flow of 1 cfs, densities of adult trout have been found to be half the densities of nearby higher flow reaches.		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	Pacificorp's data	Pacificorp data: 7 -day ave. max. did not exceeded rearing criteria Aug. 1993 (Max 57.9°F); Aug 1994 (max 61.0°F); July 1995 (Max 61.5 °F) ; Aug 1997 (Max 58.1°F)	Did not meet listing criteria	OK	Addition
		Temperature	Salmon Spawning 55 F (12.8 C)	June	Pacificorp's and USFS data	Pacificorp data: 7 -day ave. max. exceeded spawning criteria 33% of measurements exceeded spawning criteria in June 1995 (Max 58.3°F); USFS data: 63% June 1997 (Max 58.1°F)		303(d) List	Addition
Diamond Lake Lake	13A.DIAM	Aquatic Weeds or Algae	Algae		Salinas (1995); Sweet (1990); Lauer (1979); McHugh (1979); NPS Assessment - segment 410: moderate, observation (DEQ, 1988)	Salinas (1995): High rates of primary production have been measure and chlorophyll a values ranging up to 48.7 ug/l have been measured in the lake.		303(d) List	
		Nutrients			NPS Assessment - segment 410: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	Salinas (1995); Sweet (1990); Lauer (1979); McHugh (1979); NPS Assessment - segment 410: moderate, observation (DEQ, 1988)	Salinas (1995): Surface pH frequently (approximately 10 of 14 sampling dates) exceeded pH standard (6.5 - 8.5) with a maximum of 9.4 between 1992 - 1994.		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Eagleston Creek Mouth to headwaters	13A-EAGI0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1996 data shows exceedence of temperature criteria, 7 day ave. max. 65.1°F		303(d) List	Addition
Emile Creek Mouth to River Mile 1.0	13A-EMIL0	pH		Summer	USFS Data, Little River Committee Data	USFS submitted continuous pH monitoring data collected near mouth (T26S,R1W,S2) by Resources Northwest, Inc. that showed pH values exceeding standard (8.5) on two consecutive days (9/10-11/95). Little River Committee data indicates an exceedence of pH standard (8.5) on 7/27/96 (9.95) and 8/20/96 (8.95) near the mouth.		303(d) List	Addition
Mouth to headwaters		Temperature	Rearing 64 F (17.8 C)	Summer	BLM data, Little River Committee data (1994 to97)	1996/97 data shows exceedence of temperature criteria, 7 day ave. max. was 67.8/67.8°F. Little River Committee data showed temperatures at the mouth up to 66.0°F in several years.		303(d) List	Addition
Fairy Creek Mouth to Rough Creek	13A-FARY0	Habitat Modification			Fairy Creek Rehabilitation Plan (USFS, 1993)	Low juvenile steelhead numbers obtained from biological investigations in Fairy Creek could be relate to unusually poor habitat conditions (lack of LWD and pool habitat) (Fairy Creek Rehabilitation Plan (USFS, 1993).		303(d) List	
Fall Creek Mouth to Headwaters	13A-FALL0	Sedimentation			NPS Assessment - segment 47: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, in 1996/97 7 day Ave. Max. 60.8/61.8°F	Did not meet listing criteria	OK	Addition
Fish Creek Mouth to PPL Diversion (RM 6.6)	13A-FISH0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Pacificorp data	During a Aug 1995 diel study, 32% of DO measurements did not meet standard at beginning of maintenance.		303(d) List	Addition

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96					
Name && Description	Waterbody Segment	Parameter	Criteria	Season										
Mouth to PPL Diversion (RM 6.6)	13A-FISH0	Dissolved Oxygen (DO)	Salmonid spawning:inter gravel DO>8mg/l,water<9mg/l	September 1 - June 30			No supporting data or information	Need Data	Removed (1)					
										Flow Modification		NPS Assessment - segment 63: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data
										Habitat Modification		NPS Assessment - segment 63: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer	Harza (1995) and Pacificorp data	Harza (1995); Pacificorp data two sites: at mouth in 1992/93 7 day ave. max. temperature was 69.0/64.2; site above diversion in 1992/93/94 was 66.9/59.4/64.3°F. Four out of five exceeded temperature criteria.	303(d) List	Addition						
		Temperature	Salmon Spawning 55 F (12.8 C)	May - June	Pacificorp data, North Umpqua Cooperative Watershed Analysis (Dec. 1997)		Pacificorp report (1997) showed this reach violating the temperature criteria for spawning	303(d) List	Addition					
Flat Rock Creek Mouth to headwaters	13A-FLAR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1996 data shows exceedence of temperature criteria, 7 day ave. max. was 64.6°F	303(d) List	Addition						
Harrington Creek Mouth to headwaters	13A-HARR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	1997 data shows exceedence of temperature criteria, 7 day ave. max. 66.9°F	303(d) List	Addition						
Hemlock Creek Mouth to headwaters	13A-HEML0	Temperature	Rearing 64 F (17.8 C)	Summer	Little River Committee data (1994 to 97)	Minimum requirements of multi year measurements during season of concern were not met.	Did not meet listing criteria	Need Data	Addition					
Horse Heaven Creek Mouth to Headwaters	13A-HORS0	Habitat Modification			NPS Assessment - segment 59: moderate, data (DEQ, 1988), USFS, Upper Steamboat Creek Watershed Analysis, 1997	Study shows reduced large wood (page 92). Stream contributes to the habitat of fish species protected by the Oregon Plan.		303(d) List	Addition					

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	13A-HORS0	Sedimentation			Upper Steamboat Creek Watershed Analysis, 1997	Figure 48 and 49. Management related landslides 70%; embeddedness moderate and significant inhibitor of invertebrate community development which is moderately truncated. Indicates fisheries impairment. 1990 data shows exceedence of temperature criteria, 7 day ave. max. 68.0°F		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data			303(d) List	Addition
Jim Creek Mouth to Headwaters	13A-JIM0	Sedimentation			NPS Assessment - segment 417: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to RM 2		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data, Little River Committee data	BLM Data (Site at mouth): in years 1994/95/96/97, 7 day average of daily maximums of 65.3/62.5/64.5/62.6°F exceeded temperature standard (64) two out of four years.		303(d) List	
RM2 to Headwaters	13A-JIM2	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Upper site): in 1994/95, 7 day average of daily maximums of 60.2/58.1°F did not exceeded temperature standard (64).	Did not meet listing criteria	OK	
Kelly Creek Mouth to Headwaters	13A-KELL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site near mouth): 7 day average of daily maximums of 61.1 met temperature standard (64) with 0 days exceeding standard in 1994.	Did not meet listing criteria	OK	
Lake Creek Lemolo Lake to Diamond Lake	13A-LAKE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Harza (1995)	USFS Data (Site at Hwy 138): 7 day average of daily maximums of 69.1/62.8/67.3/65.9 with maximums of 70.5/64.6/69.8/67.8 exceeding temperature standard (64) in 1992/93/94/95 respectively.		303(d) List	
		Temperature	Salmon Spawning 55 F (12.8 C)	September 1 - July 31	Final Technical Report for Water Quality Study, Pacificorp (1995)	Pacificorp report (1995) showed this reach violating the temperature criteria for spawning		303(d) List	Addition

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Lemolo Lake Reservoir	13A.LEMO	Aquatic Weeds or Algae	Algae		Harza (1995)	During Aug 1992 and 1993, pH measured in upper 5-6 meters exceeded pH standard (8.5) with a maximum of 9.7 measured on 8/17/92; algal blooms (Anabaena sp) were the cause with a maximum 3 month chlorophyll a average of 14.3 ug/l measured in 93 (Harza, 95).		303(d) List	
		pH		Summer	Harza (1995); Atlas of Oregon Lakes (PSU, 1985) and Final Technical Report for Water Quality Study, Pacificorp (1995)	During August 1992 and 1993, pH measured in upper 5-6 meters exceeded pH standard (8.5) with a maximum of 9.7 measured on 8/17/92, algal blooms (Anabaena sp) were the cause (Harza, 1995). Pacificorp 1995 reports pH up to 9.7 in the top 6 meters.		303(d) List	
Little River Mouth to Emile Creek	13A-LITTO	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Little River Committee data (1994 to 97)	Numerous measurements of DO show consistent values in the 9 mg/l range. Well above the standard for summer time cold-water aquatic life.	Did not meet listing criteria	OK	Addition
Mouth to Hemlock Creek		Habitat Modification				Little River Watershed Analysis (USFS, 1995); NPS Assessment - segment 46: moderate, observation (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Coastal Coho and Searun Cutthroat have been petitioned under the ESA; habitat conditions are in highly degraded state in part due to lack of large wood and complex habitat in portions of the river (Little R Watershed Analysis, 9/95). Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not meet either the Large Woody Debris Frequency (for 50% of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to White Creek	13A-LITT0	pH		Summer	Little River Watershed Analysis (USFS, 1995), Little River Committee data (1994 to 97)	Little River had frequent exceedences of pH standard (6.5 - 8.5) in 1994, exceedences measured 8/7, 22, 28, 29; 9/3, 9, 16, 17, 19, 23, 25 with a maximum of 9.2.		303(d) List	
Mouth to Hemlock Creek		Sedimentation			Little River Watershed Analysis (USFS, 1995); NPS Assessment - segment 46: moderate, observation (DEQ, 1988)	Coastal Coho and Searun Cutthroat have been petitioned under the ESA; habitat conditions are in highly degraded state in part due to large amounts of fine sediment in portions of the river (Little R Watershed Analysis, 9/95).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; BLM Data; NPS Assessment - segment 46: moderate, observation (DEQ, 1988), Little River Committee data (1994 to 97)	BLM Data (5 Sites: at mouth in 1994/95, 7 day average of daily max was 81.1/75.2°F; below Cavitt Creek in 1994/96 was 78.4/77.1°F; above Cavitt Creek in 1994/97 was 77.6/75.1°F; above Wolf Creek in 1994, 75.9; below Negro Creek 1994, 70.7°F; USFS data (3 sites: below White Creek in 1990/91/92/93/94/95/96 was 69.4/67.0/68.9/65.0/70.8/66.2/69.5°F; below Black Creek 1994, 67.4°F; above Clover Creek in 1995/96 was 64.6/67.5°F all years all sites exceeded temp standard (64). Little Rearing 64°F (17.8°C)		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Hemlock Creek to Headwaters	13A-LITT25.8	Habitat Modification			Little River Watershed Analysis (USFS, 1995), Oregon Stream Survey Data Base, USFS and BLM, 1997	Coastal Coho and Searun Cutthroat have been petitioned under the ESA; habitat conditions are in highly degraded state in part due to lack of large wood and complex habitat in portions of the river (Little R Watershed Analysis, 9/95). Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not meet either the Large Woody Debris Frequency (for 50% of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	
			Sedimentation		Little River Watershed Analysis (USFS, 1995)			303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; Little River Watershed Analysis (BLM, 1995)		USFS Data (Site below Hemlock Cr): in 1994 7 day average of daily maximum 61.1°F did not exceed temperature standard (64) (Little R Watershed Analysis (9/95).	Did not meet listing criteria	OK

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Little Rock Creek Mouth to Headwaters	13A-ROLI0	Habitat Modification			Monitoring and Evaluation Report (USFS, 1992); NPS Assessment - segment 57: moderate, data (DEQ, 1988); USFS, Upper Steamboat Creek Watershed analysis, 1997; Oregon Stream Survey Data Base, USFS and BLM, 1997	Searun Cutthroat which have been petitioned under the ESA occur in the stream; habitat conditions (lack of pools, pool depth) have been rated very low (USFS, 1993). WSA shows reduces large wood pg. 92. Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	
					USFS, Upper Steamboat Creek Watershed analysis, 1997				
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 57: moderate, data (DEQ, 1988)	USFS Data (Site at mouth): 7 day average of daily maximums of 72.0/71.1/68.1/71.2 exceeded temperature standard (64) in 1990/92/93/94 respectively.	303(d) List		
Mellow Moon (Call) Creek Mouth to Headwaters	13A-MELLO	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; Canton Creek Watershed Analysis (BLM, 1995)	BLM Data (Site at mouth above Pass Creek): 7 day average of daily maximums of 62.5 met temperature standard (64) with 0 days exceeding standard in 1994. 1995, 60,6°F	Did not meet listing criteria	OK	
Miller Creek Mouth to Headwaters	13A-MILL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximums of 62.6/61.2 for years 1994/95 met temperature standard (64)	Did not meet listing criteria	OK	

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mowich Creek Mouth to Headwaters	13A-MOWI0	Temperature	Salmon Spawning 55 F (12.8 C)	September	Pacificorp and USFS data	Pacificorp data: 7 -day ave. max. exceeded spawning criteria 30% of measurements exceeded spawning criteria in September 1994 (Max 57.0°F); USFS data: 28% September 1997 (Max 56.8°F)		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	Pacificorp and USFS data				
Negro Creek Mouth to headwaters	13A-NEGR0	Temperature	Rearing 64 F (17.8 C)	Summer	Little River Committee data (1994 to 97)	Minimum requirements of at multi-year measurements during season of concern were not met.	Did not meet listing criteria	Need Data	Addition
Panther Creek Mouth to Junction Creek	13A-PANT0	Habitat Modification			Monitoring and Evaluation Report (USFS, 1992); NPS Assessment - segment 60: moderate, data (DEQ, 1988)	Habitat conditions (lack of LWD) have been rated low (USFS, 1993).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 65.8/69.0/69.0 exceeded temperature standard (64) in 1992/93/94		303(d) List	
		Temperature	Salmon Spawning 55 F (12.8 C)	June and September	USFS Data	USFS Data 7 -day ave. max. exceeded spawning criteria 100% of measurements exceeded spawning criteria in June 1993 (Max 60.1°F); 100% Sept. 1993 Max (61.5°F); 50% June 1995 (Max 63.0°F) 100% Sept. 1995 (61.3°F) and 100% June 1997 (61.7 °F), 100% Sept. 1997 (Max 62.8 °F). 1992 June (Max 64.0 °F) Sept. (Max 60.1°F) and 1994 June (Max 63.7°F) Sept. (Max 59.7°F) data are from drought years.		303(d) List	Addition

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Basin <i>Umpqua</i>		Sub			<i>North Umpqua</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Pass Creek Mouth to Headwaters	13A-PASS0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; Canton Creek Watershed Analysis (BLM, 1995)	BLM Data (3 Sites: mouth 1997, 59.0°F; above East Fork 7 day average of daily maximums for years 1994/95/96/97 were 64.0/61.8/63.5/62.5°F ; upper Pass Creek 1994/95/96 were 61.7/64.4/62.0 met temperature standard (64) all years except one.	Did not meet listing criteria	OK		
Pass Creek, East Fork Mouth to Headwaters	13A-PAEF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; Canton Creek Watershed Analysis (BLM, 1995)	BLM Data (Site at mouth): 7 day average of daily maximums of 64 met temperature standard (64) with 3 days exceeding standard in 1994.	Did not meet listing criteria	OK		
Pinnacle Creek Mouth to headwaters	13A-PINNO	Temperature	Rearing 64 F (17.8 C)	Summer	Little River Committee data (1994 to 97)	Minimum requirements of at multi-year measurements during season of concern were not met.	Did not meet listing criteria	Need Data	Addition	
Potter Creek Mouth to Diversion	13A-POTT0	Biological Criteria		Year Around	Pacificorp's North Umpqua Cooperative Watershed Analysis	Report stated invertebrate samples collected in 1995 show the total abundance of aquatic macroinvertebrates in erosional (riffle) habitats was 48 percent lower downstream of diversion than upstream of diversion. The total abundance of in stream margin habitats was 67 percent lower downstream of diversion.		303(d) List	Addition	
		Habitat Modification		Year Around	Pacificorp's North Umpqua Cooperative Watershed Analysis	Report stated the total abundance of in stream margin habitats was 67 percent lower downstream of diversion. Stream contributes to the habitat of fish species protected by the Oregon Plan.		303(d) List	Addition	
Rock Creek Mouth to Northeast Fork	13A-ROCK0	Sedimentation			NPS Assessment - segment 49: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Northeast Fork	13A-ROCK0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 49: moderate, observation (DEQ, 1988)	BLM Data (2 Sites): Mouth 7 day average of daily maximums of 72.4 in 1994 and below Miller Creek 69.2/61.4°F in 1995/97 Two out of three exceeding temperature standard (64).		303(d) List	
Northeast Fork to headwaters	13A-ROCK10	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. 59.6/61.3/63.3°F in 1995/96/97 at upper Rock Creek BLM site.	Did not meet listing criteria	OK	Addition
Rock Creek, East Fork									
Mouth to Headwaters	13A-ROEF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximums of 62.9/68.8/63.7 for 1994/95/97. Two out of three met temperature standard (64).	Did not meet listing criteria	Potential Concern List	Status Modification
Rock Creek, Northeast Fork									
Mouth to Headwaters	13A-RONE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximums of 66.6/65.4/66.5/64.2 for years 1994/95/96/97 exceeded temperature standard (64) in all years.		303(d) List	
Scaredman Creek									
Mouth to Headwaters	13A-SCAR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; Canton Creek Watershed Analysis (BLM, 1995)	BLM Data (Site at mouth): 7 day average of daily maximums of 73.9 with 66 days exceeded temperature standard (64) in 1994.		303(d) List	
Slide Creek									
Mouth to Headwaters	13A-SLID0	Temperature	Salmon Spawning 55 F (12.8 C)	Summer	Harza (1995), USFS, Pacificorp	7-day ave. max temperature exceeded 55°F in May (13.8 °C) and June 1994 and June 1997. Also exceeded 64 °F criteria 1997 data.		303(d) List	Addition
Steamboat Creek									
Mouth to Deep Creek	13A-STEA0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Pacificorp data, Harza (1995)	(Site near mouth): 51% of values measured during diurnal study (8/9 - 11/94) measured below criteria.		303(d) List	Addition
		Habitat Modification			NPS Assessment - segment 418 and 53: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Deep Creek	13A-STEA0	pH		Summer	Harza (1995)	Harza Data (Site near mouth): Diurnal study (8/9 - 11/94) measured pH values that exceeded pH standard (6.5 - 8.5) with exceedences ranging between 8.7 - 9.0. USFS Data: Site at mouth in 1990 was 77.5°F; Site above Canton Creek, 7 day average of daily maximums of 78.3/75.1/77.7/71.7/77.8°F exceeded temperature standard (64) in 1990/91/92/93/94 respectively. USFS Data 7 -day ave. max. exceeded spawning criteria 100% of measurements exceeded spawning criteria in June 1993 (Max 63.1°F); 100% Sept. 1993 Max (66.4°F); 83% June 1995 (Max 66.2°F) 100% Sept. 1995 (66.0°F) and 100% June 1997 (64.6°F), 100% Sept. 1997 (Max 68.2 °F). 1992 June (Max 75.0°F) Sept. (Max 66.6°F) and 1994 June (Max 70.0°F) Sept. (Max 65.1°F) data are from drought years.	303(d) List			
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 418 and 53: severe, data (DEQ, 1988)				303(d) List	
		Temperature	Salmon Spawning 55 F (12.8 C)	June and September	USFS Data; NPS Assessment - segment 418 and 53: severe, data (DEQ, 1988)				303(d) List	Addition
Deep Creek to Big Bend Creek	13A-STEA06.3	Habitat Modification			NPS Assessment - segment 54: severe, data (DEQ, 1988)	Harza Data (Site near mouth): Diurnal study (8/9 - 11/94) measured pH values that exceeded pH standard (6.5 - 8.5) with exceedences ranging between 8.7 - 9.0 between 1800 - 2100 hours. USFS Data (Site below Little Rock Creek): 7 day average of daily maximums of 72.9/71.0/71.6/68.6/72.3 exceeded temperature standard (64) in 1990/91/92/93/94 respectively.	No supporting data or information	Need Data		
		pH		Summer	Harza (1995)					303(d) List
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data					303(d) List

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Big Bend Creek to Headwaters	13A-STEA11	Habitat Modification			NPS Assessment - segment 55: severe, data (DEQ, 1988), USFS Upper Steamboat Creek Watershed Analysis, 1997. Oregon Stream Survey Data Base, USFS and BLM, 1997	Study shows reduced large wood pg. 92, spawning densities pg. 101 and macroinverts pg. 108. Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition	
		pH		Summer	Harza (1995)		Harza Data (Site near mouth): Diurnal study (8/9 - 11/94) measured pH values that exceeded pH standard (6.5 - 8.5) with exceedences ranging between 8.7 - 9.0 between 1800 - 2100 hours.		303(d) List	
		Sedimentation			Upper Steamboat Creek Watershed analysis, 1997		Figure 48 and 49. Management related landslides 91%; substrate embeddedness high and significantly inhibited invertebrate community development which is moderately to severely truncated.		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 55: moderate, data (DEQ, 1988)	USFS Data (Site below Little Rock Creek): 7 day average of daily maximums of 72.9/71.0/71.6/68.6/72.3 exceeded temperature standard (64) in 19920/91/92/93/94 respectively. At headwaters in 1990 was 66.0°F.		303(d) List		
Steelhead Creek Mouth to Headwaters	13A-STEE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 68.6/68.4/65.2/67.6 exceeded temperature standard (64) in 1990/92/93/94 respectively.		303(d) List		
Sutherlin Creek Mouth to Plat I Reservoir	13A-SUTH0	Flow Modification			NPS Assessment - segment 43: severe, observation (DEQ, 1988)		No supporting data or information	Need Data		

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Thielsen Creek Mouth to headwaters	13A-THIE0	Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not meet either the Large Woody Debris Frequency (for 50% of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
Toketee Lake Lake	13A.TOKE	Temperature	Rearing 64 F (17.8 C)	Summer	Pacificorp data	Four Pacificorp sites in lake 7 day ave. max. temperatures for 1992 were 57.6/52.7°F; 1993 was 52.2 and 1994 was 49.8°F all are within temperature criteria.	Did not meet listing criteria	OK	Addition
Trapper Creek Mouth to Plat I Reservoir	13A-TRAP0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; Canton Creek Watershed Analysis (BLM, 1995)	BLM Data (Site at mouth): 7 day average of daily maximums of 63.9 met temperature standard (64) with 7 days exceeding standard in 1994 and in 1995, 61.3°F	Did not meet listing criteria	OK	
Umpqua River, North Mouth to Steamboat Creek	13A-UMN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402121; RM 1.8): 6% (3 of 52) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402121; Rm 1.8): 0% (0 of 27) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402121; RM 1.8): 0% (0 of 28) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Steamboat Creek	13A-UMN0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	June 1 - September 14	DEQ Data; USGS Data (1993, 1994)	DEQ Data (Site 402121; RM 1.8): 0% (0 of 12) June through Sept. values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1996 (Cold water rearing).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 15 - May 31	DEQ Data (305(b), 1994); USGS Data (1993, 1994)	DEQ Data (Site 402121; RM 1.8): 5% (2 of 39) September - May values exceeded rearing dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 1986 - 1996 (Cold water spawning).	Did not meet listing criteria	OK		
		Flow Modification				USGS (1990); IWR (ODFW)	Searun Cutthroat and coho have severely depressed populations and low flows and flow alteration due to withdrawals have been identified as one of the limiting factors (ODFW, 92); IWR (71174) are often not met at USGS gage (14319500).			303(d) List
		pH			Summer	DEQ Data; USGS Data (1993, 1994)	DEQ Data (Site 402121; Rm 1.8): 0% (0 of 28) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH			Fall-Winter-Spring	DEQ Data; USGS Data	DEQ Data (Site 402121; Rm 1.8): 0% (0 of 52) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 41: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data
		Temperature		Rearing 64 F (17.8 C)		Summer	DEQ Data (Temperature Issue Paper, 1994); USGS Data; NPS Assessment - segment 41: severe, data (DEQ, 1988)	USGS Data (2 Sites): 7 day average of daily maximums of 76.4 and 77.4 in 1990 and 1991 at Winchester and 67.2/65.4/71.5/67.5 in 1992/93/94/95 above Rock Creek near Glide exceeded temperature standard (64).		
Rock Creek to Copeland Creek	13A-UMN35	Temperature	Salmon Spawning 55 F (12.8 C)	May-June	USFS data	7-day ave. max. temperature exceeded spawning criteria of 55°F. 1993 (15.5 °C), 1994 (19.3°C)			303(d) List	Addition

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Steamboat Creek to Toketee Lake	13A-UMN53	Temperature	Rearing 64 F (17.8 C)	Summer	Harza (1995) and Pacificorp data	Harza (1995); Pacificorp data 5 sites down stream of Toketee Lake in 1992 7 day ave. max. were 60.1/59.0/65.4/57.7/63.4°F, in 1994 two sites 63.3/57.8°F	Did not meet listing criteria	OK	
Copeland Creek to Slide Creek	13A-UMN67	Dissolved Oxygen (DO)	Salmonid spawning:inter gravel DO>8mg/l,water<9mg/l	September 1 - June 30			No supporting data or information	Need Data	Removed (1)
Soda Springs Powerhouse to Slide Creek Div. Dam	13A-UMN69.6	Temperature	Salmon Spawning 55 F (12.8 C)	June	Pacificorp data 1995	Pacificorp report (1995) showed this reach violating the temperature criteria for spawning.		303(d) List	Addition
Slide Creek Power House to Fish Creek	13A-UMN71	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Pacificorp Data	During a Aug 1994 diel study, 15% of DO measurements did not meet standard at beginning of maintenance.		303(d) List	Addition
Slide Creek to Fish Creek	13A-UMN71.5	Dissolved Oxygen (DO)	Salmonid spawning:inter gravel DO>8mg/l,water<9mg/l	September 1 - June 30	Pacificorp data, Final Technical Report for Water Quality Pacificorp (1995)	Pacificorp report (1995) showed this reach violating the Dissolved Oxygen criteria for spawning		303(d) List	Addition
Fish Creek to above Toketee Lake	13A-UMN72	Dissolved Oxygen (DO)	Salmonid spawning:inter gravel DO>8mg/l,water<9mg/l	September 1 - June 30			No supporting data or information	Need Data	Removed (1)
Toketee Lake to Lemolo No. 2 Powerhouse	13A-UMN76	pH		Summer	Pacificorp data	26% of diel pH measurements made from July 29 to Aug 4, 1994 exceeded 8.5. 12% of diel pH measurements made from July 24 to Aug 1, 1995 exceeded 8.5.		303(d) List	Addition
Lemolo #2 Powerhouse to one mile downstream		Total Dissolved Gas	Above 110 percent of saturation	Year Around	Pacificorp data, Final Technical Report for Water Quality Pacificorp (1995) and The North Umpqua Cooperative Watershed Analysis (Dec., 1997)	Pacificorp reports showed this reach violating the Total Dissolved Gas criteria 18 percent of the time.		303(d) List	Addition

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Toketee Lake to Lemolo Lake	13A-UMN76.7	Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50% of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.	303(d) List	Addition	
		Sedimentation			NPS Assessment - segment 64: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	Harza (1995) and Pacificorp data		Harza (1995), Pacificorp data 4 sites in 1992 7 day ave. max. was 58.5/55.4/57.9/50.0°F none exceeded temperature criteria.	Did not meet listing criteria	OK
Toketee Lake to Barkenburger Creek		Temperature	Salmon Spawning 55 F (12.8 C)	June	Pacificorp data, USFS	7-day ave. max exceeded spawning temperature criteria in 1994 and 1997. June 1994 (13.9°C), June 1995 (12.8°C) and 1997 (14.6°C) .	303(d) List	Addition	
Toketee Lake to Barkenburger Creek	13A-UMN77	Dissolved Oxygen (DO)	Salmonid spawning:inter gravel DO>8mg/l,water<9mg/l	September 1 - June 30	Pacificorp data, Final Technical Report for Water Quality Pacificorp (1995)	Pacificorp report (1995) showed this reach violating the Dissolved Oxygen criteria for spawning	303(d) List	Addition	
Barkenburger Creek to Lemolo Lake	13A-UMN84.5	Dissolved Oxygen (DO)	Salmonid spawning:inter gravel DO>8mg/l,water<9mg/l	September 1 - June 30			No supporting data or information	Need Data	Removed (1)
Immediately below Lemolo #1 Powerhouse	13A-UMN88	Total Dissolved Gas	Above 110 percent of saturation	Year Around	Pacificorp data, Final Technical Report for Water Quality Pacificorp (1995) and The North Umpqua Cooperative Watershed Analysis (Dec., 1997)	Pacificorp reports showed this reach violating the Total Dissolved Gas criteria	303(d) List	Addition	
Warm Springs Creek Mouth to Headwaters	13A-WARS0	Temperature	Rearing 64 F (17.8 C)	Summer	Pacificorp data	No temperature exceedences, 7 day Ave. Max. for 1992 was 54.5°F	Did not meet listing criteria	OK	Addition

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Watson Creek Mouth to Headwaters	13A-WATS0	Temperature	Salmon Spawning 55 F (12.8 C)	September	USFS data	Pacificorp data: 7 -day ave. max. exceeded spawning criteria 17% of measurements exceeded spawning criteria in Sept. 1993 (Max 58.5°F)		303(d) List	Addition
White Creek Mouth to Headwaters	13A-WHIT0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Little River Committee data (1994 to 97)	DO measurements appear within criteria of 8.0 mg/l, however, does not met minimum requirements for evaluation.	Did not meet listing criteria	Need Data	Addition
		pH		Summer	Little River Committee data (1994 to 97)	One pH measurements appear to be above criteria of 8.5 at 9.07, however, does not met minimum requirements for evaluation.	Did not meet listing criteria	Need Data	Addition
		Temperature		Summer	Little River Committee data (1994 to 97)	Temperature appears to be within criteria of 64.0°F(17.8°C), however, minimum requirements of at multi-year measurements during season of concern were not met.	Did not meet listing criteria	Need Data	Addition
Wolf Creek Mouth to Headwaters	13A-WOLFO	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	Little River Committee data (1994 to 97)	DO measurements appear within criteria of 8.0 mg/l, however, does not met minimum requirements for evaluation.	Did not meet listing criteria	Need Data	Addition
		Mouth to major falls		pH	Summer	Little River Watershed Analysis (USFS, 1995), Little River Committee data (1994 to 97)	Wolf Creek had exceedences of pH standard (6.5 - 8.5) in 1994 on 2 of the 4 days it was surveyed, exceedences measured 8/7 and 8/28 with a maximum of 8.8 (Little River Watershed Analysis); additional exceedences recorded by Little River Committee on 8/25/95 of 8.69.		303(d) List

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Basin <i>Umpqua</i>		Sub <i>North Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	13A-WOLF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data, Little River Watershed Analysis (USFS, 1995)	BLM Data (4 Sites: near mouth in 1994/95, 7 day average of daily maximums was 66.8/70.5°F; lower reach in 1992/95/96 was 70.9/68.9/71.0°F; middle reach in 1992/94/95/96 was 67.1/66.8/68.9/69.6°F and upper reach in 1995/96 was 62.9/67.4 all years and sites except one in upper reach exceeded temperature standard (64).		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Applegate Creek Mouth to Headwaters	13B-APPL0	Habitat Modification			NPS Assessment - segment 98: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 98: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 98: moderate, data (DEQ, 1988) and USFS data	1995 data shows exceedence of temperature criteria, 66.2°F		303(d) List	Addition
Beals Creek Mouth to headwaters	13B-BEAL0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered impaired with a Discriminant Score of <61 points. Discriminant score was 54, however, site was not listed as "impaired" because samples did not meet minimum sample size requirements.	Did not meet listing criteria	Potential Concern List	Addition
		Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
Beaver Creek Mouth to Beaver Lake	13B-BEAV0	Habitat Modification			Jackson Creek Watershed Analysis (USFS, 1995)	Coho and Searun Cutthroat which have been petitioned under the ESA and Spring Chinook, a stock at risk, occur in the stream; habitat conditions (LWD) are degraded with evidence that it is affecting biological communities (USFS, 95).		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Beaver Lake	13B-BEAV0	Sedimentation			Jackson Creek Watershed Analysis (USFS, 1995)	Coho and Searun Cutthroat which have been petitioned under the ESA and Spring Chinook, a stock at risk, occur in the stream; habitat conditions (high cobble embeddedness) are degraded with evidence that it is affecting biological communities (USFS, 95).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 122: moderate, data (DEQ, 1988)	USFS Data (2 Sites at mouth: 7 day average of daily maximums of 70.8/67.1/69.3/65.5/69.5°F and at FSR 3014: 71.4/68.4/70.9/67.1/70.6°F both sites all years exceeded temperature standard (64) in 1990/91/92/93/94 respectively.		303(d) List	
Black Canyon Creek									
Mouth to Headwaters	13B-BLAC0	Habitat Modification			NPS Assessment - segment 123: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	Jackson Creek Watershed Analysis (USFS, 1995)	Black Canyon Creek had exceedence of pH standard (6.5 - 8.5) in 1994, exceedences measured 8/25; 9/6; 9/13 with a maximum of 8.8		303(d) List	
Black Rock Fork Creek									
Mouth to headwaters	13B-BLRF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Two USFS sites: mouth, in years 1990/91/92/93/94 the 7 day Ave. Max. Temperature was 67.9/65.6/65.7/64.2/66.9°F; down stream of Prong Creek in 1996 was 67.2°F. Both sites all years data shows exceedence of temperature criteria.		303(d) List	Addition
Bobby Creek									
Mouth to headwaters	13B-BOBB0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. 59.7°F for 1994	Did not meet listing criteria	OK	Addition
Bobby Creek, West Fork									
Mouth to headwaters	13B-BOWF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1994 was 59.1°F	Did not meet listing criteria	OK	Addition

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Bonnie Creek Mouth to headwaters	13B-BONN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM (2 sites: 7 day Ave. Max. temperature criteria, above west fork, 61.2/58.0/60.2°F for 1994/95/96 and above east fork 60.8/61.8/63.7°F for 1994/95/06 no exceedences of temperature criteria	Did not meet listing criteria	OK	Addition
Boulder Creek Mouth to Headwaters	13B-BOUL0	Habitat Modification			Monitoring and Evaluation Report (USFS, 1992); NPS Assessment - segment 126: moderate, data (DEQ, 1988)	Coho and Searun Cutthroat which have been petitioned under the ESA and Spring Chinook, a stock at risk, occur in the stream; habitat conditions (lack of LWD and pools, pool depth) have been rated very low (USFS, 1993).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 126: moderate, data (DEQ, 1988)	USFS Data (Site at mouth): 7 day average of daily maximums of 73.8/71.2/73.7/71.3/75.6 exceeded temperature standard (64) in 1990/91/92/93/94 respectively. Above Last Creek in 1997 was 65.4°F		303(d) List	
Brownie Creek Mouth to headwaters	13B-BROW0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1995 data shows exceedence of temperature criteria, 7 day ave. max. 70.2°F		303(d) List	Addition
Buckeye Creek Mouth to Headwaters	13B-BUCK0	Habitat Modification			Monitoring and Evaluation Report (USFS, 1992); NPS Assessment - segment 128: moderate, data (DEQ, 1988)	Coho and Searun Cutthroat which have been petitioned under the ESA and Spring Chinook, a stock at risk, occur in the stream; habitat conditions (lack of LWD and pools, pool depth) have been rated very low (USFS, 1993).		303(d) List	
Mouth to Coyote Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 128: moderate, data (DEQ, 1988)	USFS Data (Site at mouth): 7 day average of daily maximums of 73.4/70.0/72.6/68.1/72.4/69.0°F exceeded temperature standard (64) in 1990/91/92/93/94/95 respectively.		303(d) List	Segment Modification
Coyote Creek to headwaters	13B-BUCK1.5	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	3 USFS sites in 1995: above Coyote Creek, middle and upper temperature 7 day Ave. Max. 63.0/63.0/54.0°F. No temperature exceedences.	Did not meet listing criteria	OK	Removed (5)

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Budd Creek Mouth to headwaters	13B-BUDD	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. for 1996 was 63.5°F		OK	Addition
Byron Creek Mouth to Headwaters	13B-BYRO0	Flow Modification			NPS Assessment - segment 76: severe, data (DEQ, 1988)		No supporting data or information		Need Data
Callahan Creek (Elk Creek) Mouth to Headwaters	13B-CALL0	Habitat Modification			NPS Assessment - segment 89: moderate, observation (DEQ, 1988)		No supporting data or information		Need Data
		Sedimentation			NPS Assessment - segment 89: severe, observation (DEQ, 1988)		No supporting data or information		Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1995/96 data shows exceedence of temperature criteria, 7 day ave. max. 67.5/67.4°F		303(d) List	Addition
Canyon Creek Mouth to West Fork	13B-CANY0	Flow Modification			NPS Assessment - segment 109: moderate, data (DEQ, 1988)		No supporting data or information		Need Data
Castle Rock Creek Mouth to headwaters	13B-CASR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site at mouth, in years 1991/92/93/94 the 7 day Ave. Max. Temperature was 64.7/69.2/62.9/67.4°F. Three out of four years data shows exceedence of temperature criteria.		303(d) List	Addition
Cattle Creek Mouth to headwaters	13B-CATT0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1997 data shows exceedence of temperature criteria, in 1997, 66.5°F		303(d) List	Addition
Champagne Creek Mouth to Headwaters	13B-CHAM0	Flow Modification			NPS Assessment - segment 116: severe, data (DEQ, 1988)		No supporting data or information		Need Data

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Clark Branch Creek Mouth to Headwaters	13B-CLAB0	Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
Clark Richardson Creek Mouth to Headwaters	13B-CLAR0	Flow Modification			NPS Assessment - segment 114: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Coffee Creek Mouth to Headwaters	13B-COFF0	Sedimentation			NPS Assessment - segment 423: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for two sites: Mouth in years 1995/96/97 was 61.0/63.6/60.7°F and for the upper watershed in 1992 was 63.6°F.	Did not meet listing criteria	OK	Addition
Cow Creek Mouth to West Fork Cow Creek	13B-COW0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402674; RM 0.3): 0% (0 of 21) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402674; RM 0.3): 4% (2 of 47) FWS values exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402674; RM 0.3): 0% (0 of 22) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to West Fork Cow Creek 13B-COW0		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	June1 - September 14	USGS Data - TMDL Study (305(b), 1994)	DEQ Data (Site 402674; RM 0.3): 5% (1 of 21) June 1 - Sept. 14 values exceeded cold water dissolved oxygen standard (8.0 mg/l) with a min of 7.5 mg/l between WY 1986 - 1995 .	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 15 - May 31	DEQ and USGS Data	DEQ Data (Site 402674; RM 0.3): 0% (0 of 41) September - May values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 8.5 mg/l (90%) between WY 1986 - 1995 (Cold water spawning, approx. Sep - May).	Did not meet listing criteria	OK		
		Flow Modification				NPS Assessment - segment 91: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification				Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		pH			Summer	DEQ and USGS Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402674; RM 0.3): 62% (13 of 21) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 9.4 between WY 1986 - 1995.		303(d) List	
		pH			Fall-Winter-Spring	DEQ and USGS Data	DEQ Data (Site 402674; RM 0.3): 4% (2 of 47) FWS values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation					NPS Assessment - segment 91: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to West Fork Cow Creek	13B-COW0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 91: moderate, observation (DEQ, 1988)	DEQ Data (Site 402764; RM 0.3): 81% (17 of 21) Summer values exceeded temperature standard (64) with a maximum of 80.6 and violations recorded in 1986 - 93 and 1995 based on data collected between WY 1986 - 1995.		303(d) List	
Mouth to Riddle		Toxics	Ammonia	June through April	DEQ TMDL data	DEQ Data: Development of TMDL shows possible Ammonia toxicity associated with Riddle discharge.		Potential Concern	Addition
		Toxics	Chlorine	June through April	DEQ TMDL data	DEQ Data: Development of TMDL shows Chlorine toxicity associated with Riddle discharge.		303(d) List	Addition
West Fork Cow Cr to Quines Creek	13B-COW26.6	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 92: moderate, observation (DEQ, 1988), BLM data	BLM data (2 sites: above Susan Creek for years 1994/95/96 7 day ave. max. temperature 78.7/72.1/73.9°F and at Glendale 1995/96, 70.9/69.4°F all exceed temperature criteria.		303(d) List	Addition
Quines Creek to Galesville Reservoir	13B-COW51.5	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM data shows No temperature exceedences, 7 day Ave. Max. above Whitehorse Creek years 1995/96, 57.7/59.2°F		OK	Removed (5)
Galesville Reservoir to S Fk Cow Cr	13B-COW60	Flow Modification			NPS Assessment - segment 94: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 94: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 94: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Galesville Reservoir to South Fork Cow Cr.		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Dismal Creek): 7 day average of daily maximums of 67.8/63.4/72.6/65.9/ 66.5°F exceeded temperature standard (64) in 1990/91/92/93/95 respectively. Two other sites above Snow Creek 1995, 73.0°F and above French Creek 1995, 64.6°F		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Cow Creek, East Fork Mouth to headwaters	13B-COEF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. 59.0°F in 1995	Did not meet listing criteria	OK	Addition
Cow Creek, South Fork Mouth to Headwaters	13B-COSF0	Habitat Modification			NPS Assessment - segment 96: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 95 and 96: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 96: severe, observation (DEQ, 1988) and USFS data	No temperature exceedences, 7 day Ave. Max. (2 sites: mouth south fork 1995, 59.1°F and upper south fork 1995, 53.5°F)	Did not meet listing criteria	OK	Status Modification
Cow Creek, West Fork Mouth to Bear Creek	13B-COWF0	Flow Modification		Summer	WF Cow Creek Watershed Analysis, BLM June, 1997, USGS flow data and Instream water right.	Map 15, page 48 shows many streams exceed one or more hydrologic "trigger values" however, Figure 5 (page 47) illustrates that vast majority of stream segments are properly functioning or functioning-at risk. Few non-functioning segments. Need data demonstrating effects. USGS flow data shows segment generally meets instream water rights, but at times may not.	Did not meet listing criteria	Potential Concern	Addition
Mouth to Headwaters		Habitat Modification			NPS Assessment - segment 93: moderate, observation (DEQ, 1988), WF Cow Creek Watershed Analysis, BLM June, 1997	All surveyed fish bearing streams in the watershed are far below the ODFW guidance value of 2 or 3 key pieces per 100meters of stream (p14, Figure 4), however, do demonstration of use impairment and the Klamath/Siskiyou Mt. Matrix suggests that virtually all fish habitat in the watershed is in fair or good condition (p 11)	Did not meet listing criteria	Potential Concern	Segment Modification
		Sedimentation			NPS Assessment - segment 93: moderate, observation (DEQ, 1988), WF Cow Creek Watershed Analysis, BLM June, 1997	Soil erosion is a source of habitat degradation in the watershed (p.14), but no applicable criteria exceeded and impairment not demonstrated.	No supporting data or information	Potential Concern	Status Modification

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Wilson Creek	13B-COWF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data, NPS Assessment - segment 93: moderate, observation (DEQ, 1988), WF Cow Creek Watershed Analysis, BLM June, 1997	BLM Data (3 Sites: USGS Gage Station at mouth- T32S-R8W-S11 7 day average of daily maximums in years 1994/95, 80.3/76.6°F; above Bobby Creek - T31S-R9W-S36 in 1995, 76.4; above Slide Creek - T31S-R9W-S32): 1995, 73.6/76.2/64.6 all years exceeded temperature standard (64). WSA indicates problem extends to Bear Creek.		303(d) List	Addition
Wilson Creek to headwaters	13B-COWF12	Temperature	Rearing 64 F (17.8 C)	Summer	WF Cow Creek Watershed Analysis, BLM June, 1997	Water temperature in 7 of 14 sites and 5 of 9 streams exceed numeric criteria data not presented; BLM data from 1997 above Wilson Creek shows 60.6 °F did not exceed temperature criteria.		OK	Addition
Dads Creek Mouth to Headwaters	13B-DADS0	Habitat Modification			NPS Assessment - segment 100: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 100: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Sites at Cow Creek Rd - T32S-R7W-S21): 7 day average of daily maximums for years 1994/95/96/97 of 64.7/64.8/66.2/63.3. Three out of four years exceeded temperature standard (64).		303(d) List	Addition
Days Creek Mouth to Headwaters	13B-DAYS0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 84: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segment 84: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	13B-DAYS0	Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 84 and 85: severe/moderate, observation (DEQ, 1988)		No supporting data or information		Need Data
Deadman Creek									
Mouth to Middle Fork (RM 4.9)	13B-DEAD0	Habitat Modification			NPS Assessment - segment 124: moderate, data (DEQ, 1988)		No supporting data or information		Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 124: moderate, data (DEQ, 1988)BLM and USFS data	BLM Data (Site near mouth): 7 day average of daily maximums of 67.0 and 73.6 in 1993 and 1994. At falls in 1995 was 67.7°F. USFS data at mouth in 1996 was 74.3°F all sites and years exceeded temperature standard of 64°F			303(d) List
Deadman Creek, East Fork									
Mouth to Headwaters	13B-DEEF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	1996 data shows exceedence of temperature criteria, 7 day ave. max. 67.1°F			303(d) List Addition
Deadman Creek, Middle Fork									
Mouth to Headwaters	13B-DEMF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth-T29S-R02W-S27): 7 day average of daily maximums of 66.4/65.2/62.2/65.8/66.2 °F for years 1992/94/95/96/97, four out of five years			303(d) List Addition

