

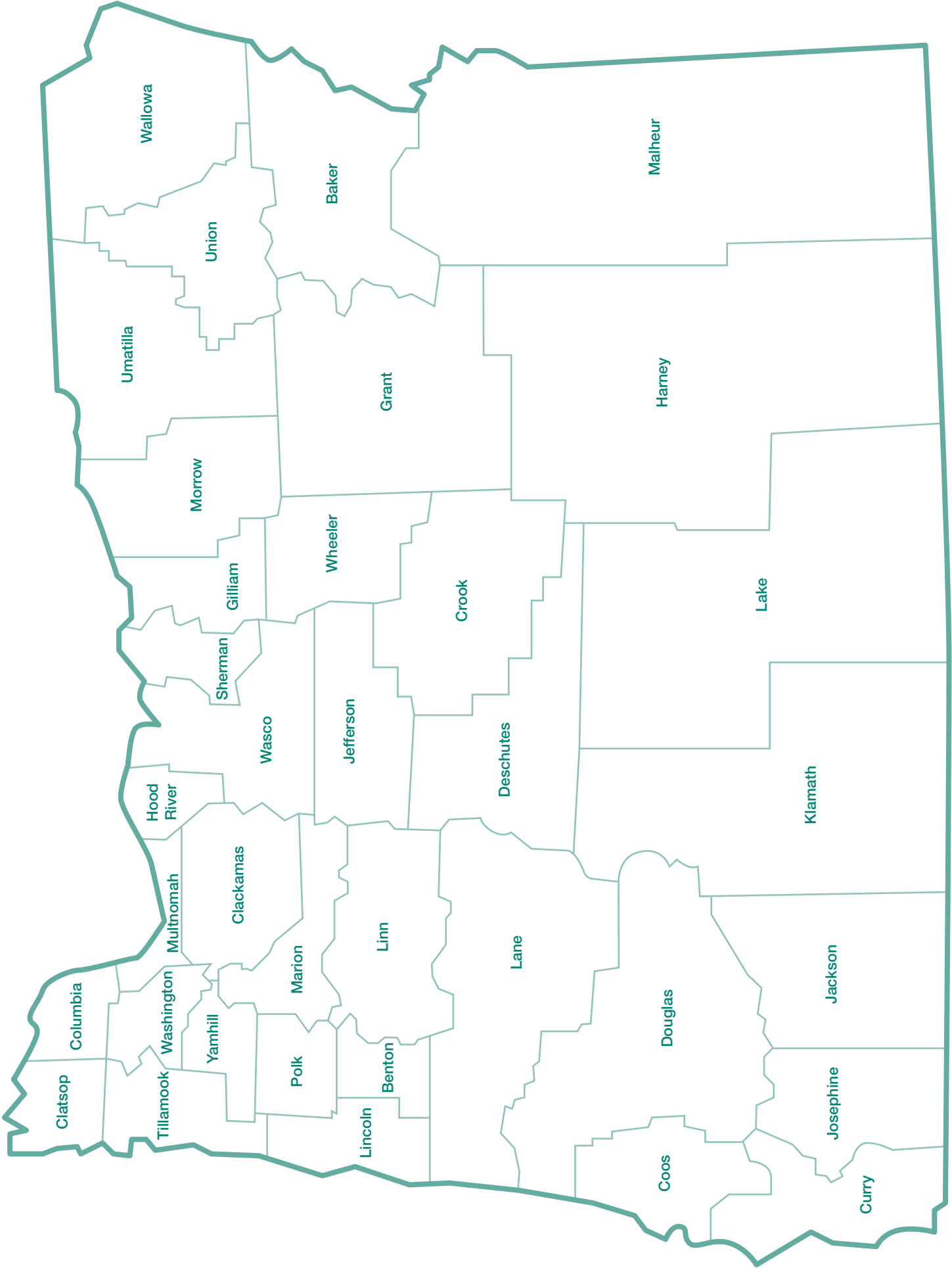
Oregon Vital Statistics Annual Report 2011

Volume 1

- **Natality**
- **Induced termination of pregnancy**
- **Teen pregnancy**

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Annual Report
2011

Volume 1



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Preface

“What’s past is prologue...”

Sometimes the best way to determine what direction to take is to look at where we are and back at where we have been. This is as true in matters of public health as it is in navigation. Vital events — births, deaths, marriage, divorce — chart the course Oregonians take throughout their lives. In today’s complex society, using this information for careful policy and resource planning is becoming more important than ever before.

Each year, the Oregon Health Authority’s Center for Health Statistics publishes the Oregon Vital Statistics Annual Report, an analytical look at the health of Oregon as measured by the health of its citizens. By this means, policy makers and health professionals have a source of important knowledge that can be used to form the basis for action and benchmarks for assessing progress.

Structure of the report

To improve ease of use and timeliness, the Vital Statistics Annual Report is issued in two volumes.

- **Volume 1** presents data on births, abortions, and teen pregnancy.
- **Volume 2** presents data on deaths (all ages) and perinatal deaths.

The only marriage, divorce, domestic partnership, and dissolution of domestic partnership data in the report are statewide occurrences and rates. Information by county and by month of occurrence is available, as are a variety of year-to-date preliminary data on deaths, births, abortions, and teen pregnancy at the Center for Health Statistics (CHS) web site:

<http://public.health.oregon.gov/BirthDeathCertificates/VitalStatistics>.

Additional data are available in the form of simple cross-tabulations. For information on availability, or to request the data, call the Center for Health Statistics as listed on the previous credits page.

The more significant demographic and public health issues are discussed in the narrative sections that open each chapter. These narratives are accompanied by charts, graphs, and sidebar tables. Readers can research their own areas of interest by using the tables following the chapter narratives.

A cooperative effort

The presentation of data in this report is the final stage of a long, ongoing process that begins with the prompt, accurate recording of vital events. This registration system ensures that the information is collected, kept secure, and made available to individuals and their families when needed for documentation. Tabulations and analyses of the data by the Oregon Center for Health Statistics provide useful information about the health and social changes occurring in Oregon.

Vital statistics has been called “the eyes and ears of public health,” and is, in fact, the only organized system of health records covering the entire population. The collection of data is a highly cooperative effort that depends on the participation of a great many people throughout the state.

The providers of services

Those who provide the services associated with vital events are the first participants in the collection system.

The birth attendant completes both the legal document and the confidential statistical section of the birth certificate. For deaths, the funeral director or person who first assumes responsibility for the body files the death or fetal death certificate. A physician completes the medical portion of these death certificates, except in cases of found bodies and those deaths due to external or “non-natural” causes, which are certified by medical examiners. Hospital medical records personnel help to ensure that all certificates are complete and accurate.

These service providers then file the completed certificates using a web-based system that transmits the records to the county and state registrar simultaneously.

Abortions are treated differently. The providers of induced abortion file the completed statistical data (which contain no identifying information) directly with the state registrar.

County officials

County registrars play an important role by further assuring the completeness and accuracy of death registrations. They check the certificates against other sources of information to make certain no events are missed. County registrars also follow up on any incomplete items before sending them certificates to the state registrar at the Center for Health Statistics.

Center for Health Statistics

At the state level, the staff of the Center perform additional checks for completeness and accuracy. A field representative makes contact with providers and county registrar. Clerical staff send correspondence seeking additional information on such matters as causes of death, birthweight, and tobacco use. Microfilmmers store certificates so that certified copies can be made. Coders and data entry personnel turn the collected information into computerized data, which are then retrieved by programmers, analyzed by researchers, and made available for demographic and public health needs.

Other states

This report does not overlook events relating to Oregon residents that occurred in another state. The Centers for Health Statistics in each U.S. state and Canadian province have agreed to forward copies of birth, death, and fetal death records to the state where the person usually resided. A cooperative agreement also exists for reports on induced termination of pregnancy; however, some states collect no resident information on these reports and, therefore, cannot participate in the exchange.

Among all these participants, it is clear there is no single recorder. The many hundreds of people throughout Oregon who record the major life events of our citizens have all played important roles in preparing this report. It could not have been achieved without them.

Table of contents

Preface	i
Section 1: Quick Reference: Volume 1	1-1
Section 2: Natality	2-1
Demographics.....	2-3
Maternal race and ethnicity	2-3
Marital status of mother	2-4
Educational attainment	2-6
Maternal lifestyle and health characteristics.....	2-7
Tobacco	2-7
Maternal weight and weight gain	2-8
Medical risk factors.....	2-9
Medical service utilization	2-9
Prenatal care.....	2-9
Birth attendant and place of delivery	2-11
Method of delivery	2-12
Infant health characteristics	2-13
Period of gestation	2-13
Low birthweight.....	2-13
High birthweight	2-14
Apgar score.....	2-15
Abnormal conditions and congenital anomalies	2-15
Multiple births	2-15
Infertility treatment	2-16
Source of payment	2-16
Section 3: Induced termination of pregnancy	3-1
Current trends.....	3-1
Pregnancy outcomes	3-2
Abortion patients	3-3
Age.....	3-3
Race and ethnicity.....	3-4

Contraceptive use	3-5
Medical procedures.....	3-5
Geographic distribution.....	3-6
Endnote.....	3-7

Section 4: Teen pregnancy 4-1

Introduction	4-1
Oregon females 15 to 17	4-1
Births to teens 15 to 17	4-2
Abortion rates among teens 15 to 17.....	4-3
Oregon females 18 to 19	4-4
Oregon vs. U.S. birth rates	4-4
Level of infant health	4-5
Low birthweight.....	4-5
Race and ethnicity.....	4-6
Prenatal care.....	4-7
Early prenatal care	4-7
Inadequate prenatal care	4-8
Late or no prenatal care	4-9
Low Apgar score	4-10
Substance use during pregnancy.....	4-10
Tobacco	4-10
Alcohol.....	4-10
Source of payment	4-11
Age of father.....	4-11
Endnote.....	4-12

Appendices

Appendix A: Population	A-1
Appendix B: Technical notes	B-1
Definitions	B-1
Methodology	B-4
Step-by-step instructions	B-8
Formulas	B-16
Appendix C: List of figures and tables	C-1
Appendix D: Sample forms	D-1
Certificate of live birth	D-1
Report of induced termination of pregnancy.....	D-3
Application, license, and record of marriage	D-4
Record of dissolution of marriage, or annulment	D-5
Declaration of domestic partnership form	D-6
Dissolution of domestic partnership form	D-7

SECTION 1: QUICK REFERENCE (VOLUME 1)

Quick reference (Volume 1)

Summary of Oregon Vital Events, 2011		
Population	3,857,625	The population increased 13,430, or 0.3 percent over 2010.
Live Births	Residents	The number of births decreased by 460. The crude rate decreased by 1.7 percent, while the fertility rate decreased by 1.2 percent.
Number	45,136	
Crude Rate	11.7	
Fertility Rate	59.3	
Marriages	Occurrences	The number of marriages increased by 463. The rate increased by 1.5 percent.
Number	25,530	
Crude Rate	6.6	
Divorces	Occurrences	The number of divorces decreased by 489. The rate decreased 5.0 percent.
Number	14,823	
Crude Rate	3.8	
Domestic Partnerships	Occurrences	The number of domestic partnerships decreased by 43.
Number	550	
Dissolutions of Domestic Partnership	Occurrences	The number of dissolutions of domestic partnership increased by 21.
Number	100	
Unmarried Mothers	Residents	The number of unmarried mothers giving birth decreased by 202. The proportion of births which were to unmarried mothers decreased by 0.3 percent.
Number	15,971	
Ratio	354.5	
Low Birthweight Infants	Residents	The number of low birthweight infants decreased by 104. The rate decreased by 2.6 percent.
Number	2,769	
Rate	61.4	
Induced Abortions	Occurrences	The number of reported abortions decreased by 104, a decrease of 4.2 percent from 2010. The abortion ratio decreased 2.6 percent.
Number	9,567	
Ratio	212	
<p>Crude birth, marriage, divorce, and domestic partnership rates are per 1,000 population; fertility rates per 1,000 15-44 year old females; unmarried mother ratio and low birthweight rate, per 1,000 live resident births; induced abortion ratio per 1,000 live occurrence births. Rates and ratios are calculated excluding missing and unknown values.</p>		

Table 1-1. Live Births, Births to Unmarried Mothers, Marriages, and Divorces, U.S., 1945-2011

