

**Summary Tables of Authorized (2023)  
and Actual (2018) Groundwater Use  
within the Proposed Harney Basin  
Critical Groundwater Area Subareas**

**Table 1. Summary of authorized GW use in 2023 within the proposed Harney Critical GW Area (CGWA)**

Proposed CGWA Subareas	GW Right Use Authorized in 2023				Subarea Total (acre-ft/yr)
	Irrigation (IR & IS) (acre-ft/yr)	Municipal & Quasi (acre-ft/yr)	Community (acre-ft/yr)	Commercial-Industrial (acre-ft/yr)	
Crane	20,654	0	0	0	20,654
Crane - Buchanan	39,669	0	0	661	40,330
Dog Mountain	14,793	0	0	0	14,793
Harney Lake	3,731	0	0	0	3,731
Lawen	9,008	0	0	0	9,008
Lower Blitzen - Voltage	24,180	0	0	0	24,180
Malheur Lake	60	0	0	0	60
North Harney	8,196	0	0	0	8,196
Poison Creek - Rattlesnake Creek	37,342	0	0	0	37,342
Rock Creek	7,975	0	0	0	7,975
Silvies	28,712	14,646	73	7,826	51,257
Upper Blitzen	401	0	0	0	401
Upper Silver Creek	31,488	0	0	0	31,488
Weaver Springs	28,134	0	0	0	28,134
Windy Point	12,383	0	0	0	12,383
<b>Totals</b>	<b>266,726</b>	<b>14,646</b>	<b>73</b>	<b>8,487</b>	<b>289,931</b>

**Table 1 Notes:**

**Irrigation (IR & IS):** includes primary and supplemental irrigation. Values were derived by GIS to eliminate duplicate acres as follows: (1) Select POU that intersect CGWA; (2) Clip POU by CGWA boundary; (3) Intersect POU with CGWA subareas (distribute/ID each POU per CGWA subarea); (4) Dissolve POU based on subarea name (merge all POU within each CGWA subarea); (5) Add "POU area" field to dissolved attribute table; (6) Use geometry to calculate total area per CGWA subarea.

**Municipal & Quasi:** includes municipal and quasi-municipal uses. Values were derived by summing the authorized maximum cfs for each GW right identified under this category and then calculating a total annual volume in acre-feet. The values likely include duplicates.

**Community:** includes use authorized by a GW right only. Community use allowed as an exempt use are excluded. Values were derived by summing the authorized maximum cfs for each GW right identified under this category and then calculating a total annual volume in acre-feet. The values likely include duplicates.

**Commercial-Industrial:** includes use authorized by a GW right only. Commercial-Industrial use allowed as an exempt use are excluded. Values were derived by summing the authorized maximum cfs for each GW right identified under this category and then calculating a total annual volume in acre-feet. The values likely include duplicates.

**Table 2. Summary of estimated actual GW use in 2018 by authorized GW rights within the proposed Harney Critical GW Area (CGWA)**

Estimated Actual GW Right Use in 2018					
Proposed CGWA Subareas	Irrigation (IR & IS) (acre-ft/yr)	Municipal & Quasi (acre-ft/yr)	Community (acre-ft/yr)	Commercial-Industrial (acre-ft/yr)	Subarea Total (acre-ft/yr)
Crane	9,712	0	0	0	9,712
Crane - Buchanan	17,717	0	0	724	18,441
Dog Mountain	4,895	0	0	0	4,895
Harney Lake	910	0	0	0	910
Lawen	3,484	0	0	0	3,484
Lower Blitzen - Voltage	13,648	0	0	0	13,648
Malheur Lake	0	0	0	0	0
North Harney	5,317	0	0	0	5,317
Poison Creek - Rattlesnake Creek	13,812	0	0	0	13,812
Rock Creek	2,443	0	0	0	2,443
Silvies	13,641	1,852	48	32	15,573
Upper Blitzen	68	0	0	0	68
Upper Silver Creek	20,382	0	0	0	20,382
Weaver Springs	19,245	0	0	0	19,245
Windy Point	9,118	0	0	0	9,118
<b>Totals</b>	<b>134,394</b>	<b>1,852</b>	<b>48</b>	<b>756</b>	<b>137,050</b>

**Table 2 Notes:**

**Irrigation (IR & IS):** includes primary and supplemental irrigation. The 2018 values were summed from OFR 2023-01, appendix H (Schibel and Grondin, 2023) after identifying the pumpage related to this category and using GIS to assign the pumpage to the appropriate proposed Harney CGWA subarea. OFR 2023-01 explains the methods used to determine (estimate) pumpage per well per month from 1930 to 2018.

**Municipal & Quasi:** includes municipal and quasi-municipal uses. The 2018 values were summed from OFR 2023-01, appendix H (Schibel and Grondin, 2023) after identifying the pumpage related to this category and using GIS to assign the pumpage to the appropriate proposed Harney CGWA subarea. OFR 2023-01 explains the methods used to determine (estimate) pumpage per well per month from 1930 to 2018. Cases where groundwater returns to the subsurface via septic systems or injection is accounted in the totals.

**Community:** includes use authorized by a GW right only. Community use allowed as an exempt use are excluded. The 2018 values were summed from OFR 2023-01, appendix H (Schibel and Grondin, 2023) after identifying the pumpage related to this category and using GIS to assign the pumpage to the appropriate proposed Harney CGWA subarea. OFR 2023-01 explains the methods used to determine (estimate) pumpage per well per month from 1930 to 2018. Cases where groundwater returns to the subsurface via septic systems or injection is accounted in the totals.

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