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Deadman Creek, West Fork									
Mouth to Headwaters	13B-DEWFO	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site above Middle Fork Deadman Cr - T29S-R02W-S27): 7 day average of daily maximums were 65.0/62.7/65.6°F in 1994/95/96 respectively two out of three years exceeded temperature standard (64).		303(d) List	Addition
Deer Creek									
Mouth to Headwaters	13B-DEERO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 68: severe, observation (DEQ, 1988)	DEQ Data (Site 402990; RM 0.2): 42% (18 of 43) FWS values exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 68: severe, observation (DEQ, 1988)	DEQ Data (Site 402990; RM 0.2): 64% (14 of 22) Summer values exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ Data; NPS Assessment - segment 68: severe, observation (DEQ, 1988)	DEQ Data (Site 402990; RM 0.2): 4% (1 of 23) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 84 ug/l between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	June 1 - Sept 14	DEQ Data	DEQ Data (Site 402990; RM 0.2): 0% (1 of 18) June - Sept. values exceeded cold water dissolved oxygen standard (8.0 mg/l) with a min of 7.5 mg/l between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 15 - May 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402990; RM 0.2): 17% (6 of 36) September - May values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 7.5 mg/l between WY 1986 - 1996 (Cold water spawning, approx. Sept - May).		303(d) List	
		Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segment 68: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umpqua</i>	Sub	<i>South Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	13B-DEER0	Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		Nutrients			NPS Assessment - segment 68: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (Site 402990; RM 0.2): 4% (1 of 23) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.9 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402990; RM 0.2): 0% (0 of 43) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 68: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 68: severe, observation (DEQ, 1988)	DEQ Data (Site 402990; RM 0.2): 70% (16 of 23) Summer values exceeded temperature standard (64) with a maximum of 81.5 and violations recorded in each year based on data collected between WY 1986 - 1994.		303(d) List	
Deer Creek, North Fork									
Mouth to Headwaters	13B-DENF0	Flow Modification			NPS Assessment - segment 69: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 69: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Deer Creek, South Fork Mouth to Headwaters	13B-DESF0	Flow Modification			NPS Assessment - segment 69: severe, data (DEQ, 1988)	No supporting data or information	Need Data		
		Sedimentation			NPS Assessment - segment 69: severe, observation (DEQ, 1988)	No supporting data or information	Need Data		
Devils Knob Creek Mouth to headwaters	13B-DEKN	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	No temperature exceedences, 7 day Ave. Max. in 1994 was 60.6°F	Did not meet listing criteria	OK	Addition
Dismal Creek Mouth to Headwaters	13B-DISM0	Habitat Modification			NPS Assessment - segment 97: severe, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Sedimentation			NPS Assessment - segment 97: severe, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1995 data shows exceedence of temperature criteria, 7 day ave. max. was 68.4°F		303(d) List	Addition
Drew Creek Mouth to Headwaters	13B-DREW0	Sedimentation			NPS Assessment - segment 90: moderate, data (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1996 data shows exceedence of temperature criteria, 7 day ave. max. 71.2°F		303(d) List	Addition
Dumont Creek Mouth to Straight Creek	13B-DUM00	Biological Criteria			Dumont Creek Watershed Analysis (USFS, 1995)	Cumulative score for Dumont Creek indicated moderately impaired values suggesting habitat or water quality limitations (Dumont Creek Watershed Assessment, 1995 Supplement, USFS).		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to headwaters	13B-DUMOO	Habitat Modification			Monitoring and Evaluation Report (USFS, 1992); NPS Assessment - segment 128: moderate, data (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Coho and Searun Cutthroat which have been petitioned under the ESA and Spring Chinook, a stock at risk, occur in the stream; habitat conditions (lack of LWD) are below DFC (Dumont Creek Watershed Assessment, 95 Supplement (USFS). Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
Mouth to Straight Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 125: moderate, data (DEQ, 1988)	USFS Data (Site at mouth): 7 day average of daily maximums of 72.2/69.9/72.7/66.8/72.3/69.8°F exceeded temperature standard (64) in 1990/91/92/93/94/96 respectively.		303(d) List	
East Fork Creek Mouth to Headwaters	13B-EASF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	1996 data shows exceedence of temperature criteria, 7 day ave. max. 65.0°F		303(d) List	Addition
Elk Creek Mouth to Headwaters	13B-ELK0	Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segment 87 and 88: moderate, data (DEQ, 1988)	Coho have severely depressed populations and low flows and flow alteration due to withdrawals have been identified as one of the limiting factors (ODFW, 92); IWR (59916) are often not met at USGS gage (14308500).		303(d) List	
		Habitat Modification			NPS Assessment - segment 87 and 88: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 87: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	13B-ELK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 87 and 88: severe, data (DEQ, 1988)	USFS Data (5 Sites): Near mouth at Tiller RS: 7 day average of daily maximums of 78.4/72.7/74.5/78.4/77.2°F in years 1990/91/93/94/95 respectively. 4 other sites in 1995 were 76.3/75.2/75.4/77.1°F; above Flat Creek in 1996 was 77.1°F; all years an sites exceeded temperature standard (64).		303(d) List	
Elk Valley Creek Mouth to Confluence of East/West Forks	13B-ELKV0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at confluence with West Fork Cow Cr): 7 day average of daily maximums of 68.8 with 45 days exceeded temperature standard (64) in 1995.	Data did not meet quality assurance.	Potential Concern	Addition
Elk Valley Creek, East Fork Mouth to headwaters	13B-ELVE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM Data (Site above confluence with West Fork): 7 day average of daily maximums of 61.4/60.8/62.2°F for years 1994/95/96 with 0 days exceeded temperature standard (64).		OK	Addition
Elk Valley Creek, West Fork Mouth to Headwaters	13B-ELVW0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM data shows exceedence of temperature criteria, 7 day ave. max. 68.8/70.7/65.2°F for years 1994/96/97	Did not meet listing criteria	303(d) List	Addition
Falcon Creek Mouth to Headwaters	13B-FALC0	Temperature	Rearing 64 F (17.8 C)	Summer	Jackson Creek Watershed Analysis (USFS, 1995)	USFS Data (Site at mouth): 7 day average of daily maximum of greater than 64 with a maximum of 67.6 exceeded temperature standard (64) in 1994 (Little R Watershed Analysis (9/95).		303(d) List	
Fate Creek Mouth to Headwaters	13B-FATE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	1997 data shows exceedence of temperature criteria, 7 day ave. max. 64.5°F		303(d) List	Addition

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Flat Creek Mouth to Headwaters	13B-FLAT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data Site at mouth 7 day average of daily maximums of 71.6°F for 1995 exceeded temperature standard (64).		303(d) List	Addition
Fortune Branch Creek Mouth to Headwaters	13B-FORT0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at Road 32-5-20 Crossing): 7 day average of daily maximums for years 1995/96/97 of 65.6/62.7/65.5. Two out of three years exceeded temperature standard (64).		303(d) List	Addition
Francis Creek Mouth to Headwaters	13B-FRAN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data site near mouth 7 day average of daily maximums of 66.4 in 1996 exceeded temperature standard (64).		303(d) List	Addition
Iron Mountain Creek Mouth to headwaters	13B-IRON0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1997 data shows exceedence of temperature criteria, of 64.7°F		303(d) List	Addition
Jackson Creek Mouth to Headwaters	13B-JACK0	Biological Criteria			Jackson Creek Watershed Analysis (USFS, 1995)	Scores for riffle samples ranged from 32 to 52 from 1989 - 1992 indicating moderately to severely impaired conditions (Jackson Creek Watershed Analysis, 1995).		303(d) List	

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Basin <i>Umpqua</i>	Sub	<i>South Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	13B-JACK0	Habitat Modification			Jackson Creek Watershed Analysis (USFS, 1995); NPS Assessment - segment 119 - 121: severe/moderate, data (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Coho and Searun Cutthroat which have been petitioned under the ESA and Spring Chinook, a stock at risk, occur in the stream; habitat conditions (LWD) are degraded with evidence that it is affecting biological communities (USFS, 95). Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not meet either the Large Woody Debris Frequency (for 50% of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	
		pH		Summer	Jackson Creek Watershed Analysis (USFS, 1995)	Lower and Middle Jackson Creek had frequent exceedences of pH standard (6.5 - 8.5) in 1994, exceedences measured 8/23, 24, 25; 9/1; 9/27 with a maximum of 9.1.		303(d) List	
		Sedimentation			Jackson Creek Watershed Analysis (USFS, 1995); NPS Assessment - segment 119: moderate, observation (DEQ, 1988)	Coho and Searun Cutthroat which have been petitioned under the ESA and Spring Chinook, a stock at risk, occur in the stream; habitat conditions (excessive fine sediment) are degraded with evidence that it is affecting biological communities (USFS, 95).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; BLM Data (1994); NPS Assessment - segment 119 and 120: moderate, data (DEQ, 1988)	USFS Data (6 Sites: near Telequa Store, 7 day average of daily maximums of 72.4/74.8/70.1/75.7°F in 1991/92/93/94; above Squaw Creek 1994, 73.4°F; above Beaver Creek, 1994, 76.1; above Falcon Creek 1994, 67.3°F; above Lonewoman Creek 1994, 71.5°F; at mouth 1994, 78.8°F.		303(d) List	
Joe Hall Creek Mouth to Headwaters	13B-JOEH0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data site near mouth 7 day average of daily maximums of 69.7°F in 1995 exceeded temperature standard (64).		303(d) List	Addition

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Johnson Creek (Myrtle Creek)									
Mouth to headwaters	13B-JOHN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. in 1997 was 59.0°F	Did not meet listing criteria	OK	Addition
Kent Creek									
Mouth to Headwaters	13B-KENT0	Flow Modification Habitat Modification			NPS Assessment - segment 112: severe, data (DEQ, 1988) Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.	No supporting data or information	Need Data 303(d) List	Addition
Lane Creek									
Mouth to Headwaters	13B-LANE0	Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
Lonewoman Creek									
Mouth to Headwaters	13B-LONE0	Temperature	Rearing 64 F (17.8 C)	Summer	Jackson Creek Watershed Analysis (USFS, 1995)	USFS Data (Site at mouth): 7 day average of daily maximum of less than 64 with a maximum of 63.8 did not exceed temperature standard (64) in 1994 respectively (Little R Watershed Analysis (9/95).	Did not meet listing criteria	OK	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Lookingglass Creek Mouth to Headwaters	13B-LOOK0	Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segment 71: severe, data (DEQ, 1988); USGS flow data and Instream water rights	USGS flow data shows segment does not meet instream water rights during parts of the year.		303(d) List	Addition
Martin Creek Mouth to headwaters	13B-MART0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1997 data shows exceedence of temperature criteria, 64.7°F		303(d) List	Addition
Middle Creek Mouth to headwaters	13B-MIDD0	Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 99: moderate, observation (DEQ, 1988)	BLM Data (3 Sites: Near mouth (T32S-R08W-S1) 7 day average of daily maximums of 76.1/73.1 for 1994/1995; above South Fork (T31S-R06W-S29) 70.8/69.1 for 1994/1995 and upper Middle Creek 71.4°F in 1994 all exceeded temperature standard (64).		303(d) List	Segment Modification
Middle Creek, South Fork Mouth to Headwaters	13B-MISF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site T31S-R06W-S29; at mouth): 7 day average of daily maximums of 73.4/69.5/69.6°F for 1994/95/97 all exceeded temperature standard (64).		303(d) List	
Myrtle Creek Mouth to North/South Fork Confluence	13B-MYRT0	Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segment 77: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	13B-MYRT0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 77: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Myrtle Creek, North Mouth to Slide Creek	13B-MYN0	Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segment 77 and 78: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Headwaters		Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		Sedimentation			NPS Assessment - segment 78: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 77 and 78: moderate/severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
Myrtle Creek, South Mouth to Weaver Creek	13B-MYS0	Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segment 82 and 83: moderate, data (DEQ, 1988)	Searun Cutthroat and coho have severely depressed populations and low flows and flow alteration due to withdrawals have been identified as one of the limiting factors (ODFW, 92); IWR (71191) are often not met at USGS gage (14310700).		303(d) List	
		Sedimentation			NPS Assessment - segment 82 and 83: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to headwaters	13B-MYS0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 82 and 83: severe/moderate, observation (DEQ, 1988)	BLM Data (2 Sites: Below Ben Branch (RM 9) - T29S-R04W-S21, 7 day average of daily maximums for 1994/95 was 72.1/74.3°F and below confluence of Curtin/Johnson Cr (RM 19.6) - T28S-R03W-S35 for 1995/96 was 68.4/64.3°F both sites all years exceeded temperature standard (64).		303(d) List	Segment Modification
O'Shea Creek Mouth to Headwaters	13B-OSHE0	Flow Modification			NPS Assessment - segment 110: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Olalla Creek Mouth to Thompson Creek	13B-OLAL0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered impaired with a Discriminant Score of <61 points. Discriminant Score was 48.		303(d) List	Addition
		Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segment 74: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 73: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Salmon Spawning 55 F (12.8 C)	Summer	BLM Data	BLM Data (2 Sites: at mouth 7 day average of daily maximums for years 1994/95/96/97 was 72.4/70.6/73.0/70.0°F and below Thompson Creek, T29S-R02W-S32): 7 day average of daily maximums of 67.3 NS 69.5 exceeded temperature standard (64).		303(d) List	
Panther Creek Mouth to headwaters	13B-PANT0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for years 1995/96 is 62.7/59.5°F	Did not meet listing criteria	OK	Addition
Quartz Creek Mouth to Headwaters	13B-QUAR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 68.7/66.4/67.8/65.6/69.0 exceeded temperature standard (64) in 1990/91/92/93/94 respectively.		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Quines Creek Mouth to Headwaters	13B-QUIN0	Flow Modification			NPS Assessment - segment 101 and 314: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 101 and 314: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 101 and 314: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 101 and 314: severe, observation (DEQ, 1988) and BLM data	BLM data shows exceedence of temperature criteria two out of three years, 1994/95/96, 66.3/63.4/66.3°F		303(d) List	Addition
Rattlesnake Creek Mouth to headwaters	13B-RATT0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. in years 1995/96, 61.7/63.8°F	Did not meet listing criteria	OK	Addition
Rice Creek Mouth to Headwaters	13B-RICE0	Flow Modification			NPS Assessment - segment 111: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
Riffle Creek Mouth to Headwaters	13B-RIFF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at Confluence with Cow Creek): 7 day average of daily maximums of 68.1/ 65.7°F exceeded temperature standard (64) in 1995/96.		303(d) List	Addition

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Riser Creek Mouth to headwaters	13B-RISE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1997 data shows exceedence of temperature criteria, 7 day ave. max. 68.2°F		303(d) List	Addition
Roberts Creek Mouth to Headwaters	13B-ROBE0	Flow Modification			NPS Assessment - segment 115: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Shively Creek Mouth to headwaters	13B-SHIV0	Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
Skull Creek Mouth to Headwaters	13B-SKUL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site near confluence with Cow Creek): 7 day average of daily maximums of 66.2/66.5/68.5 for years 1994/95/96 exceeded temperature standard (64).		303(d) List	Addition
Slick Creek Mouth to headwaters	13B-SLIC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1997 data shows exceedence of temperature criteria, 7 day ave. max. 66.4°F		303(d) List	Addition
Slide Creek Mouth to Headwaters	13B-SLID0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site near confluence with West Fork Cow Creek): for 1995, 7 day average of daily maximums of 64.2°F exceeded temperature standard (64).	Data did not meet quality assurance.	Potential Concern	Addition
Snow Creek Mouth to headwaters	13B-SNOW0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	1995 data shows exceedence of temperature criteria, 7 day ave. max. 73.6°F		303(d) List	Addition

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Squaw Creek Mouth to Headwaters	13B-SQUA0	Temperature	Rearing 64 F (17.8 C)	Summer	Jackson Creek Watershed Analysis (USFS, 1995)	USFS Data (Site at mouth): 7 day average of daily maximum of 61.8 and 64 with a maximum of 62.2 and 66.2 did not exceed temperature standard (64) in 1993 and 1994 respectively (Little R Watershed Analysis (9/95). Above Donegan Creek in 1994, 62.7°F.	Did not meet listing criteria	OK	
St. John Creek Mouth to Headwaters	13B-ASH0	Flow Modification			NPS Assessment - segment 108: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Starvout Creek Mouth to Headwaters	13B-STAR0	Sedimentation			NPS Assessment - segment 102: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Stouts Creek, East Fork Mouth to Headwaters	13B-STEF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximums of 67.8/67.8/65.2/66.4°F for years 1992/94/95/96 exceeded temperature standard (64).		303(d) List	
Stouts Creek, West Fork Mouth to Headwaters	13B-STWF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximums of 71.9/72.3/72.5/75.9°F for years 1992/94/95/96 exceeded temperature standard (64).		303(d) List	
Tenmile Creek Mouth to Shields Creek	13B-TENM0	Flow Modification			NPS Assessment - segment 75: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Thompson Creek Mouth to Headwaters	13B-THOM0	Flow Modification			NPS Assessment - segment 402: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 402: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	13B-THOM0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 402: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Thomson Creek									
Mouth to Headwaters	13B-THOM0	Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
Umpqua River, Black Rock Fk to South Fk									
Mouth to Headwaters	13B-UMSB0	Habitat Modification			Monitoring and Evaluation Report (USFS, 1992)	Searun Cutthroat which have been petitioned under the ESA and Spring Chinook, a stock at risk, occur in the stream; habitat conditions (lack of LWD and pools, pool depth) have been rated very low (USFS, 1993).		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site near Mink Creek): 7 day average of daily maximums of 67.6/65.6/65.7/64.2/72.3 exceeded temperature standard (64) in 1990/91/92/93/94 respectively.		303(d) List	Addition
Umpqua River, Castle Rock Fk to South Fk									
Mouth to Headwaters	13B-UMSC0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 69.3/62.9/67.6 exceeded temperature standard (64) in 1992/93/94		303(d) List	
Umpqua River, South									
Mouth to Roberts Creek	13B-UMS0	Aquatic Weeds or Algae	Periphyton	Summer	DEQ and USGS Data; NPS Assessment - segment 66: severe, data (DEQ, 1988)	USGS Studies (1994).		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96		
Name && Description	Waterbody Segment	Parameter	Criteria	Season							
Mouth to Roberts Creek	13B-UMSO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ and USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 66: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402112, 404201; RM 5.1, 10.7): 19% (10 of 52), 17% (6 of 35) FWS values exceeded fecal coliform standard (400) with maximum values of 2400 and 1600 respectively between WY 86 - 95.		303(d) List			
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ and USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 66: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402112, 404201; RM 5.1, 10.7): 11% (3 of 28), 0% (0 of 20) Summer values respectively exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 86 - 95.	Did not meet listing criteria	OK			
		Biological Criteria				DEQ Data	DEQ Data (Site 404348; RM 7.5): Bioassessment Index score was 62% of reference site based on DEQ data collected in 1991 (DEQ, 1992).		303(d) List		
		Chlorophyll a			Summer	DEQ and USGS Data; NPS Assessment - segment 66: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402112, 404201; RM 5.1, 10.7): 4% (1 of 27), 0% (0 of 22) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with a maximum value of 28 ug/l between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)		Salmonid spawning: water DO < 11mg/l		October 1 - March 30	DEQ and USGS Data	DEQ Data (2 Sites: 402112, 404201; RM 5.1, 10.7): 6% (0 of 38, 4 of 31) November - March values respectively exceeded dissolved oxygen spawning standard (11 mg/l or 95% saturation) between WY 1986 - 1996	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		Cold-water aquatic life: DO < 8 mg/l or 90% sat.		April 1 - September 31	DEQ and USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 66: severe, data (DEQ, 1988)	USGS Data (Site 14312260, near Roseburg): Continuous monitoring site (since 1970) frequently recorded daily exceedences of Dissolved Oxygen standard (8.0 mg/l) between July to Sept with a minimum of 0.6 mg/l reported in WY 92; (Cold water fishery).		303(d) List	
Mouth to Cow Creek		Flow Modification			NPS Assessment - segment 66: severe, data (DEQ, 1988), USGS flow data and Instream Water Rights	USGS flow data shows segment does not always meet instream water right. Searun Cutthroat and coho have severely depressed populations and low flows and flow alteration due to withdrawals have been identified as one of the limiting factors (ODFW, 92)		303(d) List	Addition		

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Roberts Creek	13B-UMS0	Nutrients	Phosphorus	Summer	DEQ and USGS Data - TMDL Study (305(b), 1994); NPS Assessment - segment 66: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402112, 404201; RM 5.1, 10.7): 45% (14 of 31), 0% (0 of 22) Summer values exceeded phosphorus criteria (0.10) with a maximum value of 0.520 between WY 86 - 95.		303(d) List	
				June 1 - October 31	DEQ and USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 66: severe, data (DEQ, 1988)				
		pH		November 1 - May 31	DEQ and USGS Data	DEQ Data (2 Sites: 402112, 404201; RM 5.1, 10.7): 2% (1 of 44), 0% (0 of 30) FWS values exceeded maximum pH standard (6.5 - 8.5) with maximum values of 8.8 and 8.2 respectively between WY 86 - 95.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 66: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Ambient Data (9 - 1994); DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 66: severe, data (DEQ, 1988)	USGS Data (Site at mouth): 7 day average of daily maximums of 83.8/82.5/83.6/80.7/82.9 with 109, 150 days exceeding temperature standard (64) in 1990/91/92/93/94 respectively.		303(d) List	
Mouth to Canyonville		Toxics	Chlorine	Year Around	DEQ TMDL data	Development of TMDL shows Chlorine toxicity associated with major discharges to river from Canyonville to mouth.		303(d) List	Addition
		Toxics	Ammonia	Year Around	DEQ TMDL data			Development of TMDL shows possible ammonia toxicity associated with major discharges to system from Canyonville to mouth.	Potential Concern

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Roberts Creek	13B-UMS0	Toxics	Water (Ammonia)	Summer	DEQ and USGS Data	DEQ Data (Site 402112; RM 5.1): 9% (4 of 45) Summer values exceeded chronic un-ionized ammonia criteria (salmonid) between WY 1986 - 1995. 0% (0 of 45) Summer values exceeded acute un-ionized ammonia criteria (salmonid) between WY 1986 - 1995.	Did not meet listing criteria	OK	
Roberts Creek to Days Creek	13B-UMS16.2	Aquatic Weeds or Algae	Periphyton	Summer	DEQ and USGS Data; NPS Assessment - segment 66: severe, data (DEQ, 1988)	USGS Studies (1994).		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (2 Sites: 402113, 404163; RM 21.2, 55.5): 15% (4 of 27), 4% (1 of 25) Summer values exceeded fecal coliform standard (400) with maximum values of 920 and 460 respectively between WY 86 - 95.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 402113, 404163; RM 21.2, 55.5): 12% (6 of 52), 2% (1 of 51) FWS values exceeded fecal coliform standard (400) with maximum values of 1600 and 540 respectively between WY 86 - 95.		303(d) List	
		Biological Criteria			DEQ Data	DEQ Data (Site 404348; RM 7.5): Bioassessment Index score was 69% of reference site based on DEQ data collected in 1991 (DEQ, 1992).		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (2 Sites: 402113, 404163; RM 21.2, 55.5): 4% (1 of 28), 0% (0 of 25) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with a maximum value of 25 ug/l between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	October 1 - March 31	DEQ and USGS Data	DEQ Data (Site 402113; RM 21.2): 0% (1 of 36) October - March values exceeded dissolved oxygen spawning standard (11 mg/l or 95% saturation) between WY 1986 - 1995 (Cold water fishery, spawning and annual rearing).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	April 1 - September 31	DEQ and USGS Data	USGS Studies (1990 - 1992): Values at selected diurnal sites fell below 6.5 mg/l (Cold water fishery) (USGS, 1994).		303(d) List	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Roberts Creek to Days Creek	13B-UMS16.2	Habitat Modification			NPS Assessment - segment 370 and 67: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	Summer	DEQ and USGS Data; NPS Assessment - segment 370: moderate, observation (DEQ, 1988)	DEQ Data (2 Sites: 402113, 404163; RM 21.2, 55.5): 0% (0 of 28), 4% (1 of 26) Summer values respectively exceeded phosphorus criteria (0.10) with a maximum value of 0.180 between WY 86 - 95.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ and USGS Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 402113, 404163; RM 21.2, 55.5): 0% (0 of 52), 2% (1 of 51) FWS values respectively exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.6 between WY 86 - 95.	Did not meet listing criteria	OK	
		pH		Summer	DEQ and USGS Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (3 Sites: 402113, 404993, 404163; RM 21.2, 31.55, 55.5): 15% (4 of 27), 63% (5 of 8), 8% (2 of 25) Summer values exceeded pH maximum standard (6.5 - 8.5) with maximum values of 8.9, 9.4, 8.8 respectively between WY 86 - 95.		303(d) List	
		Sedimentation			NPS Assessment - segment 370 and 67: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 370 and 67: severe, data (DEQ, 1988)	USGS Data (Site at Days Creek): 7 day average of daily maximums of 79.4 and 83.2 exceeded temperature standard (64) in 1991 and 1992.		303(d) List	
Cow Creek to Elk Creek	13B-UMS47	Flow Modification			NPS Assessment - segment 370 and 67: moderate/severe, data (DEQ, 1988); USGS Flow data and Instream water Rights	USGS flow data shows segment does not meet instream water rights during parts of the year. Searun Cutthroat and coho have severely depressed populations and low flows and flow alteration due to withdrawals have been identified as one of the limiting factors (ODFW, 92)		303(d) List	Addition

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Days Creek to Castle Rock/Black Rock Forks	13B-UMS57.2	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	June 1 - August 31	DEQ Data	DEQ Data (Site 404163; RM 55.5): 0% (0 of 19) June through August values exceeded rearing dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water rearing, approximately Jun - Aug).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - May 31	DEQ Data	DEQ Data (Site 404163; RM 55.5): 10% (4 of 39) September - May values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 7.6 mg/l between WY 1986 - 1996 (Cold water spawning, approx. Sep - May).	Did not meet listing criteria	OK		
		Habitat Modification				NPS Assessment - segment 67, 117 and 118: moderate/severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Summer	DEQ and USGS Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404163; RM 55.5): 16% (4 of 25) Summer values exceeded pH standard (6.5 - 8.5) with a maximum of 8.8 between WY 86 - 95; USGS Data (at Tiller): 20% (3 of 15) Summer values exceeded standard with a maximum of 8.8 between 90 - 92.		303(d) List	
		Sedimentation				Jackson Creek Watershed Analysis (USFS, 1995); NPS Assessment - segment 67: moderate, data (DEQ, 1988)	Coho and Searun Cutthroat which have been petitioned under the ESA and Spring Chinook, a stock at risk, occur in the stream; habitat conditions (excessive fine sediment) are degraded (USFS, 95).		303(d) List	
Elk Creek to Buckeye Creek	13B-UMS75	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 67, 117 and 118: severe/moderate, data (DEQ, 1988)	USFS Data (Site at Tiller RS): 7 day average of daily maximums of 77.8/75.4/78.8/73.6/79.7 exceeded temperature standard (64) in 1990/91/92/93/94 respectively.		303(d) List		
		Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segment 67: severe, data (DEQ, 1988); USGS flow data and Instream water rights	USGS flow data shows segment does not meet instream water rights during parts of the year. Searun Cutthroat and coho have severely depressed populations and low flows and flow alteration due to withdrawals have been identified as one of the limiting factors (ODFW, 92)		303(d) List	Addition	

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Wallace Creek Mouth to headwaters	13B-WALL0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. in 1996 was 58.7°F	Did not meet listing criteria	OK	Addition
Whitehorse Creek Mouth to Headwaters	13B-WHIT0	Habitat Modification			NPS Assessment - segment 103: moderate, observation (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
Willis Creek Mouth to Headwaters	13B-WILLO	Flow Modification			NPS Assessment - segment 113: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Windy Creek Mouth to Headwaters	13B-WIND0	Flow Modification			NPS Assessment - segment 104 and 105: severe, observation/data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site near confluence with Cow Creek): 7 day average of daily maximums of 66.3/67.4/66.6 for years 1995/96/97 all exceeded temperature standard (64).		303(d) List	Addition

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Basin <i>Umpqua</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Woodford Creek Mouth to Headwaters	13B-WOOD0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at Mountain Grove): 7 day average of daily maximums of 65.3 with 18 days exceeded temperature standard (64) in 1995.		303(d) List	Addition

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Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Bachelor Creek Mouth to Headwaters	13C-BACH0	Flow Modification			NPS Assessment - segment 39: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Bear Camp Creek Mouth to Headwaters	13C-BEAC0	Sedimentation			NPS Assessment - segment 179: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Bear Creek Mouth to headwaters	13C-BEAR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM temperature data 7 day ave. max. was 65.5/62.3 for 1996/97. Data shows exceedence/not exceedence of temperature criteria.	Did not meet listing criteria	Potential Concern List	Addition
Bear Wollow Creek (trib of Paradise Cr.) Mouth to headwaters	13C-BEAW0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	No temperature exceedences, 7 day Ave. Max. in 1994 was 61.4°F	Did not meet listing criteria	OK	Addition
Beaver Creek (Smith River) Mouth to headwaters	13C-BEAV0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1996 was 63.8°F	Did not meet listing criteria	OK	Addition
Big Creek Mouth to Headwaters	13C-BIG0	Habitat Modification			NPS Assessment - segment 11: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Big Tom Folley Creek Mouth to Headwaters	13C-TOBIO	Habitat Modification			NPS Assessment - segment 24: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 24: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Big Tom Folley Creek, North Fork Mouth to RM 2	13C-TOBN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (2 Sites: Lower site, 7 day average of daily maximums for 1994/95 was 64.9/64.5; Middle site 1994/95, 58.9/59.9°F lower 2 miles did not meet temperature standard (64).		303(d) List	Addition

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Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
RM 2 to headwaters	13C-TOBN2	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, at middle site for 1994/95, 7 day Ave. Max. was 58.9/59.9°F	Did not meet listing criteria	OK	Segment Modification
Billy Creek									
Mouth to Andrews Creek	13C-BILL0	Habitat Modification			NPS Assessment - segment 25: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Blue Hole Creek									
Mouth to headwaters	13C-BLUH0	Temperature	Rearing 64 F (17.8 C)	Summer	ODF data	ODF data (2 sites: Mouth in 1994, 63.6°F and upper 1994, 53.3°F No temperature exceedences	Did not meet listing criteria	OK	Addition
Brush Creek									
Mouth to RM 6.5 above Blue Hole Creek	13C-BRUS0	Temperature	Rearing 64 F (17.8 C)	Summer	ODF data	8 sites from the mouth to the upper reaches of Brush Creek temperatures in 1994 where from mouth to headwaters 71.8/70.1/69.1/67.8/70.1/73.1/68.5/66.7/59.3°F all except the headwaters site show exceedence of temperature		303(d) List	Addition
RM 6.5 above Blue hole Creek to headwaters	13C-BRUS6.5	Temperature	Rearing 64 F (17.8 C)	Summer	ODF data	No temperature exceedences for headwaters site in 1994, 7 day Ave. Max. 59.3°F	Did not meet listing criteria	OK	Addition
Buck Creek									
Mouth to West Fork	13C-BUCK0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM (2 sites in 1997: at mouth, 66.0°F and in headwaters 62.7°F Exceeded at mouth didn't exceed at headwaters		303(d) List	Addition
West Fork to headwaters	13C-BUCK1	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1997at headwaters 62.7°F	Did not meet listing criteria	OK	Addition
Buck Creek, West Fork									
Mouth to headwaters	13C-BUWF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. at mouth for 1997 was 63.3°F	Did not meet listing criteria	OK	Addition
Bum Creek (Smith River)									
Mouth to headwaters	13C-BUM0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1995 data shows exceedence of temperature criteria, 7 day ave. max. 64.4°F		303(d) List	Addition

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Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Cabin Creek Mouth to headwaters	13C-CABI0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered impaired with a Discriminant Score of <61 points. Discriminant score was 48, however, site was not listed as "impaired" because samples did not meet minimum sample size requirements.	Did not meet listing criteria	Potential Concern List	Addition
Calapooya Creek Mouth to Bachelor Creek	13C-CALA0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 32 and 33: moderate, data (DEQ, 1988)	DEQ Data (Site 402673; RM 0.4): 18% (9 of 49) FWS values exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 32 and 33: moderate, data (DEQ, 1988)	DEQ Data (Site 402673; RM 0.4): 21% (5 of 24) Summer values exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402673; RM 0.4): 0% (0 of 23) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 15 - December 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402673; RM 0.4): 13% (6 of 46) September - May values violated spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 8.5 mg/l between WY 1986 - 1996. All violations occurred between Sept. 15 and Dec. 31 24% (6 of 25) (Cold water spawning, approx. Sep - May).		303(d) List	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	June1 - September 14	DEQ Data	DEQ Data (Site 402673; RM 0.4): 3% (1 of 32) June - Sept. values exceeded cold water dissolved oxygen standard (8.0 mg/l) with a minimum of 6.5 mg/l between WY 1986 - 1996 (Cold water fishery).	Did not meet listing criteria	OK	

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Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Bachelor Creek	13C-CALA0	Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segment 32 and 33: severe/moderate, data (DEQ, 1988)	Searun Cutthroat and coho have severely depressed populations and low flows and flow alteration due to withdrawals have been identified as one of the limiting factors (ODFW, 92); IWR (59901) are often not met at USGS gage (14320700).		303(d) List	
					NPS Assessment - segment 32 and 33: moderate, observation (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not meet either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402673; RM 0.4): 2% (1 of 49) FWS values exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 6.0 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402673; RM 0.4): 13% (3 of 24) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.8 between WY 1986 - 1995.		303(d) List	
		Sedimentation			NPS Assessment - segment 32 and 33: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to confluence of North/South Forks		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 32 and 33: severe/moderate, observation (DEQ, 1988)	DEQ Data (Site 402673; RM 0.4): 83% (20 of 24) Summer values exceeded temperature standard (64) with a maximum of 79.7 and violations recorded in each year based on data collected between WY 1986 - 1995.		303(d) List	

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Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bachelor Creek to Coon Creek	13C-CALA19	Habitat Modification			NPS Assessment - segment 34: moderate, observation (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		Sedimentation			NPS Assessment - segment 34: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 34: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Camp Creek									
Mouth to Headwaters	13C-CAMP0	Habitat Modification			NPS Assessment - segment 22 and 178: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Cedar Creek (trib to Paradise Cr)									
Mouth to Headwaters	13C-CEDA0	Temperature	Rearing 64 F (17.8 C)	Summer	Paradise Creek Watershed Analysis (BLM, 1994)	BLM Data (Site near mouth): 7 day average of daily maximums of 59.2°F for 1994 and 62.7 °F for 1997 did not exceed temperature standard (64) (Paradise Cr Watershed Analysis and BLM data).	Did not meet listing criteria	OK	
Ceder Creek (Smith River)									
Mouth to headwaters	13C-CEDE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1994 was 63.8°F	Did not meet listing criteria	OK	Addition
Cleghorn Creek (Smith River)									
Mouth to Headwaters	13C-CLEG0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (3 sites): lower, 7 day average of daily maximums for 1995/96 was 63.5/64.6°F; middle, 1994/95/96 was 63.5/64.3/65.3°F; upper, 1995/96 was 61.6/62.2°F; 50% of time did not met temperature standard (64).		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Coon Creek (Calapooya Drainage)									
Mouth to Headwaters	13C-COON0	Flow Modification			NPS Assessment - segment 35: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Coon Creek (Smith River)									
Mouth to headwaters	13C-COON0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1996 was 62.6°F	Did not meet listing criteria	OK	Addition
Crane Creek (Smith River)									
Mouth to headwaters	13C-CRAN0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1996 was 62.8°F	Did not meet listing criteria	OK	Addition
Dodge Canyon Creek									
Mouth to Headwaters	13C-DODG0	Flow Modification			NPS Assessment - segment 36: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 36: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 36: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 36: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Elk Creek									
Mouth to Yoncalla Creek	13C-ELK0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 372 and 373: severe, observation/data (DEQ, 1988)	DEQ Data (2 Sites: 402111, 402984; RM 0.2, 22.8): 18% (2 of 11), 22% (8 of 37) FWS values respectively exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 86 - 95.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 372 and 373: severe, observation/data (DEQ, 1988)	DEQ Data (2 Sites: 402111, 402984; RM 0.2, 22.8): 0% (0 of 9), 24% (4 of 17) Summer values respectively exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 86 - 95.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>	Sub <i>Umpqua</i>	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description Mouth to Yoncalla Creek	Waterbody Segment 13C-ELK0	Chlorophyll a		Summer	DEQ Data; NPS Assessment - segment 373: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 402111, 402984; RM 0.2, 22.8): 0% (0 of 8), 0% (0 of 17) Summer values respectively exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 15 - May 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 372 and 373: moderate/severe, data (DEQ, 1988)	DEQ Data (Site 402984; RM 22.8): 31% (9 of 33) September - May values exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 6.6 mg/l between WY 1986 - 1996 (Cold water spawning).		303(d) List	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	June 1 - September 14	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 372 and 373: moderate/severe, data (DEQ, 1988)	DEQ Data (Site 40211 and 402984; RM 22.8): 25% (1 of 11 and 5 of 13) June - Sept. values exceeded cold water dissolved oxygen standard (8.0 mg/l) with a min of 6.5 mg/l between WY 1986 - 1996 (Cold water fishery).		303(d) List	Addition
		Flow Modification			USGS (1990); IWR (ODFW); NPS Assessment - segment 372 and 373: moderate, data (DEQ, 1988)	Searun Cutthroat and coho have severely depressed populations and low flows and flow alteration due to withdrawals have been identified as one of the limiting factors (ODFW, 92); IWR (59919) are often not met at USGS gage (14322000).		303(d) List	
		Nutrients			NPS Assessment - segment 372 and 373: moderate/severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data; NPS Assessment - segment 373: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 402111, 402984; RM 0.2, 22.8): 11% (1 of 9), 6% (1 of 17) Summer values exceeded pH maximum standard (6.5 - 8.5) with maximum values of 9.0 and 8.7 respectively between WY 86 - 95.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites: 402111, 402984; RM 0.2, 22.8): 0% (0 of 11), 0% (0 of 37) FWS values exceeded pH standard (6.5 - 8.5) respectively between WY 86 - 95.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 372 and 373: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Yoncalla Creek	13C-ELK0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 372 and 373: severe, observation (DEQ, 1988)	DEQ Data (Site 402984; RM 22.8): 71% (12 of 17) Summer values exceeded temperature standard (64) with a maximum of 80.6 and violations recorded in 1986 - 93 and 1995 based on data collected between WY 1986 - 1992.		303(d) List	
Yoncalla Creek to Headwaters	13C-ELK26.6	Flow Modification			NPS Assessment - segment 23: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 23: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 23: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 23: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Gold Creek (Smith River)									
Mouth to headwaters	13C-GOLDO	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1996 was 62.5°F	Did not meet listing criteria	OK	Addition
Halfway Creek									
Mouth to Headwaters	13C-HALF0	Habitat Modification			NPS Assessment - segment 12: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Herb Creek (Smith River)									
Mouth to headwaters	13C-HERB0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1995 data shows exceedence of temperature criteria, 7 day ave. max. 65.0°F		303(d) List	Addition
House Creek (trib to Paradise Creek)									
Mouth to Headwaters	13C-HOUS0	Temperature	Rearing 64 F (17.8 C)	Summer	Paradise Creek Watershed Analysis (BLM, 1994)	BLM Data (Site near mouth): 7 day average of daily maximums of 59.1°F in 1994 and 64.3°F in 1997 did not /did exceed temperature standard (64). (Paradise Cr Watershed Analysis and BLM data).	Did not meet listing criteria	Potential Concern List	Status Modification

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>			Sub	<i>Umpqua</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Hubbard Creek Mouth to Headwaters	13C-HUBB0	Flow Modification			NPS Assessment - segment 31: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
					Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.			303(d) List	Addition
			Sedimentation			NPS Assessment - segment 31: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
			Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 31: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Jeff Creek (Smith River) Mouth to headwaters	13C-JEFF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1995 was 62.8°F	Did not meet listing criteria	OK	Addition	
Lake Creek Mouth to Headwaters	13C-LAKE0	Habitat Modification			NPS Assessment - segment 21: moderate, observation (DEQ, 1988)	Lake Creek was misidentified as Mill Creek segment 18	No supporting data or information	Need Data	Segment Modification	
		Sedimentation			NPS Assessment - segment 21 and 179: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 21: moderate, observation (DEQ, 1988)	Lake Creek was misidentified as Mill Creek segment 18	No supporting data or information	Need Data	Segment Modification	
Little Paradise Creek Mouth to Headwaters	13C-PALIO	Habitat Modification			NPS Assessment - segment 179: severe, data (DEQ, 1988)		No supporting data or information	Need Data		

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	13C-PALIO	Temperature	Rearing 64 F (17.8 C)	Summer	Paradise Creek Watershed Analysis (BLM, 1994)	BLM Data: For the warmest period (June 30 - Sep 30), average 7 day maximums exceeded temperature standard (64) for 9 of 66 periods at the mouth (LP-1) 66.2°F and 15 of 66 at a middle site (LP-2) 66.8°F, but did not at an upper site 61.6°F in 1994 (Paradise Cr Watershed Analysis).		303(d) List	
Little Tom Folley Creek Mouth to Headwaters	13C-TOLIO	Temperature			NPS Assessment - segment 24: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Little Wolf Creek Mouth to headwaters	13C-WOLLO	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site at mouth 7 day ave. max. temperature for 1992/95/96 was 67.9/69.2/72.1°F which shows exceedence of temperature criteria.		303(d) List	Addition
Lutsinger Creek Mouth to Headwaters	13C-LUTSO	Habitat Modification			NPS Assessment - segment 176: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Mehl Creek Mouth to Headwaters	13C-MEHL0	Habitat Modification			NPS Assessment - segment 177: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Mill Creek Mouth to Loon Lake	13C-MILLO	Habitat Modification			NPS Assessment - segment 18: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	Segment Modification
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 18: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	Segment Modification
Miner Creek Mouth to Headwaters	13C-MINE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximums for years 1992/94/95/96 was 66.8/62.3/65.9/68.8 exceeded temperature standard (64) three of four years.		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>		Sub <i>Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Moore Creek (Smith River)									
Mouth to headwaters	13C-MOOR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1996 was 62.4°F	Did not meet listing criteria	OK	Addition
North Sisters Creek (Smith River)									
Mouth to headwaters	13C-NSIS0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences at 4 sites in 1995, 7 day Ave. Max. were 63.8/61.2/63.1/63.9/59.0°F	Did not meet listing criteria	OK	Addition
Oar Creek									
Mouth to Headwaters	13C-OAR0	Flow Modification			NPS Assessment - segment 17: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 17: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 17: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Oldham Creek									
Mouth to Headwaters	13C-OLDH0	Flow Modification			NPS Assessment - segment 40: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 40: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Otter Creek									
Mouth to Headwaters	13C-OTTE0	Flow Modification			NPS Assessment - segment 20: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 20: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 20: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Paradise Creek									
Mouth to Headwaters	13C-PARA0	Habitat Modification			NPS Assessment - segment 81: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to East/ West Forks confluence	13C-PARA0	Temperature	Rearing 64 F (17.8 C)	Summer	Paradise Creek Watershed Analysis (BLM, 1994)	BLM Data: (6 sites from mouth to East/West Forks confluence had average 7 day maximums of 70.6/74.4/68.2/67.7/65.7/64.4°F for 1994 all exceeded temperature standard (64). (Paradise Cr Watershed Analysis).		303(d) List	Segment Modification
Paradise Creek, East Fork									
Mouth to headwaters	13C-PAEF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1994 was 63.7°F	Did not meet listing criteria	OK	Addition
Paradise Creek, West Fork									
Mouth to headwaters	13C-PAWF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1994 was 61.2°F	Did not meet listing criteria	OK	Addition
Pass Creek									
Mouth to Headwaters	13C-PASS0	Flow Modification			NPS Assessment - segment 26: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 26: moderate, observation (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		Temperature			NPS Assessment - segment 26: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pheasant Creek (Lake Creek Drainage)									
Mouth to Headwaters	13C-PHEL0	Sedimentation			NPS Assessment - segment 179: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pollock Creek									
Mouth to Salt Creek	13C-POLL0	Flow Modification			NPS Assessment - segment 38: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Salt Creek	13C-POLL0	Temperature			NPS Assessment - segment 38: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Radar Creek									
Mouth to Headwaters	13C-RADA0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximums of 63.6 met temperature standard (64) with 5 days exceeding standard in 1994.	Did not meet listing criteria	OK	
Rader Creek									
Mouth to Headwaters	13C-RADE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	BLM Data (Site at mouth): 7 day average of daily maximums for years 1992/94/95/96 was 68.6/63.6/65.0/66.8 exceeded temperature standard (64) three of four years.		303(d) List	Addition
Rock Creek									
Mouth to Headwaters	13C-ROCK0	Flow Modification			NPS Assessment - segment 27: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 27: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Russel Creek (Smith River)									
Mouth to headwaters	13C-SMIT0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1995 data shows exceedence of temperature criteria, 7 day ave. max. 66.4°F		303(d) List	Addition
Russell Creek, North Fork									
Mouth to headwaters	13C-RUNF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1995 was 60.9°F	Did not meet listing criteria	OK	Addition
Sand Creek									
Mouth to Headwaters	13C-SAND0	Temperature			NPS Assessment - segment 28: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Scare Creek									
Mouth to Headwaters	13C-SCAR0	Habitat Modification			NPS Assessment - segment 10: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Scare Creek (Smith River)									
Mouth to headwaters	13C-SCAR0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1996 was 57.1°F	Did not meet listing criteria	OK	Addition

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Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Scholfield Creek Mouth to Headwaters	13C-SCH00	Sedimentation			NPS Assessment - segment 15 and 16: severe/moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
Scholfield Slough Tidal Portion of the Slough	13A+SCH00	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); Shellfish Management Plan - Bay is conditionally approved - closed when Umpqua @ Elkton exceeds 7.5 feet	DEQ Data (Site 412511; Mile 0.1): Exceeded fecal coliform log mean criteria (14) with a value of 15 and exceeded 90% criteria (43) with a value of 170 between WY 1992 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 412511; Mile 0.1): 0% (0 of 25) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 412511; Mile 0.1): 0% (0 of 69) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
Sister Creek, South Mouth to Headwaters	13C-SIS0	Habitat Modification			NPS Assessment - segment 174: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Slide Out Creek Mouth to headwaters	13C-SLIO0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. in 1997 was 60.2°F	Did not meet listing criteria	OK	Addition
Smith River Mouth to North Fork	13C-SMIT0	Sedimentation			NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
North Fork to Headwaters	13C-SMIT16	Habitat Modification Sedimentation			NPS Assessment - segment 1: severe, data (DEQ, 1988) BLM Data (1994); NPS Assessment - segment 1: moderate, observation (DEQ, 1988)		No supporting data or information No supporting data or information	Need Data Need Data	

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Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
North Fork to Headwaters	13C-SMIT16	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 1: moderate, data (DEQ, 1988)	BLM Data (Site above South Fork Smith R - T20S-R06W-S31): 7 day average of daily maximums of 66.8 exceeded temperature standard (64) in 1995.		303(d) List	
South Fork to Headwaters	13C-SMIT78	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered impaired with a Discriminant Score of <61 points. Discriminant score was 42, however, site was not listed as "impaired" because samples did not meet minimum sample size requirements.	Did not meet listing criteria	Potential Concern List	Addition
Smith River, North Fork									
Mouth to Headwaters	13C-SMNF0	Flow Modification			NPS Assessment - segment 2: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 2: moderate, observation (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not meet either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		Sedimentation			NPS Assessment - segment 2 and 3: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 2 and 3: moderate, observation (DEQ, 1988), USFS data and BLM data	USFS Data (Site at Mapleton Road): 7 day average of daily maximums of 73.7 exceeded temperature standard (64) in 1992. BLM 3 sites, in 1992 was 68.0/73.2 and in 1994 was 75.5°F all sites exceeded temperature criteria.		303(d) List	
Middle Fork to Headwaters	13C-SMNF14	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered impaired with a Discriminant Score of <61 points. Discriminant Score was 44.		303(d) List	Addition
Smith River, West Fork									
Mouth to Headwaters	13C-SMWF0	Habitat Modification			NPS Assessment - segment 8: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	13C-SMWF0	Sedimentation			NPS Assessment - segment 8: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 8: moderate, observation (DEQ, 1988), BLM data	BLM data from 7 sites in 1995, 7 day ave. max. 65.5/66.7/64.9/69.0/69.2/71.4/68.2°F all sites show exceedence of temperature criteria.		303(d) List	Addition
Soup Creek									
Mouth to North Fork	13C-SOUP0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	1997 data shows exceedence of temperature criteria, 7 day ave. max. 66.1°F		303(d) List	Addition
North Fork to headwaters	13C-SOUP1	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 1997 was 60.2°F	Did not meet listing criteria	OK	Addition
Soup Creek, North Fork									
Mouth to headwaters	13C-SONF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. in 1997 was 60.5°F	Did not meet listing criteria	OK	Addition
South Sisters Creek (Smith River)									
Mouth to headwaters	13C-SOSI0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	6 BLM sites in 1995 from the mouth to headwaters, 7 day ave. max. temperature 71.0/69.3/66.4/65.9/66.3/65.2°F. All sites show exceedence of temperature criteria,		303(d) List	Addition
Squaw Creek									
Mouth to headwaters	13C-SQUA0	Temperature	Rearing 64 F (17.8 C)	Summer	ODF data	1994 data shows exceedence of temperature criteria, 7 day ave. max. 65.9°F		303(d) List	Addition
Summit Creek (Smith River)									
Mouth to headwaters	13C-SUMM0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. 62.0°F in 1996.	Did not meet listing criteria	OK	Addition
Sweden Creek (Smith River)									
Mouth to headwaters	13C-SWED0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. 62.5°F in 1995	Did not meet listing criteria	OK	Addition
Thistleburn Creek									
Mouth to Burn Creek	13C-THIS0	Temperature	Rearing 64 F (17.8 C)	Summer	ODF data	1994 data shows exceedence of temperature criteria at mouth, 7 day ave. max. 68.2°F		303(d) List	Addition