Year	Live Births		Births to Unmarried Mothers		Marriages		Divorces	
	Number	Rate ¹	Number	Ratio ²	Number	Rate ¹	Number	Rate ¹
1945	2,735,456	20.6	117,400	42.9	1,612,992	12.2	485,000	3.5
1946	3,288,672	23.5	125,200	38.1	2,291,045	16.4	610,000	4.3
1947	3,699,940	25.8	131,900	35.7	1,991,878	13.9	483,000	3.4
1948	3,535,068	24.2	129,700	36.7	1,811,155	12.4	408,000	2.8
1949	3,559,529	23.9	133,200	37.4	1,579,798	10.6	397,000	2.7
1950	3,554,149	23.6	141,600	39.8	1,667,231	11.1	385,144	2.6
1951	3,750,850	24.5	146,500	39.1	1,594,694	10.4	381,000	2.5
1952	3,846,986	24.7	150,300	39.1	1,539,318	9.9	392,000	2.5
1953	3,902,120	24.7	160,800	41.2	1,546,000	9.8	390,000	2.5
1954	4,017,362	24.9	176,600	44.0	1,490,000	9.2	379,000	2.4
1955	4,047,295	24.6	183,300	45.3	1,531,000	9.3	377,000	2.3
1956	4,163,090	24.9	193,500	46.5	1,585,000	9.5	382,000	2.3
1957	4,254,784	25.0	201,700	47.4	1,518,000	8.9	381,000	2.2
1958	4,203,812	24.3	208,700	49.6	1,451,000	8.4	368,000	2.1
1959	4,244,796	24.0	220,600	52.0	1,494,000	8.5	395,000	2.2
1960	4,257,850	23.7	224,300	52.7	1,523,000	8.5	393,000	2.2
1961	4,268,326	23.3	240,200	56.3	1,548,000	8.5	414,000	2.3
1962	4,167,362	22.4	245,000	58.8	1,577,000	8.5	413,000	2.2
1963	4,098,020	21.7	259,400	63.3	1,654,000	8.8	428,000	2.3
1964	4,027,490	21.0	275,700	68.5	1,725,000	9.0	450,000	2.4
1965	3,760,358	19.4	291,200	77.4	1,800,000	9.3	479,000	2.5
1966	3,606,274	18.4	302,400	83.9	1,857,000	9.5	499,000	2.5
1967	3,520,959	17.8	318,100	90.3	1,927,000	9.7	523,000	2.6
1968	3,501,564	17.6	339,200	96.9	2,069,000	10.4	584,000	2.9
1969	3,600,206	17.9	360,800	100.2	2,145,000	10.6	639,000	3.2
1970	3,731,368	18.4	398,700	106.9	2,158,802	10.6	708,000	3.5
1971	3,555,970	17.2	401,400	112.9	2,190,481	10.6	773,000	3.7
1972	3,258,411	15.6	403,200	123.7	2,282,154	10.9	845,000	4.0
1973	3,136,965	14.8	407,300	129.8	2,284,108	10.8	915,000	4.3
1974	3,159,958	14.8	418,100	132.3	2,229,667	10.5	977,000	4.6
1975	3,144,198	14.6	447,900	142.5	2,152,662	10.0	1,036,000	4.8
1976	3,167,788	14.6	468,100	147.8	2,154,807	9.9	1,083,000	5.0
1977	3,326,632	15.1	515,700	155.0	2,178,367	9.9	1,091,000	5.0
1978	3,333,279	15.0	543,900	163.2	2,282,272	10.3	1,130,000	5.1
1979	3,494,398	15.6	597,800	171.1	2,331,337	10.1	1,181,000	5.3
1980	3,612,258	15.9	665,747	184.3	2,390,252	10.6	1,189,000	5.2
1981	3,629,238	15.8	686,605	189.2	2,422,145	10.6	1,213,000	5.3
1982	3,680,537	15.9	715,277	194.3	2,456,278	10.6	1,170,000	5.0
1983	3,638,933	15.5	737,893	202.8	2,445,604	10.5	1,179,000	5.0
1984	3,669,141	15.5	770,355	210.0	2,477,192	10.5	1,169,000	4.9

See footnotes at end of table.

Table 1-1. Live Births, Births to Unmarried Mothers, Marriages, and Divorces, U.S., 1945-2011 — Continued

Year	Live Births		Births to Unmarried Mothers		Marriages		Divorces	
	Number	Rate ¹	Number	Ratio ²	Number	Rate ¹	Number	Rate ¹
1985	3,760,561	15.8	828,174	202.2	2,425,000	10.2	1,187,000	5.0
1986	3,756,547	15.6	878,477	233.9	2,400,000	10.0	1,159,000	4.8
1987	3,809,394	15.7	933,013	243.7	2,421,000	9.9	1,157,000	4.8
1988	3,909,510	15.9	1,005,299	257.1	2,389,000	9.7	1,183,000	4.8
1989	4,040,958	16.2	1,094,169	270.8	2,404,000	9.7	1,163,000	4.7
1990	4,158,212	16.7	1,165,384	280.3	2,448,000	9.8	1,175,000	4.7
1991	4,110,907	16.2	1,213,769	295.3	2,371,000	9.4	1,187,000	4.7
1992	4,065,014	15.9	1,244,876	300.0	2,362,000	9.2	1,215,000	4.7
1993	4,000,240	15.5	1,240,172	310.0	2,334,000	9.0	1,187,000	4.6
1994	3,952,767	15.2	1,289,592	326.3	2,362,000	9.1	1,191,000	4.6
1995	3,899,589	14.8	1,253,976	322.0	2,336,000	8.9	1,169,000	4.4
1996	3,891,494	14.7	1,260,306	324.0	2,344,000	8.8	1,150,000	4.3
1997	3,880,894	14.5	1,257,444	324.0	2,384,000	8.9	1,163,000	4.3
1998	3,941,553	14.6	1,293,567	328.0	2,256,000	8.3	1,135,000	4.2
1999	3,959,417	14.5	1,308,560	330.0	2,358,000	8.6	Not Available	4.1
2000	4,058,814	14.7	1,347,043	332.0	2,329,000	8.2	944,000	4.0
2001	4,025,933	14.1	1,349,249	335.1	2,345,000	8.2	940,000	4.0
2002	4,021,726	13.9	1,365,966	339.6	2,254,000	7.9	955,000	3.9
2003	4,089,950	14.1	1,415,995	346.0	2,224,000	7.5	927,000	3.8
2004	4,112,052	14.0	1,470,189	358.0	2,279,000	7.8	879,000	3.7
2005	4,138,349	14.0	1,527,034	369.0	2,249,000	7.6	847,000	3.6
2006	4,265,555	14.2	1,641,946	385.0	2,193,000	7.4	872,000	3.7
2007	4,317,119	14.3	1,714,643	397.0	2,205,000	7.3	856,000	3.6
2008	4,247,694	14.0	1,726,566	406.0	2,162,000	7.1	844,000	3.5
2009	4,131,019	13.5	1,693,850	410.0	2,077,000	6.8	840,000	3.5
2010	4,000,279	13.0	1,633,785	408.0	2,096,000	6.8	872,000	3.6
2011*	3,953,593	12.7	1,608,087	407.0	Not Available	NA	Not Available	NA

* Provisional data.

¹ Rate per 1,000 population for live births, marriages and divorces.

² Ratio per 1,000 live births for births to unmarried mothers.

The source for data is: Births: Preliminary Data for 2011.
National Vital Statistics Reports, Vol. 61, No. 6, October 10, 2012

Marriage and divorce number and rate: National Marriage and Divorce Rate Trends.
National Vital Statistics Reports.

Vital Statistics of the United States, Volumes 1-3, lists historical data.

TABLE 1-2. Population, Live Births and Births to Unmarried Mothers, Marriages, and Divorces, Oregon, 1910, 1915, 1920, 1925, 1930, 1935-2011

Year*	Population	Live Births		Births to Unmarried Mothers		Marriages		Divorces	
		Number	Rate ¹	Number	Ratio ²	Number	Rate ¹	Number	Rate ¹
1910	673,002	9,176	13.6	-	-	5,541	8.2	-	-
1915	732,226	12,232	16.7	-	-	4,983	6.8	-	-
1920	791,701	14,954	18.9	-	-	7,557	9.5	-	-
1925	874,800	15,579	17.8	-	-	6,999	8.0	-	-
1930	958,450	13,473	14.1	-	-	7,678	8.0	2,825	2.9
1935	1,020,800	13,143	12.9	-	-	6,795	6.7	2,304	2.3
1936	1,034,100	14,119	13.7	-	-	7,433	7.2	2,578	2.5
1937	1,047,500	15,495	14.8	-	-	7,602	7.3	2,718	2.6
1938	1,061,000	16,333	15.4	-	-	6,734	6.3	3,162	3.0
1939	1,074,000	16,727	15.6	-	-	4,902	4.6	3,422	3.2
1940	1,093,000	17,522	16.0	-	-	5,998	5.5	3,543	3.2
1941	1,107,000	18,784	17.0	-	-	7,445	6.7	4,122	3.7
1942	1,148,500	22,283	19.4	-	-	8,768	7.6	4,725	4.1
1943	1,167,200	25,380	21.7	-	-	9,272	7.9	5,643	4.8
1944	1,221,000	23,444	19.2	407	17.4	8,675	7.1	6,619	5.4
1945	1,227,200	23,339	19.0	504	21.6	9,764	8.0	7,949	6.5
1946	1,347,900	29,566	21.9	517	17.5	14,674	10.9	10,241	7.6
1947	1,423,300	36,190	25.4	608	16.8	12,881	9.1	6,707	4.7
1948	1,470,800	34,937	23.8	575	16.5	12,373	8.4	6,405	4.4
1949	1,511,200	35,062	23.2	502	14.3	10,746	7.1	6,274	4.2
1950	1,521,341	35,991	23.7	667	18.5	11,300	7.4	5,943	3.9
1951	1,568,000	37,317	23.8	623	16.7	10,118	6.5	6,133	3.9
1952	1,602,100	39,752	24.8	780	19.6	9,998	6.2	6,311	3.9
1953	1,636,800	39,866	24.4	772	19.4	10,502	6.4	6,373	3.9
1954	1,662,680	38,550	23.2	909	23.6	9,567	5.8	6,130	3.7
1955	1,690,840	38,678	22.9	880	22.8	10,632	6.3	6,158	3.6
1956	1,734,650	38,432	22.2	958	24.9	10,568	6.1	5,827	3.4
1957	1,737,470	37,828	21.8	1,088	28.8	9,961	5.7	5,261	3.0
1958	1,728,550	36,295	21.0	1,091	30.1	9,896	5.7	5,452	3.2
1959	1,777,000	36,634	20.6	1,217	33.2	10,166	5.7	6,009	3.4
1960	1,768,687	38,347	21.7	1,250	32.6	10,590	6.0	5,711	3.2
1961	1,816,345	37,475	20.6	1,433	38.2	10,798	5.9	6,023	3.3
1962	1,825,138	36,983	20.3	1,499	40.5	11,122	6.1	6,074	3.3
1963	1,856,190	34,863	18.8	1,708	49.0	11,786	6.3	6,180	3.3
1964	1,906,000	33,500	17.6	1,754	52.4	12,297	6.5	6,486	3.4
1965	1,972,150	32,955	16.7	2,094	63.5	13,252	6.7	6,219	3.2
1966	1,999,780	32,446	16.2	2,330	71.8	13,981	7.0	6,764	3.4
1967	2,006,360	31,446	15.7	2,478	78.8	14,401	7.2	7,603	3.8
1968	2,050,900	32,136	15.7	2,831	88.1	16,125	7.9	8,258	4.0
1969	2,081,640	33,834	16.3	3,000	88.7	16,874	8.1	8,643	4.2

See footnotes at end of table.

TABLE 1-2. Population, Live Births and Births to Unmarried Mothers, Marriages, and Divorces, Oregon, 1910, 1915, 1920, 1925, 1930, 1935-2011 — Continued

Year*	Population	Live Births		Births to Unmarried Mothers		Marriages		Divorces	
		Number	Rate ¹	Number	Ratio ²	Number	Rate ¹	Number	Rate ¹
1970	2,091,385	35,353	16.9	2,912	82.4	17,302	8.3	9,583	4.6
1971	2,143,010	33,344	15.6	2,603	78.1	18,100	8.4	10,687	5.0
1972	2,183,270	31,308	14.3	2,552	81.5	19,265	8.8	11,706	5.4
1973	2,224,900	30,902	13.9	2,599	84.1	19,661	8.8	12,382	5.6
1974	2,266,000	32,506	14.3	2,984	91.8	20,002	8.8	13,538	6.0
1975	2,299,000	33,352	14.5	3,382	101.4	19,322	8.4	15,526	6.8
1976	2,341,750	34,840	14.9	3,825	109.8	19,182	8.2	16,070	6.9
1977	2,396,100	37,467	15.6	4,596	122.7	20,303	8.5	16,372	6.8
1978	2,472,000	38,964	15.8	5,279	135.5	21,055	8.5	16,965	6.9
1979	2,544,000	41,564	16.3	5,599	134.7	22,063	8.7	17,584	6.9
1980	2,633,105	43,091	16.4	6,360	147.6	23,004	8.7	17,762	6.7
1981	2,660,435	42,974	16.2	6,384	148.6	22,904	8.6	17,697	6.7
1982	2,656,185	41,012	15.4	6,484	158.1	24,186	9.1	16,792	6.3
1983	2,634,993	39,949	15.2	6,467	161.9	23,346	8.9	16,173	6.1
1984	2,660,000	39,536	14.9	6,861	173.5	23,074	8.7	15,631	5.9
1985	2,675,800	39,419	14.7	7,385	187.3	22,408	8.4	15,736	5.9
1986	2,659,500	38,850	14.6	7,999	205.9	22,015	8.3	15,774	5.9
1987	2,690,000	38,674	14.4	8,659	223.9	22,301	8.3	15,602	5.8
1988	2,741,000	39,850	14.5	9,377	235.3	23,407	8.5	15,188	5.5
1989	2,791,000	41,223	14.8	10,437	253.2	23,908	8.6	15,083	5.4
1990	2,847,000	42,830	15.0	11,024	257.4	25,348	8.9	15,734	5.5
1991	2,930,000	42,458	14.5	11,312	266.4	24,934	8.5	15,839	5.4
1992	2,979,000	41,941	14.1	11,310	269.7	24,866	8.3	16,067	5.4
1993	3,038,000	41,566	13.7	11,719	281.9	24,856	8.2	16,345	5.4
1994	3,082,000	41,832	13.6	12,007	287.0	25,194	8.2	15,844	5.1
1995	3,132,000	42,715	13.6	12,350	289.1	25,292	8.1	15,289	4.9
1996	3,181,000	43,645	13.7	12,944	296.6	25,815	8.1	14,944	4.7
1997	3,217,000	43,765	13.6	12,606	288.0	26,074	8.1	14,864	4.6
1998	3,267,550	45,228	13.8	13,451	297.6	25,424	7.8	15,234	4.7
1999	3,300,800	45,193	13.7	13,738	304.0	25,876	7.8	15,647	4.7
2000	3,436,750	45,786	13.3	13,778	301.0	25,926	7.5	16,579	4.8
2001	3,471,700	45,318	13.1	13,733	304.0	25,990	7.5	16,559	4.8
2002	3,504,700	45,190	12.9	13,962	309.5	24,979	7.1	16,146	4.6
2003	3,541,500	45,935	13.0	14,553	317.4	25,565	7.2	15,359	4.3
2004	3,582,600	45,660	12.7	14,824	325.3	25,789	7.2	14,611	4.1
2005	3,631,440	45,905	12.6	15,254	332.8	26,471	7.3	15,033	4.1
2006	3,690,505	48,684	13.2	16,675	343.3	26,715	7.2	14,915	4.0
2007	3,745,455	49,373	13.2	17,311	350.8	26,664	7.1	14,921	4.0
2008	3,791,075	49,117	13.0	17,686	360.7	26,139	6.9	14,809	3.9
2009	3,823,465	47,188	12.3	16,613	352.9	25,239	6.6	14,948	3.9
2010	3,844,195	45,596	11.9	16,173	355.5	25,067	6.5	15,312	4.0
2011	3,857,625	45,136	11.7	15,971	354.5	25,530	6.6	14,823	3.8

* Complete listings for years 1908-1934 can be found in annual reports before 2001.

¹ Rate per 1,000 population for live births, marriages and divorces.

² Ratio per 1,000 live births for births to unmarried mothers calculated excluding unknown marital status.

- Data not available.

**TABLE 1-3. Population, Live Births and Births to Unmarried Mothers
by County of Residence, and Marriages and Divorces
by County of Occurrence, Oregon, 2011**

County	Estimated Population July 1, 2011	Live Births		Births to Unmarried Mothers		Marriages		Divorces	
		No.	Rate ¹	No.	Ratio ²	No.	Rate ¹	No.	Rate ¹
Total	3,857,625	45,136	11.7	15,971	354.6	25,526	6.6	14,740	3.8
Baker	16,215	164	§ 10.1	66	402.4	95	5.9	69	4.3
Benton	85,995	760	§ 8.8	185	§ 243.4	476	§ 5.5	241	§ 2.8
Clackamas	378,480	3,824	§ 10.1	1,054	§ 275.8	2,737	§ 7.2	1,371	3.6
Clatsop	37,145	430	11.6	156	362.8	624	§ 16.8	155	4.2
Columbia	49,625	482	§ 9.7	163	338.9	254	§ 5.1	232	§ 4.7
Coos	62,960	577	§ 9.2	263	§ 455.8	425	6.8	196	§ 3.1
Crook	20,855	176	§ 8.4	61	346.6	146	7.0	76	3.6
Curry	22,335	185	§ 8.3	58	464.0	160	7.2	88	3.9
Deschutes	158,875	1,696	§ 10.7	546	§ 322.1	1,145	§ 7.2	868	§ 5.5
Douglas	107,795	1,086	§ 10.1	501	§ 462.2	715	6.6	448	4.2
Gilliam	1,880	15	8.0	6	400.0	13	6.9	12	6.4
Grant	7,450	67	§ 9.0	23	343.3	37	5.0	36	4.8
Harney	7,375	65	§ 8.8	22	338.5	48	6.5	23	3.1
Hood River	22,625	277	12.2	93	335.7	347	§ 15.3	83	3.7
Jackson	203,950	2,355	11.5	1,014	§ 430.8	1,215	§ 6.0	975	§ 4.8
Jefferson	21,845	314	§ 14.4	162	§ 515.9	140	6.4	85	3.9
Josephine	82,820	760	9.2	351	§ 462.5	510	6.2	337	4.1
Klamath	66,580	825	12.4	374	§ 454.4	440	6.6	331	§ 5.0
Lake	7,885	68	§ 8.6	24	358.2	54	6.8	23	2.9
Lane	353,155	3,469	§ 9.8	1,346	§ 388.1	1,930	§ 5.5	1,473	§ 4.2
Lincoln	46,155	417	§ 9.0	209	§ 501.2	774	§ 16.8	183	4.0
Linn	117,340	1,478	§ 12.6	544	369.3	781	6.7	542	§ 4.6
Malheur	31,445	441	§ 14.0	207	§ 469.4	236	7.5	66	§ 2.1
Marion	318,150	4,374	§ 13.7	1,881	§ 430.1	2,256	§ 7.1	1,290	§ 4.1
Morrow	11,270	172	§ 15.3	71	412.8	65	5.8	39	3.5
Multnomah	741,925	9,498	§ 12.8	3,159	§ 332.9	5,216	§ 7.0	2,432	§ 3.3
Polk	75,965	858	11.3	304	354.3	429	§ 5.6	173	§ 2.3
Sherman	1,765	20	11.3	6	300.0	8	4.5	6	3.4
Tillamook	25,255	241	§ 9.5	93	389.1	337	§ 13.3	88	3.5
Umatilla	76,580	1,056	§ 13.8	504	§ 477.7	452	§ 5.9	272	3.6
Union	25,980	318	12.2	108	339.6	138	§ 5.3	94	3.6
Wallowa	6,995	54	§ 7.7	16	296.3	63	§ 9.0	16	§ 2.3
Wasco	25,300	284	11.2	114	401.4	171	6.8	104	4.1
Washington ...	536,370	7,173	§ 13.4	1,921	§ 268.0	2,346	§ 4.4	1,953	§ 3.6
Wheeler	1,435	9	6.3	2	222.2	13	9.1	5	3.5
Yamhill	99,850	1,147	11.5	364	§ 317.9	730	§ 7.3	355	3.6

§ Indicates rate or ratio is significantly different from the state.

¹ Rate per 1,000 population for live births, marriages and divorces.

² Ratio per 1,000 live births for births to unmarried mothers, calculated excluding missing and unknown values.

WARNING: Rates and ratios based on less than 5 events are unreliable.

TABLE 1-4. Population and Births by City of Residence, Oregon, 2011

City of Residence	Estimated Population July 1, 2011	Births	
		Number	Rate
Albany (Linn, Benton)	50,520	688	13.6
Ashland (Jackson)	20,255	132	6.5
Astoria (Clatsop)	9,495	130	13.7
Baker City (Baker)	9,890	116	11.7
Beaverton (Washington)	90,835	1,936	21.3
Bend (Deschutes)	76,925	985	12.8
Canby (Clackamas)	15,830	230	14.5
Central Point (Jackson)	17,235	264	15.3
Coos Bay (Coos)	16,010	216	13.5
Cornelius (Washington)	11,915	491	41.2
Corvallis (Benton)	54,520	110	2.0
Dallas (Polk)	14,620	175	12.0
Eugene (Lane)	157,010	1,547	9.9
Forest Grove (Washington)	21,275	283	13.3
Gladstone (Clackamas)	11,495	127	11.0
Grants Pass (Josephine)	34,660	432	12.5
Gresham (Multnomah)	105,795	1,087	10.3
Happy Valley (Clackamas)	14,330	275	19.2
Hermiston (Umatilla)	16,865	377	22.4
Hillsboro (Washington)	92,350	1,303	14.1
Keizer (Marion)	36,715	448	12.2
Klamath Falls (Klamath)	21,120	411	19.5
La Grande (Union)	13,095	200	15.3
Lake Oswego (Clackamas, Multnomah, Washington)	36,725	224	6.1
Lebanon (Linn)	15,565	267	17.2
McMinnville (Yamhill)	32,270	429	13.3
Medford (Jackson)	75,180	1,085	14.4
Milwaukie (Clackamas)	20,400	559	27.4
Newberg (Yamhill)	22,230	298	13.4
Newport (Lincoln)	10,065	102	10.1
Ontario (Malheur)	11,375	124	10.9
Oregon City (Clackamas)	32,220	486	15.1
Pendleton (Umatilla)	16,625	207	12.5
Portland (Clackamas, Multnomah, Washington)	585,845	8,484	14.5
Prinville (Crook)	9,260	117	12.6
Redmond (Deschutes)	26,305	396	15.1
Roseburg (Douglas)	21,690	361	16.6
Salem (Marion, Polk)	155,710	2,583	16.6
Sherwood (Washington)	18,255	208	11.4
Springfield (Lane)	59,695	847	14.2
St. Helens (Columbia)	12,890	148	11.5
The Dalles (Wasco)	14,440	186	12.9
Tigard (Washington)	48,415	647	13.4
Troutdale (Multnomah)	16,000	220	13.8
Tualatin (Clackamas, Washington)	26,120	342	13.1
West Linn (Clackamas)	25,250	185	7.3
Wilsonville (Clackamas, Washington)	19,565	222	11.3
Woodburn (Marion)	24,090	436	18.1

Selected cities of 9,000 or more population listed. Counties listed in parentheses.
Population source: Center for Population Research and Census, Portland State University.
Rate per 1,000 population.

TABLE 1-5. Oregon Rates of Low Birthweight, and Measures of Prenatal Care, 1980-2011

Year	Low Birthweight	First Trimester Care	No Care	Inadequate Care ¹	Third Trimester Care	Less than Five Visits
1980	50.4	780.8	5.5	58.0	35.2	41.4
1981	48.5	775.6	8.9	63.1	38.6	43.0
1982	49.2	769.3	11.2	70.3	41.0	48.0
1983	50.0	775.3	11.3	66.5	38.5	44.9
1984	51.5	771.5	11.0	68.2	41.1	46.2
1985	51.3	752.0	12.1	72.9	43.7	47.5
1986	51.3	738.7	11.7	83.3	52.1	54.6
1987	54.0	736.8	16.5	86.2	50.3	58.5
1988	52.6	738.8	13.8	83.6	49.9	54.7
1989	52.2	750.7	12.0	73.2	42.9	48.7
1990	50.1	757.1	10.7	70.0	43.4	45.1
1991	49.2	768.2	8.7	61.0	37.4	38.6
1992	51.8	787.0	8.2	52.6	31.4	34.0
1993	52.5	794.6	7.6	51.7	30.4	33.8
1994	53.0	790.9	8.5	57.8	34.3	36.4
1995	54.9	787.7	8.6	58.4	34.7	38.2
1996	53.5	799.3	7.1	53.7	31.7	34.8
1997	55.0	811.2	6.7	50.0	29.6	32.3
1998	53.7	807.2	7.2	53.5	30.7	35.3
1999	53.9	809.9	7.3	53.7	29.6	35.7
2000	56.6	812.8	8.5	55.9	29.8	36.6
2001	55.6	815.2	8.0	50.5	28.7	33.1
2002	57.9	816.4	9.4	52.2	28.6	35.7
2003	61.6	810.7	11.7	55.5	28.6	38.4
2004	60.6	804.3	10.9	57.9	30.3	41.0
2005	61.2	810.0	8.9	58.3	30.1	40.8
2006	61.0	792.3	9.3	61.5	32.6	42.3
2007	61.0	783.9	9.9	64.3	35.4	43.4
2008*	60.7	702.4	10.5	69.6	45.2	39.2
2009	63.0	712.1	8.5	62.0	41.9	31.7
2010	63.0	731.0	6.2	54.6	38.9	26.9
2011	61.4	750.6	7.1	54.2	38.0	25.4

¹ Inadequate prenatal care is defined as care that began in the third trimester or consisted of less than five prenatal visits.

* Starting in 2008 prenatal care calculations changed, see Appendix B for details

All rates are per 1,000 live births. Rates and percentages are calculated excluding missing and unknown values.