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Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Burn Creek to headwaters	13C-THIS2	Temperature	Rearing 64 F (17.8 C)	Summer	ODF data	No temperature exceedences in upper reach above debris jam, 7 day Ave. Max. 59.4°F	Did not meet listing criteria	OK	Addition
Umpqua River									
Smith River to Little Mill Creek (Scottsburg)	13C-UMPQ12	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ and USGS Data	DEQ Data (2 Sites: 402107, 402110; RM 48.4, 102.7): 0% (0 of 12), 9% (3 of 35) FWS values respectively exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 86 - 96.	Did not meet listing criteria	OK	Removed (5)
		Flow Modification			NPS Assessment - segment 13: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 13: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)		USGS Data; DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 13: severe, observation (DEQ, 1988)	USGS Data (Site at mouth): 7 day average of daily maximums of 80.5/70.9/79.1 with 95 - 145 days exceeding temperature standard (64) in 1990/91/92 respectively.		303(d) List	
Little Mill Creek (Scottsburg) to North/South Fork	13C-UMPQ27.3	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ and USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 371: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 402107, 402110; RM 48.4, 102.7): 0% (0 of 12), 17% (7 of 42) FWS values respectively exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 86 - 95.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ and USGS Data	DEQ Data (2 Sites: 402107, 402110; RM 48.4, 102.7): 0% (0 of 9), 6% (1 of 18) Summer values respectively exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 86 - 95.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ and USGS Data	DEQ Data (2 Sites: 402107, 402110; RM 48.4, 102.7): 0% (0 of 7), 0% (0 of 20) Summer values respectively exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>	Sub <i>Umpqua</i>	Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Little Mill Creek (Scottsburg) to North/South Fork	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 15 - May 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 402107, 402110; RM 48.4, 102.7): 10% (2 of 19), 3% (0 of 34) September - May values respectively exceeded spawning dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 86 - 96 (Cold water spawning).	Did not meet listing criteria	OK				
										Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.
	Flow Modification	USGS (1990); IWR (ODFW); NPS Assessment - segment 14 and 371: moderate, observation (DEQ, 1988)	Searun Cutthroat and coho have severely depressed populations and low flows and flow alteration due to withdrawals have been identified as one of the limiting factors (ODFW, 92); IWR (73350) are often not met at USGS gage (14321000).		303(d) List						
						Nutrients	NPS Assessment (DEQ, 1988)	No supporting data or information	Need Data		
	pH	Fall-Winter-Spring	DEQ and USGS Data	DEQ Data (2 Sites: 402107, 402110; RM 48.4, 102.7): 0% (0 of 12), 0% (0 of 42) FWS values respectively exceeded pH standard (6.5 - 8.5) between WY 86 - 95.	Did not meet listing criteria					OK	
						pH	Summer	DEQ and USGS Data	DEQ Data (2 Sites: 402107, 402110; RM 48.4, 102.7): 11% (1 of 9), 0% (0 of 19) Summer values exceeded pH standard (6.5 - 8.5) with a maximum value of 8.8 from WY 86-95; USGS Data (14321000, near Elkton): 0% (0 of 18) Summer values exceeded std from 79-86.		Did not meet listing criteria
	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data; DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 14 and 371: severe, observation (DEQ, 1988)	USGS Data (Site at mouth): 7 day average of daily maximums of 80.5/70.9/79.1 with 95 - 145 days exceeding temperature standard (64) in 1990/91/92 respectively. Site at Elkton in 1990/92 was 80.5/79.1°F						

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Vincent Creek Mouth to Headwaters	13C-VINC0	Habitat Modification			NPS Assessment - segment 9: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Weatherly Creek Mouth to Patterson Creek	13C-WEAT0	Habitat Modification			NPS Assessment - segment 80: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 80: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Williams Creek Mouth to Headwaters	13C-WILLO	Flow Modification			NPS Assessment - segment 37: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 37: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 37: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 37: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Winchester Bay - Lower Bay; Mouth to Half Moon Bay	13A*WINC0	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; Shellfish Management Plan - Bay is conditionally approved - closed when Umpqua @ Elkton exceeds 12 feet	DEQ Data (4 Sites: Mile 0.0 - 0.75): All sites met fecal coliform log mean criteria (14) with values ranging from 4 to 8 and all sites met 90% criteria (43) with values ranging from 8 to 33 between WY 92 - 95.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (4 Sites: Mile 0.0 - 0.75): 3 of 4 Sites = 0% (0 of 17, 14, 25) respectively, Site 412500 = 4% (1 of 25) Summer values exceeded fecal coliform standard (400) with a maximum value of 920 between WY 1986 - 1995.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bay; Mouth to Half Moon Bay	13A*WINC0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (4 Sites: Mile 0.0 - 0.75): 1 of 4 Sites = 0% (0 of 33), 3 of 4 Sites = 4, 3, 1% (2, 2, 1 of 55, 71, 75) FWS values respectively exceeded fecal coliform standard (400) with maximum values of 540, 1100, 540 between WY 1986 - 1995.	Did not meet listing criteria	OK	
Winchester Bay - Main									
Bay; Marker 6a to Big Bend	13A*WINC1	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (7 Sites: Mile 1.25 - 5.25): 4 of 7 Sites = 0% (0 of 55 - 76), 3 of 7 Sites = 4, 3, 1% (3,2,1 of 77, 76 75) FWS values respectively exceeded fecal coliform standard (400) with maximum values of 540, 920 and 920 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (7 Sites: Mile 1.25 - 5.25): 3 of 7 Sites = 0% (0 of 21 - 25), 4 of 7 Sites = 4% (1 of 25) Summer values exceeded fecal coliform standard (400) with maximum values of 540, 540, 940 and 950 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); Shellfish Management Plan - Bay is conditionally approved - closed when Umpqua @ Elkton exceeds 7.5 feet	DEQ Data (7 Sites: Mile 1.25 - 5.25): All sites met fecal coliform log mean criteria (14) with values ranging from 8 to 11 and all sites exceeded 90 % criteria (43) with values ranging from 49 to 220 between WY 1992 - 1995.			303(d) List
Winchester Bay - Upper									
Bay; Marker No. 19 to 1 mile upstream of Reedsport	13A*WINC6	Bacteria	Marine and shellfish growing area (fecal coliform)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); Shellfish Management Plan - Bay is conditionally approved - closed when Umpqua @ Elkton exceeds 7.5 feet	DEQ Data (6 Sites: Mile 6.3 - 12.5): 2 Sites exceeded fecal coliform log mean criteria (14) with values ranging from 16 to 17 and all 6 Sites exceeded 90% criteria (43) with values ranging from 70 to 170 between WY 92 - 95.			303(d) List
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (6 Sites: Mile 6.3 - 12.5): 3 of 6 Sites = 0% (0 of 75, 74, 65), 2 of 6 Sites = 1% (1 of 71, 69), Site 412082 = 2% (1 of 63) FWS values exceeded fecal coliform standard (400) with maximum values of 1100, 460, 540 respectively between WY 86 - 95.	Did not meet listing criteria	OK	

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Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bay; Marker No. 19 to 1 mile upstream of Reedsport	13A*WINC6	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (6 Sites: Mile 6.3 - 12.5): 5 of 6 Sites = 0% (0 of 23 - 25), Site 412510 = 4% (1 of 24) Summer values exceeded fecal coliform standard (400) with a maximum value of 920 between WY 1986 - 1995.	Did not meet listing criteria	OK	
Wolf Creek Mouth to Headwaters	13C-WOLF0	Habitat Modification			NPS Assessment - segment 30: moderate, observation (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition
		Sedimentation			NPS Assessment - segment 30: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data; NPS Assessment - segment 30: moderate, data (DEQ, 1988), Little River Committee data (1994 to 97)	BLM Data (4 Sites): At mouth 7 day average of daily maximums for 1995 was 70.5°F; lower watershed in 1992/94/95/96/97 was 70.9/66.4/68.9/71.0/69.7°F; at Miner Creek in years 1992/94/95/96/97 was 67.1/66.4/68.9/69.6/66.3°F and upper site above Rader Creek in 1994/96 was 66.7/67.4°F all sites all years exceeded temperature criteria.		303(d) List	
Yellow Creek Mouth to Headwaters	13C-YELLO0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM Data	1996 data shows exceedence of temperature criteria, 7 day ave. max. 68.4°F		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Umpqua</i>	Sub	<i>Umpqua</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Yoncalla Creek Mouth to Headwaters	13C-YONCO	Habitat Modification			NPS Assessment - segment 30: moderate, observation (DEQ, 1988); Oregon Stream Survey Data Base, USFS and BLM, 1997	Streams contribute to the habitat of fish species protected by the Oregon Plan and the Stream Survey indicates that a majority of the 2-5 order streams in the watershed do not met either the Large Woody Debris Frequency (for 50%of the stream length 4 or more functional key pieces per 100 meters of stream) and/or Pool Frequency (60% of stream length there will be no more than 5-8 channel widths between pools) CSRI measures for habitat needs.		303(d) List	Addition

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Basin	Walla Walla	Sub	Walla Walla						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Birch Creek Mouth to Headwaters	28A-BIRC0	Flow Modification			Walla Walla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Habitat Modification			Walla Walla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Sedimentation			Walla Walla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Temperature			Walla Walla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
Couse Creek Mouth to Headwaters	28A-COUS0	Flow Modification			Walla Walla River Salmon & Steelhead Plan (1990); ODFW (1995); NPS Assessment - segment 254: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Walla Walla River Salmon & Steelhead Plan (1990); ODFW (1995); NPS Assessment - segment 254: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			Walla Walla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 254: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 254: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dry Creek Mouth to Headwaters	28A-DRY0	Dissolved Oxygen (DO)			NPS Assessment - segment 537: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			Walla Walla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 537: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Walla Walla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	

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Basin	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Walla Walla	28A-DRY0	Sedimentation			Walla Walla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 537: moderate, observation (DEQ, 1988), Walla Walla Salmon Plan(90)		No supporting data or information	Need Data	
Little Walla Walla River	28A-WALI0	Bacteria			NPS Assessment - segment 253: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Pesticides		NPS Assessment - segment 253: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mill Creek	28A-MILLO	Flow Modification			Walla Walla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
		Habitat Modification			Walla Walla River Salmon & Steelhead Plan (1990)		No supporting data or information	Need Data	
WA Border up stream to Tiger Creek		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat, Washington State	USFS Data (Site at Water Intake): 7 day average of daily maximum of 60/56.2°F exceeded Bull Trout temperature standard (50) in 1992/93. Additionally, Washington state has listed Mill creek for temperature.		303(d) List	Segment Modification
Tiger Creek up stream to WA Border	28A-MILL22	Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USFS Data - Bull Trout Habitat	USFS Data (Site at Water Intake): 7 day average of daily maximum of 60/56.2°F exceeded Bull Trout temperature standard (50) in 1992/93. However, the entire upper watershed has been in a protected status since 1916 as a municipal supply watershed for the City of Walla Walla, Washington. The only permitted activity is a controlled hunt. Reference USFS	Natural Conditions - Upper watershed is managed as a municiple watershed with no anthropogenic activity allowed.	OK	Removed (4)
Pine Creek	28A-PINE0	Flow Modification			NPS Assessment - segment 255, 256: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin	Waterbody	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
<i>Walla Walla</i>									
Name & Description	Waterbody Segment								
Mouth to Headwaters	28A-PINE0	Sedimentation			NPS Assessment - segment 255, 256: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Vansycle Canyon									
Mouth to Headwaters	28A-VANS0	Dissolved Oxygen (DO)			NPS Assessment - segment 532: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 532: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 532: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Walla Walla River									
Mouth to North/South Fork Confluence	28A-WALL0	Bacteria			NPS Assessment - segment 251: moderate, observation (DEQ, 1988); WA DOE 303(d) list		No supporting data or information	Need Data	
		Flow Modification			Walla Walla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 251: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			Walla Walla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 251: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			WA DOE 303(d) list		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	CTUIR Data; WA DOE 303(d) list	CTUIR Data (Site at RM 47.0): 7 day average of daily maximum of 67.3 and 70.3 with 29 and 69 days exceeded temperature standard (64) in 1993 and 1994 respectively.		303(d) List	
		Toxics	Heptachlor		WA DOE 303(d) list		No supporting data or information	Need Data	

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Basin <i>Walla Walla</i>		Sub <i>Walla Walla</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Walla Walla River, North Fork									
Mouth to Headwaters	28A-WANF0	Bacteria			NPS Assessment - segment 251: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			Walla Walla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 251: moderate, observation (DEQ, 1988)	Steelhead have been reduced to a small fraction of their former abundance in part due to irrigation diversions (CTUIR, 1990); IWR (70565) is often not met at USGS gage (14010800).			303(d) List
		Sedimentation			Walla Walla River Salmon & Steelhead Plan (1990); NPS Assessment - segment 251: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	CTUIR Data - Bull Trout Habitat; USFS data	CTUIR Data (Site at RM 6.0): 7 day average of daily maximum of 68.5 in 1993. Site at FS Boundary for 1995/96 was 64/63°F. Both sites exceeded Bull Trout temperature standard (50)			303(d) List
Walla Walla River, South Fork									
Mouth to Headwaters	28A-WASF0	Flow Modification			NPS Assessment - segment 252: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 441: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	CTUIR Data (1994) and USFS data	CTUIR Data (Site at RM 7.0): 7 day average of daily maximum of 61.3 in 1994. USFS Boundary in 1995/96 was 54/54°F. Both sites exceeding Bull Trout temperature standard (50).			303(d) List

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Basin <i>Willamette</i>		Sub <i>Clackamas</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Alice Creek Mouth to Headwaters	22N-ALIC0	Habitat Modification			NPS Assessment - segment 498: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Austin Creek Mouth to Headwaters	22N-AUST0	Sedimentation			NPS Assessment - segment 482: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Blitzen Creek Mouth to Headwaters	22N-BLIT0	Sedimentation			NPS Assessment - segment 491: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Buckeye Creek Mouth to Headwaters	22N-BUCK0	Sedimentation			NPS Assessment - segment 488: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Bull Creek Mouth to Headwaters	22N-BULL0	Bacteria			NPS Assessment - segment 481: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 481: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Calico Creek Mouth to Headwaters	22N-CALI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data (Site at mouth): 5 day average of daily maximum of 57.9°F in 1997 temperature study in Draft Fish Creek Flood Assessment. No exceedence of temperature standard (64°F).	Did not meet listing criteria	OK	Addition
Cap Creek Mouth to Headwaters	22N-CAPO	Sedimentation			NPS Assessment - segment 483: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Clackamas</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Clackamas River Mouth to River Mill Dam	22N-CLAC0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402913; RM 1.2): 3% (1 of 36) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402913; RM 1.2): 6% (3 of 51) FWS values exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402913; RM 1.2): 0% (0 of 47) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	March 1 - August 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402913; RM 1.2): 3% (2 of 66) March - August values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 7.2 mg/l (79% sat) between WY 1986 - 1995 (Cold water fishery, rearing approximately March - August).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - February 28	DEQ Data	DEQ Data (Site 402913; RM 1.2): 3% (1 of 15) September through February values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 8.4 mg/l (89% sat) between WY 1986 - 1995 (Cold water fishery, spawning approx. Sept - Feb).	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402913; RM 1.2): 2% (1 of 51) FWS values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402913; RM 1.2): 4% (2 of 51) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 49: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Clackamas</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to River Mill Dam	22N-CLAC0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994)	DEQ Data (Site 402913; RM 1.2): 76% (39 of 51) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 75.2 in WY 1986 - 1995; 7 day average of daily maximum of 70.4 exceeded standard (64) in 1995.		303(d) List	
		Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	PCB was found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Arsenic, Chromium, Copper, Manganese and Nickel were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Clackamas</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to River Mill Dam	22N-CLAC0	Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Bis(2Ethylhexyl)phthalate, Fluoranthene, and Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem.</p> <p>Butylbenzylphthalate, Di-n-butylphthalate, and Diethylphthalate were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations.</p> <p>No other PAHs, Semi or Volatile Organics were detected.</p>	Did not meet listing criteria	OK	Addition
Collawash River to Headwaters	22N-CLAC56.7	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (4 Sites: FSR 4650, FSR 4690, At mouth of Collawash, At mouth of Cub Cr): 7 day average of daily maximums of <64 with 0 days exceeding temperature standard (64) in 1993 and 1994 at first two sites and in 1994 at last two sites.	Did not meet listing criteria	OK	
Clackamas River, North Fork									
Mouth to Headwaters	22N-CLNF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (3 sites: Lower, Middle, and Upper): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1993 at all three sites.	Did not meet listing criteria	OK	
Clackamas River, Oak Grove Fork									
Mouth to Timothy Lake	22N-CLOF0	Flow Modification			NPS Assessment - segment 11: severe, data(DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 11: severe, data(DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: At RM 0.5 and RM 4): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1993 at both sites.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Clackamas</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Clackamas River, South Fork									
Mouth to Headwaters	22N-CLSF0	Habitat Modification			NPS Assessment - segment 51: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 51: moderate, observation (DEQ, 1988)	USFS Data (Site above E Fork Clackamas): 7 day average of daily maximums of less than 64 with 10 and 0 days exceeding temperature standard (64) in 1991 and 1992 respectively.	Did not meet listing criteria	OK	
Clear Creek									
Mouth to Headwaters	22N-CLEA0	Dissolved Oxygen (DO)			NPS Assessment - segment 52: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Collawash River									
Mouth to Headwaters	22N-COLL0	Habitat Modification			NPS Assessment - segment 12: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 12, 13 and 14: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: RM 1.0 and Above FSR 63): 7 day average of daily maximums of <64 with 0 days exceeding temperature standard (64) in 1993 at both sites.	Did not meet listing criteria	OK	
Collawash River, Hot Springs Fork									
Mouth to Headwaters	22N-COHF0	Habitat Modification			NPS Assessment - segment 424: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: At mouth and RNA boundary): 7 day average of daily maximums of less than 64 with nd/16/0 and 0/0/nd days respectively exceeding temperature standard (64) in 1991/1992/1993.	Did not meet listing criteria	OK	
Cooper Creek									
Mouth to Headwaters	22N-COOP0	Habitat Modification			NPS Assessment - segment 417: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Clackamas</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22N-COOP0	Sedimentation			NPS Assessment - segment 417: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 417: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Crater Creek									
Mouth to Headwaters	22N-CRAT0	Sedimentation			NPS Assessment - segment 418: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cub Creek									
Mouth to Headwaters	22N-CUB0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Deep Creek, North Fork									
Mouth to Headwaters	22N-DENF0	Sedimentation			NPS Assessment - segment 10: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 10: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dickey Creek									
Mouth to Headwaters	22N-DICK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Dinger Creek									
Mouth to Headwaters	22N-DING0	Sedimentation			NPS Assessment - segment 416: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Clackamas</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Eagle Creek Mouth to Wilderness Boundary		22N-EAGL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Eagle Creek Watershed Analysis (USFS, 1995)	USFS Data (Site below Trail 501): 7 day average of daily maximums of 63.5°F in 1990; 67.1°F in 1991; and 65.6°F in 1992. 1991 and 1992 exceeded temperature criteria, but were drought years, 1990 did not exceed water temperature criteria. Status is Potential Concern because only non drought year is close to temperature criteria.	Did not meet listing criteria	Potential Concern	Removed (5)
Wilderness Boundary to Headwaters		22N-EAGL20	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Eagle Creek Watershed Analysis (USFS, 1995)	USFS Data (Site at Wilderness boundary): 7 day average of daily maximums of 60.6°F in 1991 and 62.1°F in 1992 did not exceed temperature criteria.	Did not meet listing criteria	OK	
Eagle Creek, North Fork Mouth to Headwaters		22N-EANF0	Habitat Modification			NPS Assessment - segment 415: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
			Temperature			NPS Assessment - segment 415: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Eagle Creek, South Fork Mouth to Headwaters		22N-EASF0	Temperature	Rearing 64 F (17.8 C)	Summer	Eagle Creek Watershed Analysis (USFS,1995)	USFS Data (2 Sites: At Forest Service boundary and At mouth): 7 day average of daily maximums of less than 64 with 0/0 and 0/2 days exceeding temperature standard (64) in 1989/1990	Did not meet listing criteria	OK	
Elk Lake Creek Mouth to Headwaters		22N-ELKL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (2 Sites: At mouth and Upper site): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) at both sites in 1993.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Clackamas</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Fall Creek Mouth to Headwaters	22N-FALL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data (Site at mouth): 5 day average of daily maximum of 61.0°F in 1997 temperature study in Draft Fish Creek Flood Assessment. No exceedence of temperature standard (64°F).	Did not meet listing criteria	OK	Addition
Fish Creek Mouth to Headwaters	22N-FISH0	Habitat Modification			Fish Creek Watershed Analysis (USFS, 1994); NPS Assessment - segment 501: moderate, observation (DEQ, 1988)	Two salmonid populations, late run winter coho and native winter steelhead, are in decline. Large Woody Debris and pool habitat are below desired conditions (Fish Creek Watershed Analysis, USFS, 1994)		303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, Fish Creek Watershed Assessment (USFS); USFS data	USFS Data (Site at mouth): 7 day average of daily maximums of greater than 64 with 16 and 5 days exceeding temperature standard (64) in 1992 and 1993 respectively. USFS 1997 temperature study in Draft Fish Creek Flood Assessment. 5 sites: 5 day ave. max. temperature were 53.8/61.5/58.6/55.6/57.4°F no exceedences of temperature standard (64°F). The Fish Creek Flood Assessment study had much more temperature extensive data and with one of the previous data being collected in a drought year, DEQ used its Professional Judgment and gave more weight to the study as better reflecting the actual conditions in the watershed.	Did not meet listing criteria	OK	Removed (5)
Flannel Creek Mouth to Headwaters	22N-FLAN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data (Site at mouth): 5 day average of daily maximum of 55.6°F in 1997 temperature study in Draft Fish Creek Flood Assessment. No exceedence of temperature standard (64°F).	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Clackamas</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Foster Creek Mouth to Headwaters	22N-FOST0	Nutrients			NPS Assessment - segment 502: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 502: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Gyp Creek Mouth to Headwaters	22N-GYP0	Sedimentation			NPS Assessment - segment 495: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Happy Creek Mouth to Headwaters	22N-HAPP0	Sedimentation			NPS Assessment - segment 489: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Hugh Creek Mouth to Headwaters	22N-HUGH0	Habitat Modification			NPS Assessment - segment 497: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Jazz Creek Mouth to Headwaters	22N-JAZZ0	Sedimentation			NPS Assessment - segment 490: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
John Creek Mouth to Headwaters	22N-JOHN0	Sedimentation			NPS Assessment - segment 496: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Kiuk Creek Mouth to Headwaters	22N-KIUK0	Habitat Modification			NPS Assessment - segment 478: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 478: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Nohorn Creek Mouth to Headwaters	22N-NOH00	Habitat Modification			NPS Assessment - segment 428: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Clackamas</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Ogre Creek Mouth to Headwaters	22N-OGRE0	Sedimentation			NPS Assessment - segment 493: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pan Creek Mouth to Headwaters	22N-PAN0	Dissolved Oxygen (DO)			NPS Assessment - segment 423: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 423: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Pansy Creek Mouth to Headwaters	22N-PANS0	Habitat Modification			NPS Assessment - segment 426: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1991 and 1992.	Did not meet listing criteria	OK	
Paste Creek Mouth to Headwaters	22N-PAST0	Sedimentation			NPS Assessment - segment 486: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Peat Creek Mouth to Headwaters	22N-PEAT0	Sedimentation			NPS Assessment - segment 487: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Pick Creek Mouth to Headwaters	22N-PICK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data (Site at mouth): 5 day average of daily maximum of 63.0°F in 1997 temperature study in Draft Fish Creek Flood Assessment. No exceedence of temperature standard (64°F).	Did not meet listing criteria	OK	Addition
Pinhead Creek Mouth to Headwaters	22N-PINH0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1993 and 1994.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Clackamas</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Rhododendron Creek Mouth to Headwaters	22N-RHOD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 4671): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1994.	Did not meet listing criteria	OK	
Richardson Creek Mouth to Headwaters	22N-RICH0	Nutrients			NPS Assessment - segment 503: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation							
Roaring River Mouth to Headwaters	22N-ROAR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1992 and 1993.	Did not meet listing criteria	OK	
Round Creek Mouth to Headwaters	22N-ROUN0	Flow Modification			NPS Assessment - segment 494: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Russ Creek Mouth to Headwaters	22N-RUSS0	Sedimentation			NPS Assessment - segment 492: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Shellrock Creek Mouth to Headwaters	22N-SHEL0	Sedimentation			NPS Assessment - segment 421: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Slide Creek Mouth to Headwaters	22N-SLID0	Sedimentation			NPS Assessment - segment 485: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sluice Creek Mouth to Headwaters	22N-SLUI0	Sedimentation			NPS Assessment - segment 484: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Clackamas</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Squirrel Creek Mouth to Headwaters	22N-SQUI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above FSR 4690): 7 day average of daily maximums of less than 64 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Station Creek Mouth to Headwaters	22N-STAT0	Bacteria			NPS Assessment - segment 480: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Switch Creek Mouth to Headwaters	22N-SWIT0	Sedimentation			NPS Assessment - segment 422: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Timothy Lake Reservoir	22N.TIMO	Bacteria			NPS Assessment - segment 419: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 419: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 419: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Wanderer's Creek Mouth to Headwaters	22N-WAND0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data (Site at mouth): 5 day average of daily maximum of 57.6°F in 1997 temperature study in Draft Fish Creek Flood Assessment. No exceedence of temperature standard (64°F).	Did not meet listing criteria	OK	Addition
Wash Creek Mouth to Headwaters	22N-WASH0	Habitat Modification			NPS Assessment - segment 500: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Clackamas</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22N-WASH0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data (3 Sites): at mouth 5 day average of daily maximum of 61.9°F and two up stream sites 57.9/55.2°F in 1997 temperature study in Draft Fish Creek Flood Assessment. No exceedence of temperature standard (64°F).	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Coast Fork Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Big River									
Mouth to Box Canyon Creek	22C-BIG0	Sedimentation			NPS Assessment - segment 166: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 166: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Brice Creek									
Mouth to Parker Creek	22C-BRIC0	Habitat Modification			NPS Assessment - segment 175: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 175: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Adams Creek): 7 day average of daily maximums of 67.7/69.8/65.3/68.6 with 14/13/7/14 days exceeding temperature standard (64) in 1991/92/93/94 respectively.		303(d) List	
Camas Swale									
Mouth to Headwaters	22C-CAMA0	Sedimentation			NPS Assessment - segment 176: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 176: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cottage Grove Lake									
Lake	22C.COGR	Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub		<i>Coast Fork Willamette</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lake	22C.COGR	Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
Cottage Grove Reservoir Reservoir	22C.COTT	Sedimentation			NPS Assessment - segment 168: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Tissue and Water - Mercury		DEQ, OSU Data; OSHD Advisory; 304(l) list, Part A/B; NPS Assessment - segment 168: moderate, data (DEQ, 1988)	OSHD Fish Consumption Advisory based on 10% of fish tested exceeding USFDA commercial fish standard of methylmercury (1.0 ppm) and a range of 0.22 to 1.79 ppm.		303(d) List	
Dorena Reservoir Reservoir	22C.DORE	Sedimentation			NPS Assessment - segment 172: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Tissue - Mercury		DEQ, OSU Data; 304(l) list, Part B; Health Division Health Advisory (1997)	Elevated levels measured in fish tissue .37 ppm, Consumption Health Advisory issued 2/25/97.		303(d) List	Addition
Layng Creek Mouth to Saltpeter Creek	22C-LAYN0	Sedimentation			NPS Assessment - segment 174: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site above Prather Creek): 7 day average of daily maximums of 66.0/67.0/64.3/67.9 with 14/10/4/14 days exceeding temperature standard (64) in 1991/92/93/94 respectively.		303(d) List	
Little River Mouth to Headwaters	22C-LITT0	Sedimentation			NPS Assessment - segment 167: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 167: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Coast Fork Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Martin Creek (Row River drainage)									
Mouth to Headwaters	22C-MARR0	Sedimentation			NPS Assessment - segment 471: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Martin Creek (Sharps Creek)									
Mouth to Headwaters	22C-MART0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS 1997 data shows exceedence of temperature criteria, 7 day ave. max. 64.7°F at mouth.		303(d) List	Addition
Mosby Creek									
Mouth to Forks	22C-MOSB0	Habitat Modification			NPS Assessment - segment 169: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 169: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 169: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Puddin Rock Creek									
Mouth to Headwaters	22C-PUDD0	Sedimentation			NPS Assessment - segment 472: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Row River									
Mouth to Dorena Reservoir	22C-ROW0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (2 Sites: 402052, 402053; RM 0.7, 2.8): 13% (1 of 8), 0% (0 of 10) Summer values respectively exceeded fecal coliform standard (400) with a maximum value of 460 between 1987 - 1990.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402053; RM 2.8): 0% (0 of 10) FWS values respectively exceeded fecal coliform standard (400) between 1988 - 1991.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (2 Sites: 402052, 402053; RM 0.7, 2.8): 0% (0 of 7, 27) Summer values respectively exceeded chlorophyll a standard (15 ug/l) between 1987 - 1990.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Coast Fork Willamette</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Dorena Reservoir	22C-ROW0	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - July 31	DEQ Data	DEQ Data (Site 402053; RM 8.0): 0% (0 of 18) September through June values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 86 - 95 (Cold water fishery, spawning approximately September - June).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	July 1 - August 31	DEQ Data	DEQ Data (Site 402053; RM 2.8): 0% (0 of 23) July through August values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately July through August).	Did not meet listing criteria	OK		
		Flow Modification				NPS Assessment - segment 170: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Summer	DEQ Data	DEQ Data (2 Sites: 402052, 402053; RM 0.7, 2.8): 0% (0 of 22, 28) Summer values respectively exceeded pH standard (6.5 - 8.5) between 1987 - 1990.	Did not meet listing criteria	OK	
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402053; RM 2.8): 0% (0 of 9) FWS values exceeded pH standard (6.5 - 8.5) between 1988 - 1991.	Did not meet listing criteria	OK	
		Sedimentation					NPS Assessment - segment 170: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature		Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 170: moderate, observation (DEQ, 1988)	DEQ Data (Site 402053; RM 2.8): 42% (11 of 26) Summer values exceeded temperature standard (64) with exceedences each year in 1987 - 1988 and a maximum of 72.5.		303(d) List	
Dorena Reservoir to Headwaters	22C-ROW12	Sedimentation				NPS Assessment - segment 172: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature				NPS Assessment - segment 172: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		

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Basin <i>Willamette</i>		Sub <i>Coast Fork Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Sharps Creek									
Mouth to Fairview Creek	22C-SHAR0	Habitat Modification			NPS Assessment - segment 173: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 173: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Martin Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS 1997 data shows exceedence of temperature criteria, 7 day ave. max. 72.5°F at mouth.		303(d) List	Addition
Martin Creek to headwaters	22C-SHAR11	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS 1997 data shows stream did not exceed temperature criteria, 7 day ave. max. 62.7°F above Martin Creek.	Did not meet listing criteria	OK	Addition
Willamette River, Coast Fork									
Mouth to Cottage Grove Reservoir	22C-WICF0	Aquatic Weeds or Algae	Periphyton	Summer	DEQ Data	Coast Fork Water Quality Report, Baumgartner (1994).	TMDL has been established for phosphorus, approved (5/17/95) and is being implemented	TMDL Approved (5/17/95)	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 164: moderate, data (DEQ, 1988)	DEQ Data (7 Sites: RM 3.0 - 23.9): 2 of 7 Sites = 3, 14% (1 of 37,7); 5 of 7 Sites = 12 - 63% (2 of 17, 8, 8; 5 of 8; 9 of 18) Summer values exceeded fecal coliform standard (400) with maximum values of 460, 1100 between 1987 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 164: moderate, data (DEQ, 1988)	DEQ Data (3 Sites: 402955, 402048, 402051; RM 3.0, 12.8, 23.9): 13% (6 of 45); 27% (3 of 11); 45% (5 of 11) FWS values respectively exceeded fecal coliform standard (400) with maximum values of 2400, 460, 1100 between WY 1986 - 1995.		303(d) List	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 164: severe, data (DEQ, 1988)	DEQ Data (Site 402955; RM 3.0): 12% (15 of 121) Annual values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 6.7 mg/l (75% sat) between WY 1986 - 1995 (Cold water fishery, annual rearing).	TMDL has been established for ammonia and phosphorus, approved (5/17/95) and is being implemented	TMDL Approved (5/17/95)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Coast Fork Willamette</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Cottage Grove Reservoir	22C-WICF0	Flow Modification			NPS Assessment - segment 164: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients	Phosphorus	Summer	DEQ Data	Coast Fork Water Quality Report, Baumgartner (1994).	TMDL has been established for phosphorus, approved (5/17/95) and is being implemented	TMDL Approved (5/17/95)		
		pH		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 164: severe, data (DEQ, 1988)	DEQ Data (7 Sites; RM 3.0 - 23.9): 5 of 7 Sites = 0% (0 - 23, 24, 24, 24, 54); 402955 = 22% (16 of 73); 402048 = 13% (5 of 40) Summer values exceeded pH maximum standard (6.5 - 8.5) with values of 9.4, 8.9 respectively between 1987 - 1995.	TMDL has been established for phosphorus, approved (5/17/95) and is being implemented	TMDL Approved (5/17/95)		
		pH		Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 164: severe, data (DEQ, 1988)	DEQ Data (3 Sites: 402955, 402048, 402051; RM 3.0, 12.8, 23.9): 0% (0 of 44, 10, 10) FWS values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Sedimentation			NPS Assessment - segment 164: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994)	DEQ Data (4 Sites: 402955, 402047, 402048, 402049; RM 3.0 - 20.0): 78% (56 of 72); 81% (17 of 21 in 89); 73% (29 of 40), 41% (9 of 22 in 89) Summer values respectively exceeded standard (64) with exceedences each year and a maximum of 84.5 in 1986 - 1995.		303(d) List		
		Toxics	Tissue - Mercury	Year Around	Health Division Consumption Health Advisory (1997)	Health Division Consumption Health Advisory issued for Mercury in fish tissue (.63 ppm) based on data collected since 1969; Reference level (.35 ppm)			303(d) List	Addition
		Toxics	Water (Ammonia)		DEQ Data	Coast Fork Water Quality Report, Baumgartner (1994).	TMDL has been established for ammonia, approved (5/17/95) and is being implemented	TMDL Approved (5/17/95)		

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Basin <i>Willamette</i>		Sub		<i>Coast Fork Willamette</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Cottage Grove Reservoir	22C-WICF0	Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS	Atrazine and Cycloate were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS	Copper was found in water, but levels were below the water quality standards Table 20 values. No other trace metals were found.	Did not meet listing criteria	OK	Addition
Cottage Grove Reservoir to Headwaters	22C-WICF32.5	Sedimentation			NPS Assessment - segment 165: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 165: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
	22C-WICF32.50	Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS	Copper was found in water, but levels were below the water quality standards Table 20 values. No other trace metals were found.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS	No pesticides detected.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Balch Creek Mouth to Headwaters	22P-BALC0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Fall-Winter-Spring	City of Portland	Samples between October 1996 and June 1997 showed no exceedence of DO cold-water standard. Low value 9.2 mg/l.	Did not meet listing criteria	OK	Addition
		Flow Modification			NPS Assessment - segment 504: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	City of Portland	Samples between October 1996 and June 1997 showed one exceedence of pH standard (6.5 to 8.5). Low value 6.0 all other measurements within	Did not meet listing criteria	OK	Addition
		Sedimentation			NPS Assessment - segment 504: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
Blue Lake Lake	22P.BLUE	Aquatic Weeds or Algae	Algae, Aquatic Weeds		Beak (1983); McHugh (1979); NPS Assessment - segment 463: moderate, data (DEQ, 1988)	Clean Lake Study - Beak Consultants (1983): 9 of 21 values along with a three month average exceed chlorophyll a criteria (15 ug/l) between 1981-82; Eurasian water-milfoil is a dominant plant species and the lake is treated annual with herbicides.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Multnomah County		Multnomah County Data.	Did not meet listing criteria	OK
		Dissolved Oxygen (DO)			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 463: severe, data (DEQ, 1988)	No supporting data or information	Need Data		
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 463: severe, data (DEQ, 1988)	No supporting data or information	Need Data		
		pH		Summer	Beak (1983)	Clean Lake Study - Beak Consultants (1983): pH values ranged from 8.0 to 8.8 (pH standard of 6.5 to 8.5) during summer 1982, associated with an increase in phytoplankton productivity.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Bybee Lake Lake	22P.BYBE	Aquatic Weeds or Algae	Algae, Aquatic Weeds		USGS (1983); Fishman (1987); Metro - Phase 1; NPS Assessment - segment 465: moderate, data (DEQ, 1988)	Metro (1994): Alterations to the hydrology has contributed to drastic changes in local biota that affect beneficial uses such as wildlife and boating; Clean Lake Study underway.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	Fishman (1987), Metro - Phase 1; NPS Assessment - segment 465: moderate, data (DEQ, 1988)	Fishman (1987), Metro - Phase 1	Did not meet listing criteria	OK	
		Biological Criteria	Macrophytes		Metro (1994)	Metro (1994): Alterations to the hydrology has contributed to drastic changes in local biota that affect beneficial uses such as wildlife and boating; Clean Lake Study underway.		303(d) List	
		Dissolved Oxygen (DO)			NPS Assessment - segment 465: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			Metro (1994)	Metro (1994): Alterations to the hydrology has contributed to drastic changes in local biota that affect beneficial uses such as wildlife and boating; Clean Lake Study underway.		303(d) List	
		Habitat Modification			Metro (1994)	Metro (1994): Alterations to the hydrology has contributed to drastic changes in local biota that affect beneficial uses such as wildlife and boating; Clean Lake Study underway.		303(d) List	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 465: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH Toxics			Summer	USGS (1983); Metro - Phase 1 NPS Assessment - segment 465: moderate, data (DEQ, 1988)	USGS (1983), Metro - Phase 1	No supporting data or information	303(d) List Need Data

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Columbia Slough Mouth to Fairview Lake	22P-COLS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); City of Portland (1995); NPS Assessment - segment 451: severe, data (DEQ, 1988)	Water Body Assessment - Columbia Slough TMDL Development (City of Portland, 1995).		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); City of Portland (1995); NPS Assessment - segment 451: severe, data (DEQ, 1988)	Water Body Assessment - Columbia Slough TMDL Development (City of Portland, 1995).		303(d) List	
		Chlorophyll a		Spring - Summer - Fall	DEQ Data; d1 in 305(b) Report (DEQ, 1994); City of Portland (1995); NPS Assessment - segment 451: severe, data (DEQ, 1988)	Water Body Assessment - Columbia Slough TMDL Development (City of Portland, 1995).		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	City of Portland (1995)	Water Body Assessment - Columbia Slough TMDL Development (City of Portland, 1995) (Cool water fishery - annual).		303(d) List	
		Flow Modification			NPS Assessment - segment 451: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	Spring -Summer - Fall	DEQ Draft TMDL (1990); NPS Assessment - segment 451: severe, data (DEQ, 1988)	Water Body Assessment - Columbia Slough TMDL Development (City of Portland, 1995).		303(d) List	
		pH		Spring - Summer - Fall	DEQ Data; d1 in 305(b) Report (DEQ, 1994); City of Portland (1995); NPS Assessment - segment 451: severe, data (DEQ, 1988)	Water Body Assessment - Columbia Slough TMDL Development (City of Portland, 1995).		303(d) List	
		pH		Winter	DEQ Data, City of Portland (1995); NPS Assessment - segment 451: severe, data (DEQ, 1988)	Water Body Assessment - Columbia Slough TMDL Development (City of Portland, 1995)	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 451: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Spring - Summer - Fall	DEQ Data (Temperature Issue Paper, 1994); Portland (1995)	Water Body Assessment - Columbia Slough TMDL Development (City of Portland, 1995).		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Fairview Lake	22P-COLS0	Toxics	Fish Tissue (2-methylnapthalene)		Columbia Slough TMDL Study	2-methylnapthalene was found in fish tissue. There are no standards for fish tissue concentrations. Concentration values exceed various guidance levels used to determine whether compounds are elevated. No data on beneficial use impairment (e.g. bioassays, health advisories or other studies) are available for the local area that indicate there's a beneficial use impairment. Further studies would be needed to determine toxicity.	Did not meet listing criteria	Potential Concern	
		Toxics	Fish Tissue - 2,3,7,8 TCDD		DEQ Data; 1994 304(l) list, Part B	TMDL Study: Dioxin detected more than twice in fish tissue and mean concentrations exceeded screening values.		303(d) List	
		Toxics	Water Column (Lead)		City of Portland Data, 1994 304(l) list, Part A; NPS Assessment - segment 451: moderate, data (DEQ, 1988)	TMDL Study: More than 10% of water column samples exceed Table 20 criteria.		303(d) List	
		Toxics	Fish Tissue (PCBs)		DEQ Data; OSHD Advisory; 1994 304(l) list, Part A	OSHD Fish Consumption Advisory.		303(d) List	
		Toxics	Pesticides		NPS Assessment - segment 451: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Fish Tissue (isophorone)		Columbia Slough TMDL Study	Isophorone was found in fish tissue. There are no standards for fish tissue concentrations. Concentration values exceed various guidance levels used to determine whether compounds are elevated. No data on beneficial use impairment (e.g. bioassays, health advisories or other studies) are available for the local area that indicate there's a beneficial use impairment. Further studies would be needed to determine toxicity.	Did not meet listing criteria	Potential Concern	

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Fairview Lake	22P-COLS0	Toxics	Fish Tissue (heptachlor)		Columbia Slough TMDL Study	Heptachlor was found in fish tissue. There are no standards for fish tissue concentrations. Concentration values exceed various guidance levels used to determine whether compounds are elevated. No data on beneficial use impairment (e.g. bioassays, health advisories or other studies) are available for the local area that indicate there's a beneficial use impairment. Further studies would be needed to determine toxicity.	Did not meet listing criteria	Potential Concern	
		Toxics	Fish Tissue (alpha and gamma chlordane)		Columbia Slough TMDL Study	Alpha and gamma chlordane was found in fish tissue. There are no standards for fish tissue concentrations. Concentration values exceed various guidance levels used to determine whether compounds are elevated. No data on beneficial use impairment (e.g. bioassays, health advisories or other studies) are available for the local area that indicate there's a beneficial use impairment. Further studies would be needed to determine toxicity.	Did not meet listing criteria	Potential Concern	
		Toxics	Fish Tissue (pyrene)		Columbia Slough TMDL Study	Pyrene was found in fish tissue. There are no standards for fish tissue concentrations. Concentration values exceed various guidance levels used to determine whether compounds are elevated. No data on beneficial use impairment (e.g. bioassays, health advisories or other studies) are available for the local area that indicate there's a beneficial use impairment. Further studies would be needed to determine toxicity.	Did not meet listing criteria	Potential Concern	

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Fairview Lake	22P-COLS0	Toxics	Fish Tissue (acenaphthene)		Columbia Slough TMDL Study	Acenaphthene was found in fish tissue. There are no standards for fish tissue concentrations. Concentration values exceed various guidance levels used to determine whether compounds are elevated. No data on beneficial use impairment (e.g. bioassays, health advisories or other studies) are available for the local area that indicate there's a beneficial use impairment. Further studies would be needed to determine toxicity.	Did not meet listing criteria	Potential Concern	
		Toxics	Fish Tissue (DDE, DDT)		DEQ Data; OSHD Advisory; 1994 304(l) list, Part A	OSHD Fish Consumption Advisory.		303(d) List	
		Toxics	Sediment - Trace Metals (Cadmium, Chromium, Lead)		Columbia Slough TMDL Study	Cadmium, Chromium, Lead were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	
		Toxics	Fish Tissue (phenanthrene)		Columbia Slough TMDL Study	Phenanthrene was found in fish tissue. There are no standards for fish tissue concentrations. Concentration values exceed various guidance levels used to determine whether compounds are elevated. No data on beneficial use impairment (e.g. bioassays, health advisories or other studies) are available for the local area that indicate there's a beneficial use impairment. Further studies would be needed to determine toxicity.	Did not meet listing criteria	Potential Concern	

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Cox Creek Mouth to Headwaters	22P-COX0	Sedimentation			NPS Assessment - segment 555: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Crystal Springs Mouth to Headwaters	22P-CRYS0	Nutrients			NPS Assessment - segment 507: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 507: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dairy Creek Mouth to Headwaters	22P-DAIRO	Habitat Modification			NPS Assessment - segment 440: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 440: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Dart Creek Mouth to headwaters	22P-DART0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994 and 1995	Stream was sampled in 1994 and 1995. Discriminant Score was 53 in 1994 and 79 in 1995. Streams are considered impaired with Discriminant Scores <61 and healthy with Discriminant Scores>75 points. The variability of the scores are a potential concern.	Did not meet listing criteria	Potential Concern	Addition
Fairview Creek Mouth to Headwaters	22P-FAIRO	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Year Around	Metro data (1994); NPS Assessment - segment 8: moderate, observation (DEQ, 1988); City of Gresham Fairview Creek TMDL monitoring data 1996	Metro (1994) 3 Sites: 0% (0 of 4); 0% (0 of 4); 0% (0 of 4) Summer values exceeded fecal coliform standard (400) with a maximum of 400 in 1993. 5 TMDL monitoring sites exceeds bacteria e. coli standard of (406) year around. Site 1 (5 of 13), site 2 (7 of 15), site 3 (2 of 15), site 4 (4 of 15) and site 5 (7 of 15), high value >1600.		303(d) List	Addition