**TABLE 1-6. Domestic Partnerships
by County of Occurrence and Sex,
Oregon, 2011**

County	Total	Domestic Partnerships	
		Male-Male	Female-Female
Total	550	136	414
Baker	—	—	—
Benton	10	3	7
Clackamas	19	5	14
Clatsop	4	3	1
Columbia	6	1	5
Coos	2	1	1
Crook	1	—	1
Curry	1	—	1
Deschutes	12	1	11
Douglas	8	1	7
Gilliam	—	—	—
Grant	—	—	1
Harney	—	—	—
Hood River	—	—	—
Jackson	23	5	18
Jefferson	—	—	—
Josephine	8	1	7
Klamath	7	—	7
Lake	—	—	—
Lane	55	10	45
Lincoln	7	—	7
Linn	7	—	7
Malheur	2	—	2
Marion	28	9	19
Morrow	—	—	—
Multnomah	262	80	182
Polk	6	1	5
Sherman	—	—	—
Tillamook	—	—	—
Umatilla	3	—	3
Union	2	—	2
Wallowa	—	—	—
Wasco	1	—	1
Washington	70	15	55
Wheeler	—	—	—
Yamhill	5	—	5

— Quantity is zero.

SECTION 2: NATALITY

Natality

In 2011, Oregon recorded **45,136 resident births**, 460 fewer than in 2010. The **crude birth rate** (the number of babies born divided by the total state population) was 11.7 per 1,000 population. (See Table 1-2.) Oregon's crude birth rate peaked in 1947 at 25.4 per 1,000 population. Since 1980, Oregon's rates have held in the mid-teens, ranging from a high of 16.4 in 1980 to the current low of 11.7. Except for the period between 1976 and 1981, Oregon's crude birth rate has remained lower than the national rate for the past 50 years. In 2011, Oregon's rate was 7.9 percent lower than the national rate (11.7 vs. 12.7). (See Figure 2-1.)

Oregon's **fertility rate** decreased from 60.0 in 2010 to 59.3 per 1,000 women aged 15–44 in 2011. (See sidebar 2-A, page 2-3; Table 2-2.) The fertility rate is based on the number of births per 1,000 women aged 15–44. The fertility rate is a more precise measurement of changes in behavioral patterns than crude birth rate. Fertility rates consist only of women of childbearing age, while the crude rate is based on the entire population. Age-specific birth rates decreased for women in the younger age groups; birth rates increased for women 30 and older. The largest percentage decrease was among women aged 15–19 (9.6 %) while the largest increase was among women aged 40–44 (3.1%). (See Table 2-2, Figure 2-2.)

Oregon's crude birth rate and fertility rate both remain below the national rates.

Table 2-A. Fertility Rates Per 1,000 Females 15-44, Oregon & U.S.		
Year	Oregon	U.S.
1980	69.3	68.4
1981	68.1	67.3
1982	65.2	67.3
1983	64.1	65.7
1984	62.8	65.5
1985	62.2	66.3
1986	61.8	65.4
1987	60.9	65.8
1988	61.8	67.3
1989	63.3	69.2
1990	65.1	70.9
1991	63.7	69.3
1992	62.5	68.4
1993	61.1	67.0
1994	61.0	65.9
1995	62.3	64.6
1996	63.2	64.1
1997	63.0	63.6
1998	64.2	64.3
1999	64.2	64.4
2000	62.9	65.9
2001	61.6	65.3
2002	60.9	64.8
2003	61.2	66.1
2004	60.0	66.3
2005	62.2	66.7
2006	65.5	68.5
2007	66.0	69.2
2008	64.6	68.6
2009	62.0	66.7
2010	60.0	66.7
2011	59.3	63.2

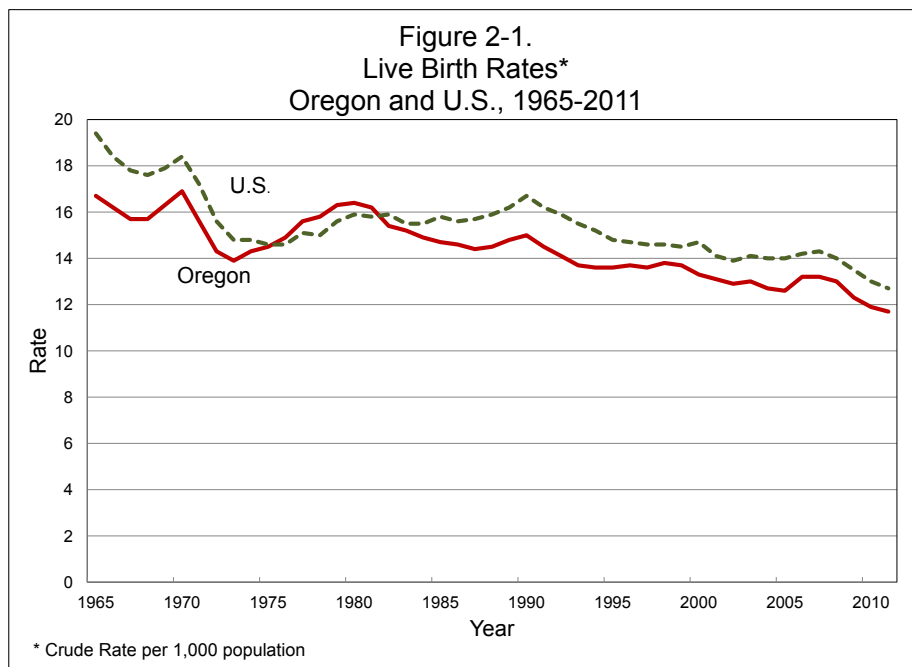
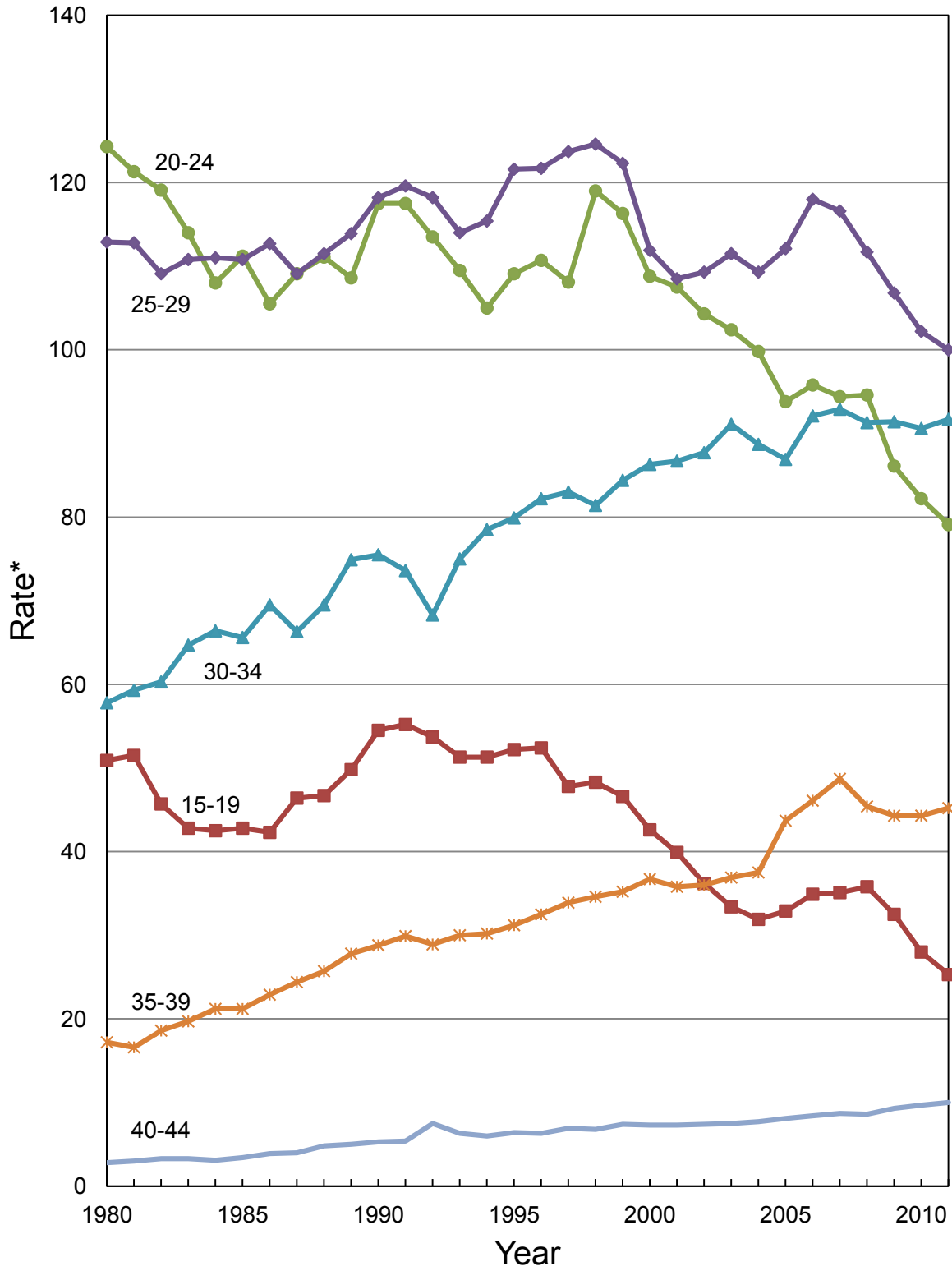


Figure 2-2.
Age-specific Birth Rates,
Oregon Residents, 1980-2011



*Rate per 1,000 females

The youngest female to give birth in 2011 was 13 years old and the oldest was 54. Mother's median age for all births was 28, and the mean age was 28.2. The median age at first birth was 26 and the mean age was 26.1. The **rate of first birth** decreased slightly from the previous year to 23.6 first births per 1,000 women aged 15–44, slightly lower than the 2011 national rate of 25.4. The proportion of first births among total births has been stable for the past decade. In 2000, 40.1 percent of births were first births while in 2011, 39.9 percent were first births.

Father's mean age for births was 31.0 years, and the median age was 31. The **birth rate per 1,000 men** ages 15–54 was 43.2 in 2011 for Oregon resident births. Information on the father was missing from 9.1 percent of birth certificates. Unknown father age was distributed in the same manner as national data. (See Technical Notes - Definitions, Appendix B.) The national birth rate for men in 2010 was 46.8 per 1,000 men.

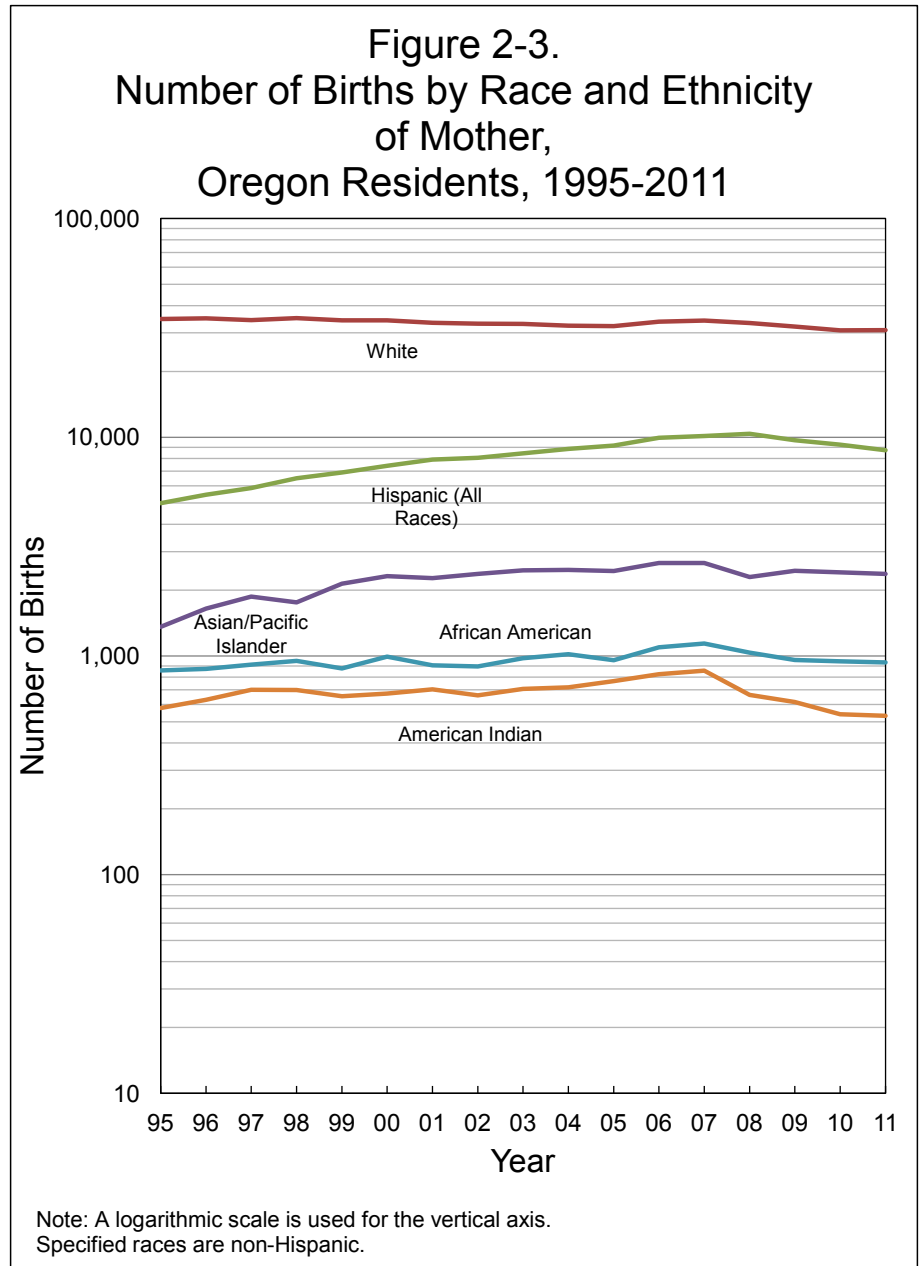
Demographics

Maternal race/ethnicity

Birth rates for racial and ethnic groups are not calculated in this report because precise population data by racial and ethnic groups are available only for census years. Instead, this report focuses on the race and ethnicity of women who gave birth as a proportion of total births.

Since 1989, the number of births to women of Hispanic ethnicity has almost quadrupled to 19.3 percent of total births. (See Table 2-7, Figure 2-3.) The method for reporting the Hispanic category has changed in Oregon over the years. From 1981 to 1988, "Hispanic" was a race category on the birth certificate. From 1989 to 2007, information regarding Hispanic ethnicity was reported separately from race. Starting in 2008, an individual could choose multiple race/ethnicity responses. (See Technical Notes - Methodology, Appendix B.) Persons of Hispanic ethnicity may belong to any race category (or categories). This change addressed the complexity of race and ethnicity and increased self-reporting accuracy for Oregon.

Differences by race and ethnicity of mother persist. The group with the highest percentage of inadequate care is Hawaiian and Pacific Islander regardless of Hispanicity.



White non-Hispanic and Asian non-Hispanic women had the lowest percentages of inadequate care (4.6 % and 4.5 % respectively.) (See Table 2-18.)

Marital status of mother

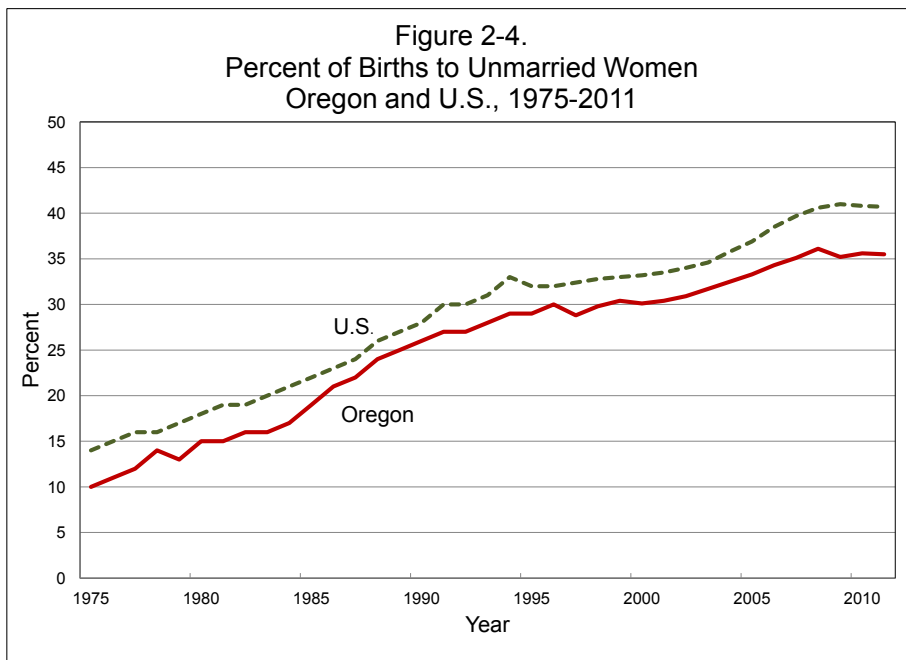
Unmarried women as a group have historically poorer birth outcomes than married women. They generally have a greater proportion of babies with lower birthweight and lower Apgar scores than do their married counterparts. Infants born to unmarried mothers are more likely to require neonatal intensive care, have congenital anomalies or die before age 1. In Oregon, the ratio of births to unmarried mothers in 2011 was 3.5 times higher than in 1975, and 5.6 times higher than in 1965. (See Table 1-2 and

Figure 2-4.) While there has not been a matching increase in low birthweight rates and other indicators of poor health, the disparity in prenatal care, tobacco use and race/ethnicity between married and unmarried women continues.

In 2011, 35.5 percent of all Oregon births were to unmarried women, a slight decrease from the previous year. (See Table 1-2.) Oregon has consistently had a lower percentage of births to unmarried women than the U.S. Oregon’s rate in 2011 was 12.9 percent lower than the U.S. rate. (See Figure 2-4.)

Among women giving birth in 2011, the percentage of women who were unmarried varied widely by ethnic and racial group (see sidebar 2-B). Non-Hispanic American Indian women had the highest percentage of non-marital births (66.8 %), followed by non-Hispanic African American women (58.7 %), and Hispanic women (49.6 %). Non-Hispanic Asian women had the lowest percentage of unmarried mothers (13.8 %). (See Table 2-13.)

Mothers under age 17 are likely to be unmarried, since persons younger than age 17 cannot legally marry in Oregon. More than four-fifths of teens aged 15–19 who gave birth in 2011 were unmarried (85.9 %), compared to 57.8 percent for women aged 20–24 and 29.9 percent for women aged 25–29. The percentage of unmarried women was lowest for mothers aged 35–39 (18.4 %) and 30-34 (19.4 %), while 22.6 percent of mothers aged 40-44 were



Race/Ethnicity	Unmarried
Total	35.5
Non-Hispanic	
African American	58.7
American Indian	66.8
Asian	13.8
Hawaiian/Pacific Islander	47.6
Multiple Races	49.5
White	31.0
Hispanic	49.6

unmarried. (See Table 2-3.) Eleven of Oregon's 36 counties had proportions of non-marital births significantly higher than the state average. (See Table 2-9.) Among counties with statistically significant differences, Jefferson had the highest percentage (51.6 %) followed by Lincoln (50.1 %) and Umatilla (47.8 %). (See Technical Notes - Formulas, Appendix B for information on statistical significance.) Five Oregon counties had percentages of non-marital births significantly lower than the state average. Benton County had the lowest percentage of non-marital births (24.3 %). A county's non-marital birth proportion should be viewed, in part, as a function of its own specific population mix, especially age and race. Variations in population composition among counties will likely result in significant differences in non-marital births.

Educational attainment

A mother's level of education was closely related to prenatal care patterns. Women with less than a high school education had the lowest percentages of first trimester prenatal care. As educational attainment increases, so does the percentage of women obtaining first trimester care. Women who had a doctorate or professional degree had the highest percentage of first trimester care. (See sidebar 2-C and Table 2-19.)

More than three-fourths of women who gave birth in 2011 had at least a high school diploma or GED (83.0 %) and 27.9 percent had a bachelor's degree or higher. The racial/ethnic groups with the highest percentages of high school completion are non-Hispanic Asian (92.2 %) and non-Hispanic White (91.0 %) mothers. Hispanic mothers had

Years of Education	No First Trimester Care (%)
8th Grade or Less	38.6
9th to 12th Grade, No Diploma	39.0
High School Graduate or GED	30.7
Some College, No Degree	24.9
Associates Degree	20.0
Bachelors Degree	14.2
Masters Degree	10.8
Doctorate or Professional Degree	9.7

the lowest percentage of completion of at least 12 years of education (53.1 %). (See Table 2-13.)

Maternal lifestyle and health characteristics

Tobacco

Oregon Benchmark for the Year 2015

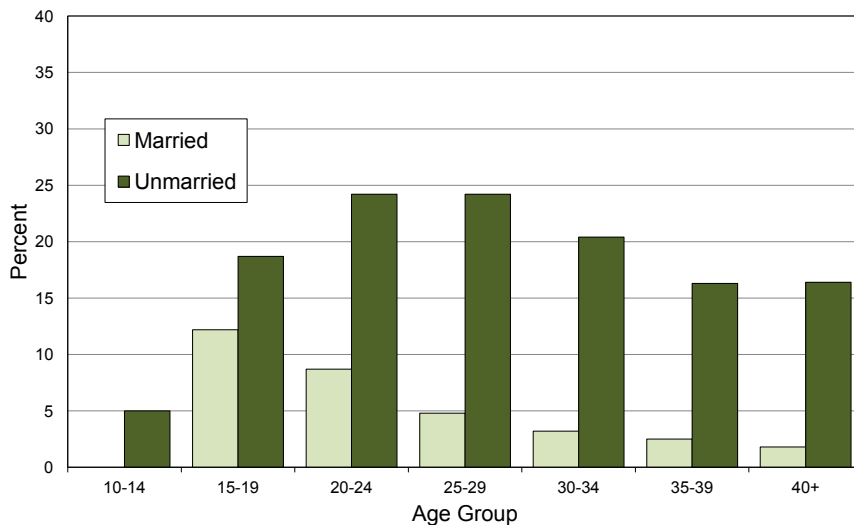
Percentage of infants whose mothers did not use tobacco during pregnancy (self-reported).

<i>Year 2015 target:</i>	<i>98.0 %</i>
<i>2011:</i>	<i>89.3 %</i>

Women who smoke when pregnant have a far higher incidence of low birthweight babies than nonsmokers. Low birthweight infants are more likely to experience serious health problems, including increased rates of infant mortality. Women who smoked had a low birthweight rate of 98.6 per 1,000 live births, compared to 56.7 per 1,000 among women who did not smoke. Nearly one of nine mothers (10.7 %) reported using tobacco during pregnancy, which is the lowest rate seen in more than 20 years. (See sidebar 2-D, page 2-7.) The percentage of mothers who reported smoking during pregnancy decreased with age among married women. For unmarried women, smoking rates rose and fell with age, peaking in the early 20s. The

Table 2-D. Percent Tobacco Use, Oregon Residents	
Year	Percentage
1990	22.4
1995	17.9
2000	13.5
2001	12.8
2002	12.6
2003	12.0
2004	12.6
2005	12.4
2006	12.3
2007	11.7
2008	11.8
2009	11.3
2010	11.3
2011	10.7

Figure 2-5.
Percentage of Mothers Who Smoked During Pregnancy by Age and Marital Status, Oregon Residents, 2011



Women who smoked had a low birthweight rate of 98.6 per 1,000.

percentage of tobacco use among unmarried women was nearly five times that of married women (20.6 % vs. 4.5 %). The highest percentage of tobacco use during pregnancy in 2011 was among unmarried mothers aged 20–24 and unmarried mothers aged 25–29 (24.2 %). There was very little smoking reported for the youngest mothers aged 10–14. The lowest percentage of smokers was reported for married mothers aged 40 or older (1.8 %) and 35–39 (2.5 %). (See Figure 2-5, page 2-7.)

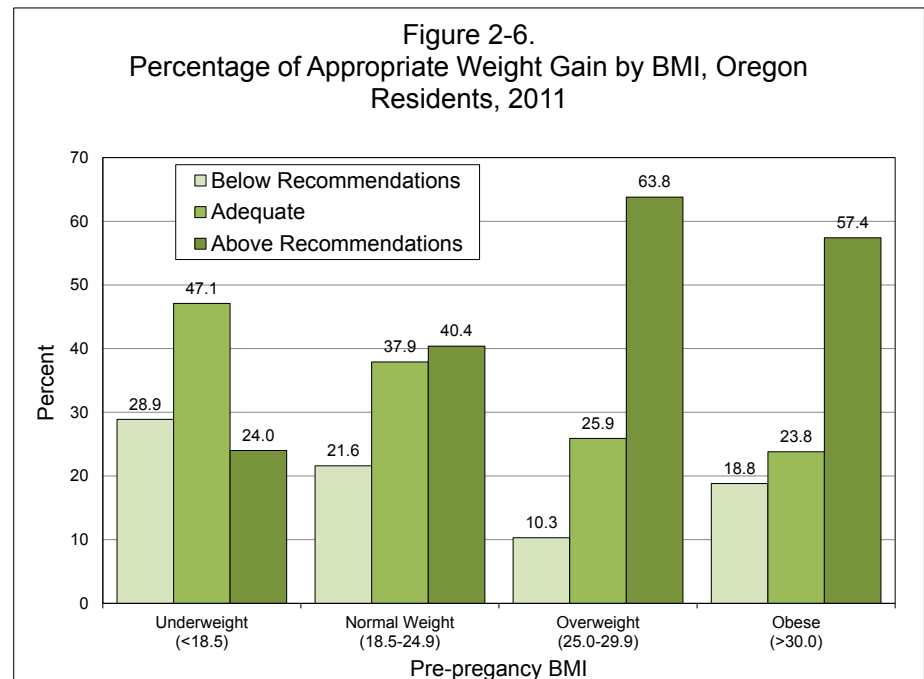
Smoking prevalence as reported on birth certificates also varied among racial and ethnic groups. In 2011, non-Hispanic American Indian women (20.1 %) and non-Hispanic women reporting multiple races (20.1 %) had the highest reported proportions for smoking during pregnancy, while non-Hispanic Asian women (1.6 %) and Hispanic women (3.0 %) reported the lowest. (See Table 2-25.)