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22P-FAIR0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Metro data (1994); NPS Assessment - segment 8: moderate, observation (DEQ, 1988); City of Gresham Fairview Creek TMDL monitoring data 1996	Metro (1994) 3 sites: 29% (2 of 7), 17% (1 of 6), 14% (1 of 7) FWS values exceeded fecal coliform standard (400) with a maximum of 840 in 1993. 5 TMDL monitoring sites exceeds bacteria e. coli standard of (406) year around. Site 1 (5 of 13), site 2 (7 of 15), site 3 (2 of 15), site 4 (4 of 15) and site 5 (7 of 15), high value >1600.		303(d) List	
		Nutrients	Phosphorus	Spring -Summer - Fall	Metro data (1994); NPS Assessment - segment 8: moderate, observation (DEQ, 1988)	Water Body Assessment - Columbia Slough TMDL Development (City of Portland, 1995); Loads to Water Quality Limited Segment for Phosphorus.		303(d) List	
		pH		Spring/Summer	City of Gresham Fairview Creek TMDL monitoring data 1996	5 TMDL monitoring sites exceed pH standard of (6.5 to 8.5) in spring/summer. Site 1, 90% (9 of 10), site 2, 30% (3 of 10), site 3, 20% (2 of 10), site 4, 20% (2 of 10) and site 5, 30% (3 of 10), Low value of 5.0.		303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	City of Gresham Fairview Creek TMDL monitoring data 1996	5 sites: show temperature exceedences in June, July and August of 1996. High value was 78.8°F. Did not meet "Minimum Data Requirements" data was not continuous monitoring data therefore needed multi-year monthly monitoring data or for a single year weekly monitoring data. Only one year of data, but data was taken ever two weeks not weekly.	Did not meet listing criteria	Potential Concern	Addition
Fairview Lake Lake	22P.FAIR	Nutrients	Phosphorus	Spring -Summer - Fall	Atlas of Oregon Lakes (PSU, 1985)	Water Body Assessment - Columbia Slough TMDL Development (City of Portland, 1995).		303(d) List	
		Turbidity			Atlas of Oregon Lakes (PSU, 1985); Citizen Lake Watch Program		No supporting data or information	Need Data	
Johnson Creek Mouth to Headwaters	22P-JOHN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	Johnson Creek RMP (Draft 5/1995); d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 3: moderate, data (DEQ, 1988)	DEQ Data (Site 404000; RM 0.2): 63% (5 of 8) Summer values exceeded fecal coliform standard (400) with a maximum value of 1600 between 1990 - 1995.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Headwaters	22P-JOHN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	Johnson Creek RMP (Draft 5/1995); d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 3: moderate, data (DEQ, 1988); City of Portland Data	DEQ Data (Site 404000; RM 0.2): 61% (11 of 18) FWS values exceeded fecal coliform standard (400) with a maximum value of 1600 between 1990 - 1995. City of Portland 1996/97 data shows continued exceedence of the fecal coliform bacteria standard. Additionally, City of Portland data shows exceedences of the E. Coli bacteria standard (406) as well between September 1996 to June 1997 at 10 sites. High value was est at 1800.		303(d) List		
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404000; RM 0.2): 0% (0 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between 1990 - 1995.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	March 1 - August 31	DEQ Data; City of Portland data	DEQ Data (Site 404000; RM 0.2): 0% (0 of 15) March through August values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately March - August).	Did not meet listing criteria	Potential Concern	Status Modification	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - February 28	DEQ Data; City of Portland data	DEQ Data (Site 404000; RM 0.2): 0% (0 of 13) September through February values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 86 - 95 (Cold water fishery, spawning approximately September through February). City of Portland data September 1996 to June 1997 at 8 sites DO fell below the 11 mg/l at more than two sites September through January.	Did not meet listing criteria	Potential Concern	Status Modification	
		Flow Modification				NPS Assessment - segment 3: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients				NPS Assessment - segment 3: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Headwaters	22P-JOHN0	pH		Summer	DEQ Data	DEQ Data (Site 404000; RM 0.2): 13% (1 of 8) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.6 between 1990 - 1995.	Did not meet listing criteria	OK		
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404000; RM 0.2): 0% (0 of 18) FWS values exceeded pH maximum standard (6.5 - 8.5) between 1990 - 1995.	Did not meet listing criteria	OK		
		Sedimentation				NPS Assessment - segment 3: severe, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer		Johnson Creek RMP (Draft 5/1995); NPS Assessment - segment 3: severe, observation (DEQ, 1988)	City of Portland (4 Sites): 7 day average of daily maximums exceeded temperature standard (64) at all four sites in 1992 (Woodward-Clyde, June 1994).		303(d) List	
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around		Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Water) (Dieldrin)	Year Around		Willamette River Basin Water Quality Study Phase I and II, USGS data	Dieldrin found above water quality standards (.0019 ug/l, Table 20) 6/6 times (100%); range was .007 ug/l to .021 ug/l.		303(d) List	Addition
		Toxics	Pesticides (Water) (p,p' DDT)	Year Around		Willamette River Basin Water Quality Study Phase I and II, USGS data	p,p' DDT above water quality standards (.001 ug/l, Table 20) 6/6 times (100%); range was .001 ug/l to .01 ug/l.		303(d) List	Addition
		Toxics	Total Dioxin and Furans (Sediment)	Year Around		Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22P-JOHN0	Toxics	Dioxin 2,3,7,8 TCDD (Fish Tissue)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was found in fish tissue. There are no standards for fish tissue concentrations. Concentration values exceed various guidance levels used to determine whether compounds are elevated. No data on beneficial use impairment (e.g. bioassays, health advisories or other studies) are available for the local area that indicate there's a beneficial use impairment. Further studies would be needed to determine if there was any toxicity.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Chromium, Copper, Lead, Manganese, Nickel, and Zinc were found in water, but levels were below the water quality standards Table 20 values. No other trace metals were found.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22P-JOHN0	Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Toxaphene was found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>p,p' DDD, p,p' DDE, p,p' DDT and Dieldrin were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.</p> <p>Cis-chlordane, Trans-chlordane and Trans-nonachlor was found, however, there are no well established guidelines available for evaluating risks for sediment, nor have there been any beneficial use impairment evaluations.</p> <p>No other pesticides were detected in the sediment.</p>	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22P-JOHN0	Toxics	Total Dioxin and Furans (Fish Tissue)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in fish tissue. There are no standards for fish tissue concentrations. Concentration values exceed various guidance levels used to determine whether compounds are elevated. No data on beneficial use impairment (e.g. bioassays, health advisories or other studies) are available for the local area that indicate there's a beneficial use impairment. Further studies would be needed to determine if there was any toxicity.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Carbaryl, Carbofuran, Chlorpyrifos, Desethylatrazine, Desisoproylatrazine, Diphenamid, Diazinon, Dichlobenil, p,p' DDD, p,p' DDE, DCPA, Diuron, Hexazinone, Lindane, Malathion, Metolachlor, Metribuzin, Napropamide, Oryzalin, Pebulate, Pronamide, Prometon, Propazine, Simazine, Terbacil, Trifluralin, Triclopyr and 2,4-D were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22P-JOHN0	Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Acenaphthene, Anthracene, Benzo(A)anthracene, Benzo(GH)perylene, Benzo(K)fluoranthene, Benzo(A)pyrene, Bis(2Ethylhexyl)phthalate, Chrysene, Fluoranthene, Phenol, and Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem.</p> <p>Acenaphthylene, Acridine, Anthraquinone, Benzo(B)fluoranthene, Butylbenzylphthalate, Dibenzothiophene, Di-n-butylphthalate, Dibenzo(AH)anthracene, Dimethylphthalate, 2-Ethyl-naphthalene, 9H-Carbazole, 9H-Fluorene, Indeno123-cdpyrene, 1,2-Di-methylnaphthalene, 1,6-Di-methylnaphthalene, 1-Methyl(9h-Fluorene, 1-Methylphenanthrene, 1-Methylpyrene, 2,3,6-Trimethylnaphthalene, 2,6-Dimethylnaphthalene, 2-Methylanthracene, 4,5-Methylenephenanthrene, Naphthalene, p-Cresol, Phenanthridine were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations.</p> <p>No other PAHs, Semi or Volatile Organics were detected.</p>	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Iron was found once above the water quality standards, Table 20 value. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time are needed).</p>	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22P-JOHN0	Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Chromium, Copper, Manganese, Nickel and Zinc were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	N-butylbenzylphthalate, Di-n-butylphthalate and Bis(2-ethylhexyl)phthalate were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations. No other PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition
		Toxics	Tissue - Pesticides (DDT)		USGS Data; 1994 304(I) list, Part B	DDT was found in fish tissue. There are no standards for fish tissue concentrations. Concentration values exceed various guidance levels used to determine whether compounds are elevated. No data on beneficial use impairment (e.g. bioassays, health advisories or other studies) are available for the local area that indicate there's a beneficial use impairment. Further studies would be needed to determine toxicity.	Did not meet listing criteria	Potential Concern	

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Basin <i>Willamette</i>		Sub		<i>Lower Willamette</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lake Oswego Lake	22P.OSWE	Aquatic Weeds or Algae	Algae	Summer	SRI (1988); NPS Assessment - segment 464: severe, data (DEQ, 1988)	Three month average chlorophyll a values frequently exceed 15 ug/l, copper sulfate is routinely applied to control algae bloom (Lake Oswego Lake and Watershed Assessment 1986 - 1987 (SRI, 1988)).	TMDL established for phosphorus, approved (1/27/94) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (1/27/94)	
		Bacteria				Lake Oswego Corp Monitoring Program		No supporting data or information	Need Data
		Dissolved Oxygen (DO)		Summer	SRI (1988); NPS Assessment - segment 464: severe, data (DEQ, 1988)	Lake Oswego Lake and Watershed Assessment 1986- 1987 (SRI, 1988).	TMDL established for phosphorus, approved (1/27/94) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (1/27/94)	
		Nutrients	Phosphorus	May 1 - October 31	DEQ TMDL; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 464: severe, data (DEQ, 1988)	DEQ Data; Lake Oswego Lake and Watershed Assessment 1986- 1987 (SRI, 1988).	TMDL established for phosphorus, approved (1/27/94) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (1/27/94)	
		pH		May 1 - October 31	SRI (1988); d1 in 305(b) Report (DEQ, 94); NPS Assessment - segment 464: severe, data (DEQ, 1988)	Lake Oswego Lake and Watershed Assessment 1986- 1987 (SRI, 1988): 64% (11 of 17) May to October samplings indicated pH standard (6.5 to 8.5) exceedences within the lake with a maximum of 10.3 recorded.	TMDL established for phosphorus, approved (1/27/94) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (1/27/94)	
McNulty Creek Mouth to Headwaters	22P-MCNU0	Sedimentation			NPS Assessment - segment 48: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96		
Name && Description	Waterbody Segment	Parameter	Criteria	Season							
Milton Creek		22P-MILT0	Nutrients		NPS Assessment - segment 6: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data			
Mouth to Headwaters										Sedimentation	NPS Assessment - segment 6: severe, observation (DEQ, 1988)
Mt Scott Creek		22P-MTSCO	Nutrients		NPS Assessment - segment 9: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data			
Mouth to Headwaters										Sedimentation	NPS Assessment - segment 9: severe, observation (DEQ, 1988)
										Temperature	NPS Assessment - segment 9: moderate, data (DEQ, 1988)
Multnomah Channel		22P-MULT0	Sedimentation		NPS Assessment - segment 7: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data			
Raymond Creek		22P-RAYM0	Sedimentation		NPS Assessment - segment 353: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data			
Scappoose Creek		22P-SCAP0	Sedimentation		NPS Assessment - segment 351: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data			
Scappoose Creek, South Fork		22P-SCSF0	Sedimentation		NPS Assessment - segment 351 and 352: moderate/severe, observation (DEQ, 1988)		No supporting data or information	Need Data			
Smith Lake		22P.SMIT	Aquatic Weeds or Algae	Algae, Aquatic Weeds	USGS (1983); Fishman (1987); Metro - Phase 1; NPS Assessment - segment 465: moderate, data (DEQ, 1988)	Metro (1994): Alterations to the hydrology has contributed to drastic changes in local biota that affect beneficial uses such as wildlife and boating; Clean Lake Study underway.		303(d) List			

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lake	22P.SMIT	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	Fishman (1987), Metro - Phase 1; NPS Assessment - segment 465: moderate, data (DEQ, 1988)	Fishman (1987), Metro - Phase 1	Did not meet listing criteria	OK	
		Biological Criteria	Macrophytes			Metro (1994)	Metro (1994): Alterations to the hydrology has contributed to drastic changes in local biota that affect beneficial uses such as wildlife and boating; Clean Lake Study underway.		303(d) List
		Dissolved Oxygen (DO)				NPS Assessment - segment 465: moderate, data (DEQ, 1988)		No supporting data or information	Need Data
		Flow Modification				Metro (1994)	Metro (1994): Alterations to the hydrology has contributed to drastic changes in local biota that affect beneficial uses such as wildlife and boating; Clean Lake Study underway.		303(d) List
		Habitat Modification				Metro (1994)	Metro (1994): Alterations to the hydrology has contributed to drastic changes in local biota that affect beneficial uses such as wildlife and boating; Clean Lake Study underway.		303(d) List
		Nutrients				Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 465: moderate, data (DEQ, 1988)		No supporting data or information	Need Data
		pH Toxics			Summer	USGS (1983); Metro - Phase 1 NPS Assessment - segment 465: moderate, data (DEQ, 1988)	USGS (1983), Metro - Phase 1	No supporting data or information	303(d) List Need Data
Spring Brook Creek Mouth to Headwaters	22P-SPRI0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 453: severe, data (DEQ, 1988)	DEQ Data (Site 404180; RM 0.3): 100% (4 of 4) Summer values exceeded fecal coliform standard (400) with a maximum value of greater than 2400 in 1986.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22P-SPRI0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 453: severe, data (DEQ, 1988)	DEQ Data (Site 404180; RM 0.3): 75% (9 of 12) FWS values exceeded fecal coliform standard (400) with a maximum value of greater than 2400 between 1986 - 1987.		303(d) List	
		Nutrients	Phosphorus	May 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 453: severe, data (DEQ, 1988)	DEQ Data (Site 404180, RM 0.3): 83% (5 of 6) May through October values exceeded phosphorus TMDL standard (70 ug/l) with a maximum of 210 ug/l between 1986 - 1987.	TMDL established for phosphorus, approved (12/8/92) and being implemented	TMDL Approved (1/27/94)	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404180; RM 0.3): 0% (0 of 12) FWS values exceeded pH standard (6.5 - 8.5) between 1986 - 1987.	Did not meet listing criteria	OK	
Sturgeon Lake Lake	22P.STUR	Aquatic Weeds or Algae	Algae		Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 439: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Bacteria			NPS Assessment - segment 439: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 439: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 439: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 439: severe, data (DEQ, 1988)	Sturgeon Lake Phase 1 Study and Phase 2 Implementation	Did not meet listing criteria	Potential Concern	
		Temperature			NPS Assessment - segment 439: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Tryon Creek Mouth to Headwaters	22P-TRYO0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data	DEQ Data (4 Sites: SW 35, SW 11, Boones Ferry, St. Park): 7 day average of daily maximums of 63.3/66.0/68.4/66.2 exceeded temperature standard (64) in 1995.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette River									
Mouth to Willamette Falls	22=-WILLO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ & USGS Data; d1 in 305(b) Report (DEQ, 94); NPS Assessment - segment 452 and 522: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402000, 402288; RM 7.0, 13.2): 5% (2 of 37), 7% (3 of 43) Summer values respectively exceeded fecal coliform standard (400) with maximum values of 1100, 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ & USGS Data; d1 in 305(b) Report (DEQ, 94); NPS Assessment - segment 452 and 522: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402000, 402288; RM 7.0, 13.2): 39% (20 of 51), 31% (20 of 65) FWS values respectively exceeded fecal coliform standard (400) with maximum values of 2400, 2400 between WY 1986 - 1995.			303(d) List
		Biological Criteria	Fish Skeletal Deformities		Tetra Tech (5/1995)	Tetra Tech (5/95): Incidence of skeletal deformities (22.7%) in juvenile squawfish collected at RM 25.5 were significantly higher than those measured in the upper river or reference site, cause of the deformities is unknown; RM 3 values were at background			303(d) List
		Chlorophyll a		Summer	DEQ Data; NPS Assessment - segment 452 and 522: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 402000, 402288; RM 7.0, 13.2): 2% (1 of 48), 9% (5 of 56) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with maximum values of 16, 21 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ & USGS Data	DEQ Data (2 Sites: 402000, 402288; RM 7.0, 13.2): 1% (1 of 103) and 0% (0 of 128) Annual values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 6.4 mg/l between WY 1986 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK	
		Nutrients			NPS Assessment - segment 452 and 522: moderate, data (DEQ, 1988)		No supporting data or information		Need Data
		pH		Summer	DEQ & USGS Data	DEQ Data (2 Sites: 402000, 402288; RM 7.0, 13.2): 0% (0 of 50, 61) Summer values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Willamette Falls	22=-WILLO	pH		Fall-Winter-Spring	DEQ & USGS Data	DEQ Data (2 Sites: 402000, 402288; RM 7.0, 13.2): 0% (0 of 50, 67) FWS values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 452 and 522: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data; USGS Data	DEQ Data (2 Sites: 402000, 402288; RM 7.0, 13.2): 68% (34 of 50) and 61% (37 of 61) Summer values exceeded temperature standard (68) with a maximum of 78.8 and exceedences measured each year between WY 1986 - 1995 (except 1991).		303(d) List	
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Copper, Lead, Manganese, Nickel, and Zinc were found in water, but levels were below the water quality standards Table 20 values. No other trace metals were detected.	Did not meet listing criteria	OK	Addition
		Toxics	Tissue - Mercury	Year Around	Health Division Consumption Health Advisory (1997)	Health Division Consumption Health Advisory issued for Mercury in fish tissue (.63 ppm) based on data collected since 1969; Reference level (.35 ppm)		303(d) List	Addition

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Willamette Falls	22=-WILL0	Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Iron was found above the water quality standards, Table 20 value, once. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time are needed).	Did not meet listing criteria	Potential Concern	Addition
		Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Willamette Falls	22=-WILLO	Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Benzo(A)anthracene, Benzo(K)fluoranthene, Benzo(A)pyrene and Chrysene were found in elevated levels in sediments when compared to certain guidelines or criteria, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. Further studies would be needed to determine if there was any toxicity. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>Acenaphthene, Anthracene, Benzo(GHI)perylene, Bis(2Ethylhexyl)phthalate, Fluoranthene, Phenol, and Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem.</p> <p>Acenaphthylene, Acridine, Anthraquinone, Benzo(B)fluoranthene, Butylbenzylphthalate, Dibenzothiophene, Di-n-butylphthalate, Dibenzo(AH)anthracene, Dimethylphthalate, 2-Ethyl-naphthalene, 9H-Carbazole, 9H-Fluorene, Indeno123-cdpyrene, 1,2-Di-methylnaphthalene, 1,6-Di-methylnaphthalene, 1-Methyl-9h-Fluorene, 1-Methylphenanthrene, 1-Methylpyrene, 2,6-Dimethylnaphthalene, 2-Methylantracene, 4,5-Methylenephenanthrene, 4-Chloro-3-Methylphenol, Naphthalene, p-Cresol, Phenanthrene and phenanthridine</p>	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
		Toxics	Tissue, Water - 2,3,7,8-TCDD		EPA (91); DEQ Data; 1994 304(l) list, Part A/B	<p>were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations.</p> <p>No other PAHs, Semi or Volatile Organics were detected. Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream</p>	TMDL has been established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
		Toxics	Pesticides (Water)	Year Around	NPS Assessment - segment 452 and 522: moderate, data (DEQ, 1988), USGS data; Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>USGS Data chlopyrifos, p,p' DDT, dieldrin, lindane and malathion were detected, but not above water quality standards.</p> <p>Atrazine, Bromacil, Benfluralin, Carbaryl, Carbofuran, Chlorpyrifos, Desethylatrazine, Desisoproylatrazine, Diuron, Diazinon, DCPA, Ethoprop, Hexazinone, Metolachlor, Metribuzin, Metribuzinsencor, Napropamide, Prometon, Pronamide, Simazine, Terbacil, Tebuthiuron, Triallate and p,p' DDE were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.</p>	Did not meet listing criteria	OK	Addition
Near McCormack and Baxter Facility		Toxics	Tissue/Sediment - Pentachlorophenol, Arsenic		DEQ Data; OSHD Advisory; 1994 304(l) list, Part A	OSHD alert regarding fishing and swimming in the area of McCormack and Baxter due to soils and sediment contaminated by creosote.	CERCLA Clean up site, clean up underway, however, clean up will take long than two years so does not fall under other control mechanisms.	303(d) List	Addition

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Basin <i>Willamette</i>		Sub <i>Lower Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Willamette Falls	22=-WILLO	Toxics	Pesticides (Sediment)	Year Around	DEQ Data, 1994 304(I) list, Part B, Willamette River Phase III Studies; Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Malathion, Parathion, p,p' DDD, p,p' DDE and p,p' DDT were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.</p> <p>Methylparathion and Trithion were found, however, there are no well established guidelines available for evaluating risks for sediment, nor have there been any beneficial use impairment evaluations.</p> <p>No other pesticides were detected in the sediment.</p>	Did not meet listing criteria	Potential Concern	
		Toxics	Trace Metals (Sediment)	Year Around	DEQ Data, 1994 304(I) list, Part B, Willamette River Basin Water Quality Study Phase I, II and III, USGS data	<p>Arsenic, Chromium, Copper, Lead, Manganese, Nickel and Zinc were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p>	Did not meet listing criteria	Potential Concern	
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Dioxin 2,3,7,8 TCDD was not detected in the sediment.</p>	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Augusta Creek									
Mouth to Headwaters	22D-AUGU0	Sedimentation			NPS Assessment - segment 122: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 122: moderate, observation (DEQ, 1988)	USFS Data (Site at Blue River Rd): 7 day average of daily maximums of 63.3/65.3/61.4/63.0/64.1°F with 1/13/0/2/3 days exceeded temperature standard (64) in 1991/92/93/94/97 respectively.	Did not meet listing criteria	Potential Concern	
Blue River									
Mouth to Blue River Reservoir	22D-BLUE0	Flow Modification			NPS Assessment - segment 116: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 116: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Salmon Spawning 55 F (12.8 C)	Spring - Summer - Fall	USGS Data; NPS Assessment - segment 116: moderate, observation (DEQ, 1988)	USGS Data (Site at Blue River): 7 day average of daily maximums of 66.5/65.4/70.1/61.4/68.6 with 32/10/59/0/32 days exceeding temperature standard (64) in 1990/91/92/93/94 respectively. Corp (1995), ODFW (1995): Cool water releases from Blue River and Cougar Reservoirs in late Spring/Summer delay adult Spring Chinook migration and cause significant under utilization of available spawning habitat in the McKenzie above Leaburg Dam and may also affect rainbow trout growth in the South Fork and Blue Rivers below the dams and to a lesser extent in the mainstem McKenzie below the South Fork; warm water releases in late summer and fall accelerate egg incubation which results in earlier than normal fry emergence which reduces survival because conditions in the winter are not favorable for fry growth and food is not readily available.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Blue River Reservoir to Wolf Creek	22D-BLUE8	Flow Modification			NPS Assessment - segment 115: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 115: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Blue River Reservoir Reservoir	22D.BLUE	Sedimentation			NPS Assessment - segment 117: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Budworm Creek Mouth to Headwaters	22D-BUDW0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at McKenzie Rd): 7 day average of daily maximums of 57.3/58.7/55.7/56.9/57.5°F with 0 days exceeding temperature standard (64) in 1991/92/93/94/97 respectively.	Did not meet listing criteria	OK	
Camp Creek Mouth to Headwaters	22D-CAMP0	Flow Modification			NPS Assessment - segment 157: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 157: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 157: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cougar Reservoir Reservoir	22D.COUG	Sedimentation			NPS Assessment - segment 120: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 120: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Deer Creek (Belknap area) Mouth to Headwaters	22D-DEEB0	Sedimentation			NPS Assessment - segment 123: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22D-DEEB0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at McKenzie Rd): 7 day average of daily maximums of 66.9/64.2/63.4/65.1/66.4 with 27/nd/0/nd/26 days exceeding temperature standard (64) in 1991/92/93/94/97 respectively.		303(d) List	
Deer Creek (Nimrod area) Mouth to Headwaters	22D-DEEN0	Sedimentation			NPS Assessment - segment 159: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Eugene Creek Mouth to Headwaters	22D-EUGE0	Sedimentation			NPS Assessment - segment 118: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 118: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Gate Creek Mouth to Headwaters	22D-GATE0	Sedimentation			NPS Assessment - segment 158: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Gate Creek, North Fork Mouth to Headwaters	22D-GANF0	Sedimentation			NPS Assessment - segment 158: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Horse Creek Mouth to Eugene Creek	22D-HORS0	Sedimentation			NPS Assessment - segment 118: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USGS Data; Bull Trout Habitat; NPS Assessment - segment 118: moderate, data (DEQ, 1988)	USFS Data (Site near McKenzie Bridge): 7 day average of daily maximums of 57.2/54.7°F exceeded Bull Trout temperature standard (50) in 1993/97.		303(d) List	
Mack Creek Mouth to headwaters	22D-MACK0	Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Cycloate and Prometon were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to headwaters	22D-MACK0	Toxics	Total Dioxin and Furans (Fish Tissue)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in fish tissue. There are no standards for fish tissue concentrations. Concentration values did not exceed various guidance levels used to determine whether compounds are elevated. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.	Did not meet listing criteria	OK	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Fish Tissue)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in fish tissue.	Did not meet listing criteria	OK	Addition
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
McGowan Creek									
Mouth to Headwaters	22D-MCGO0	Sedimentation			NPS Assessment - segment 153: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
McKenzie River									
Mouth to Leaburg Dam	22D-MCKE0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (2 Sites: 402044, 402056; RM 7.1, 14.8): 0% (0 of 26, 12) Summer values respectively exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites: 402044, 402056; RM 7.1, 14.8): 0% (0 of 45, 7) FWS values respectively exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Leaburg Dam	22D-MCKE0	Chlorophyll a		Summer	DEQ Data	DEQ Data (2 Sites: 402044, 402056; RM 7.1, 14.8): 0% (0 of 43, 27) Summer values respectively exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - July 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 402056, 402044; RM 14.8, 7.1): 6% (1 of 17)/0% (0 of 66) Sept - June values exceeded dissolved oxygen standard (11.0 mg/l or 95% sat) with a minimum of 9.5 mg/l (94% sat) from WY 86 - 95 (Cold water fishery, spawning approx. Sept - Jun).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	July 1 - August 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 402056, 402044; RM 14.8, 7.1): 0% (0 of 20), 0% (0 of 32) July - August values respectively exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 86 - 95 (Cold water fishery, rearing approximately July - August).	Did not meet listing criteria	OK		
		Nutrients				NPS Assessment - segment 112: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Summer	DEQ Data	DEQ Data (2 Sites: 402044, 402056; RM 7.1, 14.8): 2% (1 of 46), 0% (0 of 28) Summer values respectively exceeded pH standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites: 402044, 402056; RM 7.1, 14.8): 0% (0 of 45, 7) FWS values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation					NPS Assessment - segment 112: moderate, data (DEQ, 1988)	No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Leaburg Dam	22D-MCKE0	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data; DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 112: moderate, data (DEQ, 1988)	DEQ Data (Site 402044; RM 7.1): 33% (16 of 48) Summer values exceeded temperature standard (64) with exceedences most years and a maximum of 71.8 in 86-95; 7 day ave of daily max of 66 exceeded standard (64) in 95; USGS (Site 27.7): 7 day ave 66.3 in 93.		303(d) List	
		Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No pesticides were detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Water - Trace Metals (Arsenic)		USGS Data	USGS Data (2 Sites: Vida and McKenzie Br, 1977-84): 6 and 4 samples had detectable dissolved As concentration (1-2 ug/l) that exceeded Arsenic standard (.0022 ug/l); EWEB data (Armitage Park): all but one value less than detection (1 ug/l). However, professional judgment was used to establish the status of segment for Arsenic in the water column as a potential concern because of quality assurance concerns with the first data set and the reduction in detections in the later study probably due to better analytical methods. Concentrations decreased between studies which is believed to be the result of better QA procedures and better analytical methods. For these reasons and the limited sampling at each site, this data was used to identify which parameters may be of concern rather than listing the segment.	Did not meet listing criteria	Potential Concern	

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Leaburg Dam	22D-MCKE0	Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Chromium, Copper, Manganese and Nickel were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine and Cycloate were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Bis(2 Ethylhexyl)phthalate and Phenol were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity. Di-n-butylphthalate, P-cresol and phenanthrene were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations. No other PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition
Leaburg Dam to S Fk McKenzie Need Data R		22D-MCKE39			Flow		NPS Assessment - segment	No supporting data	
		Modification Sedimentation			113: severe, data (DEQ, 1988) NPS Assessment - segment 113: moderate, data (DEQ, 1988)		or information No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Leaburg Dam to S Fk McKenzie 54.2, R	303(d) List	22D-MCKE39	Temperature (17.8 C)	Rearing 64 F Summer - Fall	Spring - (1995); Bull Trout Habitat; NPS Assessment - segment 113: severe, data (DEQ, 1988)	USGS Data; USFS; DEQ 37.4): 7 day average of daily maximums of 57.0/57.5/57.8 respectively exceeded Bull Trout temperature standard (50) in 1993. Corp (1995), ODFW (1995): Cool water releases from Blue River and Cougar Reservoirs in late Spring/Summer delay adult Spring Chinook migration and cause significant under utilization of available spawning habitat in the McKenzie above Leaburg Dam and may also affect rainbow trout growth in the South Fork and Blue Rivers below the dams and to a lesser extent in the mainstem McKenzie below the South Fork; warm water releases in late summer and fall accelerate egg incubation which results in earlier than normal fry emergence which reduces survival because conditions in the winter are not favorable for fry growth and food is not readily available and affect Bull Trout spawning and egg incubation.		USGS Data (3 Sites: RM 57.5,	

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Leaburg Dam to S Fk McKenzie meet listing R	Potential	22D-MCKE39	Toxics Metals (Arsenic)		Water - Trace	USGS Data Br, 1977-84): 6 and 4 samples had detectable dissolved As concentration (1-2 ug/l) that exceeded Arsenic standard (.0022 ug/l); EWEB data (Armitage Park): all but one value less than detection (1 ug/l). However, professional judgment was used to establish the status of segment for Arsenic in the water column as a potential concern because of quality assurance concerns with the first data set and the reduction in detections in the later study probably due to better analytical methods. Concentrations decreased between studies which is believed to be the result of better QA procedures and better analytical methods. For these reasons and the limited sampling at each site, this data was used to identify which parameters may be of concern rather than listing the segment.	USGS Data (2 Sites: Vida and McKenzie criteria)	Concern	Did not
S Fk McKenzie R to Carmen Reservoir	22D-MCKE59.8	Sedimentation			NPS Assessment - segment 114: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
S Fk McKenzie R to Trail Bridge Reservoir		Temperature	Oregon Bull Trout 50 F (10 C)	Summer	USGS Data; USFS Data; Bull Trout Habitat	USFS Data (2 Sites: Above and Below USGS gage): 7 day ave of daily max of 49.2/50.2/48.8 and 52.4/59.5/nd exceeded Bull Trout standard (50) in 93/94/97; USGS Data (RM 81.5 and 69.9): 7 day ave of daily max of 48.5 and 53.2 in 93; DEQ Data (McKenzie Br): 53.4 in 95. USFS site at RM 70 in 1997 was 51.9°F.		303(d) List	Segment Modification

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
S Fk McKenzie R to Carmen Reservoir	22D-MCKE59.8	Toxics	Water - Trace Metals (Arsenic)		USGS Data	<p>USGS Data (2 Sites: Vida and McKenzie Br, 1977-84): 6 and 4 samples had detectable dissolved As concentration (1-2 ug/l) that exceeded Arsenic standard (.0022 ug/l); EWEB data (Armitage Park): all but one value less than detection (1 ug/l).</p> <p>However, professional judgment was used to establish the status of segment for Arsenic in the water column as a potential concern because of quality assurance concerns with the first data set and the reduction in detections in the later study probably due to better analytical methods. Concentrations decreased between studies which is believed to be the result of better QA procedures and better analytical methods. For these reasons and the limited sampling at each site, this data was used to identify which parameters may be of concern rather than listing the segment.</p>	Did not meet listing criteria	Potential Concern	
McKenzie River, South Fork									
Mouth to Cougar Reservoir	22D-MCSF0	Flow Modification			NPS Assessment - segment 119: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 119: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Cougar Reservoir	22D-MCSF0	Temperature	Salmon Spawning 55 F (12.8 C)	Spring - Summer - Fall	USGS Data; Bull Trout Habitat; NPS Assessment - segment 119: severe, data (DEQ, 1988)	USFS Data (Site near Rainbow): 7 day average of daily maximums of 59.0/59.9/59.0/54.7/59.9 exceeded Bull Trout temperature standard (50) in 1990/91/92/93/94 respectively. Corp (1995), ODFW (1995): Cool water releases from Blue River and Cougar Reservoirs in late Spring/Summer delay adult Spring Chinook migration and cause significant under utilization of available spawning habitat in the McKenzie above Leaburg Dam and may also affect rainbow trout growth in the South Fork and Blue Rivers below the dams and to a lesser extent in the mainstem McKenzie below the South Fork; warm water releases in late summer and fall accelerate egg incubation which results in earlier than normal fry emergence which reduces survival because conditions in the winter are not favorable for fry growth.		303(d) List	
Cougar Reservoir to Elk Creek	22D-MCSF10	Sedimentation			NPS Assessment - segment 121: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 121: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
McKenzie River, White Branch (Lost Cr)									
Mouth to Headwaters	22D-WHIT0	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site near McKenzie Bridge): 7 day average of daily maximums of 49.4 with 0 days exceeding temperature standard (64) in 1993.	Did not meet listing criteria	OK	
Mill Creek									
Mouth to Headwaters	22D-MILL0	Habitat Modification			NPS Assessment - segment 155: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 155: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22D-MILL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	BLM Data (Site at mouth): 7 day average of daily maximum of greater than 68 exceeded temperature standard (64) in 1986. [also Upper Mohawk River Watershed Analysis (June 1994)]		303(d) List	
Mohawk River									
Mouth to Headwaters	22D-MOHA0	Habitat Modification			NPS Assessment - segment 152: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 151 and 152: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to River Mile 25		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 151 and 152: moderate, observation (DEQ, 1988)	BLM Data (Several sites): 7 day average of daily maximums of greater than 64 exceeded temperature standard (64) in 1986. [also Upper Mohawk River Watershed Analysis (June 1994)]		303(d) List	Segment Modification
River Mile 25 to Headwaters	22D-MOHA25	Temperature	Rearing 64 F (17.8 C)	Summer	Weyerhaeuser data	Weyerhaeuser site below confluence of North/South Forks showed: 7 day average of daily maximums of 61.5 and 62.5°F for 1993 and 1994 neither year exceeded water temperature standard (64°F).	Did not meet listing criteria	OK	Removed (5)
Parsons Creek									
Mouth to Headwaters	22D-PARS0	Sedimentation			NPS Assessment - segment 154: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Quartz Creek									
Mouth to Wycoff Creek	22D-QUAR0	Sedimentation			NPS Assessment - segment 154: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Shotgun Creek									
Mouth to Headwaters	22D-SHOT0	Sedimentation			NPS Assessment - segment 156: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Smith River									
Mouth to Headwaters	22D-SMIT0	Sedimentation			NPS Assessment - segment 111: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>McKenzie</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Wycoff Creek Mouth to Headwaters	22D-WYCO0	Sedimentation			NPS Assessment - segment 162: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub			<i>Middle Fork Willamette</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Basin Creek Mouth to Headwaters	22B-BASIO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 56.5°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition	
Big Willow Creek Mouth to Headwaters	22B-BWIL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 63.9°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition	
Billy Creek Mouth to Headwaters	22B-BILL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 58.4°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition	
Black Creek Mouth to Louise Creek	22B-BLAC0	Sedimentation			NPS Assessment - segment 131: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 131: moderate, data (DEQ, 1988); USFS data	USFS site: 7 day ave. max stream temperature was 54.9°F in 1997 did not exceed temperature standard (64°F)	No supporting data or information	OK	Status Modification	
Blanket Creek Mouth to Headwaters	22B-BLAN0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 63.0°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition	
Bohemia Creek Mouth to Headwaters	22B-BOHE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 62.2°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition	
Buck Creek Mouth to North/South Forks	22B-BUCK0	Sedimentation			NPS Assessment - segment 147: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		

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Basin <i>Willamette</i>		Sub		<i>Middle Fork Willamette</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to North/South Forks	22B-BUCK0	Temperature	Rearing 64 F (17.8 C)	Summer	Middle Fork Willamette Watershed Analysis (1995); USFS data	USFS Data: Maximum temperatures ranged from 68 to 76 with exceedences of temperature standard (64) observed from July - September in 1992 (USFS, 1995). USFS data in 1997 at mouth: 7 day ave. max. was 63.4°F; below North/South Forks was 55.0°F in 1997. Did not exceed temperature standard. 1992 was a drought year.	Did not meet listing criteria	OK	Removed (5)
Cabin Creek Mouth to Headwaters	22B-CABI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 62.2°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Christy Creek Mouth to Headwaters	22B-CHRI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 62.4°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Coal Creek Mouth to Headwaters	22B-COAL0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 136: moderate, observation (DEQ, 1988); USFS data	USFS site: 7 day ave. max. stream temperature was 66.0°F in 1997, exceeded the temperature standard or (64°F)		303(d) List	Addition
Coffeepot Creek Mouth to Headwaters	22B-COFF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 62.8°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Delp Creek Mouth to Headwaters	22B-DELP0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 61.0°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Dexter Reservoir Reservoir	22B.DEXT	Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 141: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 141: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Middle Fork Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Reservoir	22B.DEXT	Temperature			NPS Assessment - segment 141: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Eagle Creek Mouth to Headwaters	22B-EAGL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 49.6/50.7/48.7°F with 0 days exceeding temperature standard (64) in 1993/94/97 respectively.	Did not meet listing criteria	OK	
Echo Creek Mouth to Headwaters	22B-ECHO0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 56.0°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Fall Creek Mouth to Fall Creek Reservoir	22B-FALL0	Flow Modification			NPS Assessment - segment 125: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 125: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site below Winberry Creek): 7 day average of daily maximums of 65.4/65.0/67.1/67.1 with 31/12//21/30 days exceeding temperature standard (64) in 1990/91/92/ and 1994 respectively.		303(d) List	
Fall Creek Reservoir to Headwaters	22B-FALL14	Flow Modification			NPS Assessment - segment 127: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 127: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Middle Fork Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Fall Creek Reservoir to headwaters	22B-FALL14	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data, NPS Assessment - segment 127: moderate, data (DEQ, 1988)	In 1997 5 sites above and below Hehe Creek, above and below Portland Creek and at USFS boundary 7 day ave. max. temperatures were 65.0/64.0/68.2/68.3/69.0°F. All sites exceeded temperature standard (64°F) Also other USGS Data (Site near Lowell at USGS Gage 14150300): 7 day average of daily maximums of 66.1 (1980), 71.0 (1981), 68.7 (1982), 66.5 (1983), 70.7 (1985), 69.8 (1986) 69.3 (1987) exceeded temperature standard (64).		303(d) List	Addition
Fall Creek Reservoir Reservoir	22B.FALL	Sedimentation			NPS Assessment - segment 126: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Gate Creek Mouth to Headwaters	22B-GATE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 61.5°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Gobel Creek Mouth to Headwaters	22B-GOBE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 57.0°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Grassy Creek Mouth to Headwaters	22B-GRAS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 61.2°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Gray Creek Mouth to Headwaters	22B-GRAY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 62.7°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Groundhog Creek, North Fork Mouth to headwaters	22B-GRNF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data site at Rd 2308, 7 day average of daily maximum was 53.7°F in 1997. Did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Middle Fork Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Groundhog Creek, South Fork									
Mouth to headwaters	22B-GRSF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data site at Rd 2308, 7 day average of daily maximum was 59.2°F in 1997. Did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Hehe Creek									
Mouth to Headwaters	22B-HEHE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	Two USFS sites: at mouth, 7 day ave. max stream temperature was 63.4°F and above Pernot Creek was 62.3°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Hills Creek									
Reservoir to Headwaters	22B-HILL3	Sedimentation			NPS Assessment - segment 133: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Reservoir to Juniper Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (above reservoir at USGS gage 14144900): 7 day average of daily maximums of 64.7 in 1995, 76.1 in 1996 and 66.0°F in 1997 exceeded temperature standard (64).		303(d) List	Addition
Hills Creek (near Jasper)									
Mouth to Headwaters	22B-HILJ0	Sedimentation			NPS Assessment - segment 148: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Hills Creek Reservoir									
Reservoir	22B.HILL	Sedimentation			NPS Assessment - segment 134: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Kelsey Creek									
Mouth to Headwaters	22B-KELS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 60.6°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Larison Creek									
Mouth to Headwaters	22B-LARIO	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 64.0°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub		<i>Middle Fork Willamette</i>		Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing				
Little Fall Creek Mouth to Headwaters	22B-FALI0	Habitat Modification			NPS Assessment - segment 124: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 124: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 124: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Lookout Point Reservoir Reservoir	22B.LOOK	Nutrients			Atlas of Oregon Lakes (PSU, 1985); NPS Assessment - segment 140: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 140: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 140: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Lost Creek Mouth to Headwaters	22B-LOST0	Sedimentation			NPS Assessment - segment 143 - 145: moderate, observation (DEQ, 1988), ODFW 1992 "Middle Fork Willamette Subbasin Fish Management Plan" and the 1997 BLM "Lost Creek Watershed Analysis"	Reports cited observational information, but do not present data to back up observations.	No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 143 - 145: moderate, observation (DEQ, 1988), ODFW 1992 "Middle Fork Willamette Subbasin Fish Management Plan" and the 1997 BLM "Lost Creek Watershed Analysis"	Reports cited observational information, but do not present data to back up observations.	No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub			<i>Middle Fork Willamette</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Lowell Creek Mouth to Headwaters	22B-LOWE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 61.7°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition	
Mike Creek Mouth to Headwaters	22B-MIKE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 71.8°F in 1997 exceeded temperature standard (64°F)		303(d) List	Addition	
Monterica Creek Mouth to Headwaters	22B-MONT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 69.9°F in 1997 exceeded temperature standard (64°F).		303(d) List	Addition	
Mossy Creek Mouth to Headwaters	22B-MOSS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 55.9°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition	
Nevergo Creek Mouth to Headwaters	22B-NEVE0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 63.0°F in 1997 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition	
Noisy Creek Mouth to headwaters	22B-NOIS0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data site at mouth: 7 day average of daily maximums of 62.9°F in 1997 did not exceed temperature standard (64).	Did not meet listing criteria	OK	Addition	
Packard Creek Mouth to T22S,R2E,S24,SW1/4	22B-PACK0	Sedimentation				NPS Assessment - segment 146: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	Middle Fork Willamette Watershed Analysis (1995)	USFS Data: maximum temperatures ranged from 68 to 76 with exceedences of temperature standard (64) observed from July through September in 1992 (USFS, 1995). In 1997 temperature was 72.6°F.		303(d) List		
T22S,R2E,S24,SW1/4 to headwaters	22B-PACK2	Temperature	Rearing 64 F (17.8 C)	Summer	Middle Fork Willamette Watershed Analysis (1995); USFS data	USFS Data at boundary: 7 day ave. max. temperature was 58.6°F in 1997. Did not exceed temperature Standard (64°F)	Did not meet listing criteria	OK	Addition	

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Basin <i>Willamette</i>		Sub			<i>Middle Fork Willamette</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Portland Creek Mouth to Logan Creek	22B-PORT0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data site at mouth: 7 day average of daily maximum was 65.3°F in 1997. Exceeded temperature standard (64°F)		303(d) List	Addition	
Salmon Creek Mouth to Black Creek	22B-SALM0	Sedimentation			NPS Assessment - segment 131: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
Mouth to Ranger Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, NPS Assessment - segment 131: moderate, data (DEQ, 1988)	USFS Data (Salmon Creek at Oakridge Fish Hatchery, station 18181301): 7 day average of daily maximums did not exceed standard (64). Site above Wall Creek was 57.2°F in 1997.	Did not meet listing criteria	OK	Status Modification	
Salt Creek Mouth to South Fork of Salt Creek	22B-SALT0	Sedimentation			NPS Assessment - segment 132: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 132: moderate, data (DEQ, 1988)	USFS Data (Site near mouth): 7 day average of daily maximums of 62.6/66.6/64.8°F in 1993/94/97. Site at Rd 5875 was 66.5°F in 1997 exceeding temperature standard (64) in 1994 and 1997 respectively.		303(d) List	Addition	
Salt Creek, South Fork Mouth to Headwaters	22B-SASF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at mouth): 7 day average of daily maximums of 71.6 and 58.8 with 14 and 0 days exceeding temperature standard (64) in 1993 and 1994 respectively. In 1997 was 58.1°F .	Did not meet listing criteria	Potential Concern		
Sardine Creek Mouth to headwaters	22B-SARD0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data at mouth: 7 day average of daily maximum was 56.9°F in 1997. Did not exceeded temperature standard (64°F)	Did not meet listing criteria	OK	Addition	
Shorridge Creek Mouth to headwaters	22B-SHOR0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data site at mouth, 7 day average of daily maximum was 61.0°F in 1997. Did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition	

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Basin <i>Willamette</i>		Sub <i>Middle Fork Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Simpson Creek									
Mouth to Headwaters	22B-SIMP0	Habitat Modification			NPS Assessment - segment 163: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data site at mouth, 7 day average of daily maximum was 61.4°F in 1997. Did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Snake Creek									
Mouth to headwaters	22B-SNAK0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data site at mouth, 7 day average of daily maximum was 63.2°F in 1997. Did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Staley Creek									
Mouth to Headwaters	22B-STAL0	Sedimentation			NPS Assessment - segment 135: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data site at mouth, 7 day average of daily maximum was 63.6°F in 1997. Did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Status Modification
Swift Creek									
Mouth to Headwaters	22B-SWIF0	Sedimentation			NPS Assessment - segment 137: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data site at Rd 2300, 7 day average of daily maximum was 55.6°F in 1997. Did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Willamette River, Middle Fork									
Mouth to Dexter Lake	22B-WIMF0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402054; RM 8.0): 0% (0 of 24) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402054; RM 8.0): 0% (0 of 44) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Middle Fork Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Dexter Lake	22B-WIMF0	Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402054; RM 8.0): 0% (0 of 43) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - July 31	DEQ Data	DEQ Data (Site 402054; RM 8.0): 9% (6 of 62) September through June values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 8.7 mg/l between WY 1986 - 1995 (Cold water fishery, spawning approximately September - June).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	July 1 - August 31	DEQ Data	DEQ Data (Site 402054; RM 8.0): 0% (0 of 33) July through August values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately July - August).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 142: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402054; RM 8.0): 0% (0 of 45) FWS values exceeded pH maximum standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402054; RM 8.0): 2% (1 of 46) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 142: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data; DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 142: moderate, observation (DEQ, 1988)	USGS Data (Site near Dexter): 7 day average of daily maximums of 62.5/62.6/68.6/64.9/67.9 with 0/0/72/12/53 days exceeding temperature standard (64) in 1990/91/92/93/94 respectively.		303(d) List	
		Lookout Point Lake to Hills Creek Lake	22B-WIMF35	Flow Modification			NPS Assessment - segment 139: moderate, observation (DEQ, 1988)		No supporting data or information

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Basin <i>Willamette</i>		Sub			<i>Middle Fork Willamette</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Lookout Point Lake to Hills Creek Lake	22B-WIMF35	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site above Salt Cr): 7 day average of daily maximums of 59.0/56.2/64.1/59.8 with 0/0/6/0 days exceeding temperature standard (64) in 1990/91/92/ and 1994 respectively.	Did not meet listing criteria	OK		
Hills Creek Lake to Staley Creek	22B-WIMF54	Sedimentation			NPS Assessment - segment 138: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	303(d) List	
		Temperature	Rearing 64 F (17.8 C)	Summer	Middle Fork Willamette Watershed Analysis (1995)	USGS Data (Site at Sand Prairie; RM 54): 7 day average of daily maximums ranged from 63 (1964) to 72 (1980) and exceeded temperature standard (64) in all but 4 years between 1960 - 1987 and 1994. USFS site in 1997, 7 day ave. max. temperature was 64.7°F.				
Staley Creek to headwaters	22B-WIMF65	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data 2 Sites: Below Noisy Creek, 7 day average of daily maximum was 53.1°F in 1997 and at rd 2100-272 was 56.5 in 1997. Did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition	
Willamette River, Middle Fork, North Fork										
Christy Creek to headwaters	22B-WMFN15	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS Data site above Kiahane CG, 7 day average of daily maximum was 59.2°F in 1997. Did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition	
Willamette River, North Fork of M.F.										
Mouth to Skookum Creek	22B-WIMN0	Sedimentation			NPS Assessment - segment 130: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
Mouth to Christy Creek		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data, NPS Assessment - segment 130: moderate, data (DEQ, 1988)	USFS Data (At Westfir Water Intake, Station 18171501): 7 day average of daily maximum exceeded standard in 1984, 1985, 1986, 1987, 1988, 1989, 1990; USFS Data 2 Sites: At mouth, 7 day average of daily maximum was 69.8°F in 1997 and above Christy Creek was 64.9 in 1997. Exceeded temperature standard (64°F)		303(d) List	Addition	