Maternal weight and weight gain

Appropriate maternal weight gain has been shown to be positively correlated with infant birthweight. Low maternal weight gain is associated with poor fetal growth, lower birth weight and the chance of a baby being born prematurely. High maternal weight gain is associated with higher infant birthweight and cesarean delivery. Excessive weight during pregnancy is often accompanied by chronic disease and is a health risk factor for both the mother and child.

Table 2-E. Institute of Medicine Guidelines for Weight Gain During Pregnancy	
Pre-pregnancy BMI (kg/m ²)	Weight Gain (lbs)
Underweight (<18.5)	28-40
Normal Weight (18.5-24.9)	25-35
Overweight (25.0-29.9)	15-25
Obese (>30.0)	11-20

Figure 2-6. Percentage of Appropriate Weight Gain by BMI, Oregon Residents, 2011



Oregon began collecting data on mothers' pre-pregnancy weight, weight at delivery and height on birth certificates in 2008. The availability of this new data allows Body-Mass-Index (BMI) to be calculated and provides a better picture of pre-pregnancy BMI and gestational weight gain of Oregon mothers. In 2009, the Institute of Medicine (IOM) revised its guidelines for weight gain during pregnancy, which express ideal weight gain in pregnancy as a range for each category of pre-pregnancy BMI. (See sidebar 2-E.) Many Oregon mothers exceeded these recommendations. In 2011, 49.7 percent of women gained more weight than the IOM guidelines recommend. Additionally, 48.4 percent of Oregon women entered pregnancy overweight or obese and also had the highest percentage of weight gain above the guidelines (63.8 % and 57.4 % respectively). (See Figure 2-6.) Women starting pregnancy underweight had the highest percentage of weight gain below the IOM recommendations (28.9 %) and had the highest percentage of low birthweight infants (8.7 %).

Medical risk factors

Maternal medical risk factors influence pregnancy complications and infant health and vary greatly based on the mother's age, race and ethnicity. In 2011, the most frequently reported medical risk factors were previous cesarean delivery (13.8 %), gestational diabetes (6.5 %), and pregnancy-associated hypertension (5.6 %). (See Table 2-23 and Table 2-26.)

Medical services utilization

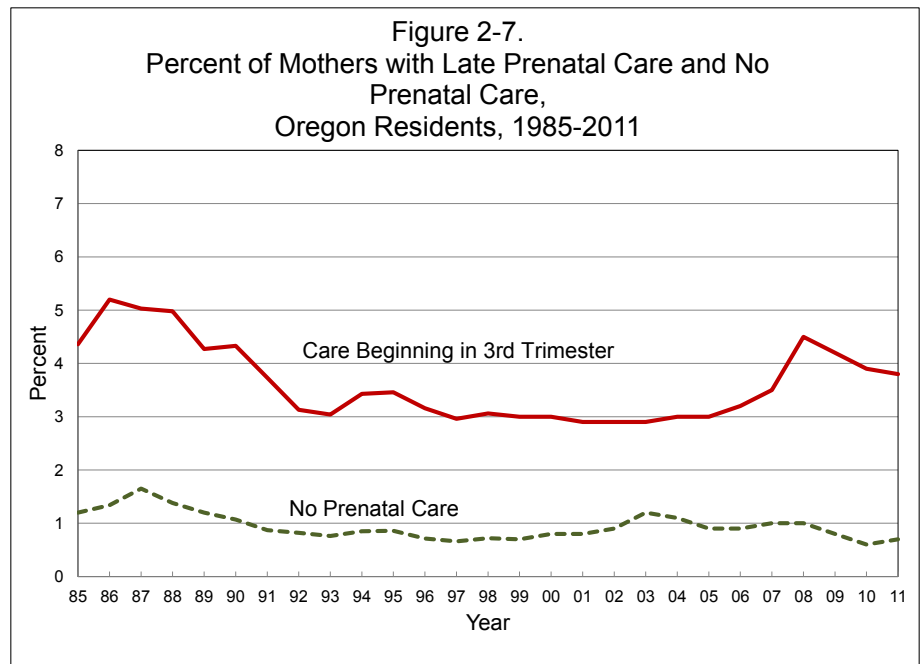
Prenatal care

Oregon Benchmark for the Year 2015

Percentage of infants whose mothers received prenatal care beginning in the first trimester.

<i>Year 2015 target:</i>	<i>90.0 %</i>
<i>2011:</i>	<i>75.1 %</i>

Public health services and private care providers seek to minimize the risk of death and disability to infants. Additionally, they seek reductions in costs associated with low birthweight infants by providing comprehensive



prenatal care. The two ways Oregon measures prenatal care are: 1) “inadequate prenatal care,” defined as no care until the third trimester or fewer than five total prenatal visits; or 2) “first trimester care,” defined as care beginning in the first three months of pregnancy, regardless of the number of total prenatal visits. First trimester care has been adopted as an Oregon Benchmark with a goal to ensure that at least 90 percent of women begin prenatal care within the first three months of their pregnancies by 2015.

Overall, 75.1 percent of women who gave birth during 2011 received early prenatal care, which is 5.8 percent higher than the 2008 national number of 71.0 percent. (See Table 2-17; Table 1-5.) Moreover, this is 2.7 percent higher than the 2010 rate of 73.1 percent.

In 2011, 5.4 percent of women giving birth received inadequate prenatal care and 24.9 percent received no first trimester care. The percentage of low birthweight infants was much higher for women who received inadequate prenatal care, 9.8 percent, compared to 5.8 percent of children born to mothers who received adequate prenatal care. The percentage of mothers who received no prenatal care was about the same as previous years (0.7%). Mothers who initiated care in the third trimester decreased in 2011 from 3.9 percent in 2010 to 3.8 percent. (See Figure 2-7.) Age, marital status, education and race/ethnicity continue to show important differences in accessing prenatal care. (See Tables 2-17, 2-18, 2-19 and 2-21.)

Two of Oregon’s 36 counties had first trimester care rates significantly higher than the statewide rate. These counties were Deschutes and Washington. Six counties had rates significantly lower than the state: Klamath, Malheur, Marion, Morrow, Tillamook, and Umatilla counties. (See Table 2-20.)

Year	Intensive	Adequate	Intermediate	Inadequate
2006	24.7	43.6	18.3	12.4
2007	24.1	43.4	18.7	12.8
2008	30.0	39.5	14.4	15.0
2009	32.4	40.1	12.5	14.1
2010	35.5	40.1	10.9	12.9
2011	34.8	41.3	11.8	12.2

The Adequacy of Prenatal Care Utilization Index

is an alternative measure of prenatal care based on the month prenatal care began and the number of prenatal visits, adjusting for gestational age. Care is determined to be intensive (exceeding recommended care by a ratio of expected visits to actual visits by at least 110 %), adequate, intermediate or inadequate. (See 2-F, above.) As with other measures of prenatal care, more women under the age of 20 received inadequate prenatal care, while more women aged 40 and over received intensive prenatal care. Women with medical risk factors such as diabetes and hypertension also were more likely to receive intensive prenatal care.

Birth attendant and place of delivery

Hospital births. Hospitals are the most frequent place of birth with 96.3 percent of Oregon occurrence births. Most in-hospital births (77.8 %) were delivered by medical doctors; certified nurse midwives delivered 16.5 percent of hospital births; 5.4 percent were by osteopathic doctors, and 0.3 percent by other licensed medical professionals. (See Table 2-27.)

Out-of-hospital births. In 2011, 3.7 percent of Oregon births occurred out-of-hospital. Oregon generally has a higher proportion of out-of-hospital births than the U.S. as a whole. In 2011, Oregon’s proportion of out-of-hospital births was triple the 2010 U.S. percentage (1.2 %). As in past years, the majority of out-of-hospital births occurred in the mother’s home (61.4 %). Of those home births, 94.7

Year	Deliveries	Rate ¹
1982	2,069	49.2
1983	2,060	50.2
1984	1,786	43.7
1985	1,772	43.5
1986	1,520	37.9
1987	1,361	34.0
1988	1,217	29.4
1989	1,117	26.2
1990	1,077	24.2
1991	979	22.2
1992	996	22.8
1993	936	21.6
1994	979	22.5
1995	967	21.7
1996	979	21.4
1997	970	21.5
1998	914	19.8
1999	948	20.6
2000	1,047	22.4
2001	1,007	21.7
2002	947	20.6
2003	1,000	21.3
2004	1,003	21.6
2005	1,058	22.6
2006	1,134	23.1
2007	1,267	25.4
2008	1,431	29.0
2009	1,404	29.4
2010	1,574	34.3
2011	1,680	36.9

¹ Rate per 1,000 births

Table 2-H. Certified Nurse Midwife Deliveries, Oregon Occurrence			
Year	Deliveries		
	Total	In-Hospital	Out-of-Hospital
1984	1,912	1,567	374
1985	2,022	1,661	390
1986	1,984	1,607	400
1987	1,843	1,483	385
1988	2,345	2,133	259
1989	2,886	2,706	244
1990	3,660	3,539	226
1991	4,262	4,096	166
1992	4,498	4,319	179
1993	4,784	4,618	173
1994	4,931	4,772	159
1995	5,601	5,441	160
1996	6,019	5,871	148
1997	5,853	5,734	119
1998	6,152	6,004	148
1999	6,357	6,193	164
2000	6,740	6,591	149
2001	6,848	6,721	127
2002	6,837	6,747	90
2003	6,838	6,721	117
2004	6,586	6,472	114
2005	6,487	6,386	101
2006	7,102	6,996	106
2007	7,631	7,507	124
2008	8,004	7,820	184
2009	7,711	7,579	132
2010	7,476	7,257	219
2011	7,496	7,245	251

percent were planned homebirths, while the remaining 5.3 percent were not intended to occur at home. Freestanding birthing centers accounted for 601 births, nearly one-third of out-of-hospital births. Outcomes generally have been positive for out-of-hospital births. In 2011, 22 infants born out-of-hospital in Oregon had low birthweights (1.3 %). For births that occurred in a birthing facility or were planned homebirths, only 0.7 percent of out-of-hospital births were low birthweight. Seven infants (0.4 %) were reported to have a congenital anomaly, which is lower than the percentage for in-hospital births (0.6 %).

Birth attendant. There are three different types of midwives in Oregon: certified nurse midwives (CNM), licensed direct entry midwives (LDM), and direct entry midwives (DEM). CNMs have completed an accredited, university-affiliated nurse-midwifery program, and have an active nurse practitioner license. LDMs are direct entry midwives who have volunteered for state licensure through the Oregon Health Licensing Agency. They must meet qualifications and adhere to regulations set by the state of Oregon. Other midwives are lay midwives that are not licensed in Oregon, but are registered with the Center for Health Statistics to certify births.

A major shift during the past few decades has been the increasing prevalence of births attended by certified nurse midwives (CNMs). In 2011, 16.5 percent of hospital deliveries were CNM-attended, a slight increase from 2010 (16.4 %) and more than two-and-a-half times the proportion in 1989 (6.5 %). This is more than twice the national proportion of births attended by CNMs (7.6 %). In addition, CNMs delivered approximately one in seven out-of-hospital births (14.9 %). Licensed direct entry midwives (LDM) were predominant in out-of-hospital births, delivering over one-half (59.1 %) of those births in 2011. Other midwives delivered an additional 6.7 percent of the out-of-hospital births. Naturopathic physicians delivered approximately one in ten out-of-hospital births (10.8 %). Non-medical attendants delivered 127 babies, 7.6 percent of the out-of-hospital births. (See Table 2-27.)

Method of delivery

In 2011, the rate of cesarean delivery was 28.8 percent, well below the 2011 U.S. rate of 32.8 percent. The rate

for vaginal delivery after a previous cesarean was only 2.0 percent, while the repeat cesarean rate was 11.7 percent. The majority of births (69.1 %) continue to be vaginal deliveries without prior cesarean. (See Table 2-28.) The number of vaginal deliveries (without prior cesarean) has increased slightly from 2010 (1.9 %). After several years of increasing cesarean rates, the 2011 cesarean rate decreased 2.0 percent from 2010 (29.4 %).

Infant health characteristics

Period of gestation

Preterm births (infants born prior to completion of 37 weeks gestation) comprised 7.4 percent of total births in 2011, much lower than the U.S. rate in 2011 (11.7 %). (See Table 2-25.) Similar to national trends, proportions of preterm births are higher for non-Hispanic African Americans (9.6 %) and non-Hispanic American Indian women (9.8 %). Hispanic and White non-Hispanic women had the lowest proportions of preterm births (7.2 and 7.3 % respectively). (See Table 2-25.)

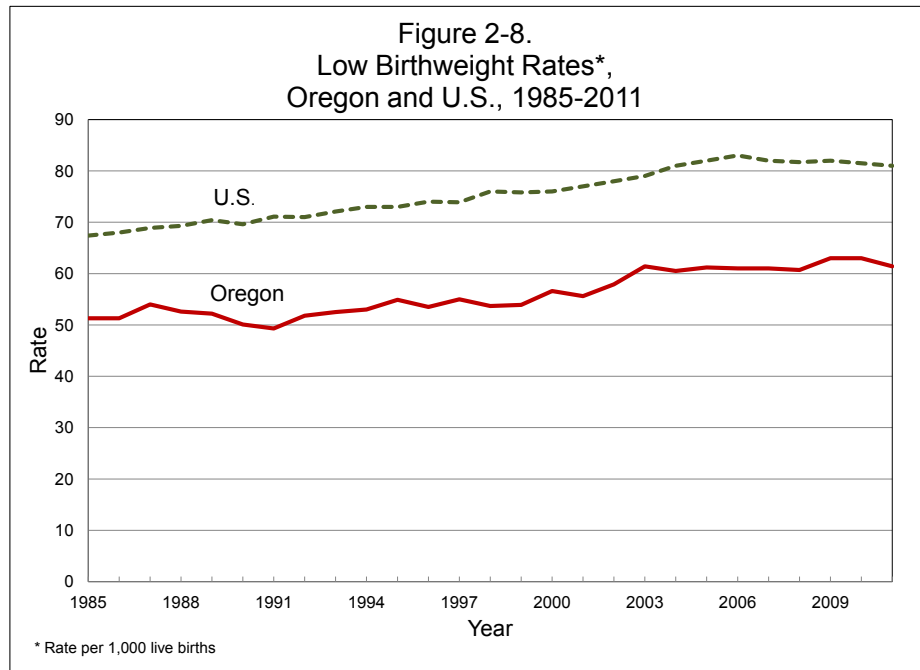
Low birthweight

National Healthy People 2020 Objective

Percentage of live births resulting in low birthweight infants.

<i>Year 2020 Target:</i>	<i>7.8 %</i>
<i>2011:</i>	<i>6.1 %</i>

Of the thousands of infants born each year, not all thrive and become healthy adults. Low birthweight is the major predictor of infant death, which is a fundamental measure of the health of a population. Infants with low birthweight are more likely to need extensive medical treatment and to have lifelong disabling conditions. (For more information, see the Oregon Vital Statistics Annual Report 2011, Volume 2: Mortality Fetal and Infant Mortality.) The low birthweight rate is the proportion of infants who weigh less than 2,500 grams (5 pounds, 8 ounces) at birth. In 2011, there were 2,769 low birthweight babies born to Oregon mothers. (See Table 2-29.) One of the National Healthy People 2020 Objectives is to reduce the percentage of low birthweight infants nationwide to 7.8 percent. In 2011, the percentage of



low birthweight births in Oregon remained well below this objective at 6.1 percent, or 61.4 per 1,000 live births. This rate is 3.2 percent lower than the 2010 rate. While annual changes have been slight in the last 20 years, there has been a slight upward trend in low birthweight infants. (See Table 1-5; Figure 2-8.) Nevertheless, Oregon's low birthweight rates are typically 25 percent lower than national rates and in 2011, Oregon's rate was 24.3 percent lower than the 2011 national rate (61.4 vs. 81.0 per 1,000 births).

Major factors contributing to the risk of having a low birthweight baby are multiple births, tobacco use and chronic hypertension. Other factors include: non-White race of mother, mother's age (younger than 18 or older than 34), lack of prenatal care, low income, single marital status, a previous fetal or infant death, low education, and short spacing between births. As an example of risk factors, women ages 45+ have a higher than average percentage of first trimester care (79.2%) compared to the state average of 75.1 percent. (See Table 2-17.) Nevertheless, women ages 45+ continue to have the highest percentage of low birthweight babies, 23.0 percent compared to 6.1 percent for all births. (See Table 2-24.)

High birthweight

Birthweight is an important factor in the health of a newborn. Excessive birthweight, or fetal macrosomia, is a health risk

factor for both the mother and child and is commonly defined as birthweight greater than 4,000 grams (8 pounds, 13 ounces).

Among Oregon residents in 2011, the prevalence of fetal macrosomia at 4,000 grams was 10.9 percent. (See Tables 2-24 and 2-25). As maternal age increases, the risk of fetal macrosomia also tends to increase (see Table 2-24). The percentage of infants born weighing more than 4,000 grams is 13.8 percent greater in women 35 and older (12.4 %) than the state average and 82.4 percent higher than among women younger than 20 (6.8 %).

In 2011, the prevalence of macrosomia was highest among non-Hispanic American Indian women (Table 2-25). The lowest rates of macrosomia were found in African American women and Asian women, though the low percentage of macrosomia among African American women is likely related to the higher proportion of preterm births in that group.

Apgar scores

The Apgar score is composed of measurements of five infant characteristics: heart rate, respiratory effort, muscle tone, reflex irritability and color. Each characteristic is rated 0–2 and the score totaled. Scores below 7, five minutes after birth, indicate poor to intermediate health at birth. In Oregon during 2011, 2.7 percent of infants had Apgar scores below 7, nearly 1.5 times the 2010 national figure of 1.8. (See Table 2-24 and Table 2-25.)

Abnormal conditions and congenital anomalies

The most frequently reported conditions on birth certificates were admission to the Neonatal Intensive Care Unit, assisted ventilation immediately after delivery, and antibiotics for suspected neonatal sepsis. (See Table 2-35 and Table 2-36.) Congenital anomalies reported on birth certificates are shown in Table 2-37. Although Oregon occurrences are somewhat higher than national rates for some anomalies, congenital anomalies are believed to be underreported nationally due to factors such as recognizability and severity. Even at the national level, data users are advised to use caution in comparing annual occurrences for relatively small numbers.

Multiple births

Although 3.3 percent of births in Oregon during 2011 were multiple births, the proportion varied widely by age, race and ethnicity. During 2011, mothers aged 45 and older had the

Table 2-I. Percentage of infants born weighing more than 4,000 grams, Oregon Residents		
Year	Percent	Largest infant born (in grams)
1990	14.2	6040
1991	13.9	6265
1992	13.8	5990
1993	13.8	6010
1994	13.8	5810
1995	13.5	6265
1996	13.1	6156
1997	12.8	6060
1998	13.0	6139
1999	12.8	6293
2000	12.8	6151
2001	12.4	5981
2002	11.8	5896
2003	11.5	6180
2004	10.9	5925
2005	10.9	6497
2006	10.7	5982
2007	10.5	7000
2008	10.7	7711
2009	10.7	6804
2010	10.4	6454
2011	10.9	6401

Among Oregon resident births in 2011, the biggest baby born was 14 lbs 2 oz.

Year	Private Insurance	Self Pay	Medicaid/OHP
	%	%	%
1989	60.7	9.5	27.5
1990	60.4	8.7	28.7
1991	58.2	6.5	33.2
1992	57.2	5.8	35.2
1993	56.2	5.9	36.2
1994	57.5	5.6	34.9
1995	57.9	4.9	35.5
1996	58.3	5.7	35.0
1997	60.8	6.3	31.9
1998	62.2	6.3	30.7
1999	61.1	5.9	32.4
2000	61.6	5.4	32.8
2001	61.2	4.3	34.3
2002	58.7	3.5	37.8
2003	58.9	3.5	37.6
2004	56.5	3.2	40.3
2005	55.6	3.0	41.4
2006	55.1	3.2	41.3
2007	56.1	3.5	40.4
2008	53.6	3.2	40.9
2009	52.3	2.5	42.3
2010	50.9	2.4	45.1
2011	50.8	2.2	45.5

Note: Denominator excludes births with unknown payor source, and multiple payor source.

highest percentage of multiple births. The percentage of multiple births for each age group ranged from 1.8 percent for mothers aged 15–19 to 21.3 percent of births to mothers aged 45 and older. The percentage of multiple births generally increased with each five-year age group. (See Table 2-24.) Non-Hispanic African American women had one of the highest percentages of multiple births (4.4 %). (See Table 2-25.)

Infertility treatment

Many fertility treatments increase a woman's chance of having twins, triplets, or other multiples. Multiples are at higher risk for prematurity and low birthweight. During 2011, mothers aged 45 and older had the highest rate of infertility treatment (280.0 per 1,000 births). (See Table 2-23).

Source of payment

Primary source of payment for delivery is noted on Oregon birth certificates under five categories: 1) public insurance (Medicaid/Oregon Health Plan), 2) private insurance, 3) self-pay (no insurance), 4) Indian Health Services, and, 5) other and unknown payment source. Private insurance companies paid for the majority of deliveries in Oregon (50.8 %), down from 50.9 percent in 2010 (see sidebar, 2-J). Medicaid programs (e.g., the Oregon Health Plan) paid for over two-fifths of Oregon resident births (45.5 %). Delivery costs were more likely to be paid for by public insurance if the woman was under age 18. (See Table 2-14.)

TABLE 2-1. Oregon Resident Births by Age Group of Mother, Selected Years 1955-1985, 1990-2011

Year	Total	Age Group of Mother																		NS*
		Under 15		15-19		20-24		25-29		30-34		35-39		40-44		45+				
		No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%			
1955	38,678	19	0.0	4,939	12.8	12,968	33.5	10,339	26.7	6,346	16.4	3,194	8.3	835	2.2	36	0.1	2		
1960	38,347	31	0.1	5,896	15.4	14,122	36.8	9,338	24.4	5,303	13.8	2,808	7.3	799	2.1	48	0.1	2		
1965	32,955	29	0.1	5,758	17.5	13,154	39.9	7,640	23.2	3,786	11.5	1,976	6.0	582	1.8	29	0.1	1		
1970	35,353	41	0.1	6,027	17.0	14,587	41.3	9,778	27.7	3,373	9.5	1,195	3.4	324	0.9	27	0.1	1		
1975	33,352	57	0.2	5,206	15.6	12,716	38.1	10,718	32.1	3,576	10.7	888	2.7	167	0.5	9	0.0	5		
1980	43,091	71	0.2	5,658	13.1	14,912	34.6	14,297	33.2	6,499	15.1	1,456	3.4	185	0.4	11	0.0	2		
1985	39,419	42	0.1	4,136	10.5	11,815	30.0	12,782	32.4	8,017	20.3	2,333	5.9	281	0.7	10	0.0	3		
1990	42,830	76	0.2	5,080	11.9	11,523	26.9	12,974	30.3	8,961	20.9	3,607	8.4	585	1.4	13	0.0	11		
1995	42,715	104	0.2	5,437	12.7	11,054	25.9	11,950	28.0	9,216	21.6	4,059	9.5	848	2.0	43	0.1	4		
1996	43,645	91	0.2	5,676	13.0	11,268	25.8	12,286	28.1	9,202	21.1	4,232	9.7	847	1.9	39	0.1	4		
1997	43,765	104	0.2	5,344	12.2	11,367	26.0	12,594	28.8	9,018	20.6	4,356	10.0	940	2.1	46	0.1	7		
1998	45,228	95	0.2	5,565	12.3	11,855	26.2	12,850	28.4	9,303	20.6	4,560	10.1	942	2.1	46	0.1	12		
1999	45,193	86	0.2	5,491	12.2	11,896	26.3	12,603	27.9	9,459	20.9	4,575	10.1	1,015	2.2	65	0.1	3		
2000	45,786	66	0.1	5,090	11.1	12,265	26.8	12,680	27.7	9,943	21.7	4,669	10.2	1,007	2.2	61	0.1	5		
2001	45,318	66	0.1	4,819	10.6	12,244	27.0	12,408	27.4	10,093	22.3	4,605	10.2	1,008	2.2	67	0.1	8		
2002	45,190	51	0.1	4,410	9.8	11,997	26.6	12,634	28.0	10,320	22.8	4,674	10.3	1,036	2.3	61	0.1	7		
2003	45,935	47	0.1	4,116	9.0	11,901	25.9	13,033	28.4	10,840	23.6	4,842	10.5	1,067	2.3	80	0.2	9		
2004	45,660	55	0.1	3,980	8.7	11,769	25.8	12,959	28.4	10,704	23.4	4,994	10.9	1,102	2.4	87	0.2	10		
2005	45,905	52	0.1	3,992	8.7	11,644	25.4	13,381	29.1	10,432	22.7	5,276	11.5	1,051	2.3	75	0.2	2		
2006	48,684	45	0.1	4,263	8.8	12,176	25.0	14,298	29.4	11,184	23.0	5,534	11.4	1,084	2.2	95	0.2	5		
2007	49,373	50	0.1	4,328	8.8	12,259	24.8	14,319	29.0	11,396	23.1	5,795	11.7	1,114	2.3	102	0.2	10		
2008	49,117	38	0.1	4,474	9.1	11,986	24.4	14,274	29.1	11,471	23.4	5,693	11.6	1,101	2.2	75	0.2	5		
2009	47,188	39	0.1	4,074	8.6	10,877	23.1	13,831	29.3	11,551	24.5	5,572	11.8	1,165	2.5	76	0.2	3		
2010	45,596	27	0.1	3,511	7.7	10,325	22.6	13,381	29.3	11,480	25.2	5,580	12.2	1,202	2.6	90	0.2	0		
2011	45,136	20	0.0	3,135	6.9	9,874	21.9	13,232	29.3	11,874	26.3	5,683	12.6	1,242	2.8	75	0.2	1		

* NS Indicates age not stated; the percentage is negligible.