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Basin <i>Willamette</i>		Sub <i>Middle Fork Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Winberry Creek Mouth to North/South Confluence	22B-WINB0	Sedimentation			NPS Assessment - segment 128: moderate, observation (DEQ, 1988)	USGS Data (above reservoir at USGS gage 14150800): 7 day average of daily maximums of 70 in 1980 and 73 in 1981 exceeded temperature standard (64) (data from 1964 - 1979 also available and exceeds standard). USFS Data (at NF Boundary, T19S-R2E-S19): 7 day average of daily maximums of 64.7 (1991), 63.4 (1993), 64.3 (1995) and 64.9°F (1997) exceeded temperature standard (64).	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS and USGS Data		303(d) List	Addition	
Winberry Creek, North Fork Mouth to Blanket Creek	22B-WINF0	Sedimentation			NPS Assessment - segment 129: moderate, data (DEQ, 1988)	USFS Data (at mouth, T19S-R2E-S19): 7 day average of daily maximums of 64.4 (1991), 63.5 (1993), 64.1 (1995) and 64.2°F (1997) exceeded temperature standard (64).	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data		303(d) List	Addition	
Blanket Creek to headwaters	22B-WINF2	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data above Blanket Creek: 7 day average of daily maximums of 61.6°F in 1997 did not exceed temperature standard (64).	Did not meet listing criteria	OK	Addition
Winberry Creek, South Fork Mouth to Headwaters	22B-WISF0	Sedimentation			NPS Assessment - segment 129: moderate, data (DEQ, 1988)	USFS Data (at mouth, T19S-R2E-S19): 7 day average of daily maximums of 65.5 (1991), 63.4 (1993), 64.3 (1995), and 60.1°F (1997) 3 out of 4 years exceeded temperature standard (64).	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data		303(d) List	Addition	
Monterica Creek to headwaters	22B-WISF3	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data two sites: Below and above Cabin Creek, 7 day average of daily maximums of 61.3/60.0°F in 1997 did not exceed temperature standard (64).	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Ash Creek, North Fork Mouth to Headwaters	22H-ASNFO	Flow Modification			NPS Assessment - segment 385: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 385 and 386: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 385: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Bashaw Creek Mouth to Headwaters	22H-BASH0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 457: severe, data (DEQ, 1988)	DEQ Data (Site 402856; RM 1.5): 50% (4 of 8) FWS values exceeded fecal coliform standard (400) with a maximum value of 4600 between WY 1983 - 1985.		303(d) List	
		Dissolved Oxygen (DO)		Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)		DEQ Data	Did not meet listing criteria	OK
		Nutrients			NPS Assessment - segment 457: moderate, data (DEQ, 1988)			No supporting data or information	Need Data
		pH		Fall-Winter-Spring	DEQ Data		DEQ Data (Site 402856, RM 1.5): 0% (0 of 7) Fall through Spring values exceeded pH standard (6.5 to 8.5) between 1983 - 1985.	Did not meet listing criteria	OK
		pH		Summer	DEQ Data		DEQ Data (Site 402856, RM 1.5): 0% (0 of 5) Summer values exceeded pH standard (6.5 to 8.5) between 1983 - 1985.	Did not meet listing criteria	OK
Battle Creek Mouth to Headwaters	22H-BATTO	Habitat Modification			NPS Assessment - segment 512: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 512: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 512: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Beaver Creek									
Mouth to Headwaters	22H-BEAV0	Flow Modification			NPS Assessment - segment 66: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 66: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 66: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 66: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 66: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Canyon Creek (Rickreall Creek)									
Mouth to headwaters	22H-CANY0	Temperature	Rearing 64 F (17.8 C)	Summer	Boise Cascade data	No temperature exceedences, 7 day Ave. Max. for 1997 was 59.8°F	Did not meet listing criteria	OK	Addition
Champoeg Creek									
Mouth to headwaters	22H-CHAM0	Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Ametryn, Atrazine, Bentazon, Bromacil, Butylate, Cycloate, Cesethylatrazine, Desisoproylatrazine, Diphenamid, Dinoseb, Diuron, Ethoprop, Fonofos, Hexazinone, Lindane, p,p' DDD, p,p' DDE, Metolachlor, Metribuzin, Napropamide, Pronamide, Simazine were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dieldrin and p,p' DDT were found once above the Oregon water quality standard. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time needed)	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Chehalem Creek Mouth to Headwaters	22H-CHEH0	Dissolved Oxygen (DO)				NPS Assessment - segment 359: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Flow Modification				NPS Assessment - segment 359: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Habitat Modification				NPS Assessment - segment 359: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Nutrients				NPS Assessment - segment 360: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature				NPS Assessment - segment 359: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Toxics	Pesticides			NPS Assessment - segment 360: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
Clark Creek Mouth to Headwaters	22H-CLAR0	Bacteria	Water Contact Recreation (E. coli) Fresh Water			City of Salem data	Two City of Salem sites 44% (7 of 16) samples exceed E. Coli bacteria standard of (406). High value was 11,700.	303(d) List	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer		City of Salem data	Two City of Salem sites in 1995/96; highest measurement was 65.3°F. Only exceed temperature standard of (64°F) once all other measurements below standard.	Did not meet listing criteria	OK
Croisan Slough Mouth to Headwaters	22H+CROI0	Habitat Modification				NPS Assessment - segment 511: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Sedimentation				NPS Assessment - segment 511: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Glenn Creek Mouth to Headwaters	22H-GLEN0	Habitat Modification			NPS Assessment - segment 403: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
McKay Reservoir Lake	22H.MCKA	Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
Mill Creek Mouth to Headwaters	22H-MILLO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	City of Salem Data; NPS Assessment - segment 64 and 65: moderate, data (DEQ, 1988)	City of Salem Data (10 sites): 32% (249 of 781) Annual values exceeded fecal coliform standard (400) between 1990 - 1994.		303(d) List	
		Flow Modification			NPS Assessment - segment 64 and 65: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 64 and 65: moderate, data (DEQ, 1988)	No supporting data or information	Need Data		
		Nutrients			NPS Assessment - segment 64 and 65: moderate, data (DEQ, 1988)	No supporting data or information	Need Data		
		pH		Year Around	City of Salem Data	City of Salem Data	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 64 and 65: moderate, data (DEQ, 1988)	No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22H-MILL0	Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dimethylphthalate was found in elevated levels, however, below the water quality standards Table 20 values. Di-n-butylphthalate was found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Sediments)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No other PAHs, Semi or Volatile Organics were detected. No pesticides were detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Alachlor, Ametryn, Atrazine, Carbofuran, Chlorpyrifos, Cyanazine, Cycloate, Desethylatrazine, Desisoproylatrazine, Dieldrin, Diuron, Ethoprop, Fonofos, Hexazinone, Metolachlor, Metribuzin, O cresol, Prometon, Propazine, Propargite, Simazine, Simetryn, terbacil, Trifluralin, Triclopyr and EPTC were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No trace metals were found in water.	Did not meet listing criteria	OK	Addition
Pringle Creek Mouth to Headwaters	22H-PRIN0	Bacteria	Water Contact Recreation (E. coli) Fresh Water		NPS Assessment - segment 95: moderate, data (DEQ, 1988); City of Salem data	Two City of Salem sites 50% (23 of 46) samples exceed E. Coli bacteria standard of (406). High value was 1330.		303(d) List	Addition
		Habitat Modification			NPS Assessment - segment 95: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Headwaters	22H-PRIN0	Temperature	Rearing 64 F (17.8 C)	Summer	City of Salem data	Two City of Salem sites in 1997; 7 day ave. max. temperatures were 63.3/ 74.3°F. Did not/did exceed temperature standard or (64°F).		303(d) List	Addition	
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Lead was found above the water quality standards, Table 20 value, once. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time are needed).	Did not meet listing criteria	Potential Concern	Addition	
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Chromium, Copper, Nickel and Zinc were found in water, but levels were below the water quality standards Table 20 values. No other trace metals were detected.	Did not meet listing criteria	OK	Addition	
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	p,p'DDT was found once above the Oregon water quality standard. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time needed)	Did not meet listing criteria	Potential Concern	Addition	
		Toxics	Water - Pesticides (Dieldrin)			USGS Data	USGS Data: (Site 14191970, at Bush Park): 2 of 3 values with an average of 0.0025 ug/l exceeded dieldrin standard (0.0019 ug/l - fresh water chronic criteria, .071 ng/l water and fish ingestion criteria) on 11/30/94 (USGS, 1995). 1996 USGS data additional 6 exceedences of 6 samples at 0.1 ug/l.		303(d) List	
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Bromacil, p,p'DDD, Desethylatrazine, Diazinon, Metolachlor, Metribuzin, Prometon, Simazine, Tebuthiuron, Triclopyr and Trifluralin were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition	
Rickreall Creek										
Mouth to Mercer Reservoir	22H-RICK0	Bacteria			Mixing Zone Study		No supporting data or information	Need Data		

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to City of Dallas WWTP	22H-RICK0	Dissolved Oxygen (DO)		Year Around	DEQ TMDL Data (DEQ, 1993); d1 in 305(b) Report (DEQ, 1994)	Rickreall Creek Water Quality Report - Baumgartner (DEQ, 1993) - Cool water fishery.	TMDL has been established for BOD, approved (4/18/94) and is being implemented	TMDL Established (4/18/94)	Segment Modification
Mouth to Mercer Reservoir		Flow Modification			USGS (1990); IWR (ODFW); WRD Data; ODFW (1990); NPS Assessment - segment 384: moderate, observation (DEQ, 1988)	Cutthroat populations are a stock of concern with low flows and high temperatures constraining populations in some coast range streams (ODFW, 92); IWR (59482) is often not met at USGS gage (14190700).		303(d) List	
		Sedimentation			NPS Assessment - segment 384: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data and model	Rickreall Creek Water Quality Report - Baumgartner (DEQ, 1993).		303(d) List	
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Cycloate, Desethylatrazine, Hexazinone, Metolachlor, Prometon, and Simazine were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No pesticides were detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Antimony, Chromium, Copper, Manganese, Nickel and Zinc were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Mercer Reservoir	22H-RICK0	Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Anthracene, Bis(2 Ethylhexyl)phthalate, Fluoranthene, Phenol and Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity. Azobenzene, Butylbenzylphthalate, Di-n-butylphthalate, Diethylphthalate, 1,6-di-methylnaphthalene, 2,6-Dimethylnaphthalene, P-cresol and Phenanthrene were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations. No other PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition
City of Dallas WWTP to Mercer Reservoir	22H-RICK10	Dissolved Oxygen (DO)		Year Around	DEQ TMDL Data (DEQ, 1993); d1 in 305(b) Report (DEQ, 1994)	Rickreall Creek Water Quality Report - Baumgartner (DEQ, 1993) - Cold water fishery.	TMDL has been established for BOD, approved (4/18/94) and is being implemented	TMDL Established (4/18/94)	
Mercer Reservoir to Headwaters	22H-RICK25	Sedimentation			NPS Assessment - segment 384: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rockhouse Creek Mouth to Headwaters	22H-ROCK0	Sedimentation			NPS Assessment - segment 402: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Sidney Canal Mouth to Headwaters	22H-SIDN0	Bacteria			NPS Assessment - segment 510: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 510: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22H-SIDN0	Sedimentation			NPS Assessment - segment 510: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Skid Creek									
Mouth to Headwaters	22H-SKID0	Sedimentation			NPS Assessment - segment 401: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Skookum Lake									
Mouth to Headwaters	22H.SKOO	Bacteria			NPS Assessment - segment 505: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 505: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Lake		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	Potential Concern	Addition
Springbrook Creek									
Mouth to Headwaters	22H-SPRI0	Bacteria			NPS Assessment - segment 361: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22H-SPRI0	Dissolved Oxygen (DO)			NPS Assessment - segment 361: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 361: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 361: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Pesticides		NPS Assessment - segment 361: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Willamette River									
Willamette Falls to Yamhill River	22--WILL026.7	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (2 Sites: 402007, 402010; RM 34.4, 48.6): 0% (0 of 31), 2% (1 of 50) Summer values respectively exceeded fecal coliform standard (400) with a maximum value of 920 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 104 and 454: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 402007, 402010; RM 34.4, 48.6): 17% (7 of 41), 26% (17 of 66) FWS values respectively exceeded fecal coliform standard (400) with maximum values of 1600, 2400 between WY 1986 - 1995.		303(d) List	
		Biological Criteria	Fish Skeletal Deformities		Tetra Tech (5/1995)	Tetra Tech (5/95): The incidence of skeletal deformities (from 22.6 to 74%) in juvenile squawfish collected between RM 25.5 - 51 in 1993 and 1994 were significantly higher than those measured in upper river or reference site, cause is unknown.		303(d) List	
		Chlorophyll a		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 104 and 454: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 402007, 402010; RM 34.4, 48.6): 14% (5 of 37), 2% (1 of 55) Summer values respectively exceeded chlorophyll a (15 ug/l) with maximum values of 20, 17 between WY 1986 - 1995.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Willamette Falls to Yamhill River	22=-WILL026.7	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ Data; NPS Assessment - segment 104: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 402007, 402010; RM 34.4, 48.6): 0% (0 of 81) and 0% (0 of 128) Annual values respectively exceeded dissolved oxygen standard (6.5 mg/l) between WY 1986 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK		
		Nutrients				NPS Assessment - segment 104 and 454: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites: 402007, 402010; RM 34.4, 48.6): 0% (0 of 40, 66) FWS values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH			Summer	DEQ Data	DEQ Data (2 Sites: 402007, 402010; RM 34.4, 48.6): 0% (0 of 38, 58) Summer values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data; USGS Data; NPS Assessment - segment 104: moderate, observation (DEQ, 1988)	DEQ Data (2 Sites: 402007, 402010; RM 34.4, 48.6): 62% (23 of 37); 60% (36 of 60) Summer values exceeded temperature standard (68) with a maximum of 80.6 and exceedences measured each year between WY 1986 - 1995.			303(d) List	
		Toxics	Tissue - Mercury	Year Around	Health Division Consumption Health Advisory (1997)	Health Division Consumption Health Advisory issued for Mercury in fish tissue (.63 ppm) based on data collected since 1969; Reference level (.35 ppm)			303(d) List	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Copper, Manganese, Nickel, and Zinc were found in water, but levels were below the water quality standards Table 20 values. No other trace metals were detected.		Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette Falls to Yamhill River	22=-WILL026.7	Toxics	Tissue and Water Column - 2,3,7,8-TCDD		EPA (91); DEQ Data; 1994 304(l) list, Part A/B	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL has been established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
		Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Benzo(A)anthracene, Benzo(GH)perylene, Benzo(K)fluoranthene, Benzo(A)pyrene, Bis(2Ethylhexyl)phthalate, Chrysene, Fluoranthene, and Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No other PAHs, Semi or Volatile Organics were detected. Chromium, Copper, Manganese, Nickel, Zinc were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette Falls to Yamhill River	22=-WILL026.7	Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No pesticides were detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Water)	Year Around	NPS Assessment - segment 104: moderate, observation (DEQ, 1988); Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Diazinon, Metolachlor and Simazine were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
Yamhill River to Santiam River	22=-WILL055	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (3 Sites: 402012, 402014, 402226; RM 71.9 - 84.0): 0% (0 of 26, 25, 16) Summer values respectively exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 103: moderate, data (DEQ, 1988)	DEQ Data (3 Sites; 402012, 402014, 402226; RM 71.9 - 84.0): 21% (10 of 48); 29% (11 of 38); 15% (4 of 27) FWS values respectively exceeded fecal coliform standard (400) with maximum values of 2400, 24,00, 1600 between WY 1986 - 1995. City of Salem data also available.		303(d) List	
		Biological Criteria	Fish Skeletal Deformities		Tetra Tech (5/1995)	Tetra Tech (5/95): The incidence of skeletal deformities (21.7%) in juvenile squawfish collected in 1994 at RM 72 were significantly higher than those measured in either the upper river or reference site, cause of the deformities is unknown.		303(d) List	
		Chlorophyll a		Summer	DEQ Data; Salem Data	DEQ Data (3 Sites: 402012, 402014, 402226; RM 71.9 - 84.0): 0% (0 of 42, 41, 14) Summer values respectively exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	DEQ Data; Salem Data; NPS Assessment - segment 103: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 402012, 402226; RM 71.9, 84): 2% (2 of 96), 0% (0 of 45) Annual values respectively exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 7.4 mg/l (84% sat) between 86-95 (Cold water fishery, annual rearing).	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96		
Name & Description	Waterbody Segment	Parameter	Criteria	Season							
Yamhill River to Santiam River	22--WILL055	Flow Modification			NPS Assessment - segment 103: moderate, data (DEQ, 1988)		No supporting data or information	Need Data			
		Nutrients			NPS Assessment - segment 103: moderate, data (DEQ, 1988)		No supporting data or information	Need Data			
		pH			Summer	DEQ Data; Salem Data	DEQ Data (3 Sites: 402012, 402014, 402226; RM 71.9 - 84.0): 0% (0 of 45, 41, 17) Summer values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		pH			Fall-Winter-Spring	DEQ Data; Salem Data	DEQ Data (3 Sites: 402012, 402014, 402226; RM 71.9 - 84.0): 0% (0 of 47, 35, 27) FWS values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Sedimentation				NPS Assessment - segment 103: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)			Summer	DEQ Data (Temperature Issue Paper, 1994); City of Salem Data; NPS Assessment - segment 103: moderate, data (DEQ, 1988)	DEQ Data (2 Sites: 402012, 402226; RM 71.9, 84.0): 82% (37 of 45) and 65% (11 of 17) Summer values respectively exceeded temperature standard (64) with exceedences each year and a maximum of 81.5 in WY 1986 - 1995. City of Salem data also available.		303(d) List	
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)			Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides				NPS Assessment - segment 103: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Tissue - Mercury			Year Around	Health Division Consumption Health Advisory (1997)	Health Division Consumption Health Advisory issued for Mercury in fish tissue (.63 ppm) based on data collected since 1969; Reference level (.35 ppm)		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Middle Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Yamhill River to Santiam River	22=-WILL055	Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
		Toxics	Tissue and Water Column - 2,3,7,8-TCDD		EPA (91); DEQ Data; 1994 304(l) list, Part A/B	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL has been established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Beaver Creek Mouth to Headwaters	22K-BEAV0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	E&S (1995)	E&S (1995)	Did not meet listing criteria	OK	
Butte Creek Mouth to Coal Creek	22K-BUTTO	Flow Modification			NPS Assessment - segment 105: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Drift Creek Mouth to Headwaters	22K-DRIF0	Nutrients			NPS Assessment - segment 62: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 62: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 62: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Little Abiqua Creek Mouth to Headwaters	22K-ABLI0	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site near Scotts Mills): 7 day average of daily maximums of 62.6 and 64.3 with 1 and 4 days exceeding temperature standard (64) in 1993 and 1994 respectively. 1994 data was not used because it was a drought year and a second year's data was available which was below the temperature criteria.	Did not meet listing criteria	OK	
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Little Pudding River Mouth to Headwaters	22K-PULI0	Bacteria			TMDL Study		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			TMDL Study		No supporting data or information	Need Data	
Mill Creek Mouth to Headwaters	22K-MILLO	Flow Modification			NPS Assessment - segment 383: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 383: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 383: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Molalla River Mouth to North Fork Molalla	22K-MOLA0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (2 Sites: 402314, 402029; RM 2.5, 3.5): 0% (0 of 7, 20) Summer values respectively exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 402314, 402029; RM 2.5, 3.5): 21% (3 of 14), 11% (4 of 37) FWS values respectively exceeded fecal coliform standard (400) with maximum values of 1100, 1100 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (2 Sites: 402314, 402029; RM 2.5, 3.5): 0% (0 of 6, 36) Summer values respectively exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	March 1 - August 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (2 Sites: 402314, 402029; RM 2.5, 3.5): 0% (0 of 15), 7% (0 of 42) March - August values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 7.7 mg/l (81%) between WY 86 - 95 (Cool water fishery, rearing approx. Mar - Aug).	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to North Fork Molalla	22K-MOLA0	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - February 28	DEQ Data	DEQ Data (2 Sites: 402314, 402029; RM 2.5, 3.5): 12% (1 of 8), 10% (3 of 31) Sep - Feb values exceeded dissolved oxygen standard (11.0 mg/l or 95% sat) with a minimum of 8.5 mg/l (92% sat) between WY 86-95 (Cold water fishery, spawning approx. Sep - Feb).	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites: 402314, 402029; RM 2.5, 3.5): 0% (0 of 14, 37) Summer values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (2 Sites: 402314, 402029; RM 2.5, 3.5): 0% (0 of 7, 36) Summer values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 54: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 54: moderate, data (DEQ, 1988)	DEQ Data (Site 402029; RM 3.5): 89% (32 of 36) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 81.5 in WY 1986 - 1990.		303(d) List	
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Cycloate, EPTC and Simazine were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	No supporting data or information	OK	
North Fork Molalla to Table Rock Fork	22K-MOLA26.3	Bacteria	Water Contact Recreation (fecal coliform-96 Std)		BLM data	Three BLM sites: 1993 to 96 no exceedence of the fecal coliform bacteria standard (400), high value was 47.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
North Fork Molalla to Table Rock Fork	22K-MOLA26.3	pH			BLM data	Three BLM sites: 1993 to 96 no exceedence of the pH standard of 6.5 to 8.5.	Did not meet listing criteria	OK	Addition
North Fork Molalla to Pine Creek		Sedimentation			NPS Assessment - segment 55: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
North Fork Molalla to Table Rock Fork		Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Several BLM sites: in 1993 below Table Rock Fork, 7 day ave. max Temperature was 68.0°F and above North Fork 62.2°F; in 1994 above North Fork was 75.6°F; in 1996 above North Fork 73.0°F; below Table Rock Fork at Horse Creek Bridge 69.4°F. All by one exceed temperature standard (64).		303(d) List	Addition
Molalla River, North Fork									
Mouth to Headwaters	22K-MONF0	Sedimentation			NPS Assessment - segment 55: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Molalla River, South Fork									
Table Rock Fork to Headwaters	22K-MOSF0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site: in 1996 above Table Rock Fork, 7 day ave. max Temperature was 67.6°F, exceed temperature standard (64).		303(d) List	Addition
Pine Creek									
Mouth to Headwaters	22K-PINE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site: in 1996 at mouth, 7 day ave. max Temperature was 67.6°F, exceed temperature standard (64).		303(d) List	Addition
Pudding River									
Mouth to Little Pudding River	22K-PUDD0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); E&S(1995); NPS Assessment - segment 58: severe, data (DEQ, 1988)	DEQ Data (4 Sites: 402594, 404207, 402317, 402319; RM 8.1 - 26.9): 8% (3 of 39); 7% (1 of 14); 9% (2 of 22); 20% (3 of 15) Summer values exceeded fecal coliform standard (400) with maximum values of 460, 460, 460, 1100 respectively between 1987 - 1995.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Little Pudding River	22K-PUDD0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); E&S(1995); NPS Assessment - segment 58: severe, data (DEQ, 1988)	DEQ Data (4 Sites: 402594, 404207, 402317, 402319; RM 8.1 - 26.9): 38% (22 of 58); 37% (8 of 23); 24% (9 of 37); 26% (6 of 23) FWS values exceeded fecal coliform standard (400) with maximum values of 2400, 1600, 1600, 1600 respectively between WY 86 - 95.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (4 Sites: RM 8.1 - 26.9): 0% (0 of 51, 12, 30, 12) Summer values respectively exceeded chlorophyll a standard (15 ug/l) between 1987 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 58: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402594, 402317; RM 8.1, 22.4): 4% (5 of 117) and 13% (11 of 83) Annual values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 4.9 mg/l between WY 1986 - 1995 (Cool water fishery, annual).	TMDL has been established for BOD and Ammonia, approved (10/18/93) and is being implemented	TMDL Approved (10/18/93)	
		Nutrients			NPS Assessment - segment 58: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (4 Sites: 402594, 404207, 402317, 402319; RM 8.1 - 26.9): 0% (0 of 52, 14, 40, 12) Summer values respectively exceeded pH standard (6.5 - 8.5) between 1987 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (4 Sites: 402594, 404207, 402317, 402319; RM 8.1 - 26.9): 0% (0 of 57, 22, 37, 22) FWS values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 58: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data; DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 58: moderate, data (DEQ, 1988)	USGS Data (Site at Aurora): 7 day average of daily maximums of 73.5/70.2 with 41/112 days exceeding temp standard (64) in 93/94 respectively; DEQ (402594; RM 8.1): 87% (48 of 55) Summer values exceeded standard with exceedences each year between 86 -		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Little Pudding River	22K-PUDD0	Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Sediments)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	p,p'DDD, p'p' DDE, p,p' DDT were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.	Did not meet listing criteria	OK	Addition
		Toxics	Water - Pesticides (DDT)				USGS (1995)	No other pesticides were detected in sediment. USGS Data: (Site 14202000, at Aurora): 2 of 4 values, at or above detection, with an average of 0.0015 ug/l exceeded DDT standard (0.001 ug/l - fresh water chronic criteria, .024 ng/l water and fish ingestion criteria) between 5/25 - 11/9/94 (USGS, 1995).	

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Little Pudding River	22K-PUDD0	Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	USGS Data chlopyrfos, dieldrin, lindane and malathion were detected, but not above water quality standards. No beneficial use impairment studies available.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Bromacil, Cycloate, Desethylatrazine, Desisopropylatrazine, Diphenamid, Diazinon, Diuron, DCPA, EPTC, Ethoprop, Fonofos, Hexazinone, Malathion, Metolachlor, Metribuzin, Napropamide, Pronamide, Prometryn, Propachlor, Propazine, p,p' DDE, Simazine and Terbacil were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Iron and Manganese were found above the water quality standards, Table 20 value, once. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time are needed).	Did not meet listing criteria	Potential Concern	Addition
Little Pudding River to Headwaters	22K-PUDD36.8	Bacteria			NPS Assessment - segment 58: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402560; RM 39.3): 0% (0 of 9) Summer values exceeded chlorophyll a standard (15 ug/l) in 1987.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 58: severe, data (DEQ, 1988)	DEQ TMDL Studies	TMDL has been established for BOD and Ammonia, approved (10/18/93) and is being implemented	TMDL Approved (10/18/93)	

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Little Pudding River to Headwaters	22K-PUDD36.8	Nutrients			NPS Assessment - segment 58: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (Site 402560; RM 39.3): 0% (0 of 9) Summer values exceeded pH standard (6.5 - 8.5) in 1987.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 58: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 58: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Rock Creek Mouth to Headwaters	22K-ROCK0	Flow Modification			NPS Assessment - segment 57: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 57: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 57: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 57: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 57: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Silver Creek Mouth to above Silverton	22K-SILV0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; E&S(1995); d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402323; RM 1.2): 33% (3 of 9) Summer values exceeded fecal coliform standard (400) with a maximum value of 1100 between 1989 - 1993.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Silverton	22K-SILV0	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994), DEQ data	DEQ Data: Site at Brush Road from 1989 to 1993, (0 of 15) samples violated the 6.5 mg/l DO standard (low was 6.8 mg/l). Intensive study done in 1993 at 15 sites on Silver Creek no samples violated DO 6.5 mg/l standard (low was 8.0 mg/l)	Did not meet listing criteria	OK	Removed (5)
Mouth to above Silverton		Nutrients			NPS Assessment - segment 63: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Summer	DEQ Data	DEQ Data (Site 402323; RM 1.2): 0% (0 of 10) Summer values exceeded pH standard (6.5 - 8.5) between 1989 - 1993.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 63: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 63: moderate, data (DEQ, 1988)	DEQ Data (Site 402323; RM 1.2): 70% (7 of 10) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 73.4 in WY 1989, 1992 - 1993.		303(d) List	
Table Rock Fork Molalla River									
Mouth to Headwaters	22K-TRFM0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site: in 1996 at mouth, 7 day ave. max Temperature was 67.1°F, exceed temperature standard (64).		303(d) List	Addition
Zollner Creek									
Mouth to Headwaters	22K-ZOLL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; E&S(1995); d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402576; RM 0.4): 50% (7 of 14) Summer values exceeded fecal coliform standard (400) with a maximum value of 1600 between 1989 - 1992.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; E&S(1995); d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402576; RM 0.4): 83% (19 of 23) FWS values exceeded fecal coliform standard (400) with a maximum value of 1600 between 1889 - 1992.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402576; RM 0.4): 0% (0 of 12) Summer values exceeded chlorophyll a standard (15 ug/l) between 1989 - 1992.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22K-ZOLL0	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402576; RM 0.4): 13% (5 of 38) Annual values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 4.7 mg/l between WY 1989 - 1992 (Cool water fishery, annual).		303(d) List	
		pH		Summer	DEQ Data	DEQ Data (Site 402576; RM 0.4): 0% (0 of 13) Summer values exceeded pH standard (6.5 - 8.5) between 1989 - 1992.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402576; RM 0.4): 0% (0 of 22) FWS values exceeded pH standard (6.5 - 8.5) between 1989 - 1992.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data; DEQ Data (Temperature Issue Paper, 1994)	USGS Data (Site near Mt. Angel): 7 day average of daily maximums of 69.7 and 73.9 with 35 and 63 days exceeding temperature standard (64) in 1993 and 1994 respectively.		303(d) List	
		Toxics	Medals (Water)(Manganese)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Manganese found above water quality standard (50ug/l, Table 20) 2/2 times, range 170 ug/l.		303(d) List	Addition

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22K-ZOLL0	Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Malathion was found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>Diazinon was found, however, there are no well established guidelines available for evaluating risks for sediment, nor have there been any beneficial use impairment evaluations.</p> <p>No other pesticides were detected in the sediment.</p>	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Medals (Water)(Arsenic)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Arsenic found above water quality standard (2.2ng/l, Table 20) 2/2 times, range 1.0 ug/l.		303(d) List	Addition
		Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Diethylphthalate was found in elevated levels, however, below the water quality standards Table 20 values.	Did not meet listing criteria	OK	Addition
		Toxics	Medals (Water)(Iron)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No other PAHs, Semi or Volatile Organics were detected. Iron found above water quality standard (300ug/l, Table 20) 2/2 times, range 570 to 1800 ug/l.		303(d) List	Addition
		Toxics	Medals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Antimony, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver and Zinc were either not found or were below the water quality standards Table 20 value.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Molalla/Pudding</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22K-ZOLL0	Toxics	Pesticides (Water) chlorpyrifos and dieldrin	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>USGS Data found 1 of 32 samples (3%) for chlorpyrifos and 2 of 32 (6%) for dieldrin were above the Oregon water quality standard. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time needed) . Lindane and malathion were detected, but not above water quality standards.</p> <p>Atrazine, Diazinon were detected once above a guidance level, does not have a water quality standard or meets the minimum data requirements of 2 exceedences.</p> <p>Bentazon, 2,4,D, MCPA, Dinoseb, Diuron, Dicamba, Bromoxynil, Carbofuran, Dieldrin, p,p'DDE, p,p' DDT, Endosulfan, Ethoprop, Fonofos, Metribuzin, Prometon, Simazine, Cycloate, Desethylatrazine, Desisoproylatrazine, Diphenamid, Hexazinone, Metolachlor, Metribuzin, Propazine, Terbacil, Trifluralin, Triclopyr, Vernolate were found but either do not have or were below any water quality standard, guidance level or criteria. Other pesticides not detected.</p>	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>North Santiam</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Blowout Creek Mouth to Headwaters	22G-BLOW0	Sedimentation			NPS Assessment - segment 98: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 98: moderate, observation (DEQ, 1988)	USFS Data (2 Sites: Rd 10 Br and Rd 10058 nr Ivy Cr): 7 day average of daily maximums of 62.5/64.7/nd/63/69.6/68.2°F and nd/nd/58.3/57.1/64.5/63.7°F with 3 out of 5 years and 1 out of 4 years respectively exceeding temperature standard (64) in 1991/92/93/94/96/97.		303(d) List	Addition	
Boulder Creek Mouth to unnamed trib in T10S,R6E,S10,SE1/4	22G-BOUL0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at Hwy 22): 7 day average of daily maximums of 64.5 with 21 days exceeding temperature standard (64) in 1990.		303(d) List		
Breitenbush River Mouth to North/South Forks	22G-BREI0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.		City of Salem data	City of Salem, site 1995/96 data DO measurements met the standard of (8 mg/l). No exceedence of standard, lowest value 9.6 mg/l.	Did not meet listing criteria	OK	Addition	
		Flow Modification			NPS Assessment - segment 89: severe, data (DEQ, 1988)		No supporting data or information	Need Data		
		Habitat Modification			NPS Assessment - segment 89: severe, data (DEQ, 1988)		No supporting data or information	Need Data		
		Nutrients			NPS Assessment - segment 89: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		pH				City of Salem data	City of Salem, site 1995/96 data, pH measurements were within standard of (6.5 to 8.5).	Did not meet listing criteria	OK	Addition
		Sedimentation				NPS Assessment - segment 89: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 89: moderate, data (DEQ, 1988)	USFS Data (1 Site): 7 day average of daily maximums of 64 with 12 days exceeding temperature standard (64) in 1990. City of Salem data also available.	Did not meet listing criteria	OK		

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Basin <i>Willamette</i>		Sub <i>North Santiam</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Breitenbush River, North Fork									
Mouth to Wilderness Boundary	22G-BRNF0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 90: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)		NPS Assessment - segment 90: severe, data (DEQ, 1988); City of Salem data	City of Salem site at mouth for 1995/96 met fecal coliform bacteria standard (400), highest value was 10.	Did not meet listing criteria	OK	Status Modification
		Flow Modification			NPS Assessment - segment 90: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 90: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 90: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 90: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 90: moderate, data (DEQ, 1988)	USFS Data (1 Site): 7 day average of daily maximums of 59.0 and 58.9 with 0 and 0 days exceeding temperature standard (64) in 1989 - 1990 respectively.	Did not meet listing criteria	OK	
Breitenbush River, South Fork									
Mouth to Headwaters	22G-BRSF0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 91: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 91: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 91: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 91: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 91: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub		<i>North Santiam</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22G-BRSF0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data; NPS Assessment - segment 91: moderate, data (DEQ, 1988)	USFS Data (1 Site): 7 day average of daily maximums of 52.9 with 0 days exceeding temperature standard (64) in 1989.	Did not meet listing criteria	OK	
Cedar Creek									
Mouth to headwaters	22G-CEDA0	Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
Detroit Reservoir									
Reservoir	22G.DETR	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 93: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Bacteria			NPS Assessment - segment 93: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 93: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 93: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Devils Creek									
Mouth to Headwaters	22G-DEV10	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 92: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 92: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 92: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>North Santiam</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22G-DEVI0	Nutrients			NPS Assessment - segment 92: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 92: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 92: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Divide Creek Mouth to Headwaters	22G-DIVI0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 1011): 7 day average of daily maximums of 56.3/55.6/56.4/62.8°F did not exceed temperature standard (64) in 1991/94/96/97 respectively.	Did not meet listing criteria	OK	
Elkhorn Creek Mouth to Headwaters	22G-ELKH0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	BLM site in 1995/96: RM 1, 7 day ave. max. temperature was 63.9/65.7°F; exceeded the temperature standard (64°F) in 1996.		303(d) List	Addition
French Creek Mouth to headwaters	22G-FRENO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)		City of Salem	City of Salem, site 1995/96 data, Fecal Coliform bacteria measurements were below standard of (400). No exceedence of standard, highest value was 97.	Did not meet listing criteria	OK	Addition
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.		City of Salem	City of Salem, site 1995/96 data DO measurements met the standard of (8 mg/l). No exceedence of standard, lowest value was 6.9 (only once) all other measurements at or above 9.6 mg/l.	Did not meet listing criteria	OK	Addition
		pH			City of Salem	City of Salem, site 1995/96 data pH measurements were within standard of (6.5 to 8.5).	Did not meet listing criteria	OK	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	City of Salem	City of Salem site in 1995/96; highest measurement was 56.1°F. Did not/did exceed temperature standard or (64°F).	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>North Santiam</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Humbug Creek, East Mouth to Headwaters	22G-HUE0	Sedimentation			NPS Assessment - segment 150: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 62.1/61.6°F in 1996/97 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition
Ivy Creek Mouth to Headwaters	22G-IVY0	Temperature	Rearing 64 F (17.8 C)	Summer	USFS Data	USFS Data (Site at FSR 10): 7 day average of daily maximums of 55.4/54.1/55.8/59.2°F 0 days exceeded temperature standard (64) in 1993/94/96/97 respectively.	Did not meet listing criteria	OK	
Little North Santiam River Mouth to Headwaters	22G-SANL0	Bacteria			NPS Assessment - segment 60 and 61: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 60: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 149: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 61: moderate, observation (DEQ, 1988); BLM data	Three BLM sites in 1996: RM 3, RM 10 and RM 15, 7 day ave. max. temperature was 76.1/73.4/69.6°F; Same sites in 1995 were 74.5/72.5/68.5°F all three sites both years exceeded the temperature standard (64°F)		303(d) List	Addition
Marion Creek Mouth to Headwaters	22G-MAR10	Temperature	Rearing 64 F (17.8 C)	Summer	USFS data	USFS site: 7 day ave. max stream temperature was 59.0/58.3°F in 1996/97 did not exceed temperature standard (64°F)	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>North Santiam</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Santiam River									
Mouth to North/South Forks	22G-SANT0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	DEQ Data	DEQ Data	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402452, RM 9.6): 2% (1 of 43) FWS values exceeded pH standard (6.5 - 8.5) with a minimum of 6.4 between WY 80 - 85.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402452, RM 9.6): 0% (0 of 20) Summer values exceeded pH standard (6.5 - 8.5) between WY 80 - 85.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994)	DEQ Data (Site 402033; RM 6.0): 79% (11 of 14) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 74.3 in WY 1987.			303(d) List
		Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Bis(2 Ethylhexyl)phthalate, Fluoranthene, Phenol and Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity. Butylbenzylphthalate, Di-n-butylphthalate, Diethylphthalate and 2,6-Dimethylnaphthalene were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations. No other PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>North Santiam</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to North/South Forks	22G-SANT0	Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Arsenic, Chromium, Copper, Manganese and Nickel were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Cycloate and Metolachlor were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No pesticides were detected in the sediment.	Did not meet listing criteria	OK	Addition
Santiam River, North									
Mouth to Little North Santiam	22G-SAN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 86: moderate, data (DEQ, 1988)	DEQ Data (Site 402469; RM 2.9): 0% (0 of 24) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	DEQ Data; NPS Assessment - segment 86: moderate, data (DEQ, 1988)	DEQ Data (Site 402469; RM 2.9): 7% (3 of 43) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995. City of Salem data also available for 1995/96.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data; NPS Assessment - segment 86: moderate, observation (DEQ, 1988)	DEQ Data (Site 402469; RM 2.9): 0% (0 of 34) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>North Santiam</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Little North Santiam	22G-SAN0	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - July 31	DEQ Data	DEQ Data (Site 404469; RM 2.9): 5% (4 of 72) September through July values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) between WY 86 - 95 (Cold water fishery, spawning approximately September through July). City of Salem data also available for 1995/96.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Year Around	DEQ Data; City of Salem	DEQ Data (Site 402469; RM 2.9): 0% (0 of 11) August values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately August). City of Salem data also available for 1995/96: five sites lowest DO reading 6.4 mg/l (1 time) all others readings 9.4 and above.	Did not meet listing criteria	OK	Status Modification	
		Flow Modification			NPS Assessment - segment 85: severe, data (DEQ, 1988)			No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402469; RM 2.9): 0% (0 of 42) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995. City of Salem data also available for 1995/96.	Did not meet listing criteria	OK		
		pH		Summer	DEQ Data	DEQ Data (Site 402469; RM 2.9): 3% (1 of 36) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995. City of Salem data also available for 1995/96.	Did not meet listing criteria	OK		
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994)	DEQ Data (Site 402469; RM 2.9): 39% (14 of 36) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 71.6 in WY 1986 - 1995. City of Salem data also available for 1995/96.		303(d) List		
Little North Santiam to Detroit Reservoir	22G-SAN27.5	Bacteria	Water Contact Recreation (fecal coliform-96 Std)		City of Salem	City of Salem, 5 sites 1995/96 data Fecal Coliform bacteria measurements were below standard of (400). No exceedence of standard, highest value was 120.	Did not meet listing criteria	OK	Addition	

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Basin <i>Willamette</i>		Sub <i>North Santiam</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Little North Santiam to Detroit Reservoir	22G-SAN27.5	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.		City of Salem	City of Salem, 5 sites 1995/96 data DO measurements met the standard of (8 mg/l). No exceedence of standard, lowest value was 9.2 mg/l.	Did not meet listing criteria	OK	Addition
		pH			City of Salem	City of Salem, 5 sites 1995/96 data pH measurements were within standard of (6.5 to 8.5).	Did not meet listing criteria	OK	Addition
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data; City of Salem	USGS Data (Site at Niagara): 7 day average of daily maximums of 57.2/56.7/56.3/57.1/57.2 with 0 days exceeding temperature standard (64) in 1991/92/93/94 respectively. City of Salem, 5 sites 1995/96 data highest measurement was 60.4°F at RM 31. No measurements exceeded temperature standard (64°F) .	Did not meet listing criteria	OK	
Detroit Reservoir to Big Meadows	22G-SAN59	Sedimentation			NPS Assessment - segment 87: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data; NPS Assessment - segment 87: moderate, observation (DEQ, 1988)	DEQ Data (Site 405325, Cooper's Ridge Rd): 7 day average of daily maximums of 59.4 did not exceed temperature standard (64) in 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>South Santiam</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Beaver Creek Mouth to Headwaters		22F-BEAV0							
		Flow Modification			NPS Assessment - segment 67: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 67: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 67: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 67: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Canyon Creek Mouth to Headwaters		22F-CANY0							
		Aquatic Weeds or Algae	Algae		NPS Assessment - segment 109: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 109: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 108 and 109: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Crabtree Creek Mouth to White Rock Creek		22F-CRAB0							
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	South Santiam Watershed Council (SSWC) Data	Two SSWC sites in 1997, met DO standard for aquatic life of 8 mg/l. Low DO value three rep. mean was 8.3 mg/l.	Did not meet listing criteria	OK	Addition
		Flow Modification			NPS Assessment - segment 68: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			South Santiam Watershed Council (SSWC) Data	Two SSWC sites in 1997, met pH standard (6.5 to 8.5).	Did not meet listing criteria	OK	Addition
		Sedimentation			NPS Assessment - segment 68 and 69: moderate, observation/data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>South Santiam</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to White Rock Creek	22F-CRAB0	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 68: moderate, data (DEQ, 1988); USGS data; South Santiam Watershed Council (SSWC) Data	USGS data near Scio in 1985, 7 day ave. max. temperature was 80.6°F, exceeded temperature standard of (64°F) . SSWC data in 1997, 7 day ave. max temperature was 77.9°F.		303(d) List	Addition
Gold Creek Green Peter Reservoir to Headwaters	22F-GOLD0	Sedimentation			NPS Assessment - segment 97: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Hamilton Creek Mouth to Deer Creek	22F-HAMI0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	South Santiam Watershed Council (SSWC) 1997	SSWC site in 1997, met DO standard for aquatic life of 8 mg/l. Low DO value three rep. mean was 9.2 mg/l, met DO standard.	Did not meet listing criteria	OK	Addition
		Flow Modification			NPS Assessment - segment 76: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH			South Santiam Watershed Council (SSWC) 1997	SSWC site in 1997, met pH standard (6.5 to 8.5).	Did not meet listing criteria	OK	Addition
		Sedimentation			NPS Assessment - segment 76: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 76: moderate, data (DEQ, 1988); South Santiam Watershed Council (SSWC) 1997	SSWC site in 1997, 7 day ave. max temperature was 78.4°F, exceeded temperature standard or (64°F) .		303(d) List	Addition
McDowell Creek Mouth to Deer Creek	22F-MCDO0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	South Santiam Watershed Council (SSWC) 1997	SSWC site in 1997, met DO standard for aquatic life of 8 mg/l. Low DO value three rep. mean was 9.3 mg/l, met DO standard.	Did not meet listing criteria	OK	Addition
		pH			South Santiam Watershed Council (SSWC) 1997	SSWC site in 1997, met pH standard (6.5 to 8.5).	Did not meet listing criteria	OK	Addition
Mouth to Cedar Creek		Temperature	Rearing 64 F (17.8 C)	Summer	South Santiam Watershed Council (SSWC) 1997	SSWC site in 1997, 7 day ave. max temperature was 74.8°F, exceeded temperature standard or (64°F) .		303(d) List	Addition

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Basin <i>Willamette</i>		Sub <i>South Santiam</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Moose Creek									
Mouth to Headwaters	22F-MOOS0	Habitat Modification			NPS Assessment - segment 106: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 106: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 106: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Pyramid Creek									
Mouth to Headwaters	22F-PYRA0	Sedimentation			NPS Assessment - segment 83: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 83: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Quartzville Creek									
Green Peter Reservoir to Headwaters	22F-QUAR0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	BLM data	Four BLM sites between reservoir and Galena Creek; 1991 to 1996 no exceedences of fecal coliform bacteria standard (400) high value was 108.	Did not meet listing criteria	OK	Addition
		Habitat Modification			NPS Assessment - segment 96: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		pH			BLM data	Four BLM sites between reservoir and Galena Creek; 1991 to 1996, 7% (4 of 59) exceedences of pH standard (6.5 to 8.5400) low value 6.06.	Did not meet listing criteria	OK	Addition
		Sedimentation			NPS Assessment - segment 96: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Four BLM sites between reservoir and Galena Creek; in 1993, 7 day ave. max. temperature was 64.4°F; 1994 was 68/71.6°F; in 1995 was 66.6/71.1°F; in 1996 was 74.7°F, all years all sites exceeded temperature standard (64)		303(d) List	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>South Santiam</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Santiam River, Middle Green Peter Reservoir to Headwaters	22F-SAM0	Habitat Modification			NPS Assessment - segment 82: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 82: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 82: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Santiam River, South Mouth to McDowell Creek	22F-SAS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402034; RM 7.6): 0% (0 of 23) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 79: moderate, data (DEQ, 1988)	DEQ Data (Site 402034; RM 7.6): 16% (7 of 45) FWS values exceeded fecal coliform standard (400) between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (2 Sites: 402033, 402034; RM 6.0, 7.6): 0% (0 of 14, 32) Summer values respectively exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - July 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402034; RM 7.6): 2% (1 of 71) September through July values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 8.8 mg/l between WY 86 - 95 (Cold water fishery, spawning approximately September through July).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		August	DEQ Data	DEQ Data (Site 402034; RM 7.6): 0% (0 of 10) August values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately August).	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>South Santiam</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to McDowell Creek	22F-SAS0	pH		Summer	DEQ Data	DEQ Data (2 Sites: 402033, 402034; RM 6.0, 7.6): 0% (0 of 14, 34) Summer values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402034; RM 7.6): 0% (0 of 44) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 79: moderate, data (DEQ, 1988)	DEQ Data (Site 402034; RM 7.6): 41% (14 of 34) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 70.2 in WY 1986 - 1995.			303(d) List
McDowell Creek to Foster Reservoir	22F-SAS27.8	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402034; RM 7.6): 0% (0 of 23) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site near Foster): 7 day average of daily maximums of 59.3, 56.7, 56.7, 59.9, and 56.4 with 0, 0, 0, 0, and 0 days exceeding temperature standard (64) in 1990 - 1994	Did not meet listing criteria	OK	
Foster Reservoir to	22F-SAS44	Habitat Modification			NPS Assessment - segment 80 and 110: moderate, data/observation (DEQ, 1988)		No supporting data or information		Need Data
		Sedimentation			NPS Assessment - segment 80 and 110: moderate, data/observation (DEQ, 1988)		No supporting data or information		Need Data
		Temperature			NPS Assessment - segment 80 and 110: moderate, data/observation (DEQ, 1988)		No supporting data or information		Need Data
Soda Creek Mouth to Headwaters	22F-SODA0	Habitat Modification			NPS Assessment - segment 81: moderate, data (DEQ, 1988)		No supporting data or information		Need Data
		Sedimentation			NPS Assessment - segment 81: moderate, data (DEQ, 1988)		No supporting data or information		Need Data

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Basin <i>Willamette</i>		Sub <i>South Santiam</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22F-SODA0	Temperature			NPS Assessment - segment 81: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Squaw Creek									
Mouth to Headwaters	22F-SQUA0	Habitat Modification			NPS Assessment - segment 110: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 110: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 110: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Thomas Creek									
Mouth to Neal Creek	22F-THOM0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	Summer	South Santiam Watershed Council (SSWC) Data	Two SSWC sites in 1997, met DO standard for aquatic life of 8 mg/l. Low DO value three rep. mean was 7.0 mg/l. Only one exceedence of DO standard.	Did not meet listing criteria	Potential Concern (Need data)	Addition
		Flow Modification			NPS Assessment - segment 70: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 70: moderate, data (DEQ, 1988);		No supporting data or information	Need Data	
		pH			South Santiam Watershed Council (SSWC) Data	Two SSWC sites in 1997, met pH standard (6.5 to 8.5).	Did not meet listing criteria	OK	Addition
		Sedimentation			NPS Assessment - segment 70: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 70: moderate, data (DEQ, 1988); USGS data; South Santiam Watershed Council (SSWC) 1997	SSWC data in 1997, 7 day ave. max temperature was 77.0°F, exceeded temperature standard of (64°F) . Also USGS temperature data near Scio from 1963 to 1975 shows Max. ave. temperatures of (64°F) were exceeded most years in July (12 of 13 years) and August (13 of 13 years) and at times in June and September. Highest max. ave. was 77°F in 1967.		303(d) List	Addition

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Basin <i>Willamette</i>		Sub <i>South Santiam</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Neal Creek	22F-THOM0	Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Cycloate, Hexazinone, Metolachlor, Simazine and Terbacil were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
Wiley Creek Mouth to Headwaters	22F-WILE0	Sedimentation			NPS Assessment - segment 78: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>South Umpqua</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Hayes Creek Mouth to headwaters	13B-HAYE0	Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	No temperature exceedences, 7 day Ave. Max. for 194/96, 61.2/60.2°F	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Ash Creek Mouth to Headwaters	22M-ASH0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USA Data	USA Data (Site 3845002; RM 0.2): 100% (8 of 8) FWS values exceeded fecal coliform standard (400) with a maximum value of 30000 between 1990 - 1992.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (Site 3845002; RM 0.2): 69% (11 of 16) Summer values exceeded fecal coliform standard (400) with a maximum value of 2600 between 1990 - 1992.		303(d) List	
		Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (3 Sites: Lower, Middle, Upper): Index of Biotic Integrity (IBI) scores of poor (<30) were found in 2 of 3 reaches with scores of 28/32/20 respectively.		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (2 Sites: 3845002, 3845012; RM 0.2, 1.2): 77% (57 of 74), 0% (0 of 25) May to October values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 0.4 mg/l in 1990 - 1992 (Cool water fishery,		303(d) List	
		Habitat Modification			NPS Assessment - segment 22: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (2 Sites: 3845002, 3845012; RM 0.2, 1.2): 100% (71 of 71), 100% (23 of 23) Summer values respectively exceeded phosphorus TMDL standard (70 ug/l) with maximum values of 760, 353 between 5/90 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Fall-Winter-Spring	USA Data	USA Data (2 Sites: 3845002, 3845012; RM 0.2, 1.2): 0% (0 of 24, 8) FWS values respectively exceeded pH standard (6.5 - 8.5) between 1990 - 1992.	Did not meet listing criteria	OK	
		pH		Summer	USA Data	USA Data (2 Sites: 3845002, 3845012; RM 0.2, 1.2): 0% (0 of 50, 17) Summer values respectively exceeded pH standard (6.5 - 8.5) between 1990 - 1992.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-ASH0	Sedimentation			NPS Assessment - segment 22: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (Site 3845002; RM 0.2): 58% (29 of 50) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 73.0 in 1990 - 1992.		303(d) List	
Beaverton Creek Mouth to Headwaters	22M-BEAV0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	DEQ/USA Data; NPS Assessment - segment 25: severe, data (DEQ, 1988)	USA Data (Site 3821012; RM 1.2): 22% (10 of 46) FWS values exceeded E coli standard (406) with a maximum value of 3200 between 1989 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	DEQ/USA Data; NPS Assessment - segment 25: severe, data (DEQ, 1988)	USA Data (Site 3821012; RM 1.2): 38% (17 of 45) Summer values exceeded E coli standard (406) with a maximum value of 3700 between 1989 - 1995.		303(d) List	
		Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (2 Sites: Lower, Middle): Index of Biotic Integrity (IBI) scores of poor (<30) were found in 1 of 2 reaches with scores of 30/20 respectively.		303(d) List	
		Chlorophyll a		Summer	DEQ/USA Data; NPS Assessment - segment 25: moderate, data (DEQ, 1988)	DEQ Data (Site 402150; RM 0.3): 3% (1 of 37) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 18 between WY 1986 - 1995. USA Data (Site 3821012; RM 1.2): 8% (5 of 63) with a maximum value of 30 between 1989 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	November 1 - April 30	DEQ/USA Data; d1 in 305(b) Report (DEQ, 94); NPS Assessment - segment 25: moderate, observation (DEQ, 1988)	USA Data (Site 3821012; RM 1.2): 0% (0 of 27) November through April values exceeded dissolved oxygen standard (6.5 mg/l) between 1994 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK	
Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	DEQ/USA Data; d1 in 305(b) Report (DEQ, 94); NPS Assessment - segment 25: moderate, observation (DEQ, 1988)	USA Data (4 Sites: 3821012, 3821050, 3821059, 3821062; RM 1.2 - 6.2): 37%(19 of 55); 100%(9 of 9); 100%(7 of 7); 67%(6 of 9) May - Oct values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a min of 0.6 mg/l from 94-95; Cool water fishery.		303(d) List			

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22M-BEAV0	Habitat Modification			NPS Assessment - segment 25: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31	USA Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 25: severe, data (DEQ, 1988)	USA Data (4 Sites: 3821012, 3821050, 3821059, 3821062; RM 1.2 -6.2): 99% (69 of 70); 100% (9 of 9); 100% (7 of 7); 100% (9 of 9) Summer values respectively exceeded phosphorus TMDL standard (70 ug/l) with maximums of 180, 374, 279, 1140 from 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Fall-Winter-Spring	DEQ/USA Data	DEQ Data (Site 402150; RM 0.3): 0% (0 of 74) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995. USA Data (3 Sites: 3821012, 3821050, 3821059; RM 1.2 - 5.9): 0% (0 of 85, 29,13) exceeded standard between 1989 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ/USA Data	DEQ Data (Site 402150; RM 0.3): 0% (0 of 39) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995. USA Data (3 Sites: 3821012, 3821050, 3821059; RM 1.2 -5.9): 0% (0 of 117, 55, 19) exceeded standard between 1989 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 25: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ/USA Data	USA Data (2 Sites: 3821012, 3821050; RM 1.2, 5.0): 33% (39 of 119), 49% (27 of 55) Summer values exceeded temperature standard (64) respectively with exceedences each year and a maximum of 71.2 between 1989 - 1995.		303(d) List	
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Arsenic, Iron and Manganese were found above the water quality standards, Table 20 value, once. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time are needed).	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22M-BEAV0	Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Antimony, Cadmium, Chromium, Copper, Lead, Nickel and Zinc were found in water, but levels were below the water quality standards Table 20 values. No other trace metals were found.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Sediment)	Year Around	DEQ Data; 1994 304(l) list, Part B; NPS Assessment - segment 25: moderate, data (DEQ, 1988); Willamette River Basin Water Quality Study Phase I and II, USGS data	Antimony, Arsenic, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Silver and Zinc were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Carbaryl, Diazinon, Prometon and Simazine were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22M-BEAV0	Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Chrysene was found in elevated levels in sediments when compared to certain guidelines or criteria, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. Further studies would be needed to determine if there was any toxicity. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>Acenaphthene, Anthracene, Benzo(A)anthracene, Benzo(GH)perylene, Benzo(K)fluoranthene, Benzo(A)pyrene, Bis(2Ethylhexyl)phthalate, Fluoranthene, Phenol, and Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem.</p> <p>Acridine, Anthraquinone, Benzo(B)fluoranthene, Butylbenzylphthalate, Dibenzothiophene, Di-n-butylphthalate, Dibenzo(AH)anthracene, Dimethylphthalate, 9H-Carbazole, Indeno123-cdpyrene, 1-Methylphenanthrene, 1-Methylpyrene, 45-Methylenephenanthrene, N-Nitrosodiphenylamine, p-Cresol, Phenan and phenanthridine were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations.</p> <p>No other PAHs, Semi or Volatile</p>	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Willamette</i>	Sub <i>Tualatin</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
		Toxics	Pesticides (Sediments)		DEQ Data; 1994 304(l) list, Part B; NPS Assessment - segment 25: moderate, data (DEQ, 1988); Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Organics were detected. PCB was found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.</p> <p>p,p' DDD, p,p' DDE, p,p' DDT and Dieldrin were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.</p> <p>Transchlordan, Cischlordan and Transnonachlorsed were found, however, there are no well established guidelines available for evaluating risks for sediment, nor have there been any beneficial use impairment evaluations.</p> <p>No other pesticides were detected in the sediment.</p> <p>No other pesticides were detected in the sediment.</p>	Did not meet listing criteria	Potential Concern	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>	Sub	<i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22M-BEAV0	Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
Bronson Creek Mouth to Headwaters	22M-BRON0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	USA Data	USA Data (6 Sites: RM 0.1 - 7.1): 22%(5 of 23); 24%(4 of 17); 43%(10 of 23); 14%(3 of 21); 45%(9 of 20); 42%(8 of 19); FWS values respectively exceeded E coli standard (406) with maximum values of 2700, 1600, 1600, 2500, 1600, 8000 between 1990 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA Data	USA Data (7 Sites: RM 0.1 - 7.1): 0% (0 of 17); 12% (2 of 17); 5% (1 of 21); 6% (1 of 17); 40% (2 of 5); 40% (6 of 15); 100% (17 of 17) Summer values respectively exceeded E coli standard (406) with maximum values of 600 - 4500 between 1990 - 1995.		303(d) List	
		Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (2 Sites: Lower, Middle): Index of Biotic Integrity (IBI) scores of poor (<30) were found in 1 of 2 reaches with scores of 34/24 respectively.		303(d) List	
		Chlorophyll a		Summer	USA Data	USA Data (7 Sites: RM 0.1 - 7.1): 3824018 = 19%(5 of 27), 3 month average above standard in 1994; 6 Sites = 0% (0 of 10) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 63 between 1990 - 1995.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22M-BRON0	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (3 Sites: 3824001, 3824020, 3824032; RM 0.1, 2.0, 3.2): 41%(16 of 39)/21%(11 of 52)/29%(11 of 38) May - Oct values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 1.6 mg/l between 90 - 95 (Cool water fishery, annual).		303(d) List	
		Habitat Modification				NPS Assessment - segment 30: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
		Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (7 Sites: RM .1 - 7.1): 91%(30 of 33); 72%(23 of 32); 56%(23 of 41); 94%(31 of 33); 100%(15 of 15); 97%(30 of 31); 100%(33 of 33) Summer values exceeded phosphorus TMDL standard (70 ug/l) with maximums of 331 - 504 respectively in 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Summer	USA Data	USA Data (7 Sites: RM 0.1 - 7.1): 3824018 = 4% (1 of 27), 6 of 7 Sites = 0% (0 of 26, 10, 10, 26, 10, 10) Summer values exceeded pH standard (6.5 - 8.5) with a maximum value of 9.2 between 1990 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USA Data	USA Data (3 Sites: 3824001, 3824018, 3824032; RM 0.1 - 3.2): 0% (0 of 12), 4% (1 of 24), 0% (0 of 12) FWS values respectively exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.9 between 1990 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 30: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (3 Sites: 3824001, 3824015, 3824018; RM 0.1, 1.5, 1.8): 28% (10 of 36); 50% (10 of 20); 89% (24 of 27) Summer values respectively exceeded temperature standard (64) with exceedences each year and a maximum of 78.8 between 1990 - 1995.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-BRON0	Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Desethylatrazine, Desisopropylatrazine, Diazinon, Diuron, EPTC, Hexazinone, Metolachlor, Metribuzin, Prometon, Simazine, Triclopyr and 2,4-D were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Chromium, Copper, Lead, Manganese, Nickel, and Zinc were found in water, but levels were below the water quality standards Table 20 values. No other trace metals were detected.	Did not meet listing criteria	OK	Addition
Burris Creek Mouth to Headwaters	22M-BURR0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USA Data	USA Data (Site 3831005; RM 0.5): 88% (15 of 17) FWS values exceeded enterococcus standard (61) with a maximum value 1100 between 1991 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (Site 3831005; RM 0.5): 91% (30 of 33) Summer values exceeded enterococcus standard (61) with a maximum value 1100 between 1990 - 1995.		303(d) List	
		Chlorophyll a		Summer	USA Data	USA Data (Site 3831005; RM 0.5): 42% (16 of 38) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value 138 between 1990 - 1995. Three month average above standard in 1992 and 1993.		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (Site 3831005; RM 0.5): 64% (51 of 80) May to October values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 0.9 mg/l in 1990 - 1995 (Cool water fishery,		303(d) List	

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Basin	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette	22M-BURR0	Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (Site 3831005; RM 0.5): 100% (29 of 29) Summer values exceeded phosphorus TMDL standard (45 ug/l) with a maximum value 323.0 ug/l between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
				Fall-Winter-Spring	USA Data	USA Data (Site 3831005; RM 0.5): 4% (1 of 24) FWS values exceeded pH minimum standard (6.5 - 8.5) with a minimum value 6.1 between 1991 - 1995.	Did not meet listing criteria	OK	
		pH	Summer	USA Data	USA Data (Site 3831005; RM 0.5): 2% (1 of 53) Summer values exceeded pH minimum standard (6.5 - 8.5) with a minimum value 6.4 between 1990 - 1995.	Did not meet listing criteria	OK		
		Temperature		USA Data		No supporting data or information	Need Data		
Butternut Creek	22M-BUTT0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 404188; RM 3.5): 95% (18 of 19) FWS values exceeded fecal coliform standard (400) with a maximum value of 90,000 between 86 - 87; 82% (14 of 17) FWS values exceeded enterococcus standard (61) with a maximum value of 460 between 91- 92.		303(d) List	
				Summer	USA Data	USA Data (Site 3822002; RM 0.2): 88% (29 of 33) Summer values exceeded enterococcus standard (61) with a maximum value of 3100 between 1991 - 1992.		303(d) List	
		Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (3 Sites: Lower, Middle, Upper): Index of Biotic Integrity (IBI) scores of poor (<30) were found in 2 of 3 reaches with scores of 20/32/28 respectively.		303(d) List	
		Chlorophyll a	Summer	USA Data	USA Data (Site 3822002; RM 0.2): 0% (0 of 33) Summer values exceeded chlorophyll a standard (15 ug/l) between 1991 - 1992.	Did not meet listing criteria	OK		

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Basin <i>Willamette</i>	Sub	<i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22M-BUTT0	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (3 Sites: 3822002, 3822014, 3822033; RM 0.2, 1.4, 3.3): 58% (28 of 48)/92% (23 of 25)/8% (2 of 24) May to Oct values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 0.8 mg/l between 90-92 (Cool water fishery, annual).		303(d) List	
		Flow Modification			NPS Assessment - segment 43: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 43: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31	USA Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 43: severe, data (DEQ, 1988)	USA Data (3 Sites: 3822002, 3822014, 3822033; RM 0.2 - 3.3): 100% (49 of 49), 100% (24 of 24), 100% (24 of 24) Summer values respectively exceeded phosphorus TMDL standard (70 ug/l) with maximum values of 310, 440, 310 between 5/90 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Fall-Winter-Spring	USA Data	USA Data (3 Sites: 3822002, 3822014, 3822033; RM 0.2 - 3.3): 0% (0 of 16, 10, 9) FWS values respectively exceeded pH standard (6.5 - 8.5) between 1990 - 1992.	Did not meet listing criteria	OK	
		pH		Summer	USA Data	USA Data (3 Sites: 3822002, 3822014, 3822033; RM 0.2 - 3.3): 0% (0 of 32, 16, 16) Summer values respectively exceeded pH standard (6.5 - 8.5) between 1990 - 1992.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 43: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (Site 3822033; RM 3.3): 75% (12 of 16) Summer values exceeded temperature standard (64) with a maximum of 71.8 in 1990.		303(d) List	
		Toxics			NPS Assessment - segment 43: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Carpenter Creek Mouth to Headwaters	22M-CARPO	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	USA Data; NPS Assessment - segment 431: moderate, data (DEQ, 1988)	USA Data (2 Sites: 3809020, 3809035; RM 2.0, 3.5): 0% (0 of 8), 14% (1 of 7) FWS values respectively exceeded E coli standard (406) with a maximum value of 480 between 1993 - 1994.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA Data; NPS Assessment - segment 431: moderate, data (DEQ, 1988)				
		Chlorophyll a		Summer	USA Data	USA Data (2 Sites: 3809020, 3809035; RM 2.0, 3.5): 10% (1 of 10), 0% (0 of 10) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with a maximum value of 17 between 1993 - 1994.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (2 Sites: 3809011, 3809030; RM1.1, 3.0): 69% (9 of 13), 0% (0 of 10) May to October values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 2.0 mg/l in 1990 (Cool water fishery, annual).		303(d) List	
		Nutrients	Phosphorus	May 1 - October 31	USA Data; NPS Assessment - segment 431: moderate, observation (DEQ, 1988)	USA Data (3 Sites: 3809012, 3809020, 3809035; RM 1.2 - 3.5): 92% (12 of 13); 100% (24 of 24); 67% (16 of 24) Summer values respectively exceeded phosphorus TMDL standard (45 ug/l) with maximum values of 1860.0, 386.0, 326.0 between 7/93 -10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Summer	USA Data	USA Data (2 Sites: 3809011, 3809030; RM 1.1, 3.0): 14% (1 of 7), 0% (0 of 7) Summer values respectively exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 6.2 between 1990 - 1991.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USA Data	USA Data (Site 3809011; RM 1.1): 0% (0 of 6) FWS values exceeded pH standard (6.5 - 8.5) between 1990 - 1991.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-CARPO	Temperature			USA Data		No supporting data or information	Need Data	
		Toxics	Pesticides		NPS Assessment - segment 431: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Cedar Creek Mouth to Headwaters	22M-CEDA0	Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (2 Sites: Lower, Upper): Index of Biotic Integrity (IBI) scores of fair (30-38) were found in 2 of 2 reaches with scores of 30/34 respectively.	Did not meet listing criteria	Potential Concern	
	22M-CEDR0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	USA Data	USA Data (2 Sites: 3836005, 3836025; RM 0.5 - 2.5): 19% (4 of 21), 13% (1 of 8) FWS values respectively exceeded fecal coliform standard (400) with maximum values of 1600, 460 between 1989 - 1990.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (2 Sites: 3836005, 3836025; RM 0.5 - 2.5): 30% (10 of 33), 0% (0 of 17) Summer values respectively exceeded fecal coliform standard (400) with a maximum value of 1500 between 1989 - 1990.		303(d) List	
		Chlorophyll a		Summer	USA Data	USA Data (2 Sites: 3836005, 3836025; RM 0.5 - 2.5): 25% (7 of 28), 25% (3 of 12) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with maximum values of 40, 48 between 1989 - 1990.		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (2 Sites: 3836005, 3836025; RM 0.5, 2.5): 75% (41 of 55), 61% (31 of 51) May to October values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 0.7 mg/l in 1990 - 1995 (Cool water fishery, annual).		303(d) List	
		Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (2 Sites: 3836005, 3836025; RM 0.5 - 2.5): 100% (24 of 24), 96% (23 of 24) Summer values respectively exceeded phosphorus TMDL standard (70 ug/l) with maximum values of 249, 470 between 5/90 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	

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Basin	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette	22M-CEDR0	pH		Summer	USA Data	USA Data (2 Sites: 3836005, 3836025; RM 0.5 - 2.5): 0% (0 of 33, 33) Summer values respectively exceeded pH standard (6.5 - 8.5) between 11989 - 1990.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USA Data	USA Data (2 Sites: 3836005, 3836025; RM 0.5 - 2.5): 0% (0 of 22, 19) FWS values respectively exceeded pH standard (6.5 - 8.5) between 1989 - 1990.	Did not meet listing criteria	OK	
		Temperature			USA Data		No supporting data or information	Need Data	
Cedar Mill Creek	22M-CEDA0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USA Data	USA Data (Site 3823035; RM 3.5): 93% (14 of 15) FWS values exceeded fecal coliform standard (400) with a maximum value of 30000 between 1989 - 1994.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (Site 3823035; RM 3.5): 97% (32 of 33) Summer values exceeded fecal coliform standard (400) with a maximum value of 6600 between 1989 - 1994.		303(d) List	
		Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (2 Sites: Middle, Upper): Index of Biotic Integrity (IBI) scores of poor (<30) were found in 2 of 2 reaches with scores of 20/22 respectively.		303(d) List	
		Chlorophyll a		Summer	USA Data	USA Data (Site 3823035; RM 3.5): 0% (0 of 12) Summer values exceeded chlorophyll a standard (15 ug/l) between 1989 - 1990.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (Site 3823035; RM 3.5): 0% (0 of 52) May to October values exceeded dissolved oxygen standard (6.5 mg/l) between 1989 - 1990 (Cool water fishery, annual).	Did not meet listing criteria	OK	
		Habitat Modification			NPS Assessment - segment 28: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-CEDA0	Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (Site 3823011; RM 1.1): 100% (9 of 9) Summer values exceeded phosphorus TMDL standard (70.0 ug/l) with a maximum value of 507.0 ug/l between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
				Summer	USA Data	USA Data (2 Sites: 3823011, 383035; RM 1.1, 3.5): 0% (0 of 55, 31) Summer values respectively exceeded pH standard (6.5 - 8.5) between 1989 - 1994.	Did not meet listing criteria	OK	
		Summer	USA Data	USA Data (2 Sites: 3823011, 383035; RM 1.1, 3.5): 0% (0 of 29, 19) FWS values respectively exceeded pH standard (6.5 - 8.5) between 1989 - 1994.	Did not meet listing criteria	OK			
			NPS Assessment - segment 28: moderate, observation (DEQ, 1988)			No supporting data or information	Need Data		
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (Site 3823011; RM 1.1): 40% (22 of 55) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 69.8 between 1990 - 1994.		303(d) List	
Chicken Creek Mouth to Headwaters	22M-CHIC0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA Data	USA Data (Site 3835020; RM 2.0): 38% (17 of 45) Summer values exceeded E coli standard (406) with a maximum value of 1900 between 1990 - 1995.		303(d) List	
				Fall-Winter-Spring	USA Data	USA Data (Site 3835020; RM 2.0): 11% (5 of 47) FWS values exceeded E coli standard (406) with a maximum value of 1600 between 1991 - 1995.		303(d) List	
		Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (3 Sites: Lower, Middle, Upper): Index of Biotic Integrity (IBI) scores of fair (30-38) were found in 2 of 3 reaches with scores of 32/36/26 respectively.	Did not meet listing criteria	Potential Concern	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
<i>Willamette</i>	22M-CHIC0	Chlorophyll a		Summer	USA Data	USA Data (Site 3835020; RM 2.0): 0% (0 of 86) Summer values exceeded chlorophyll a standard (15 ug/l) between 1990 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (Site 3835020, RM 2.0): 30% (58 of 191) May to October values exceeded dissolved oxygen standard (6.5 mg/l) respectively with a minimum of 4.4 mg/l in 1990-95 (Cool water fishery, annual).		303(d) List	
		Nutrients	Water (Ammonia)	May 1 - November 30	USA Data	USA Data (Site 3835020; RM 2.0): 1% (1 of 75) Summer values exceeded ammonia TMDL standard (100) between 7/93 - 11/95.	TMDL established for Ammonia, approved (12/8/92) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (12/8/92)	Addition
		Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (Site 3835020; RM 2.0): 100% (70 of 70) Summer values exceeded phosphorus TMDL standard (70 ug/l) with a maximum value of 217.0 ug/l between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Fall-Winter-Spring	USA Data	USA Data (Site 3835020; RM 2.0): 0% (0 of 105) FWS values exceeded pH standard (6.5 - 8.5) between 1990 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	USA Data	USA Data (Site 3835020; RM 2.0): 0% (0 of 86) Summer values exceeded pH standard (6.5 - 8.5) between 1990 - 1995.	Did not meet listing criteria	OK	
		Temperature			USA Data		No supporting data or information	Need Data	
		Toxics	Water (Ammonia)	May 1 - November 30	USA Data	USA Data (Site 3835020; RM 2.0): 0% (0 of 75) Summer values exceeded chronic ammonia criteria (salmonid) Table 20 between 7/93 - 11/95.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>	Sub	<i>Tualatin</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Christenson Creek Mouth to Headwaters	22M-CHR10	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	USA Data	USA Data (Site 3830018; RM 1.8): 100% (17 of 17) FWS values exceeded enterococcus standard (61) with a maximum value of 5700 between 1991 - 1995.		303(d) List		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (Site 3830018; RM 1.8): 100% (33 of 33) Summer values exceeded enterococcus standard (61) with a maximum value of 6000 between 1994 - 1995.		303(d) List		
		Chlorophyll a		Summer	USA Data	USA Data (Site 3830018; RM 1.8): 5% (2 of 38) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 32 between 1994 - 1995.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (Site 3830018; RM 1.8): 87% (69 of 79) May to October values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 0.1 mg/l in 1990 - 1995 (Cool water fishery,		303(d) List		
		Nutrients	Phosphorus	May 1 - October 31	USA Data; NPS Assessment - segment 436: severe, data (DEQ, 1988)	USA Data (Site 3830018; RM 1.8): 100% (29 of 29) Summer values exceeded phosphorus TMDL standard (45 ug/l) with a maximum value of 672.0 ug/l between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)		
		pH		Fall-Winter-Spring	USA Data	USA Data (Site 3830018; RM 1.8): 8 % (2 of 25) FWS values exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 6.0 between 1991 - 1995.	Did not meet listing criteria	OK		
		pH		Summer	USA Data	USA Data (Site 3830018; RM 1.8): 4% (2 of 54) Summer values exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 6.4 between 1994 - 1995.	Did not meet listing criteria	OK		
		Sedimentation				NPS Assessment - segment 436: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				USA Data		No supporting data or information	Need Data	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-CHR10	Toxics	Pesticides		NPS Assessment - segment 436: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Council Creek									
Mouth to Headwaters	22M-COUN0	Bacteria			USA Data		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (Site 3812009; RM 0.9): 100% (13 of 13) May to October values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 0.1 mg/l in 1990 (Cool water fishery, annual).		303(d) List	
		Nutrients	Phosphorus	May 1 - October 31	USA Data; NPS Assessment - segment 430: moderate, observation (DEQ, 1988)	USA Data (2 Sites: 3812009, 3812050; RM 0.9, 5.0): 100% (25 of 25), 100% (9 of 9) Summer values exceeded phosphorus TMDL standard (45 ug/l) with maximum values of 4200.0, 450.0 respectively between 5/90 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Fall-Winter-Spring	USA Data	USA Data (Site 3812009; RM 0.9): 0% (0 of 6) FWS values exceeded pH standard (6.5 - 8.5) in 1990.	Did not meet listing criteria	OK	
		pH		Summer	USA Data	USA Data (Site 3812009; RM 0.9): 0% (0 of 7) Summer values exceeded pH standard (6.5 - 8.5) in 1990.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 430: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Dairy Creek									
Mouth to East/West Forks	22M-DAIR0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	USA/DEQ Data	USA Data (Site 3815020; RM 2.0): 11% (5 of 48) FWS values exceeded E coli standard (406) with a maximum value of 8000 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA/DEQ Data	USA Data (Site 3815020; RM 2.0): 20% (9 of 45) Summer values exceeded E coli standard (406) with a maximum value of 1100 between 1987 - 1995.		303(d) List	
Mouth to Headwaters		Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (2 Sites: Lower, Upper): Index of Biotic Integrity (IBI) scores of good (40-44) were found in 1 of 2 reaches with scores of 22/44 respectively.	Did not meet listing criteria	Potential Concern	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to East/West Forks	22M-DAIRO	Chlorophyll a		Summer	USA/DEQ Data	USA Data (Site 3815020; RM 2.0): 9% (14 of 159) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 65 between 1987 - 1995. Three month average above standard in 1990,1991, and 1992.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	November 1 - April 30	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 44: severe, observation (DEQ, 1988)	USA Data (Site 3815020; RM 2.0): 0% (0 of 29) November through April values exceeded dissolved oxygen standard (6.5 mg/l) between 1993 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 44: severe, observation (DEQ, 1988)	USA Data (Site 3815020; RM 2.0): 0% (0 of 55) May through October values exceeded dissolved oxygen standard (6.5 mg/l) between 1993 - 1995 (Cool water fishery).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 44: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31	USA Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 44: severe, data (DEQ, 1988)	USA Data (Site 3815020; RM 2.0): 100% (88 of 88) Summer values exceeded phosphorus TMDL standard (45 ug/l) with a maximum value of 226.0 ug/l between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (1/27/94)	
		Nutrients	Water (Ammonia)	May 1 - November 30	USA Data	USA Data (Site 3815020; RM 2.0): 11% (10 of 94) Summer values exceeded ammonia TMDL standard (40) between 7/93 - 11/95.	TMDL established for Ammonia, approved (12/8/92) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (12/8/92)	Addition
		pH		Fall-Winter-Spring	DEQ/USA Data	DEQ Data (Site 404176; RM 5.9): 0% (0 of 24) FWS values exceeded pH standard (6.5 - 8.5) between 1986 - 1989. USA Data (Site 3815020; RM 2.0): 1% (2 of 187) exceeded standard with a minimum of 6.2 between 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to East/West Forks	22M-DAIR0	pH		Summer	DEQ/USA Data	DEQ Data (Site 404176; RM 5.9): 0% (0 of 11) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 988. USA Data (Site 3815020; RM 2.0): 0% (0 of 166) exceeded standard between 1987 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 44: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data; NPS Assessment - segment 44: severe, observation (DEQ, 1988)	USA Data (Site 3815020; RM 2.0): 22% (39 of 176) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 70.5 between 1987- 1995.		303(d) List	
		Toxics	Water (Ammonia)	May 1 - November 30	USA Data	USA Data (Site 3815020; RM 2.0): 0% (0 of 94) Summer values exceeded chronic ammonia criteria (salmonid) between 7/93 - 11/95.	Did not meet listing criteria	OK	
		Toxics	Pesticides (Water)		NPS Assessment - segment 44: severe, observation (DEQ, 1988); Willamette River Basin Water Quality Study Phase I and II, USGS data	Alachlor, Atrazine, Bromacil, Chlorpyrifos, Cycloate, Desethylatrazine, Desisoproylatrazine, Diphenamid, Diuron, Diazinon, Dieldrin, Hexazinone, Metolachlor, Metribuzin, Napropamide, Prometon, Pronamide, Propazine, EPTC, Simazine, Terbacil, Triclopyr and Triallate were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)		Willamette River Basin Water Quality Study Phase I and II, USGS data	Chromium, Copper, Lead, Nickel, and Zinc were found in water, but levels were below the water quality standards Table 20 values. No other trace metals were detected.	Did not meet listing criteria	OK	Addition
Dairy Creek, East Fork									
Mouth to Whisky Creek	22M-DAEF0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA Data; NPS Assessment - segment 44: severe, data (DEQ, 1988)	USA Data (Site 3818084; RM 8.4): 17% (1 of 6) Summer values exceeded E coli standard (406) with a maximum value of 800 between 1991 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Whisky Creek	22M-DAEF0	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data; NPS Assessment - segment 44: severe, observation (DEQ, 1988)	USA Data (Site 3818084; RM 2.0): 0% (0 of 22) May through October values exceeded dissolved oxygen standard (6.5 mg/l) between 1993 - 1995 (Cool water fishery).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 44: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31	USA Data; NPS Assessment - segment 44: severe, data (DEQ, 1988)	USA Data (2 Sites: 3818084, 3818168; RM 8.4, 16.0): 27% (9 of 33), 100% (6 of 6) Summer values exceeded phosphorus TMDL standard (45 ug/l) with maximum values of 94.0, 90.0 respectively between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (1/27/94)	
		pH		Summer	USA Data; NPS Assessment - segment 44: severe, data (DEQ, 1988)	USA Data (3 Sites: 3818084, 3818168, 3818209; RM 8.4 - 20.9): 44% (7 of 16); 8% (1 of 12); 0% (0 of 10) Summer values respectively exceeded pH minimum standard (6.5 - 8.5) with minimum values of 6.1, 6.3 between 1989 - 1995.		303(d) List	
		pH		Fall-Winter-Spring	USA Data; NPS Assessment - segment 44: severe, data (DEQ, 1988)	USA Data (4 Sites: 3818084, 3818168, 3818209, 3818210; RM 8.4 - 21): 17% (1 of 6); 0% (0 of 7); 22% (2 of 9); 50% (3 of 6) FWS values respectively exceeded pH minimum standard (6.5 - 8.5) with minimum values of 6.3, 5.9, 5.9 between 1989 - 1995.	Low pH value due to natural causes (low pH associated with natural rainfall), DEQ judgement	OK	
		Sedimentation			NPS Assessment - segment 44: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data; NPS Assessment - segment 44: severe, observation (DEQ, 1988); DEQ analysis-OGI data	Data from 1992 to 1997 exceedence of temperature standard in July and August, high temperature was 74.3°F.		303(d) List	Addition
		Toxics	Pesticides		NPS Assessment - segment 44: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>			Sub	<i>Tualatin</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Dairy Creek, West Fork Mouth to Headwaters	22M-DAWF0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA Data; NPS Assessment - segment 45: severe, data (DEQ, 1988)	USA Data (Site 3817063; RM 6.8): 33% (2 of 6) Summer values exceeded E coli standard (406) with a maximum value of 780 between 1989 - 1993.		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Summer/Fall II	NPS Assessment - segment 45: moderate, data (DEQ, 1988); DEQ Analysis- OGI data	5 DEQ sites show depressed DO values in Summer and Fall from 1992 to 1997, low value of 2 mg/l DO.		303(d) List	Addition
		Flow Modification			NPS Assessment - segment 45: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31	USA Data; NPS Assessment - segment 45: severe, data (DEQ, 1988)	USA Data (Site 3817063; RM 6.8): 100% (8 of 8) Summer values exceeded phosphorus TMDL standard (45 ug/l) with a maximum value of 104 ug/l between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (1/27/94)	
		Sedimentation			NPS Assessment - segment 45: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data; NPS Assessment - segment 45: severe, observation (DEQ, 1988); DEQ analysis-OGI data	6 sites: data from 1992 to 1997, Water temperature exceeded standard of (64°F) June through September, high value was 75.2°F.		303(d) List	Addition
		Toxics	Pesticides		NPS Assessment - segment 45: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Davis Creek Mouth to Headwaters	22M-DAV10	Nutrients			NPS Assessment - segment 435: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 435: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Pesticides		NPS Assessment - segment 435: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Dawson Creek Mouth to Headwaters	22M-DAWS0	Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (2 Sites: Lower, Middle): Index of Biotic Integrity (IBI) scores of fair (30-38) were found in 2 of 2 reaches with scores of 32/32 respectively.	Did not meet listing criteria	Potential Concern	
Fanno Creek Mouth to Headwaters	22M-FANNO	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA/DEQ Data; NPS Assessment - segment 20: severe, data (DEQ, 1988)	USA Data (3 Sites: 3840008, 3840074, 3840095; RM 0.8 - 9.5): 47% (21 of 45); 67% (30 of 45); 57% (25 of 44) Summer values exceeded E coli standard (406) with maximum values of 7200, 4800, 8000 respectively between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	USA/DEQ Data; NPS Assessment - segment 20: severe, data (DEQ, 1988)	USA Data (3 Sites: 3840008, 3840074, 3840095; RM 0.8 - 9.5): 35% (17 of 49); 46% (13 of 46); 48% (14 of 29) FWS values exceeded E coli standard (406) with maximum values of 5600, 1700, 4800 respectively between WY 1986 - 1995.		303(d) List	
		Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (3 Sites: Lower, Middle, Upper): Index of Biotic Integrity (IBI) scores of fair (30-38) were found in 3 of 3 reaches with scores of 32/38/30 respectively.	Did not meet listing criteria	Potential Concern	
		Chlorophyll a		Summer	USA Data; NPS Assessment - segment 20: moderate, data (DEQ, 1988)	USA Data (5 Sites: RM 0.8-13.5): 17%(31 of 179)/25%(3 of 12)/14%(7 of 51)/47%(24 of 51)/0%(0 of 46) Summer values exceeded chlorophyll a standard (15 ug/l) with maxs of 20-159 from 86-95. 3 month average above standard in 86-90/NA/NA/93-95 respectively.		303(d) List	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	November 1 - April 30	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 20: severe, observation (DEQ, 1988)	USA Data (3 Sites: 3840008, 3840074, 3840095; RM 0.8, 5.0, 9.5): 0% (0 of 29), 0% (0 of 6), 0% (0 of 7) November through April values respectively exceeded dissolved oxygen standard (6.5 mg/l) between 1994 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22M-FANN0	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 20: severe, observation (DEQ, 1988)	USA Data (3 Sites: 3840008, 3840074, 3840095; RM 0.8, 5.0, 9.5): 32% (18 of 56); 44% (23 of 52); 98% (51 of 52) May - Oct values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 3.4 mg/l between 94 - 95 (Cool water fishery).		303(d) List	
		Habitat Modification			NPS Assessment - segment 20: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Water (Ammonia)	May 1 - November 30	USA/DEQ Data; NPS Assessment - segment 20: severe, data (DEQ, 1988)	USA/DEQ Data (3840008, 402139; RM 0.8, 2.3): 5% (5 of 95), 0% (0 of 18) Summer values exceeded ammonia TMDL standard (100) between 7/93 - 11/95	TMDL established for Ammonia, approved (12/8/92) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (12/8/92)	Addition
		Nutrients	Phosphorus	May 1 - October 31	USA Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 20: severe, data (DEQ, 1988)	USA Data (4 Sites: 3840008, 3840055, 3840074, 3840095; RM 0.8 - 9.5): 100%(88 of 88); 100%(26 of 26); 100%(70 of 70, 70) Summer values exceeded phosphorus TMDL standard (70 ug/l) with maximum values of 269, 232, 325, 554 respectively from 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Fall-Winter-Spring	DEQ/USA Data	DEQ Data (Site 402139; RM 2.3): 0%(0 of 60) FWS values exceeded pH standard (6.5 - 8.5) between 86 - 95. USA Data (7 Sites: RM 0.8 - 13.5): 1%(1 of 198), 6%(1 of 18), 0%(0 of 14, 40, 55, 9, 37) with minimums of 6.2, 6.4, 6.3; with max of 8.6 from 86 - 95.	Did not meet listing criteria	OK	
		pH		Summer	DEQ/USA Data	DEQ Data (Site 402139; RM 2.3): 0% (0 of 45) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995. USA Data (7 Sites: RM 0.8 - 13.5): 0% (0 of 181, 31, 29, 72, 101, 16, 63) exceeded standard between 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 20: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>	Sub	<i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22M-FANN0	Toxics	Pesticides (Water)	Year Around	NPS Assessment - segment 20: moderate, data (DEQ, 1988); Willamette River Basin Water Quality Study Phase I and II, USGS data	USGS Data chlopyrifos 2 of 32 samples above water quality standards (6% of samples did not meet Minimum Data Requirements of 10%). Dieldrin, lindane and malathion were detected, but not above water quality standards.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Ametryn, Atrazine, Bromacil, Carbaryl, Chlorpyrifos, Diazinon, Diuron, DCPA, EPTC, Metolachlor, Metribuzin, Prometon, Propachlor, Simazine, Tebuthiuron, Triclopyr and 2,4-D were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Benzo(a)anthracene, Cis-1,2-di-chloroethene, N-butylbenzylphthalate, Di-n-butylphthalate and Bis(2-ethylhexyl)phthalate were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-FANN0	Toxics	Total Dioxin and Furans (Fish Tissue)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in fish tissue. There are no standards for fish tissue concentrations. Concentration values did not exceed various guidance levels used to determine whether compounds are elevated. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.	Did not meet listing criteria	OK	Addition
		Toxics	Water (Ammonia)	May 1 - November 30	USA/DEQ Data; NPS Assessment - segment 20: severe, data (DEQ, 1988)	USA/DEQ Data (3840008, 402139; RM 0.8, 2.3): 0% (0 of 95, 18) Summer values exceeded chronic ammonia criteria (salmonid) Table 20 between 7/93 - 11/95.	Did not meet listing criteria	OK	
		Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Diazinon was found but were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Total Dioxin and Furans (Fish Tissue)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No other pesticides were detected in the sediment. Total Dioxin and Furans were found in fish tissue. There are no standards for fish tissue concentrations. Concentration values did not exceed various guidance levels used to determine whether compounds are elevated. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.	Did not meet listing criteria	OK	Addition
Gales Creek									
Mouth to Clear Creek	22M-GALE0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA/DEQ Data; NPS Assessment - segment 429: moderate, data (DEQ, 1988)	USA Data (Site 3810012; RM 1.2): 13% (6 of 45) Summer values exceeded E coli standard (406) with a maximum value of 1600 between 1987 - 1995.		303(d) List	

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Basin	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Basin <i>Willamette</i> Mouth to Clear Creek	22M-GALE0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	USA/DEQ Data; NPS Assessment - segment 429: moderate, data (DEQ, 1988)	USA Data (Site 3810012; RM 1.2): 8% (4 of 48) FWS values exceeded E coli standard (406) with a maximum value of 900 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ/USA Data	DEQ Data (Site 404175; RM 2.3): 0% (0 of 8) Summer values exceeded chlorophyll a standard (15 ug/l) between 86 - 87. USA Data (Site 3810012; RM 1.2): 0% (0 of 109) exceeded standard between 87 - 95.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	November 1 - April 30	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 429: moderate, data (DEQ, 1988)	USA Data (Site 3810012; RM 1.2): 7% (2 of 27) November through April values exceeded dissolved oxygen standard (11 mg/l or 95% saturation) between 1993 - 1995 (Cold water spawning).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 429: moderate, data (DEQ, 1988)	USA Data (Site 3810012; RM 1.7): 49% (25 of 51) May through October values exceeded dissolved oxygen standard (8 mg/l or 90% saturation) with a minimum of 6.3 mg/l between 1993 - 1995 (Cold water fishery, rearing).		303(d) List	
		Nutrients	Water (Ammonia)	May 1 - November 30	USA Data	USA Data (Site 3810012; RM 1.2): 4% (3 of 74) Summer values exceeded ammonia TMDL standard (40) between 7/93 - 11/95	TMDL established for Ammonia, approved (12/8/92) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (12/8/92)	Addition
		Nutrients	Phosphorus	May 1 - October 31	USA Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 429: moderate, observation (DEQ, 1988)	USA Data (2 Sites: 3810012, 3810260; RM 1.2, 24.3): 67% (47 of 70), 17% (1 of 6) Summer values respectively exceeded phosphorus TMDL standard (45 ug/l) with maximum values of 76.0, 50.0 between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Summer	DEQ/USA Data	DEQ Data (Site 404175; RM 2.3): 0% (0 of 8) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 1987. USA Data (Site 3810012; RM 1.2): 0% (0 of 106) exceeded standard between 1987 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>	Sub	<i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Clear Creek	22M-GALE0	pH		Fall-Winter-Spring	DEQ/USA Data	DEQ Data (Site 404175; RM 2.3): 0% (0 of 12) FWS values exceeded pH standard (6.5 - 8.5) between 1986 - 1987. USA Data (Site 3810012; RM 1.2): 2% (3 of 159) exceeded standard with a minimum of 6.3 between 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 429: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ/USA Data; NPS Assessment - segment 429: moderate, observation (DEQ, 1988)	USA Data (Site 3810012; RM 1.7): 35% (47 of 135) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 71.4 between 1987 - 1995.			303(d) List
Clear Creek to Headwaters	22M-GALE11	Toxics	Water (Ammonia)	May 1 - November 30	USA Data	USA Data (Site 3810012; RM 1.2): 0% (0 of 74) Summer values exceeded chronic ammonia criteria (salmonid) between 7/93 - 11/95.	Did not meet listing criteria	OK	
		pH		Summer	USA Data	USA Data (2 Sites: 3810190, 3810260; RM 19.0, 24.3): 10% (1 of 10), 23% (3 of 13) Summer values exceeded pH minimum standard (6.5 - 8.5) with minimum values of 6.3, 6.4 respectively between 1989 - 1994.	Low pH value due to natural causes (low pH associated with natural rainfall), DEQ judgement	OK	
		pH		Fall-Winter-Spring	USA Data	USA Data (Site 3810260; RM 24.3): 56% (5 of 9) FWS values exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 5.5 between 1989 - 1994.			303(d) List
Golf Creek Mouth to Headwaters	22M-GOLF0	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data	USGS Data (Site near Glenwood): 7 day average of daily maximums of 56.3 and 57.1 with 0 and 0 days exceeding temperature standard (64) in 1993 and 1994 respectively.	Did not meet listing criteria	OK	
		Habitat Modification				NPS Assessment - segment 26: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-GOLF0	Sedimentation			NPS Assessment - segment 26: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Hall Creek									
Mouth to Headwaters	22M-HALL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	USA Data	USA Data (Site 3829007; RM 0.7): 100% (16 of 16) FWS values exceeded enterococcus standard (61) between 1990 - 1992.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (Site 3829007; RM 0.7): 100% (36 of 36) Summer values exceeded enterococcus standard (61) between 1990 - 1992.		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (Site 3829007; RM 0.7): 18% (14 of 80) May to October values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 5.1 mg/l in 1990 - 1992 (Cool water fishery,		303(d) List	
		Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (Site 3829007; RM 0.7): 99% (76 of 77) Summer values exceeded phosphorus TMDL standard (70 ug/l) with a maximum value of 380 ug/l between 5/90 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Fall-Winter-Spring	USA Data	USA Data (Site 3829007; RM 0.7): 0% (0 of 26) FWS values exceeded pH standard (6.5 - 8.5) between 1990 - 1992.	Did not meet listing criteria	OK	
		pH		Summer	USA Data	USA Data (Site 3829007; RM 0.7): 0% (0 of 54) Summer values exceeded pH standard (6.5 - 8.5) between 1990 - 1992.	Did not meet listing criteria	OK	
		Temperature			USA Data		No supporting data or information	Need Data	
Heaton Creek									
Mouth to Headwaters	22M-HEAT0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (Site 3813001, RM 0.1): 94% (31 of 33) Summer values exceeded enterococcus standard (61) with a maximum value of 5800 between 1990 - 1992.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-HEAT0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	USA Data	USA Data (Site 3813001, RM 0.1): 88% (15 of 17) FWS values exceeded enterococcus standard (61) with a maximum value of 740 between 1990 - 1992.		303(d) List	
		Chlorophyll a		Summer	USA Data	USA Data (Site 3813001; RM 0.1): 3% (1 of 38) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 32 between 1994 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (Site 3813001; RM 0.1): 9% (7 of 79) May to October values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 6.0 mg/l between 1990 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK	
		Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (Site 3813001; RM 0.1): 93% (27 of 29) Summer values exceeded phosphorus standard (45 ug/l) with a maximum value of 216.0 ug/l between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Summer	USA Data	USA Data (Site 3813001; RM 0.1): 11% (6 of 54) Summer values exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 6.4 between 1994 - 1995.	Low pH value due to natural causes (low pH associated with natural rainfall), DEQ judgement	OK	
		pH		Fall-Winter-Spring	USA Data	USA Data (Site 3813001; RM 0.1): 16% (4 of 25) FWS values exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 6.3 between 1991 - 1995.	Low pH value due to natural causes (low pH associated with natural rainfall), DEQ judgement	OK	
		Temperature			USA Data		No supporting data or information	Need Data	
Hedges Creek									
Mouth to Headwaters	22M-HEDG0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA Data	USA Data (2 Sites: 3837040, 3837044; RM 4.0 - 4.4): 12% (3 of 26), 86% (18 of 21) Summer values exceeded E coli standard (406) with maximum values of 1600, 7500 respectively between 1994 - 1995.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-HEDG0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	USA Data	USA Data (2 Sites: 3837040, 3837044; RM 4.0, 4.4): 12% (3 of 12), 31% (8 of 26) FWS values exceeded E coli standard (406) with maximum values of 1600, 4300 respectively between 1994 - 1995.		303(d) List	
		Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (2 Sites: Middle, Upper): Index of Biotic Integrity (IBI) scores of poor (<30) were found in 2 of 2 reaches with scores of 16/28 respectively.		303(d) List	
		Chlorophyll a		Summer	USA Data	USA Data (2 Sites: 3837040, 3837044; RM 0.2 - 4.4): 12% (4 of 34), 0% (0 of 22) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with a maximum value of 64 between 1994 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (3 Sites: 3837002, 3837040, 3837044; RM 0.2, 4.0, 4.4): 100% (24 of 24)/3% (2 of 61)/0% (0 of 48) May to Oct values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 0.1 mg/l in 1990 - 1995 (Cool water fishery, annual).		303(d) List	
		Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (2 Sites: 3837040, 3837044; RM 4.0 - 4.4): 74% (40 of 54), 83% (30 of 36) Summer values exceeded phosphorus TMDL standard (70 ug/l) with maximum values of 158.0, 734.0 respectively between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Summer	USA Data	USA Data (3 Sites: 3837002, 3837040, 3837044; RM 0.2 - 4.4): 0% (0 of 16, 34, 21) Summer values respectively exceeded pH standard (6.5 - 8.5) between 1990 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USA Data	USA Data (3 Sites: 3837002, 3837040, 3837044; RM 0.2 - 4.4): 0% (0 of 9, 26, 26) FWS values respectively exceeded pH standard (6.5 - 8.5) between 1990 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name & Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Headwaters	22M-HEDG0	Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (2 Sites: 3837002, 3837040; RM 0.2, 4.0): 25% (4 of 16) and 49% (17 of 35) Summer values respectively exceeded temperature standard (64) with exceedences each year and a maximum of 70.1 in 1990, 1994 - 1995.		303(d) List		
		Toxics	Pesticides							NPS Assessment (DEQ, 1988)
Johnson Creek - North (Cedar Mill Creek)										
Mouth to Headwaters	22M-JOHC0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USA Data	USA Data (3 Sites: 3826001, 3826010, 3826024; RM 0.1 - 2.4): 100% (5 of 5); 100% (5 of 5); 57% (4 of 7) FWS values exceeded fecal coliform standard (400) with maximum values of 5200, 6000, 1300 respectively in 1990.		303(d) List		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data					USA Data (3 Sites: 3826001, 3826010, 3826024; RM 0.1 - 2.4): 100% (12 of 12); 100% (12 of 12); 75% (12 of 16) Summer values exceeded fecal coliform standard (400) with maximum values of 20000, 30000, 3100 respectively in 1990.
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (3 Sites: 3826001, 3826010, 3826024; RM 0.1, 1.0, 2.4): 4% (1 of 25), 0% (0 of 25), 20% (5 of 25) May to Oct values exceeded dissolved oxygen standard (6.5 mg/l) respectively with a minimum of 6.3 mg/l in 1990 (Cool water fishery, annual).	Did not meet listing criteria	OK		
		Habitat Modification			NPS Assessment - segment 27: moderate, observation (DEQ, 1988)				No supporting data or information	Need Data
		Nutrients	Phosphorus	May 1 - October 31	USA Data				USA Data (3 Sites: 3826001, 3826010, 3826024; RM 0.1 - 2.4): 100% (25 of 25, 25, 25) Summer values respectively exceeded phosphorus TMDL standard (70 ug/l) with maximum values of 1250.0, 550.0, 315.0 between 5/90 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22M-JOHC0	pH		Fall-Winter-Spring	USA Data	USA Data (3 Sites: 3826001, 3826010, 3826024; RM 0.1 - 2.4): 0% (0 of 9, 9, 9) Summer values respectively exceeded pH standard (6.5 - 8.5) in 1990.	Did not meet listing criteria	OK	
				Summer	USA Data	USA Data (3 Sites: 3826001, 3826010, 3826024; RM 0.1 - 2.4): 0% (0 of 16, 16, 16) Summer values respectively exceeded pH standard (6.5 - 8.5) in 1990.	Did not meet listing criteria	OK	
						NPS Assessment - segment 27: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (2 Sites: 3826001, 3827002; RM 0.1, 0.2): 56% (9 of 16) and 29% (13 of 33) Summer values respectively exceeded temperature standard (64) with exceedences each year and a maximum of 72.0 in 1990 and 1991.		303(d) List	
Johnson Creek - South (Beaverton Creek)									
Mouth to Headwaters	22M-JOHB0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	USA Data	USA Data (3 Sites: 3827011, 3827014, 3827024; RM 1.1 - 2.4): 56% (15 of 27); 56% (15 of 27); 26% (7 of 27) FWS values exceeded E coli standard (406) with maximum values of 4500, 2400, 2000 respectively between 1991 - 1995.		303(d) List	
				Summer	USA Data	USA Data (3 Sites: 3827011, 3827014, 3827024; RM 1.1 - 2.4): 97% (30 of 31); 100% (17 of 17); 71% (12 of 17) Summer values exceeded E coli standard (406) with maximum values of 8000, 8000, 7800 respectively between 1991 - 1995.		303(d) List	
		Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (Site at Upper reach): Index of Biotic Integrity (IBI) score of poor (<30) was found in 1 of 1 reaches with a score of 18.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-JOHB0	Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (3 Sites: 3827011, 3827014, 3827024; RM 1.1, 1.4, 2.4): 33% (17 of 51); 24% (8 of 34); 21% (7 of 34) Summer values respectively exceeded temperature standard (64) with exceedences each year and a max of 70.7 in 1994 - 1995.		303(d) List	
Knighen Creek Mouth to Headwaters	22M-KNIG0	Bacteria			NPS Assessment - segment 433: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 433: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics			NPS Assessment - segment 433: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
McFee Creek Mouth to Headwaters	22M-MCFE0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USA Data	USA Data (Site 3811010; RM 1.0): 88% (15 of 17) FWS values exceeded enterococcus standard (61) with a maximum value of 540 between 1991 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (Site 3811010; RM 1.0): 100% (33 of 33) Summer values exceeded enterococcus standard (61) with a maximum value of 6000 between 1990 - 1995.		303(d) List	
		Chlorophyll a		Summer	USA Data	USA Data (Site 3811010; RM 1.0): 3% (1 of 38) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 19 between 1990 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (Site 3811010, RM 1.0): 25% (19 of 77) May to October values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 4.7 mg/l between 1990 - 1992 (Cool water fishery, annual).		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-MCFE0	Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (Site 3811010; RM 1.0): 93% (27 of 29) Summer values exceeded phosphorus TMDL standard (45 ug/l) with a maximum value of 232.0 ug/l between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Summer	USA Data	USA Data (Site 3811010; RM 1.0): 2% (1 of 54) Summer values exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 6.2 between 1990 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USA Data	USA Data (Site 3811010; RM 1.0): 12% (3 of 25) FWS values exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 5.9 between 1991 - 1995.	Low pH value due to natural causes (low pH associated with natural rainfall), DEQ judgement	OK	
		Temperature			USA Data		No supporting data or information	Need Data	
McKay Creek									
Mouth to East Fork McKay Creek	22M-MCKA0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	USA/DEQ Data; NPS Assessment - segment 47: severe, data (DEQ, 1988)	USA Data (Site 3816024; RM 10.4): 19% (3 of 16) FWS values exceeded E coli standard (406) with a maximum value of 1300 between 1989 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA/DEQ Data; NPS Assessment - segment 47: severe, data (DEQ, 1988)	USA Data (2 Sites: 3816024, 3816160; RM 10.4, 16.0): 22% (7 of 32), 0% (0 of 5) Summer values respectively exceeded E coli standard (406) with a maximum value of 1600 between 1989 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ/USA Data; NPS Assessment - segment 47: moderate, data (DEQ, 1988)	DEQ Data (Site 404177; RM 2.2): 9% (1 of 11) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 20 between 86 - 88. USA Data (3816024; RM 10): 12% (4 of 34) exceeded standard with a maximum of 40 between 89 - 95.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 47: moderate, data (DEQ, 1988)	USA Data (Site 3816160; RM 1.6): 0% (0 of 21) May through October values exceeded dissolved oxygen standard (6.5 mg/l) between 1993 - 1995 (Cool water fishery).	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to East Fork McKay Creek	22M-MCKA0	Nutrients	Phosphorus	May 1 - October 31	USA Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 47: severe, data (DEQ, 1988)	USA Data (2 Sites: 3816024, 3816160; RM 10.4, 16.0): 98% (60 of 61), 13% (4 of 31) Summer values respectively exceeded phosphorus TMDL standard (45 ug/l) with maximum values of 186.0, 92.0 between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		Nutrients	Water (Ammonia)	May 1 - November 30	USA Data; NPS Assessment - segment 47: moderate, data (DEQ, 1988)	USA Data (Site 3816024; RM 10.4): 20% (12 of 60) Summer values exceeded ammonia TMDL standard (40) between 7/93 - 11/95.	TMDL established for Ammonia, approved (12/8/92) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (12/8/92)	Addition
		pH		Summer	DEQ/USA Data	DEQ Data (Site 404177; RM 2.2): 0% (0 of 12) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 1988. USA Data (2 Sites: 3816024, 3816160; RM 10.4, 16): 0% (0 of 7), 19% (3 of 16) exceeded standard with minimum pH value of 6.3 between 91 - 95.	Low pH value due to natural causes (low pH associated with natural rainfall), DEQ judgement	OK	
		pH		Fall-Winter-Spring	DEQ/USA Data	DEQ Data (Site 404177; RM 2.2): 0% (0 of 22) FWS values exceeded pH standard (6.5 - 8.5) between 1986 - 1989. USA Data (2 Sites: 3816160, 3816024; RM 2.4, 6): 0% (0 of 6), 33% (2 of 6) exceeded standard with minimum of 5.4 between 1989 - 1995.	Low pH value due to natural causes (low pH associated with natural rainfall), DEQ judgement	OK	
		Sedimentation			NPS Assessment - segment 47: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (Site 3816024; RM 4.0): 26% (18 of 68) Summer values exceeded temperature standard (64) with exceedences each year (except 93) and a maximum of 72.5 between 1990 - 1995.		303(d) List	
		Toxics	Water (Ammonia)	May 1 - November 30	USA Data; NPS Assessment - segment 47: moderate, data (DEQ, 1988)	USA Data (Site 3816024; RM 10.4): 0% (0 of 60) Summer values exceeded chronic ammonia criteria (salmonid) Table 20 between 7/93 - 11/95.	Did not meet listing criteria	OK	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	Waterbody	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette East Fork McKay Cr to Headwaters	22M-MCKA16.7	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USA Data	USA Data (Site 3816160; RM 16.0): 0% (0 of 4) FWS values exceeded fecal coliform standard (400) between 1991 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (Site 3816160; RM 16.0): 0% (0 of 9) Summer values exceeded fecal coliform standard (400) between 1991 - 1995.	Did not meet listing criteria	OK	
		Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (Site 3816230; RM 23.0): 0% (0 of 6) Summer values exceeded phosphorus TMDL standard (45 ug/l) between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (12/8/92)	
		pH		Fall-Winter-Spring	USA Data	USA Data (Site 3816230; RM 23.0): 17% (2 of 12) FWS values exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 6.2 between 1991 - 1994. Did not meet "Minimum Data Requirements" need at least two exceedences of the standard for a season of interest. Exceedences occurred in separate years.	Did not meet listing criteria	OK	
		pH		Summer	USA Data	USA Data (Site 3816230; RM 23.0): 8% (1 of 12) Summer values exceeded pH minimum standard (6.5 - 8.5) with a minimum value of 6.2 between 1991 - 1994.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (Site 3816160; RM 16): 7% (2 of 29) Summer values exceeded temperature standard (64) with a maximum of 68 between 1991- 1995.	Did not meet listing criteria	OK	
Nyberg Creek Mouth to Headwaters	22M-NYBEO	Bacteria	Water Contact Rec (Enterococcus)	Fall-Winter-Spring	USA Data	USA Data (Site 3838002; RM 0.2): 94% (16 of 17) FWS values exceeded enterococcus standard (61) between 1990 - 1992.		303(d) List	
		Bacteria	Water Contact Rec (Enterococcus)	Summer	USA Data	USA Data (Site 3838002; RM 0.2): 100% (33 of 33) Summer values exceeded enterococcus standard (61) between 1990 - 1992.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22M-NYBE0	Chlorophyll a		Summer	USA Data	USA Data (Site 3838002; RM 0.2): 36% (12 of 33) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 78 between 1990 - 1992. Three month average above standard in 1992.		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (Site 3838002; RM 0.2): 36% (26 of 73) May to October values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 0.9 mg/l in 1990 - 1992 (Cool water fishery,		303(d) List	
		Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (Site 3838002; RM 0.2): 100% (72 of 72) Summer values exceeded phosphorus TMDL standard (70 ug/l) with a maximum value of 618 ug/l between 5/90 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Summer	USA Data	USA Data (Site 3838002; RM 0.2): 0% (0 of 46) Summer values exceeded pH standard (6.5 - 8.5) between 1990 - 1992.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	USA Data	USA Data (Site 3838002; RM 0.2): 0% (0 of 25) FWS values exceeded pH standard (6.5 - 8.5) between 1990 - 1992.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (Site 3838002; RM 0.2): 24% (12 of 49) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 70.5 in 1991- 1992.		303(d) List	
Rock Creek Mouth to Headwaters	22M-ROCK0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA/DEQ Data; NPS Assessment - segment 24: severe, data (DEQ, 1988)	USA Data (2 Sites: 3820015, 3820047; RM 1.5, 4.7): 49% (13 of 45), 45% (13 of 45) Summer values exceeded E coli standard (406) with maximum values of 2000, 6300 respectively between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	USA/DEQ Data; NPS Assessment - segment 24: severe, data (DEQ, 1988)	USA Data (2 Sites: 3820015, 3820047; RM 1.5, 4.7): 22% (10 of 45), 13% (6 of 45) Summer values exceeded E coli standard (406) with maximum values of 5200, 2200 respectively between WY 1986 - 1995.		303(d) List	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Willamette	22M-ROCK0	Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (2 Sites: Lower, Middle): Index of Biotic Integrity (IBI) scores of poor (<30) were found in 2 of 2 reaches with scores of 28/24 respectively.		303(d) List	
		Chlorophyll a		Summer	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 24: severe, data (DEQ, 1988)	USA Data (4 Sites: RM 1.2 - 9.2): 11%(20 of 178); 13%(11 of 85); 31%(5 of 16); 31%(8 of 26) Summer values exceeded chlorophyll a standard (15 ug/l) with maximum values of 33 - 204 from 86 - 95. 3 month average above standard in 86/NA/91/89 respectively.		303(d) List	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	November 1 - April 30	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 24: severe, data (DEQ, 1988)	USA Data (2 Sites: 3820015, 3820047; RM 1.5, 4.7): 0% (0 of 29), 8% (3 of 27) November through April values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 3.6 mg/l between 1994 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 24: severe, data (DEQ, 1988)	USA Data (2 Sites: 3820015, 3820047; RM 1.5, 4.7): 50% (28 of 56), 79% (41 of 52) May - October values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 1.2 mg/l between 1994 - 95 (Cool water fishery, annual).		303(d) List	
		Habitat Modification			NPS Assessment - segment 24: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Water (Ammonia)	May 1 - November 30	USA Data; NPS Assessment - segment 24: moderate, data (DEQ, 1988)	USA Data (Site 3820015; RM 1.2): 0% (0 of 93) Summer values exceeded ammonia TMDL standard (100) between 7/93 - 11/95.	TMDL established for Ammonia, approved (12/8/92) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (12/8/92)	Addition
		Nutrients	Phosphorus	May 1 - October 31	USA Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 24: severe, data (DEQ, 1988)	USA Data (3 Sites: 3820015, 3820047, 3820145; RM 1.5 - 14.5): 100%(88 of 88), 100%(70 of 70), 50%(4 of 8) Summer values respectively exceeded phosphorus TMDL standard (70 ug/l) with maximum values of 339.0, 457.0, 180.0 between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22M-ROCK0	pH		Summer	DEQ/USA Data	DEQ Data (3 Sites: 402169, 402147, 402149; RM 0.8 - 9.2): 0% (0 of 8, 20, 7) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 1988. USA Data (4 Sites: RM 1.5 - 9.2): 0% (0 of 180, 99, 32, 33) exceeded standard between 1986 - 1995.	Did not meet listing criteria	OK	
				Fall-Winter-Spring	DEQ/USA Data	DEQ Data (2 Sites: 402147, 402149; RM 1.3, 9.2): 0% (0 of 32, 12) FWS values exceeded pH standard (6.5 - 8.5) between 1986 - 1989. USA Data (4 Sites; RM 1.5 - 9.2): 2% (3 of 193), 0% (0 of 74, 18, 18) respectively with a minimum of 6.3 between 1986 - 95.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 24: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA/DEQ Data	USA Data (Site 3820015; RM 1.2): 33% (61 of 185) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 72.5 between 1986 - 1995.		303(d) List	
		Toxics	Water (Ammonia)	May 1 - November 30	USA Data; NPS Assessment - segment 24: moderate, data (DEQ, 1988)	USA Data (Site 3820015; RM 1.2): 0% (0 of 93) Summer values exceeded chronic ammonia criteria (salmonid) Table 20 between 7/93 - 11/95.	Did not meet listing criteria	OK	
Rock Creek, South Mouth to Headwaters	22M-ROCS0	Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (2 Sites: Middle, Upper): Index of Biotic Integrity (IBI) scores of poor (<30) were found in 2 of 2 reaches with scores of 22/22 respectively.		303(d) List	
Scoggins Creek Mouth to Hagg Lake (Scoggins Res)	22M-SCOG0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	DEQ/USA Data; NPS Assessment - segment 24: moderate, data (DEQ, 1988)	USA Data (2 Sites: 3805015, 3805048; RM 1.5, 4.8): 0% (0 of 34), 0% (0 of 16) FWS values respectively exceeded E coli standard (406) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Hagg Lake (Scoggins Res)	22M-SCOG0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	DEQ/USA Data; NPS Assessment - segment 24: moderate, data (DEQ, 1988)	USA Data (2 Sites: 3805015, 3805048; RM 1.5, 4.8): 0% (0 of 32), 0% (0 of 31) Summer values respectively exceeded E. coli standard (406) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	USA/DEQ Data	USA Data (Site 402164; RM 1.6): 0% (0 of 41) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	May 1 - October 31	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 24: moderate, data (DEQ, 1988)	USA Data (Site 3805015; RM 1.5): 0% (0 of 15) May through November values exceeded dissolved oxygen standard (8 mg/l or 90% saturation) between 1986 - 1995 (Cold water rearing).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		November 1 - April 30	USA/DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 24: moderate, data (DEQ, 1988)	USA Data (Site 3805015; RM 1.5): 4% (8 of 20) November through April values exceeded dissolved oxygen standard (11 mg/l or 95% saturation) with a minimum of 9.9 (84% sat) between 1993 - 1995 (Cold water spawning).		303(d) List	
		Nutrients	Water (Ammonia)	May 1 - November 30	USA Data	USA Data (Site 3805015; RM 1.5): 8% (5 of 64) Summer values exceeded ammonia TMDL standard (30) between 7/93 - 11/95;	TMDL established for Ammonia, approved (12/8/92) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (12/8/92)	Addition
		Nutrients	Phosphorus	May 1 - October 31	USA Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 24: moderate, data (DEQ, 1988)	USA Data (2 Sites: 3805015, 3805048; RM 1.5, 4.8): 3% (2 of 61), 0% (0 of 61) Summer values respectively exceeded phosphorus TMDL standard (60 ug/l) with a maximum value of 86.0 ug/l between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH		Summer	USA/DEQ Data	USA Data (Site 3805015; RM 1.5): 0% (0 of 9) Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Hagg Lake (Scoggins Res)	22M-SCOG0	pH		Fall-Winter-Spring	DEQ/USA Data	DEQ Data (Site 402164; RM 1.6): 0% (0 of 13) FWS values exceeded pH standard (6.5 - 8.5) between 1986 - 1987. USA Data (Site 380515; RM 1.5): 5% (2 of 37) exceeded standard with a minimum of 6.2 between 1986 - 1995.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (Site 3805015; RM 1.7): 1% (1 of 70) Summer values exceeded temperature standard (64) with a maximum of 64.4 between 1986 - 1995.	Did not meet listing criteria	OK	
		Toxics	Water (Ammonia)	May 1 - November 30	USA Data	USA Data (Site 3805015; RM 1.5): 0% (0 of 64) Summer values exceeded chronic ammonia criteria (salmonid) between 7/93 - 11/95.	Did not meet listing criteria	OK	
Summer Creek									
Mouth to Headwaters	22M-SUMM0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USA Data	USA Data (Site 3844018; RM 1.8): 50% (3 of 6) FWS values exceeded fecal coliform standard (400) with a maximum value of 1000 in 1990.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (Site 3844018; RM 1.8): 33% (4 of 12) Summer values exceeded fecal coliform standard (400) with a maximum value of 1500 in 1990.		303(d) List	
		Biological Criteria	Fish Communities		ODFW (1995)	ODFW Data (3 Sites: Lower, Middle, Upper): Index of Biotic Integrity (IBI) scores of poor (<30) were found in 3 of 3 reaches with scores of 26/20/12 respectively.		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (Site 3844018; RM 1.8): 92% (23 of 25) May to October exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 0.7 mg/l in 1990 (Cool water fishery, annual).		303(d) List	
		Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (Site 3844018; RM 1.8): 100% (25 of 25) Summer values exceeded phosphorus TMDL standard (70 ug/l) with a maximum value of 255 ug/l between 5/90 - 10/95.	TMDL established, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	

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Basin	Willamette	Sub	Tualatin							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Headwaters	22M-SUMM0	pH		Fall-Winter-Spring	USA Data	USA Data (Site 3844018; RM 1.8): 0% (0 of 9) FWS values exceeded pH standard (6.5 - 8.5) between 1990.	Did not meet listing criteria	OK		
		pH		Summer	USA Data	USA Data (Site 3844018; RM 1.8): 0% (0 of 16) Summer values exceeded pH standard (6.5 - 8.5) in 1990.	Did not meet listing criteria	OK		
		Sedimentation				NPS Assessment - segment 23: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (Site 3844018; RM 1.8): 69% (11 of 16) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 70.3 in 1990.			303(d) List	
Sylvan Creek Mouth to Headwaters	22M-SYLV0	Habitat Modification			NPS Assessment - segment 21: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
		Sedimentation			NPS Assessment - segment 21: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data		
Tualatin River Mouth to Dairy Creek	22M-TUAL0	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	USA/DEQ Data; USGS Data; NPS Assessment - segment 18: moderate, data (DEQ, 1988)	USA Data (8 Sites: RM 0.2 - 39.0): 4% (2 of 49, 45); 7% (3 of 46); 4% (2 of 49); 0% (0 of 46, 13, 10, 48) FWS values respectively exceeded E coli standard (406) with maximum values of 800, 600, 980, 1200, between WY 1986 - 1995.		303(d) List		
		Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	USA/DEQ Data; USGS Data; NPS Assessment - segment 18: moderate, data (DEQ, 1988)	USA Data (8 Sites: RM 0.2 - 39.0): 0% (0 of 42, 41, 42, 5); 5% (2 of 42, 41); 2% (1 of 41); 12% (2 of 17) Summer values exceeded E coli standard (406) with maximum values of 1200, 980, 1000, 1600 between WY 1986 - 1995.		303(d) List		
		Chlorophyll a		Summer	DEQ/USA/USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 18: severe, data (DEQ, 1988)	USA Data (13 Sites: RM 0.2-40.0): 8 Sites had 8 - 83%; 5 Sites had 0% Summer values exceeding chlorophyll a standard (15 ug/l) with max values of 24 - 640 from 86 - 95. 8 Sites (RM 0.1-27) had 3 month averages above standard in 86 - 95. DEQ Data also.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)		

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Dairy Creek	22M-TUAL0	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	November 1 - April 30	DEQ/USA/USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 18: severe, data (DEQ, 1988)	USA Data (6 Sites: RM 0.2; 5.4; 8.0; 16.2; 27.1; 38.5): 0% (0 of 26)/1% (1 of 90)/5% (3 of 55)/0% (0 of 71)/0% (0 of 86)/0% (0 of 25) Nov - Apr values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a min of 6.0 from 94 - 95 (Cool water).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	DEQ/USA/USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 18: severe, data (DEQ, 1988)	USA Data (5 Sites: RM 0.2, 5.4, 8.0, 16.2, 27.1): 0% (0 of 53)/28% (182 of 657)/7% (24 of 332)/6% (29 of 456)/2% (10 of 577) May - Oct values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a min of 0.1 mg/l from 94-95; Cool water fishery.	TMDL established for ammonia and phosphorus, approved (12/8/92, 1/27/94) and being implemented	TMDL Approved (12/8/92)		
		Flow Modification				NPS Assessment - segment 18: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Water (Ammonia)	May 1 - November 30	USA/DEQ Data	USA/DEQ Data (4 Sites: RM 5.5 - 39.0): 7%(13 of 182); 2%(3 of 147); 7%(1 of 14); 17%(3 of 18) Summer values exceeded ammonia TMDL standard between 7/93 - 11/95.	TMDL established for Ammonia, approved (12/8/92) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (12/8/92)	Addition	
		Nutrients	Phosphorus	May 1 - October 31	DEQ/USA/USGS Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 18: severe, data (DEQ, 1988)	USA Data (10 Sites: RM 0.2 - 38.5): 83 - 100% (10 - 135 of 12 - 140) Summer values exceeded phosphorus TMDL standard (50 - 70 ug/l) with maximum values of 125 - 750 between 7/93 - 10/95. DEQ Data available.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)		
		pH		Fall-Winter-Spring	DEQ/USA/USGS Data	DEQ Data (7 Sites: RM 5.5 - 39): 0%(0 of 5, 82, 57); 8%(1 of 12); 1%(1 of 72); 2%(1 of 57) FWS values exceeded pH standard (6.5 - 8.5) with minimums of 6.4 from 86-95; USA (13 Sites: RM 0.2 - 40): 0 - 6%(0 - 4 of 6 - 854); minimums of 5.9 - 6.4; max 8.6; 86-95.	Did not meet listing criteria	OK		

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Basin <i>Willamette</i>	Sub	<i>Tualatin</i>							
Name & Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Dairy Creek	22M-TUAL0	pH		Summer	DEQ/USA/USGS Data	DEQ Data (7 Sites: RM 5.5 - 39): 3%(1 of 31); 0%(0 of 8, 57, 52, 61, 27, 49) Summer values exceeded pH standard (6.5 - 8.5) with a max of 8.9 from 86-95; USA (13 Sites: RM 0.2 - 40): 0 - 1%(1 - 20 of 126 - 1701); minimums of 5.6 - 6.4; maxs 8.8 - 9.8; 86-95.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 18: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ/USA/USGS Data; NPS Assessment - segment 18: severe, observation (DEQ, 1988)	USA Data (6 Sites: From RM 0.2 - 27.1): 81% (81 of 130); 73% (1681 of 2292); 74% (896 of 1215); 62% (486 of 786); 60% (1069 of 1788); 41% (712 of 1739) Summer values exceeded temp standard (64) with exceedences each year and a maximum of 79 from 86 - 95.		303(d) List	
		Toxics	Pesticides (Water)		NPS Assessment - segment 18: severe, observation (DEQ, 1988); Willamette River Basin Water Quality Study Phase I and II, USGS data	USGS Data chlopyrfos, dieldrin, lindane and malathion were detected, but not above water quality standards. Atrazine, Carbaryl, Chlorpyrifos, Cycloate, Desethylatrazine, Diazinon, Diphenamid, Diuron, DCPA, p,p' DDE, Endosulfan, Ethoprop, EPTC, Metolachlor, Napropamide, Pronamide, Prometon, Simazine, Terbacil, Tebuthiuron, Trifluralin and 2,4-D were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
		Toxics	Water (Ammonia)	May 1 - November 30	USA/DEQ Data	USA/DEQ Data (4 Sites: RM 5.5 - 39.0): 3%(5 of 182), 0%(0 of 147, 14, 18) values exceeded chronic ammonia criteria (salmonid) Table 20.	Did not meet listing criteria	OK	Status Modification

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Basin <i>Willamette</i>	Sub	<i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Dairy Creek	22M-TUAL0	Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Total Dioxin and Furans (Fish Tissue)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in fish tissue. There are no standards for fish tissue concentrations. Concentration values did not exceed various guidance levels used to determine whether compounds are elevated. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.	Did not meet listing criteria	OK	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Fish Tissue)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in fish tissue.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Chromium, Copper, Lead, Nickel, and Zinc were found in water, but levels were below the water quality standards Table 20 values. No other trace metals were found.	Did not meet listing criteria	OK	Addition
Dairy Creek to Roaring Creek	22M-TUAL45	Bacteria	Water Contact Recreation (E. coli) Fresh Water	Fall-Winter-Spring	DEQ/USA Data; NPS Assessment - segment 16 and 17: moderate/severe, data (DEQ, 1988)	USA Data (4 Sites: 3701420, 3701528, 3701588, 3701678; RM 45.0 - 67.8): 0% (0 of 46); 2% (1 of 45); 2% (1 of 46); 0% (0 of 37) FWS values respectively exceeded E coli standard (406) with maximum values of 520, 540 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (E. coli) Fresh Water	Summer	DEQ/USA Data; NPS Assessment - segment 16 and 17: moderate/severe, data (DEQ, 1988)	USA Data (4 Sites: 3701420, 3701528, 3701588, 3701678; RM 45.0 - 67.8): 13% (5 of 40); 0% (0 of 40); 2% (1 of 41); 0% (0 of 31) Summer values respectively exceeded E coli standard (406) with maximum values of 880, 620 between 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ/USA Data	USA Data (5 Sites: RM 45.0-67.8): 2%(2 of 118); 3 month average above standard in 92/1%(1 of 152)/0%(0 of 17, 169, 37) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with maximum values of 38, 20 between 1986 - 1995. DEQ Data also.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Dairy Creek to Roaring Creek	22M-TUAL45	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	November 1 - April 30	USA/DEQ Data	USA Data (4 Sites: 3701420, 3701528, 3701588, 3701678; RM 45, 52.8, 58.8, 67.8): 0% (0 of 24)/0% (0 of 25)/0% (0 of 24)/0% (0 of 17) November - April values respectively exceeded dissolved oxygen standard (6.5 mg/l) between 94 - 95 (Cool water fishery).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	DEQ/USA Data	USA Data (3 Sites: 3701420, 3701528, 3701588; RM 45.0, 52.8, 58.8): 0% (0 of 53)/0% (0 of 57)/0% (0 of 57) May through October values respectively exceeded dissolved oxygen standard (6.5 mg/l) between 1994 - 1995 (Cool water fishery).	Did not meet listing criteria	OK		
		Habitat Modification				NPS Assessment - segment 16: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31		USA Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 16: moderate, data (DEQ, 1988)	USA Data (4 Sites: 3701420, 3701528, 3701588, 3701678; RM 45 - 67.8): 100%(71 of 71); 33%(29 of 89); 13%(12 of 89); 18%(11 of 61) Summer values respectively exceeded phosphorus TMDL standard (20 - 45 ug/l) with maximums of 38 - 213 between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		Nutrients	Water (Ammonia)	May 1 - November 30		USA Data	USA Data (3 Sites: 3701528, 3701588, 3701678; RM 52.6 - 67.8): 3% (3 of 96), 5%(5 of 96), 0%(0 of 64) Summer values respectively exceeded ammonia TMDL standard between 7/93 - 11/95.	TMDL established for Ammonia, approved (12/8/92) and being implemented. TMDL is part of the Tualatin TMDL package.	TMDL Approved (12/8/92)	Addition
		pH		Fall-Winter-Spring		DEQ/USA Data	DEQ Data (3 Sites: RM 52.6 - 71.3): 0%(0 of 12, 12, 14) FWS values respectively exceeded pH standard (6.5 - 8.5) between 86-87. USA Data (4 Sites: RM 45 - 67.8): 0%(0 of 133, 162, 10); 2%(3 of 171); 3%(1 of 31) with minimums of 6.2, 6.3 between 86 - 95.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Dairy Creek to Roaring Creek	22M-TUAL45	pH		Summer	DEQ/USA Data	DEQ Data (3 Sites: 402133, 402136, 402555; RM 52.6 - 71.3): 0% (0 of 5, 8, 8) Summer values respectively exceeded pH standard (6.5 - 8.5) between 1986 - 1987. USA Data (4 Sites: RM 45 - 60): 0% (0 of 116, 142, 17, 158) exceeded standard between 86 - 95.	Did not meet listing criteria	OK	
			Sedimentation			NPS Assessment - segment 16 and 17: severe, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (4 Sites: 3701420, 3701528, 3701588, 3701678 ; RM 45.0, 52.8, 58.8, 67.8): 1% (1 of 118); 1% (1 of 173); 1% (1 of 179); 2% (1 of 65) Summer values respectively exceeded temperature standard (64) with a maximum of 68.7 between WY 1986 - 1995.	Did not meet listing criteria	OK	
Roaring Creek to Headwaters	22M-TUAL72	Toxics	Water (Ammonia)	May 1 - November 30	USA Data	USA Data (3 Sites: 3701528, 3701588, 3701678; RM 52.6 - 67.8): 0%(0 of 96, 96, 64) values exceeded chronic ammonia criteria (salmonid).	Did not meet listing criteria	OK	
			Habitat Modification			NPS Assessment - segment 15: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	USA Data	USA Data (Site 3701745; RM 74.5): 4% (1 of 25) Summer values exceeded temperature standard (64) with a maximum of 64.4 between 1989 - 1991.	Did not meet listing criteria	OK	
Waible Creek Mouth to Headwaters	22M-WAIB0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (Site 3814011; RM 1.1): 11% (1 of 9) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 in 1990.	Did not meet listing criteria	OK	
		Nutrients	Phosphorus	May 1 - October 31	USA Data	USA Data (Site 3814011; RM 1.1): 100% (12 of 12) Summer values exceeded phosphorus TMDL standard (70 ug/l) with a maximum value of 252 ug/l between 5/90 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Walton Creek Mouth to Headwaters	22M-WALTO	Nutrients			NPS Assessment - segment 434: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 434: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Pesticides		NPS Assessment - segment 434: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Wapato Creek Mouth to Headwaters	22M-WAPA0	Dissolved Oxygen (DO)			NPS Assessment - segment 19: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 19: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 19: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 19: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Williams Canyon Creek Mouth to headwaters	22M-WILLO	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered impaired with a Discriminant Score of <61 points. Discriminant score was 20, however, site was not listed as "impaired" because samples did not meet minimum sample size requirements.	Did not meet listing criteria	Potential Concern	Addition
Willow Creek Mouth to Headwaters	22M-WILLO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	USA Data	USA Data (Site 3825004; RM 0.4): 36% (4 of 11) FWS values exceeded fecal coliform standard (400) with a maximum value of 2000 between 1990 - 1994.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USA Data	USA Data (Site 3825004; RM 0.4): 40% (8 of 20) Summer values exceeded fecal coliform standard (400) with a maximum value of 1400 between 1990 - 1994.		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Tualatin</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Name && Description	Waterbody Segment	Parameter	Criteria	Season						
Mouth to Headwaters	22M-WILLO	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	USA Data	USA Data (2 Sites: 3825004, 3825023; RM 0.4, 2.3): 85% (29 of 34), 48% (12 of 25) May to October values respectively exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 2.1 mg/l between 1990 - 1994 (Cool water fishery, annual).		303(d) List		
		Habitat Modification				NPS Assessment - segment 29: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Nutrients	Phosphorus		May 1 - October 31	USA Data	USA Data (Site 3825004; RM 0.4): 100% (9 of 9) Summer values exceeded phosphorus TMDL standard (70 ug/l) with a maximum value of 263.0 ug/l between 7/93 - 10/95.	TMDL established for phosphorus, approved (1/27/94) and being implemented	TMDL Approved (1/27/94)	
		pH			Summer	USA Data	USA Data (2 Sites: 3825004, 3825023; RM 0.4 - 2.3): 0% (0 of 21, 16) Summer values respectively exceeded pH standard (6.5 - 8.5) between 1990 - 1994.	Did not meet listing criteria	OK	
		pH			Fall-Winter-Spring	USA Data	USA Data (2 Sites: 3825004, 3825023; RM 0.4, 2.3): 0% (0 of 13, 9) FWS values respectively exceeded pH standard (6.5 - 8.5) between 1990 - 1994.	Did not meet listing criteria	OK	
		Sedimentation					NPS Assessment - segment 29: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature		Rearing 64 F (17.8 C)		Summer	USA Data	USA Data (2 sites: 3825004, 3825023; RM 0.4, 2.3): 43% (9 of 21) and 31% (5 of 16) Summer values respectively exceeded temperature standard (64) with exceedences each year and a maximum of 72.0 in 1990.		303(d) List

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
A-3 Drain Mouth to Headwaters	22E-A3DR0	Toxics	Pesticides (Sediments)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Sediment - Trace Metals	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Antimony, Arsenic, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Silver and Zinc were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22E-A3DR0	Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin was found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Tetrachloroethylene was found above the water quality standards Table 20 values of .8 ug/l, range was 1.1 to 1.8 ug/l.		303(d) List	Addition
		Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	1,1Dichloroethylene were found above the water quality standards Table 20 values of .033 ug/l, range was .2 to .3 ug/l		303(d) List	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Chromium, Copper, Iron, Lead, Manganese and Zinc were found above the water quality standard, Table 20 value, once. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time are needed) .	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Trace Metals (Water)(Arsenic)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Arsenic found above water quality standard (2.2ng/l, Table 20) 2/2 times, range 1.2 to 4.0 ug/l.		303(d) List	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, 2,4-D and Diazinon were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22E-A3DR0	Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Acenaphthene, Benzo(A)anthracene, Benzo(GHI)perylene, Benzo(K)fluoranthene, Benzo(A)Pyrene, Bis(2Ethylhexyl)phthalate, Chrysene, Fluoranthene, Phenol and Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.</p> <p>Acenaphthylene, Benzo(B)fluoranthene, Butylbenzylphthalate, Di-n-butylphthalate, 2-EthylNapthalene, 9H-Fluoranthene, Indeno123-cdpyrene, 1,6-di-methylnapthalene, 1-Methylphenanthrene, 1-Methylpyrene, 2,3,6-Trimethylnapthalene, 2,6-Dimethylnapthalene, 2-Methylantracene, N-nitrosodiphenylamine, Naphthalene, P-cresol and phenanthrene were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations.</p> <p>No other PAHs, Semi or Volatile Organics were detected.</p>	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22E-A3DR0	Toxics	Sediment - PAH's, Phthalates	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	PAH's and Phthalates were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	
		Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Trichloroethylene was found in elevated levels, however, below the water quality standards Table 20 values. Trichloromethane, Cis-1,2-dichloroethene, 1,1dichloroethane, Methylenechloride, 1,1,1-trichloroethane were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations. No other PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22E-A3DR0	Toxics	Sediment - Pesticides	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	DDT, Chlordane, 2,4-D were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	
		Toxics	Sediment - Pentachlorophenol		Willamette River Basin Water Quality Study Phase I and II, USGS data	Pentachlorophenol was found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Antimony, Cadmium and Nickel were found in water, but levels were below the water quality standards Table 20 values. No other trace metals were found.	Did not meet listing criteria	OK	Addition
Amazon Creek Mouth to Headwaters	22E-AMAZ0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 181: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22E-AMAZ0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	NPS Assessment - segment 181: moderate, data (DEQ, 1988)	National Urban Runoff Data (LCOG): fecal coliform data.	No supporting data or information	Need Data	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	NPS Assessment - segment 181: moderate, data (DEQ, 1988)	National Urban Runoff Data (LCOG): fecal coliform data.	No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 181: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 181: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 181: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 181: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 181: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Dioxin 2,3,7,8 TCDD (Fish Tissue)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in fish tissue.	Did not meet listing criteria	OK	Addition
		Toxics	Total Dioxin and Furans (Fish Tissue)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in fish tissue. There are no standards for fish tissue concentrations. Concentration values did not exceed various guidance levels used to determine whether compounds are elevated. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22E-AMAZ0	Toxics	Sediment - Metals (Cadmium, Copper, Lead, Zinc)		USGS Data	Cadmium, Copper, Lead, Zinc were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	
		Toxics	Sediment - PAH's, Phthalates		USGS Data	PAH's, Phthalates were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22E-AMAZ0	Toxics	Sediment - Pesticides (DDT, Chlordane)		USGS Data	DDT, Chlordane were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
Amazon Creek Division Channel									
Mouth to Headwaters	22E-ACDC0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 181: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	LCOG Data	LCOG Data (Site AM-RO at Royal Avenue): 47% (7 of 15) annual values exceeded fecal coliform standard (400) with a maximum of 4000 between 1981 - 1982 (LCOG, 1983).		303(d) List	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22E-ACDC0	Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	November 1 - April 30	LCOG Data; NPS Assessment - segment 181: severe, observation (DEQ, 1988)	LCOG Data (Site AM-RO, at Royal Ave, 314LCOG001): 0% (0 of 11) November through April values exceeded dissolved oxygen standard (6.5 mg/l) between 1981 - 1984 (Cool water fishery, annual).	Did not meet listing criteria	OK	
				May 1 - October 31	LCOG Data; NPS Assessment - segment 181: severe, observation (DEQ, 1988)			303(d) List	
		Habitat Modification		NPS Assessment - segment 181: moderate, data (DEQ, 1988)	No supporting data or information		Need Data		
		Nutrients		NPS Assessment - segment 181: moderate, data (DEQ, 1988)	No supporting data or information		Need Data		
		pH	Fall-Winter-Spring	LCOG Data	LCOG Data (Site AM-RO, at Royal Ave, 314LCOG001): 0% (0 of 14) FWS values exceeded pH standard (6.5 - 8.5) between 1981 - 1984.		Did not meet listing criteria	OK	
		pH	Summer	LCOG Data	LCOG Data (Site AM-RO, at Royal Ave, 314LCOG001): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) between 1981 - 1984.		Did not meet listing criteria	OK	
		Sedimentation		NPS Assessment - segment 181: moderate, data (DEQ, 1988)	No supporting data or information		Need Data		
		Toxics		NPS Assessment - segment 181: moderate, data (DEQ, 1988)	No supporting data or information		Need Data		
Berry Creek Mouth to Headwaters	22E-BERR0	Dissolved Oxygen (DO) Temperature			NPS Assessment - segment 388: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
					NPS Assessment - segment 388: severe, data (DEQ, 1988)			Need Data	
		Toxics	Pesticides	NPS Assessment - segment 388: moderate, data (DEQ, 1988)	No supporting data or information			Need Data	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Calapooia River Mouth to Brush Creek	22E-CALAO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 72: moderate, data (DEQ, 1988)	DEQ Data (Site 402860; RM 3.0): 10% (3 of 30) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 between 1987 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 72: moderate, data (DEQ, 1988)	DEQ Data (Site 402860; RM 3.0): 31% (14 of 45) FWS values exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (2 Sites: 402860, 402861; RM 3.0, 9.6): 7% (3 of 46), 0% (0 of 9) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with a maximum value of 26 between 1987 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402860; RM 3.0): 1% (1 of 95) Annual values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 6.2 mg/l between WY 1986 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 72: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402860; RM 3.0): 0% (0 of 44) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (2 Sites: 402860, 402861; RM 3.0, 9.6): 0% (0 of 47, 11) Summer values respectively exceeded pH standard (6.5 - 8.5) between 1987 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 72: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Brush Creek	22E-CALAO	Temperature	Rearing 64 F (17.8 C)	Summer	USGS Data (1990); DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 72: moderate, data (DEQ, 1988)	USGS Data (Site near McKenzie Br): 7 day average of daily maximums of 78.8 with 105 days exceeding temperature standard (64) in 90; DEQ Data (402860; RM 3.0): 94% (44 of 47) Summer values exceeded standard (64) between WY 86 - 95 with a maximum of 80.6.		303(d) List	
		Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Arsenic, Chromium, Copper, Manganese and Nickel were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No pesticides were detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Ametryn, Atrazine, Desethylatrazine, Desisoproylatrazine, Diuron, Hexazinone, Lindane, Metolachlor, Metribuzin, Prometon, Pronamide, Propachlor, Propazine, Simazine, Terbacil, and Triclopyr were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Brush Creek	22E-CALA0	Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Benzo(K)fluoranthene, Benzo(A)Pyrene, Bis(2 Ethylhexyl)phthalate, Fluoranthene, Phenol and Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.</p> <p>Benzo(B)fluoranthene, Butylbenzylphthalate, Di-n-butylphthalate, Diethylphthalate, Indeno123-cdpyrene, P-cresol and phenanthrene were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations.</p> <p>No other PAHs, Semi or Volatile Organics were detected.</p>	Did not meet listing criteria	OK	Addition
Brush Creek to Headwaters	22E-CALA40.5	Sedimentation			NPS Assessment - segment 74: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 74: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
Coyote Creek Mouth to Headwaters	22E-COY00	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	LCOG Data	LCOG Data (Site CO-CN, at Cantrell Rd, 314LCOG002): 88% (15 of 17) Annual values exceeded fecal coliform standard (400) with a maximum of 100,000 between 1981 - 1982 (LCOG, 1983).		303(d) List	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	November 1 - April 30	LCOG Data	LCOG Data (Site CO-CN, at Cantrell Rd, 314LCOG002): 0% (0 of 10) November through April values exceeded dissolved oxygen standard (6.5 mg/l) between 1981 - 1984 (Cool water fishery, annual).	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22E-COY00	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	LCOG Data	LCOG Data (Site CO-CN, at Cantrell Rd, 314LCOG002): 38% (3 of 8) May-October values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 3.5 mg/l between 1981 - 1984 (Cool water fishery, annual).		303(d) List	
		pH		Summer	LCOG Data	LCOG Data (Site CO-CN, at Cantrell Rd, 314LCOG002): 0% (0 of 7) Summer values exceeded pH standard (6.5 - 8.5) between 1981 - 1984.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	LCOG Data	LCOG Data (Site CO-CN, at Cantrell Rd, 314LCOG002): 0% (0 of 14) Summer values exceeded pH standard (6.5 - 8.5) between 1981 - 1984.	Did not meet listing criteria	OK	
Dixon Creek Mouth to Headwaters	22E-DIX00	Flow Modification			NPS Assessment - segment 390: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Ferguson Creek Mouth to Headwaters	22E-FERG0	Sedimentation			NPS Assessment - segment 200: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Fern Ridge Reservoir Reservoir	22E.FERN	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 178: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	NPS Assessment - segment 178: moderate, data (DEQ, 1988)	LCOG Data (Site FR-PO, Mid Pool): 30% (3 of 10) FWS monthly samples exceeded fecal coliform standard (400) with a maximum of 2640 between 1981 - 1982 (LCOG, 1983)		303(d) List	
		Habitat Modification			NPS Assessment - segment 178: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 178: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 178: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Reservoir	22E.FERN	Temperature			NPS Assessment - segment 178: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics			NPS Assessment - segment 178: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Turbidity			NPS Assessment - segment 178: moderate, data (DEQ, 1988)	Fern Ridge Clean Lakes Study - Reservoir is typically clearest in May and June (secchi reading of 6.5 feet) but by August visibility is limited to 1 to 2 feet which can be unsafe for swimming (LCOG, 1983).			303(d) List
Fox Hollow Creek Mouth to Headwaters	22E-FOXH0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered impaired with a Discriminant Score of <61 points. Discriminant score was 53, however, site was not listed as "impaired" because samples did not meet minimum sample size requirements.	Did not meet listing criteria	Potential Concern	Addition
Greasy Creek Mouth to Headwaters	22E-GREA0	Sedimentation			NPS Assessment - segment 437: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Joint Creek Mouth to Headwaters	22E-JOIN0	Habitat Modification			NPS Assessment - segment 387: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 387: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Lake Camous Creek Mouth to headwaters	22E-LACA0	Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Diuron, Metolachlor, Pronamide, Simazine, 2,4-D and EPTC were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
Little Luckiamute River Mouth to Falls City falls	22E-LULI0	Flow Modification			NPS Assessment - segment 393: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Falls City falls	22E-LULI0	Sedimentation			NPS Assessment - segment 393: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Falls City falls to Headwaters	22E-LULI13	Flow Modification			NPS Assessment - segment 394: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 394: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Long Tom River									
Mouth to Fern Ridge Reservoir	22E-LONG0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 177: moderate, data (DEQ, 1988)	DEQ Data (Site 402820; RM 4.7): 33% (14 of 42) FWS values exceeded fecal coliform standard (400) with a maximum value of 1600 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402820; RM 4.7): 6% (2 of 31) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402820; RM 4.7): 3% (1 of 39) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 31 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 177: moderate, observation (DEQ, 1988)	DEQ Data (Site 402820; RM 4.7): 5% (4 of 87) Annual values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 5.1 mg/l between WY 1986 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 177: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 177: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 177: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Fern Ridge Reservoir	22E-LONG0	pH		Summer	DEQ Data	DEQ Data (Site 402820; RM 4.7): 7% (3 of 42) Summer values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 8.7 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402820; RM 4.7): 0% (0 of 42) FWS values exceeded pH maximum standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 177: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 177: moderate, observation (DEQ, 1988)	DEQ Data (Site 402820; RM 4.7): 98% (41 of 42) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 84.2 in WY 1986 - 1995.		303(d) List	
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Bromacil, Butylate, Cycloate, Desethylatrazine, Desisoproylatrazine, Dinoseb, Diuron, Hexazinone, Metolachlor, Metribuzin, Prometon, Pronamide, Simazine, Terbacil, Trifluralin, Triclopyr, Vernolate and EPTC were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
Fern Ridge Reservoir to Swamp Creek	22E-LONG29.5	Sedimentation			NPS Assessment - segment 179: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
		Temperature			NPS Assessment - segment 179: moderate, observation (DEQ, 1988)	No supporting data or information	Need Data		
Fern Ridge Reservoir to Headwaters	22E-LONG30	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered a Potential Concern with a Discriminant Score of 61 to 75 points. Discriminant score was 79, however, the Multimetric score was 50 which is low.	Did not meet listing criteria	Potential Concern	Addition

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Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Luckiamute River Mouth to Pedee Creek	22E-LUCK0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 391 and 392: moderate, data (DEQ, 1988)	DEQ Data (Site 402336; RM 12.6): 14% (1 of 7) Summer values exceeded fecal coliform standard (400) with a maximum value of 430 between WY 1982 - 1985.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 391 and 392: moderate, data (DEQ, 1988)	DEQ Data (Site 402336; RM 12.6): 38% (4 of 11) FWS values exceeded fecal coliform standard (400) with a maximum value of 11000 between WY 1982 - 1985.			303(d) List
		Dissolved Oxygen (DO)		Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402336, RM 12.6): 0% (0 of 7) Summer values exceeded pH standard (6.5 to 8.5) between 1982 - 1985.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402336, RM 12.6): 0% (0 of 11) Fall through Spring values exceeded pH standard (6.5 to 8.5) between 1982 - 1985.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 391: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	AAtrazine, Cycloate, Hexazinone, Metolachlor, Simazine and Terbacil were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
Pedee Creek to Headwaters	22E-LUCK30.2	Sedimentation			NPS Assessment - segment 395: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mary's River Mouth to Greasy Creek	22E-MARY0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 456: severe, data (DEQ, 1988)	DEQ Data (Site 402041; RM 0.2): 9% (3 of 33) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Greasy Creek	22E-MARY0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 456: severe, data (DEQ, 1988); City of Corvallis data 1997	DEQ Data (Site 402041; RM 0.2): 24% (11 of 45) FWS values exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 1986 - 1995. City of Corvallis two sites 1996/97 showed no exceedence of E. coli standard of (406).		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402041; RM 0.2): 0% (0 of 43) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 456: moderate, data (DEQ, 1988); City of Corvallis data 1997	DEQ Data (Site 402041; RM 0.2): 0% (0 of 95) Annual values exceed dissolved oxygen standard (6.5 mg/l) between WY 1986 - 1995 (Cool water fishery, annual). City of Corvallis showed no exceedence of DO standard for cool water aquatic resources.	Did not meet listing criteria	OK	
		Flow Modification			USGS (1990); IWR (ODFW); WRD Data; ODFW (1990)	Cutthroat populations are suspected to be declining due to degradation and loss of habitat, low flows have been suggested to be the most critical factor (ODFW, 93); IWR (70748) is often not met at USGS gage (14171000).		303(d) List	
		pH		Summer	DEQ Data; City of Corvallis data	DEQ Data (Site 402041; RM 0.2): 0% (0 of 48) Summer values exceeded pH standard (6.5- 8.5) between WY 1986 - 1995. City of Corvallis data confirms.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data; City of Corvallis data	DEQ Data (Site 402041; RM 0.2): 0% (0 of 45) FWS values exceeded pH standard (6.5- 8.5) between WY 1986 - 1995. City of Corvallis data confirms finding.	Did not meet listing criteria	OK	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); ODFW Data	DEQ Data (Site 402041; RM 0.2): 85% (41 of 48) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 82.4 in WY 1986- 1995.		303(d) List	
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Copper were found, but levels were below the water quality standards Table 20 values. No other trace metals were detected.	Did not meet listing criteria	OK	Addition

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Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Greasy Creek	22E-MARY0	Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Desethylatrazine, and Simazine were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	p,p' DDT was found once above the Oregon water quality standard. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time needed)	Did not meet listing criteria	Potential Concern	Addition
Middle Fourth Lake Lake	22E.MIFO	Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Hexachlorobenzene and PCB were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No other pesticides were detected in the sediment. Antimony, Chromium, Copper, Mercury, Nickel and Zinc were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition

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Basin <i>Willamette</i>		Sub			<i>Upper Willamette</i>				
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lake	22E.MIFO	Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Lake	22E.MIFO	Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	<p>Acenaphthene, Anthracene, Benzo(A)anthracene, Chrysene, Bis(2 Ethylhexyl)phthalate, Hexachlorobenzene, Fluoranthene, Phenol and Pyrene were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.</p> <p>Acenaphthylene, Anthraquinone, Butylbenzylphthalate, 124-Ttichlorobenzene, 1,3-Di-chlorobenzene, 1,4-Di-Nitrotoluene, Di-n-butylphthalate, Diethylphthalate, Dimethylphthalate, 2-ethylnaphthalene, 1,2-Di-methylnaphthalene, 1,6-di-methylnaphthalene, 1-Methylphenanthrene, 1-Methylpyrene, 2,3,6-Trimethylnaphthalene, 2,6-Dimethylnaphthalene, 45-Methylenephenanthrene, Naphthalene, P-creso, phenanthrene and Quinoline were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations.</p> <p>No other PAHs, Semi or Volatile</p>	Did not meet listing criteria	OK	Addition
Muddy Creek Mouth to headwaters	22E-MUDD0	Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub		<i>Upper Willamette</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to headwaters	22E-MUDD0	Toxics	Medals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver and Zinc were either not detected or were below the water quality standards Table 20 value.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No pesticides were detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Alachlor, Atrazine, Desethylatrazine, Desisoproylatriazine, Diuron, Hexazinone, Metolachlor, Metribuzin, Oxamyl, Propazine, Simazine, Simetryn, Terbacil, Triclopyr and 2,4-D were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Medals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Iron and Manganese were found above the water quality standards, Table 20 value, once. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time are needed).	Did not meet listing criteria	Potential Concern	Addition
Noti Creek Mouth to Headwaters	22E-NOTI0	Nutrients			NPS Assessment - segment 183: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 183: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Oak Creek (Calapooia Drainage) Mouth to Headwaters	22E-OAKC0	Flow Modification			NPS Assessment - segment 75: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 75: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 75: severe, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Pedee Creek Mouth to Headwaters	22E-PEDE0	Flow Modification			NPS Assessment - segment 399: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Poodle Creek Mouth to Headwaters	22E-POOD0	Sedimentation			NPS Assessment - segment 182: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Price Creek Mouth to Headwaters	22E-PRIC0	Flow Modification			NPS Assessment - segment 389: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
Ritner Creek Mouth to Headwaters	22E-RITN0	Sedimentation			NPS Assessment - segment 400: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rock Creek Mouth to headwaters	22E-ROCK0	Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Cycloate was found but either does not have or was below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
Soap Creek Mouth to Headwaters	22E-SOAP0	Bacteria			Concern identified in 94/96 303(d) list review		No supporting data or information	Need Data	
Spencer Creek Mouth to Headwaters	22E-SPEN0	Flow Modification			NPS Assessment - segment 450: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 450: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 450: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Tumtum River Mouth to Headwaters	22E-TUMT0	Sedimentation			NPS Assessment - segment 438: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Willamette River Santiam River to Calapooia River	22=-WILL108	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 103: moderate, data (DEQ, 1988)	DEQ Data (Site 402018; RM 119.3): 3% (1 of 39) Summer values exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 103: moderate, data (DEQ, 1988)	DEQ Data (Site 402018; RM 119.3): 13% (8 of 60) FWS values exceeded fecal coliform standard (400) with maximum values of 1600 between WY 1986 - 1995.		303(d) List		
		Biological Criteria	Fish Skeletal Deformities		Tetra Tech (5/1995)	Tetra Tech (5/95): The incidence of skeletal deformities (22.2%) in juvenile squawfish collected in 1994 at RM 113 were significantly higher than those measured in either the upper river or reference site, cause of the deformities is unknown.		303(d) List		
Calapooia River to Long Tom River		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402018; RM 119.3): 0% (0 of 55) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK		
Santiam River to Calapooia River		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	March 1 - August 31	DEQ Data	DEQ Data (Site 402018; RM 119.3): 1% (1 of 71) March - August values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 7.9 mg/l (86% sat) between WY 86 - 95 (Cold water fishery, rearing approximately March - August).	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - February 28	DEQ Data	DEQ Data (Site 402018; RM 119.3): 8% (4 of 48) September through February values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 9.4 mg/l (85% sat) between WY 86-95 (Cold water fishery, spawning approx. Sept through Feb).	Did not meet listing criteria	OK		
		Flow Modification				NPS Assessment - segment 103: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients				NPS Assessment - segment 103: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Santiam River to Calapooia River	22=-WILL108	pH		Summer	DEQ Data	DEQ Data (Site 402018; RM 119.3): 0% (0 of 57 Summer values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402018; RM 119.3): 0% (0 of 60) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Sedimentation				NPS Assessment - segment 103: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 103: moderate, data (DEQ, 1988)	DEQ Data (Site 402018; RM 119.3): 72% (41 of 57) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 76.1 in WY 1986 - 1995.			303(d) List	
		Toxics	Pesticides (Water)	Year Around	NPS Assessment - segment 103: moderate, data (DEQ, 1988); Willamette River Basin Water Quality Study Phase I and II, USGS data	Malathion was detected, but not above water quality standards. Other pesticides not detected.		No supporting data or information	OK	Addition
		Toxics	Tissue - Mercury	Year Around	Health Division Consumption Health Advisory (1997)	Health Division Consumption Health Advisory issued for Mercury in fish tissue (.63 ppm) based on data collected since 1969; Reference level (.35 ppm)			303(d) List	Addition
		Toxics	Tissue and Water Column - 2,3,7,8-TCDD		EPA (91); DEQ Data; 1994 304(l) list, Part A/B	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL has been established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)		
Calapooia River to Long Tom River	22=-WILL119.7	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402020; RM 131.4): 0% (0 of 29) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK		

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Calapooia River to Long Tom River	22=-WILL119.7	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 99 and 103: moderate, data (DEQ, 1988)	DEQ Data (Site 402020; RM 131.4): 12% (5 of 41) FWS values exceeded fecal coliform standard (400) with maximum values of 1600, 920 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer					
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - February 28	DEQ Data	DEQ Data (Site 402020; RM 131.4): 3% (0 of 35) September through February values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 9.9 mg/l (89% sat) between WY 86-95 (Cold water fishery, spawning approx. Sept through Feb).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	March 1 - August 31	DEQ Data; NPS Assessment - segment 99 and 103: moderate, data (DEQ, 1988)	DEQ Data (Site 402020; RM 131.4): 0% (0 of 55) March through August values exceeded dissolved oxygen standard (8.0 mg/l or 90%) between WY 1986 - 1995 (Cold water fishery, rearing approximately March - August).	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 99 and 103: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 103: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402020; RM 131.4): 0% (0 of 40) FWS values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402020; RM 131.4): 0% (0 of 47) Summer values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 99 and 103: moderate, observation/data (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Calapooia River to Long Tom River	22--WILL119.7	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 103: moderate, data (DEQ, 1988)	DEQ Data (Site 402020; RM 131.4): 62% (29 of 47) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 75.2 in WY 1986 - 1995.		303(d) List	
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS	Phenol was found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any toxicity.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides(Water)		NPS Assessment - segment 99 and 103: moderate, data (DEQ, 1988), Willamette River Basin Water Quality Study Phase I and II, USGS	2,6-Dimethylnaphthalene, P-cresol and phenanthrene were found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations. No other PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Calapooia River to Long Tom River	22=-WILL119.7	Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS	Chromium, Copper, Manganese and Nickel were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Tissue and Water Column - 2,3,7,8-TCDD		EPA (91); DEQ Data; 1994 304(l) list, Part A/B	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL has been established for dioxin, approved (2/25/91) and is being implemented	TMDL Approved (2/25/91)	
		Toxics	Total Dioxin and Furans (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS	Iron and Manganese were either not detected or were below the water quality standards Table 20 values.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Sediments)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS	No pesticides were detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS	Di-n-butylphthalate was but was below any water quality standard, guidance level or criteria. No other pesticides detected..	Did not meet listing criteria	OK	Addition
						No other PAHs, Semi or Volatile Organics were detected.			

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Basin <i>Willamette</i>		Sub			<i>Upper Willamette</i>				
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Calapooia River to Long Tom River	22--WILL119.7	Toxics	Tissue - Mercury	Year Around	Health Division Consumption Health Advisory (1997)	Health Division Consumption Health Advisory issued for Mercury in fish tissue (.63 ppm) based on data collected since 1969; Reference level (.35 ppm)		303(d) List	Addition
Long Tom River to McKenzie River	22--WILL149	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 101: moderate, data (DEQ, 1988)	DEQ Data (Site 402023; RM 161.2): 0% (0 of 36) Summer values exceeded fecal coliform standard (400) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 101: moderate, data (DEQ, 1988)	DEQ Data (Site 402023; RM 161.2): 2% (1 of 59) FWS values exceeded fecal coliform standard (400) with a maximum value of 540 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402023; RM 161.2): 0% (0 of 52) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	March 1 - August 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402023; RM 161.2): 4% (3 of 71) March through August values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) with a minimum of 6.9 mg/l (73%) between WY 86 - 95 (Cold water fishery, rearing approximately March - August).	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - February 28	DEQ Data	DEQ Data (Site 402023; RM 161.2): 8% (4 of 49) September through February values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 9.6 mg/l (92% sat) between WY 86-95 (Cold water fishery, spawning approx. Sept through Feb).	Did not meet listing criteria	OK	
		Nutrients			NPS Assessment - segment 101: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		pH			DEQ Data	Fall-Winter-Spring	DEQ Data (Site 402023; RM 161.2): 0% (0 of 60) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Long Tom River to McKenzie River	22=-WILL149	pH		Summer	DEQ Data	DEQ Data (Site 402023; RM 161.2): 2% (1 of 58) Summer values exceeded pH standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 100 and 101: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 100 and 101: moderate, data (DEQ, 1988)	DEQ Data (Site 402023; RM 161.2): 53% (31 of 58) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 73.4 in WY 1986 - 1995.		303(d) List	
		Toxics	Tissue - 2,3,7,8-TCDD		DEQ Data, 1994 304(l) list, Part B	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL has been established, approved and is being implemented	TMDL Established (2/25/91)	
		Toxics			NPS Assessment - segment 100 and 101: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Long Tom River to McKenzie		Toxics	Tissue - Mercury	Year Around	Health Division Consumption Health Advisory (1997)	Health Division Consumption Health Advisory issued for Mercury in fish tissue (.63 ppm) based on data collected since 1969; Reference level (.35 ppm)		303(d) List	Addition
McKenzie River to Coast/Mid Forks	22=-WILL175	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; NPS Assessment - segment 101: moderate, data (DEQ, 1988)	DEQ Data (Site 402027; RM 185.3): 3% (1 of 30) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; NPS Assessment - segment 101: moderate, data (DEQ, 1988)	DEQ Data (Site 402027; RM 185.3): 2% (1 of 45) FWS values exceeded fecal coliform standard (400) with a maximum value of 460 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402027; RM 185.3): 0% (0 of 41) Summer values exceeded chlorophyll a standard (15 ug/l) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>									
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96		
McKenzie River to Coast/Mid Forks	22--WILL175	Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	September 1 - February 28	DEQ Data	DEQ Data (Site 402027; RM 185.3): 3% (1 of 38) September through February values exceeded dissolved oxygen standard (11.0 mg/l or 95% saturation) with a minimum of 9.4 mg/l (90% sat) between WY 1986 - 1995 (Cold water fishery, spawning approx. Sept - Feb).	Did not meet listing criteria	OK			
		Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	March 1 - August 31	DEQ Data	DEQ Data (Site 402027; RM 185.3): 0% (0 of 59) March through August values exceeded dissolved oxygen standard (8.0 mg/l or 90% saturation) between WY 1986 - 1995 (Cold water fishery, rearing approximately March - August).	Did not meet listing criteria	OK			
		Nutrients				NPS Assessment - segment 101: moderate, data (DEQ, 1988)		No supporting data or information	Need Data		
		pH			Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402027; RM 185.3): 0% (0 of 46) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK		
		pH			Summer	DEQ Data	DEQ Data (Site 402027; RM 185.3): 2% (1 of 46) Summer values exceeded pH standard (6.5 - 8.5) with a maximum value of 8.6 between WY 1986 - 1995.	Did not meet listing criteria	OK		
		Sedimentation					NPS Assessment - segment 101: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer		DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 101: moderate, data (DEQ, 1988)	DEQ Data (Site 402027; RM 185.3): 36% (17 of 47) Summer values exceeded temperature standard (64) with exceedences most years and a maximum of 70.7 in WY 1986 - 1995.		303(d) List		
		Toxics					NPS Assessment - segment 101: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
McKenzie to Coast/ Mid Forks		Toxics	Tissue - Mercury	Year Around	Health Division Consumption Health Advisory (1997)	Health Division Consumption Health Advisory issued for Mercury in fish tissue (.63 ppm) based on data collected since 1969; Reference level (.35 ppm)		303(d) List	Addition		

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Upper Willamette</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
McKenzie River to Coast/Mid Forks	22=-WILL175	Toxics	Tissue - 2,3,7,8-TCDD		DEQ Data, 1994 304(l) list, Part B	Dioxin TMDL based on the loading capacity calculated from the water quality standard (0.013 ppq - established to protect human health), discharge estimates from 8 chlorine-bleaching pulp mills in the Columbia R Basin, and a design stream	TMDL has been established, approved and is being implemented	TMDL Established (2/25/91)	

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Basin <i>Willamette</i>	Sub	<i>Yamhill</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Agency Creek Mouth to Falls RM 3	22J-AGEN0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered a Potential Concern with a Discriminant Score of 61 to 75 points. Discriminant score was 64.	Did not meet listing criteria	Potential Concern	Addition
Baker Creek Mouth to Headwaters	22J-BAKE0	Dissolved Oxygen (DO)			NPS Assessment - segment 374: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 374: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Canada Creek Mouth to headwaters	22J-CAND0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)			No data submitted to evaluate for listing.	No supporting data or information	Need Data	Addition
Cedar Creek Mouth to headwaters	22J-CEDA0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1995	Streams are considered a Potential Concern with a Discriminant Score of 61 to 75 points. Discriminant score was 61.	Did not meet listing criteria	Potential Concern	Addition
Cozine Creek Mouth to Headwaters	22J-COZIO	Bacteria			Reports of sewer overflows		No supporting data or information	Need Data	
Deer Creek Mouth to Headwaters	22J-DEER0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 375: severe, observation (DEQ, 1988)	DEQ Data (Site 402640; RM 1.0): 63% (5 of 8) Summer values exceeded fecal coliform standard (400) with a maximum value of 2400 between 1986 - 1991.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 375: severe, observation (DEQ, 1988)	DEQ Data (Site 402640; RM 1.0): 19% (3 of 16) FWS values exceeded fecal coliform standard (400) with a maximum value of 1100 between 1986 - 1988.		303(d) List	

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Basin	Waterbody	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22J-DEER0	Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402640; RM 1.0): 0% (0 of 14) Summer values exceeded chlorophyll a standard (15 ug/l) between 1986 - 1991.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data(Site 402640; RM 1.0): 3% (1 of 36) May through October values exceeded cool water fishery standard (6.5 mg/l) with a minimum of 6.1 between 1986 - 1991.		OK	
		Flow Modification			NPS Assessment - segment 375: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 375: moderate, observation (DEQ, 1988)	DEQ Data (Site 402640, RM 1.0): 11% (2 of 19) May through October values exceeded TMDL phosphorus standard (70 ug/l) with a maximum of 490 ug/l between 1986 - 1991.	TMDL established for phosphorus, approved (12/8/92) and being implemented	TMDL Approved (12/8/92)	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402640; RM 1.0): 0% (0 of 16) FWS values exceeded pH standard (6.5 - 8.5) between 1986 - 1988.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402640; RM 1.0): 0% (0 of 14) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 1991.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 375: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Little Deer Creek RM 12		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 375: moderate, observation (DEQ, 1988)	DEQ Data (Site 402640; RM 1.0): 64% (9 of 14) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 72.9 in WY 1986 and 1988.		303(d) List	Segment Modification
Mouth to Headwaters		Toxics	Pesticides		NPS Assessment - segment 375: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Little Deer Creek RM 12 to headwaters	22J-DEER12	Temperature	Rearing 64 F (17.8 C)	Summer	Boise Cascade Data	No temperature exceedences, 7 day Ave. Max. for 1997 was 61.3°F	Did not meet listing criteria	OK	Removed (5)

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>	Sub	<i>Yamhill</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Gooseneck Creek Mouth to Headwaters	22J-GOOS0	Flow Modification			NPS Assessment - segment 446: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 446: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Haskins Creek Mouth to Headwaters	22J-HASK0	Flow Modification			NPS Assessment - segment 370: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 370: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 370: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Hawn Creek Mouth to Headwaters	22J-HAWN0	Bacteria			NPS Assessment - segment 367: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 367: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Flow Modification			NPS Assessment - segment 367: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 367: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 367: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 367: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Pesticides			NPS Assessment - segment 367: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Yamhill</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
La Toutena Creek Mouth to headwaters	22J-LATO0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)			No data submitted to evaluate for listing.	No supporting data or information	Need Data	Addition
Mill Creek Mouth to Headwaters	22J-MILLO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402644; RM 1.0): 7% (1 of 15) FWS values exceeded fecal coliform standard (400) with a maximum value of 460 between 1986 - 1988.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 365: severe, observation (DEQ, 1988)	DEQ Data (Site 402644; RM 1.0): 44% (4 of 9) Summer values exceeded fecal coliform standard (400) with a maximum value of 1100 between 1986 - 1988.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402644; RM 1.0): 0% (0 of 13) Summer values exceeded chlorophyll a standard (15 ug/l) between 1986 - 1988.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		Year Around	DEQ Data	DEQ Data	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 365 and 366: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Habitat Modification			NPS Assessment - segment 365: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31		DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402644, RM 1.0): 0% (0 of 19) May through October values exceeded TMDL phosphorus standard (70 ug/l) between 1986 - 1998.	TMDL established for phosphorus, approved (12/8/92) and being implemented	TMDL Approved (12/8/92)
pH		Summer		DEQ Data	DEQ Data (Site 402644; RM 1.0): 0% (0 of 14) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 1988.	Did not meet listing criteria	OK		

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Basin <i>Willamette</i>		Sub <i>Yamhill</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22J-MILL0	pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402644; RM 1.0): 7% (1 of 15) FWS values exceeded pH standard (6.5 - 8.5) with a maximum value of 9.4 between 1986 - 1988.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 365 and 366: severe/moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 365: moderate, observation (DEQ, 1988)	DEQ Data (Site 402644; RM 1.0): 86% (12 of 14) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 85.1 in WY 1986 and 1988.		303(d) List	
Mill Creek, South Branch									
Mouth to Headwaters	22J-MISB0	Temperature	Rearing 64 F (17.8 C)	Summer	Boise Cascade Data	No temperature exceedences, 7 day Ave. Max. for 1997 was 61.1°F	Did not meet listing criteria	OK	Addition
Palmer Creek									
Mouth to Headwaters	22J-PALM0	Aquatic Weeds or Algae	Algae		NPS Assessment - segment 382: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Bacteria			NPS Assessment - segment 382: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Dissolved Oxygen (DO)			NPS Assessment - segment 382: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 382: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 382: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature			NPS Assessment - segment 382: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Lead and Zinc were found in water, but levels were below the water quality standards Table 20 values. No other trace metals were found.	Did not meet listing criteria	OK	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub	<i>Yamhill</i>						
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22J-PALM0	Toxics	PAHs, Semi and Volatile Organics (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Diethylphthalate was found in elevated levels, however, below the water quality standards Table 20 values. Di-n-butylphthalate was found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations. No other PAHs, Semi or Volatile Organics were detected.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Water)	Year Around	NPS Assessment - segment 382: moderate, observation (DEQ, 1988); Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine was found but below water quality standard Table 20 value. No other pesticides detected.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Arsenic, Iron and Manganese were found above the water quality standards, Table 20 value, once. Minimum Data Requirements were not met (Minimum of two exceedences of a standard and 10% of time are needed).	Did not meet listing criteria	Potential Concern	Addition
Palmer Creek, West Fork									
Mouth to Headwaters	22J-PAWF0	Toxics	Pesticide (Water) Chlorpyrifos	Year Around	USGS data	USGS site at Webfoot Road: Chlorpyrifos was found in three out of five samples above water quality standards for chlorpyrifos.		303(d) List	Addition
Panther Creek									
Mouth to Headwaters	22J-PANT0	Bacteria			NPS Assessment - segment 371: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 371: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
Rock Creek									
Mouth to Falls RM 4	22J-ROCK0	Biological Criteria	Impaired Conditions		DEQ Biological Assessment 1994	Streams are considered healthy with Discriminant Scores > 75 points. Discriminant score was 94.	Did not meet listing criteria	OK	Addition

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Yamhill</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Salt Creek Mouth to Headwaters	22J-SALTO	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 381: moderate, observation (DEQ, 1988)	DEQ Data (Site 404184; RM 1.8): 5% (1 of 21) Summer values exceeded fecal coliform standard (400) with a maximum value of 1100 between 1986 - 1992.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 381: moderate, observation (DEQ, 1988)	DEQ Data (Site 404184; RM 1.8): 33% (12 of 36) FWS values exceeded fecal coliform standard (400) with a maximum value of 1600 between 1986 - 1992.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 404184; RM 1.8): 16% (4 of 25) Summer values exceeded chlorophyll a standard (15 ug/l) with a maximum value of 29 between 1986 - 1992.		303(d) List	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	May 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 381: severe, observation (DEQ, 1988)	DEQ Data (Site 404184; RM 1.8): 95% (37 of 39) May through October values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 0.1 mg/l between WY 1986 - 1995 (Cool water fishery, annual).		303(d) List	
		Flow Modification			NPS Assessment - segment 381: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 381: severe, observation (DEQ, 1988)	DEQ Data (Site 404184, RM 1.8): 100% (35 of 35) May through October values exceeded TMDL phosphorus standard (70 ug/l) with a maximum of 330 ug/l between 1986 - 1992.	TMDL established for phosphorus, approved (12/8/92) and being implemented	TMDL Approved (12/8/92)	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 404184; RM 1.8): 0% (0 of 37) FWS values exceeded pH standard (6.5 - 8.5) between 1986 - 1992.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 404184; RM 1.8): 0% (0 of 26) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 1992.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 381: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	

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Basin <i>Willamette</i>		Sub		<i>Yamhill</i>					
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Headwaters	22J-SALT0	Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 381: severe, observation (DEQ, 1988)	DEQ Data (Site 404184; RM 1.8): 54% (14 of 26) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 72.3 in WY 1986 - 1992.		303(d) List	
		Toxics	Pesticides		NPS Assessment (DEQ, 1988)		No supporting data or information	Need Data	
Turner Creek Mouth to Headwaters	22J-TURN0	Flow Modification			NPS Assessment - segment 369: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Sedimentation			NPS Assessment - segment 369 and 523: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
Mouth to Severt Creek		Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 369 and 523: moderate, observation (DEQ, 1988); BLM data	Two BLM sites: at RM 1 in 1994/95 the 7 day ave. Max. Temperature was 69.8/68.9°F and RM4 in 1995 was 63.5°F. Lower site exceeds temperature standard (64) in both years.		303(d) List	Addition
Severt Creek to headwaters	22J-TURN4	Temperature	Rearing 64 F (17.8 C)	Summer	NPS Assessment - segment 369 and 523: moderate, observation (DEQ, 1988); BLM data	BLM site: at RM 4 in 1995 the 7 day ave. Max. Temperature was 63.5°F. Site did not exceeds temperature standard (64).	Did not meet listing criteria	OK	Addition
Willamina Creek Mouth to Headwaters	22J-WILL0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 376: severe, observation (DEQ, 1988)	DEQ Data (Site 402646; RM 0.5): 17% (1 of 6) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 between 1986 - 1989.	Did not meet listing criteria	OK	
Mouth to above East Creek RM 10		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 376: severe, observation (DEQ, 1988)	DEQ Data (Site 402646; RM 0.5): 27% (4 of 16) FWS values exceeded fecal coliform standard (400) with a maximum value of 110 between 1986 - 1988.		303(d) List	Segment Modification
Mouth to Headwaters		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402646; RM 0.5): 0% (0 of 6) Summer values exceeded chlorophyll a standard (15 ug/l) between 1986 - 1989.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		Year Around	DEQ Data	DEQ Data	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Yamhill</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Headwaters	22J-WILL0	Nutrients	Phosphorus	May 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402646, RM 0.5): 9% (1 of 11) May through October values exceeded TMDL phosphorus standard (70 ug/l) with a maximum of 200 ug/l between 1986 - 1988.	TMDL established for phosphorus, approved (12/8/92) and being implemented	TMDL Approved (12/8/92)	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402646; RM 0.5): 7% (1 of 16) FWS values exceeded pH maximum standard (6.5 - 8.5) with a maximum value of 9.8 between 1986 - 1989.	Did not meet listing criteria	OK	
		pH		Summer	DEQ Data	DEQ Data (Site 402646; RM 0.5): 0% (0 of 6) Summer values exceeded pH standard (6.5 - 8.5) between 86 - 89.	Did not meet listing criteria	OK	
Above East Creek RM 10 to headwaters	22J-WILL10	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 376: severe, observation (DEQ, 1988)	DEQ Data (Site 402646; RM 0.5): 27% (4 of 16) FWS values exceeded fecal coliform standard (400) with a maximum value of 110 between 1986 - 1988, however, upper watershed is in private forest land and should not be listed in forest areas were residential and/or livestock activities are not present.	Did not meet listing criteria	Need Data	Removed (4)
Yamhill River									
Mouth to North/South Forks	22J-YAMH0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 362 and 508: moderate, data (DEQ, 1988)	DEQ Data (Site 402031; RM 5.0): 46% (33 of 71) FWS values exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 1986 - 1995.		303(d) List	
		Bacteria		Summer	DEQ Data	DEQ Data (Site 402031; RM 5.0): 5% (3 of 59) Summer values exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Chlorophyll a		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 362: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402031, 402601; RM 5.0, 8.0): 31% (22 of 72), 25% (4 of 16) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with maximum values of 61, 47 between WY 1986 - 1995.	TMDL has been established for phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/8/92)	

Final 1998 Oregon Section 303(d) List Decision Matrix

Basin <i>Willamette</i>		Sub <i>Yamhill</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to North/South Forks	22J-YAMH0	Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ Data	DEQ Data (Site 402478; RM 5.0): 4% (6 of 145) Annual values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 5.4 mg/l between WY 1986 - 1995 (Cool water fishery, annual).	Did not meet listing criteria, Water Quality Based Permit	OK		
		Flow Modification				NPS Assessment - segment 362: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31		DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 362 and 508: severe/moderate, data (DEQ, 1988)	DEQ Data (Site 402031; RM 5.0): 80% (8 of 10) May through October values exceeded phosphorus TMDL standard (70 ug/l) with a maximum value of 2.7 ug/l between 6/94 - 10/95.	TMDL established for phosphorus, approved (12/8/92) and being implemented	TMDL Approved (12/8/92)	
		pH		May 1 - October 31		DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402031; RM 5.0): 0% (0 of 12) May through October values exceeded pH maximum standard (6.5 - 8.5) between WY 1994 - 1995.	TMDL has been established for phosphorus, approved (12/8/92) and is being implemented	TMDL Approved (12/8/92)	
		pH		November 1 - April 30		DEQ Data	DEQ Data (Site 402031; RM 5.0): 0% (0 of 11) May through October values exceeded pH maximum standard (6.5 - 8.5) between WY 1994 - 1995.	Did not meet listing criteria	OK	
		Sedimentation				NPS Assessment - segment 362 and 508: moderate, data/observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer		DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 508: moderate, observation (DEQ, 1988)	DEQ Data (2 Sites: 402031, 402601; RM 5.0, 8.0): 88% (64 of 73) and 83% (15 of 18) Summer values respectively exceeded temperature standard (64) with exceedences each year and a maximum of 83.3 in WY 1986 - 1995.		303(d) List	
		Toxics	Total Dioxin and Furans (Sediment)	Year Around		Willamette River Basin Water Quality Study Phase I and II, USGS data	Total Dioxin and Furans were found in sediments, but below various guidelines or guidance values. No beneficial use impairment evaluations are available that show a toxicity problem. Further studies would be needed to determine if there was any	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Yamhill</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to North/South Forks	22J-YAMH0	Toxics	PAHs, Semi and Volatile Organics (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Di-n-butylphthalate was found, however, there are no well established guidelines available for evaluating risks, nor have there been any beneficial use impairment evaluations.	Did not meet listing criteria	OK	Addition
		Toxics	Trace Metals (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No other PAHs, Semi or Volatile Organics were detected. Antimony, Arsenic, Chromium, Copper, Manganese, Nickel and Zinc were found in elevated levels in sediments when compared to various guidelines or guidance values, however, sediment toxicity does not correlate well with sediment contaminant concentrations and is dependent on local conditions. To determine toxicity a demonstration of a beneficial use impairment is needed. No data on beneficial use impairment (e.g. bioassays) is available. For constituents in sediment there is no single type of sediment-quality guideline generally accepted in the scientific literature.	Did not meet listing criteria	Potential Concern	Addition
		Toxics	Pesticides (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No pesticides were detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Dioxin 2,3,7,8 TCDD (Sediment)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Dioxin 2,3,7,8 TCDD was not detected in the sediment.	Did not meet listing criteria	OK	Addition
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	No pesticides detected.	Did not meet listing criteria	OK	Addition
Yamhill River, North Mouth to Turner Creek	22J-YAN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 368: severe, data (DEQ, 1988)	DEQ Data (3 Sites: 402605, 402606, 402607; RM 1.5 - 10.0): 50% (3 of 6); 25% (8 of 32); 60% (3 of 5) Summer values respectively exceeded fecal coliform standard (400) with maximum values of 2400, 1600, 2400 between WY 1986 - 1995.			303(d) List

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Basin <i>Willamette</i>		Sub <i>Yamhill</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Turner Creek	22J-YAN0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 368: severe, data (DEQ, 1988)	DEQ Data (2 Sites: 402605, 402606; RM 1.5, 4.5): 30% (6 of 20), 40% (21 of 53) FWS values respectively exceeded fecal coliform standard (400) with maximum values of 2400, 2400 between WY 1986 - 1995.		303(d) List	
		Chlorophyll a		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (3 Sites: 402605, 402606, 402607; RM 1.5 - 10.0): 0% (0 of 7); 14% (6 of 42); 5% (1 of 20) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with maximum values of 51, 18 between 1986 - 1995.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ Data	DEQ Data (Site 402606; RM 4.5): 3% (3 of 111) Annual values exceeded dissolved oxygen standard (6.5 mg/l) with a minimum of 6.2 mg/l between WY 1986 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK	
		Flow Modification			USGS (1990); IWR (ODFW); WRD Data; ODFW (1990)	Cutthroat populations are a stock of concern with low flows and high temperatures constraining populations in some coast range streams (ODFW, 92); IWR (70746) is often not met at USGS gage (14197000).		303(d) List	
		Nutrients	Phosphorus	May 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 368: moderate, data (DEQ, 1988)	DEQ Data (Site 402606; RM 4.5): 0% (0 of 10) May through October values exceeded phosphorus TMDL standard (70 ug/l) with a maximum value of 60 ug/l between 6/94 - 10/95.	TMDL established for phosphorus, approved (12/8/92) and being implemented	TMDL Approved (12/8/92)	
		pH		Summer	DEQ Data	DEQ Data (3 Sites: 402605, 402606, 402607; RM 1.5 - 10.0): 0% (0 of 6, 43, 20) Summer values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites: 402605, 402606; RM 1.5, 4.5): 0% (0 of 20, 53) FWS values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Yamhill</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name & Description	Waterbody Segment	Parameter	Criteria	Season					
Mouth to Turner Creek	22J-YAN0	Sedimentation			NPS Assessment - segment 368: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 368: moderate, observation (DEQ, 1988)	DEQ Data (Site 402606; RM 4.5): 77% (33 of 43) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 78.8 in WY 1986 - 1995.		303(d) List	
		Toxics	Pesticide (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Cycloate, simazine and Terbacil were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition
Turner Creek to Headwaters	22J-YAN20.5	Bacteria			NPS Assessment - segment 368: severe, data (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients			NPS Assessment - segment 368: moderate, data (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	BLM data	Two BLM sites: RM 20 and 27 in 1995, 7 day ave. max. temperature was 71.9/64.4°F, both sites exceeded temperature standard (64 °F)		303(d) List	Addition
Yamhill River, South Mouth to Salt Creek	22J-YAS0	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 363: moderate, data (DEQ, 1988)	DEQ Data (Site 402625; RM 16.5): 27% (19 of 70) FWS values exceeded fecal coliform standard (400) with a maximum value of 2400 between WY 1986 - 1995.		303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data	DEQ Data (Site 402625; RM 16.5): 4% (2 of 46) Summer values exceeded fecal coliform standard (400) with a maximum value of 1100 between WY 1986 - 1995.	Did not meet listing criteria	OK	

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Basin <i>Willamette</i>		Sub <i>Yamhill</i>							
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Mouth to Salt Creek	22J-YAS0	Chlorophyll a		Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (3 Sites: 402623, 402624, 402625; RM 1.0 - 16.5): 29% (2 of 7), 0% (0 of 19, 50) Summer values respectively exceeded chlorophyll a standard (15 ug/l) with a maximum value of 20 between WY 1986 - 1995. Did not meet "Minimum Data Requirements", data did not exceed the 3-month average criteria.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)	Cool-water aquatic resources: DO < 6.5 mg/l	Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402625; RM 16.5): 0% (0 of 123) Annual values exceeded dissolved oxygen standard (6.5 mg/l) between WY 1986 - 1995 (Cool water fishery, annual).	Did not meet listing criteria	OK	
		Nutrients	Phosphorus	May 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 363: moderate, data (DEQ, 1988)	DEQ Data (Site 402625; RM 16.5): 0% (0 of 10) May through October values exceeded phosphorus TMDL standard (70 ug/l) with a maximum value of 60 ug/l between 6/94 - 10/95.	TMDL established for phosphorus, approved (12/8/92) and being implemented	TMDL Approved (12/8/92)	
		pH		Summer	DEQ Data	DEQ Data (3 Sites: 402623, 402624, 402625; RM 1.0 - 16.5): 0% (0 of 7, 18, 52) Summer values respectively exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402625; RM 16.5): 0% (0 of 73) FWS values exceeded pH standard (6.5 - 8.5) between WY 1986 - 1995.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 363: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 363: moderate, observation (DEQ, 1988)	DEQ Data (Site 402625; RM 16.5): 88% (46 of 52) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 81.5 in WY 1986 - 1995.		303(d) List	
		Toxics	Trace Metals (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Copper and Nickel were found in water, but levels were below the water quality standards Table 20 values. No other trace metals were detected.	Did not meet listing criteria	OK	Addition

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Basin <i>Willamette</i>		Sub <i>Yamhill</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Mouth to Salt Creek	22J-YAS0	Toxics	Water - Trace Metals (Mercury)		USGS Data	USGS Data (Site at Hwy 99 Bridge): 1 value detected above standard, a minimum of two exceedences needed to be listed - did not meet listing criteria.	Did not meet listing criteria	Potential Concern		
		Toxics	Pesticides (Water)	Year Around	Willamette River Basin Water Quality Study Phase I and II, USGS data	Atrazine, Cycloate, Desethylatrazine, Desisoproylatrazine, Diuron, Ethoprop, Hexazinone, Metolachlor, Metribuzin, Napropamide and Simazine were found but either do not have or were below any water quality standard, guidance level or criteria. No other pesticides detected.	Did not meet listing criteria	OK	Addition	
Salt Creek to Willamina Creek	22J-YAS18	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 462: severe, observation (DEQ, 1988)	DEQ Data (Site 402627; RM 36.0): 44% (4 of 9) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 between 1986 - 1988.			303(d) List	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 462: severe, observation (DEQ, 1988)	DEQ Data (2 Sites: 402627, 402628; RM 36.0, 39.5): 20% (3 of 15), 17% (2 of 12) FWS values exceeded fecal coliform standard (400) with maximum values of 460, 1100 respectively between 1986 - 1988.			303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402627; RM 36.0): 0% (0 of 13) Summer values exceeded chlorophyll a standard (15 ug/l) between 1986 - 1988.	Did not meet listing criteria	OK		
		Dissolved Oxygen (DO)		Year Around	DEQ Data	DEQ Data	DEQ Data	Did not meet listing criteria	OK	
		Flow Modification				USGS (1990); IWR (ODFW); WRD Data; ODFW (1990); NPS Assessment - segment 462: moderate, observation (DEQ, 1988)	Cutthroat populations are a stock of concern with low flows and high temperatures constraining populations in some coast range streams (ODFW, 92); IWR (59461) is often not met at USGS gage (14194000).			303(d) List
		Nutrients	Phosphorus	May 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402627, RM 36.0): 0% (0 of 19) May through October values exceeded TMDL phosphorus standard (70 ug/l) between 1986 - 1988.	TMDL established for phosphorus, approved (12/8/92) and being implemented	TMDL Approved (12/8/92)		

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Basin <i>Willamette</i>		Sub <i>Yamhill</i>			Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96
Name && Description	Waterbody Segment	Parameter	Criteria	Season					
Salt Creek to Willamina Creek	22J-YAS18	pH		Summer	DEQ Data	DEQ Data (Site 402627; RM 36.0): 0% (0 of 12) Summer values exceeded pH standard (6.5 -8.5) between 1986 -	Did not meet listing criteria	OK	
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (2 Sites: 402627, 402628; RM 36.0, 39.5): 0% (0 of 15, 12) FWS values respectively exceeded pH standard (6.5 -8.5) between 86 - 88.	Did not meet listing criteria	OK	
		Sedimentation			NPS Assessment - segment 462: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature	Rearing 64 F (17.8 C)	Summer	DEQ Data (Temperature Issue Paper, 1994); NPS Assessment - segment 462: moderate, observation (DEQ, 1988)	DEQ Data (Site 402627; RM 36): 75% (9 of 12) Summer values exceeded temperature standard (64) with exceedences each year and a maximum of 75.9 in WY 1986 - 1988.		303(d) List	
Willamina Creek to	22J-YAS42.5	Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402631; RM 53.4): 0% (0 of 12) FWS values exceeded fecal coliform standard (400) between 1986 - 1988.	Did not meet listing criteria	OK	
		Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	DEQ Data; d1 in 305(b) Report (DEQ, 1994); NPS Assessment - segment 364: severe, observation (DEQ, 1988)	DEQ Data (Site 402631; RM 53.4): 40% (2 of 5) Summer values exceeded fecal coliform standard (400) with a maximum value of 460 between 1986 - 1987.		303(d) List	
		Chlorophyll a		Summer	DEQ Data	DEQ Data (Site 402631; RM 53.4): 0% (0 of 5) Summer values exceeded chlorophyll a standard (15 ug/l) between 1986 - 1987.	Did not meet listing criteria	OK	
		Dissolved Oxygen (DO)		Year Around	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data	Did not meet listing criteria	OK	
		Flow Modification			NPS Assessment - segment 364: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Nutrients	Phosphorus	May 1 - October 31	DEQ Data; d1 in 305(b) Report (DEQ, 1994)	DEQ Data (Site 402631, RM 53.4): 14% (1 of 7) May through October values exceeded TMDL phosphorus standard (70 ug/l) with a maximum of 110 ug/l between 1986 - 1988.	TMDL established for phosphorus, approved (12/8/92) and being implemented	TMDL Approved (12/8/92)	

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Basin <i>Willamette</i>		Sub <i>Yamhill</i>								
Name && Description	Waterbody Segment	Parameter	Criteria	Season	Basis for Consideration of Listing	Supporting Data or Information	Rationale for Not Listing	Listing Status	Listing Change From 1994/96	
Willamina Creek to	22J-YAS42.5	pH		Summer	DEQ Data	DEQ Data (Site 402631; RM 53.4): 0% (0 of 5) Summer values exceeded pH standard (6.5 - 8.5) between 1986 - 1987.	Did not meet listing criteria	OK		
		pH		Fall-Winter-Spring	DEQ Data	DEQ Data (Site 402631; RM 53.4): 0% (0 of 12) FWS values exceeded pH standard (6.5 - 8.5) between 1986 - 1988.	Did not meet listing criteria	OK		
		Sedimentation				NPS Assessment - segment 364: severe, observation (DEQ, 1988)		No supporting data or information	Need Data	
		Temperature				NPS Assessment - segment 364: moderate, observation (DEQ, 1988)		No supporting data or information	Need Data	