TABLE 2-2. Age Specific Birth Rates, Fertility Rates and Total Fertility Rates, Oregon, 1940, 1950, 1960, 1970, 1975-2011

Year	Age-Specific Birth Rates*						Fertility 15-44	Total Fertility Rate
	15-19	20-24	25-29	30-34	35-39	40-44		
1940	46.2	132.8	114.1	68.0	31.7	9.0	69.4	2,009.0
1950	92.9	223.0	169.5	100.9	46.7	12.6	108.8	3,228.3
1960	88.2	283.8	189.3	96.3	46.3	13.7	112.5	3,587.8
1970	58.9	167.5	139.4	58.3	21.7	5.4	81.5	2,255.6
1975	47.2	112.4	111.6	47.0	14.4	2.8	64.5	1,677.0
1976	48.6	114.0	118.5	52.5	15.2	3.1	67.4	1,759.3
1977	47.4	116.3	114.9	55.0	15.8	2.9	67.7	1,760.8
1978	49.3	115.1	111.3	56.8	16.1	2.8	67.3	1,757.5
1979	48.8	117.1	114.7	61.0	16.9	3.0	69.0	1,808.0
1980	50.9	124.3	112.9	57.8	17.2	2.8	69.3	1,829.5
1981	51.5	121.3	112.8	59.3	16.6	3.0	68.1	1,822.5
1982	45.7	119.1	109.1	60.3	18.6	3.3	65.2	1,780.6
1983	42.8	114.0	110.8	64.7	19.7	3.3	64.1	1,776.6
1984	42.5	108.0	111.0	66.4	21.2	3.1	62.8	1,761.6
1985	42.8	111.2	110.8	65.6	21.2	3.4	62.2	1,775.2
1986	42.3	105.5	112.7	69.5	22.9	3.9	61.8	1,784.0
1987	46.4	109.1	109.1	66.3	24.4	4.0	60.9	1,796.5
1988	46.7	111.1	111.5	69.5	25.7	4.8	61.8	1,846.5
1989	49.8	108.6	113.9	74.9	27.8	5.0	63.3	1,900.0
1990	54.5	117.5	118.2	75.5	28.8	5.3	65.1	1,999.0
1991	55.2	117.5	119.6	73.6	29.9	5.4	63.7	2,003.0
1992	53.7	113.5	118.2	68.3	28.9	7.5	62.5	1,950.5
1993	51.3	109.5	114.0	75.0	30.0	6.3	61.1	1,930.5
1994	51.3	105.0	115.4	78.5	30.2	6.0	61.0	1,932.0
1995	52.2	109.1	121.6	79.9	31.2	6.4	62.3	2,001.0
1996	52.4	110.7	121.7	82.2	32.5	6.3	63.2	2,029.0
1997	47.8	108.1	123.8	83.0	33.9	6.9	63.0	2,017.2
1998	48.3	119.0	124.6	81.4	34.6	6.8	64.2	2,074.3
1999	46.6	116.3	122.3	84.4	35.2	7.4	64.2	2,061.0
2000	42.6	108.8	111.9	86.3	36.7	7.3	62.9	1,968.0
2001	39.9	107.5	108.5	86.7	35.8	7.3	61.6	1,928.5
2002	36.2	104.3	109.3	87.7	36.0	7.4	60.9	1,904.5
2003	33.4	102.4	111.5	91.1	36.9	7.5	61.2	1,913.7
2004	31.9	99.8	109.3	88.7	37.5	7.7	60.0	1,874.5
2005	32.9	93.8	112.1	86.9	43.7	8.1	62.2	1,887.6
2006	34.9	95.8	118.0	92.1	46.1	8.4	65.5	1,976.5
2007	35.1	94.4	116.6	92.9	48.7	8.7	66.0	1,982.0
2008	35.8	94.6	111.7	91.3	45.4	8.6	64.6	1,936.6
2009	32.5	86.1	106.8	91.4	44.3	9.3	62.0	1,851.9
2010	28.0	82.2	102.2	90.6	44.3	9.7	60.0	1,785.2
2011	25.3	79.1	100.1	91.7	45.2	10.0	59.3	1,757.6

* All rates are per 1,000 female population within the specific age group.
Births to mothers under 15 or over 44 are not included in Total Fertility Rate.
See Technical Notes section for the definition of Total Fertility Rate.

TABLE 2-3. Percent of Oregon Resident Births to Unmarried Mothers, by Age of Mother, 1970, 1975, 1980-2011

Year	Age Group of Mother					
	15-19	20-24	25-29	30-34	35-39	40-44
1970	25.7	6.3	2.6	2.7	3.7	4.6
1975	30.3	8.8	4.0	3.8	5.7	6.0
1980	43.4	15.3	7.5	5.6	8.0	4.3
1981	43.4	16.1	7.8	5.7	6.0	8.7
1982	47.3	17.9	8.5	6.6	6.7	9.5
1983	50.0	18.7	9.1	6.8	7.8	7.4
1984	52.7	20.9	10.1	6.8	8.0	13.7
1985	56.6	23.0	11.1	8.0	8.5	10.3
1986	59.5	25.8	13.0	8.3	9.2	9.2
1987	61.3	28.7	14.1	9.7	10.3	10.8
1988	63.0	30.3	15.5	10.3	11.2	11.9
1989	65.6	32.6	16.4	11.6	11.3	13.7
1990	67.2	33.0	16.6	12.2	11.2	11.6
1991	68.7	34.6	17.3	12.2	10.9	15.0
1992	70.1	34.8	17.2	12.2	11.7	13.0
1993	72.6	36.7	18.3	13.0	11.4	14.4
1994	74.0	37.5	18.2	13.0	12.3	14.0
1995	73.9	38.6	17.5	13.4	12.8	12.4
1996	74.1	39.1	18.6	13.3	14.1	14.8
1997	73.7	38.4	18.3	12.9	14.1	14.1
1998	75.6	39.5	19.5	12.9	13.1	15.9
1999	76.2	40.7	20.3	13.3	14.0	15.5
2000	76.2	42.6	20.2	13.0	13.0	13.5
2001	76.3	43.6	20.9	13.0	13.1	16.5
2002	77.3	46.1	21.6	13.6	14.4	15.0
2003	79.9	47.9	24.0	13.9	14.5	16.5
2004	80.3	49.0	24.8	15.3	14.9	16.9
2005	78.6	51.0	26.1	15.9	15.3	17.5
2006	80.5	52.2	27.4	17.0	15.2	19.2
2007	81.0	53.6	28.3	17.1	16.4	19.5
2008	83.4	54.4	29.3	18.0	16.2	20.8
2009	83.8	55.2	28.7	18.0	16.0	17.4
2010	84.2	56.8	29.7	18.8	17.6	19.8
2011	85.9	57.8	29.9	19.4	18.4	22.6

TABLE 2-4. Age of Mother by Live Birth Order, Oregon Resident Births, 2011

Live Birth Order	Total Births	Age of Mother								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	45,136	20	3,135	9,874	13,232	11,874	5,683	1,242	75	1
First	18,001	20	2,632	5,124	5,021	3,558	1,367	259	20	–
Second	14,592	–	452	3,359	4,383	4,099	1,897	381	20	1
Third	7,279	–	47	1,087	2,475	2,277	1,128	253	12	–
Fourth	3,224	–	3	258	953	1,207	661	137	5	–
Fifth	1,161	–	1	43	293	440	307	73	4	–
Sixth	462	–	–	2	76	167	161	52	4	–
Seventh	219	–	–	1	18	71	90	37	2	–
Eighth	96	–	–	–	5	31	36	22	2	–
Ninth+	102	–	–	–	8	24	36	28	6	–

– Quantity is zero.
N.S. = Not Stated.

Table 2-5. Total Pregnancies¹ by Type of Outcome and Age Group, Oregon Residents, 2011

Type of Outcome	Total	Age Group								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	54,889	43	4,455	12,966	15,598	13,468	6,583	1,613	97	66
Live Births	45,136	20	3,135	9,874	13,232	11,874	5,683	1,242	75	1
Percent	82.2	46.5	70.4	76.2	84.8	88.2	86.3	77.0	77.3	1.5
Fetal Deaths	186	–	20	45	39	46	26	10	–	–
Percent	0.3	–	0.4	0.3	0.3	0.3	0.4	0.6	–	–
Induced Abortions ..	9,567	23	1,300	3,047	2,327	1,548	874	361	22	65
Percent	17.4	53.5	29.2	23.5	14.9	11.5	13.3	22.4	22.7	98.5

– Quantity is zero.
N.S. = Not Stated.

¹ Induced abortion data are available by Oregon occurrence only. Estimate assumes the number of Oregon residents who travel outside the state to obtain an abortion equals the number of out-of-state residents who obtain an abortion in Oregon.

Percents may not add to 100 due to rounding.
WARNING: Rates based on less than 5 events are unreliable.

TABLE 2-6. Pregnancies¹ by Age and County of Residence, Oregon Residents, 2011

County of Residence	All Ages	Age Groups							
		10-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	54,042	4,391	12,727	15,412	13,297	6,480	1,576	98	61
Baker	174	17	63	51	32	9	2	—	—
Benton	906	52	193	271	244	118	24	2	2
Clackamas	4,556	286	945	1,358	1,186	604	165	6	6
Clatsop	494	34	129	176	101	38	16	—	—
Columbia	573	43	158	163	136	60	13	—	—
Coos	667	77	232	174	133	42	8	1	—
Crook	191	24	46	63	30	22	6	—	—
Curry	203	16	68	55	41	20	2	—	1
Deschutes	2,038	157	498	559	499	255	55	3	12
Douglas	1,247	146	417	339	237	86	17	4	1
Gilliam	16	*	*	*	*	*	*	*	*
Grant	73	*	*	*	*	*	*	*	*
Harney	73	*	*	*	*	*	*	*	*
Hood River	316	24	74	73	82	46	15	2	—
Jackson	2,813	266	793	813	611	257	63	5	5
Jefferson	351	41	114	106	56	26	7	—	1
Josephine	927	109	286	265	177	78	10	1	1
Klamath	938	122	310	259	169	61	16	—	1
Lake	80	5	22	31	10	7	4	1	—
Lane	4,310	337	1,098	1,272	1,059	434	103	4	3
Lincoln	493	53	140	166	87	37	10	—	—
Linn	1,641	143	470	526	337	135	27	1	2
Malheur	477	78	130	133	96	31	7	1	1
Marion	5,057	539	1,347	1,418	1,110	503	130	7	3
Morrow	185	26	45	53	45	16	—	—	—
Multnomah	12,406	828	2,440	3,259	3,365	1,969	499	29	17
Polk	940	85	234	296	210	93	21	1	—
Sherman	24	*	*	*	*	*	*	*	*
Tillamook	279	30	70	84	65	24	5	1	—
Umatilla	1,216	180	368	335	197	113	22	1	—
Union	352	37	101	112	71	27	4	—	—
Wallowa	59	*	*	*	*	*	*	*	*
Wasco	321	36	84	96	62	39	4	—	—
Washington	8,294	464	1,484	2,427	2,449	1,162	277	27	4
Wheeler	9	*	*	*	*	*	*	*	*
Yamhill	1,312	111	299	389	331	143	37	1	1
Unknown	31	3	7	11	5	3	2	—	—

— Quantity is zero.

N.S. = Not Stated.

¹ Pregnancies include live births and induced abortions reported for Oregon residents.

* Detailed reporting of small numbers may breach confidentiality.

TABLE 2-7. Resident Births by Race of Mother, Oregon, 1975-2011

Year	Total	White	African American	American Indian	Chinese	Japanese	Other & Unknown	Hispanic
1975	33,352	31,910	614	389	81	80	278	*
1980	43,091	40,787	792	475	140	96	801	*
1985	39,419	35,877	784	519	141	129	745	1,224
1990	42,830	39,808	917	745	230	162	968	2,969
1995	42,715	39,566	872	628	222	110	1,317	4,996
2000	45,786	41,584	1,015	727	273	142	2,045	7,397
2001	45,318	41,135	928	788	205	152	2,110	7,903
2002	45,190	40,895	934	805	237	135	2,184	8,051
2003	45,935	41,221	1,009	860	229	123	2,493	8,433
2004	45,660	40,943	1,044	861	214	119	2,479	8,850
2005	45,905	41,180	995	846	214	120	2,550	9,168
2006	48,684	43,514	1,136	918	239	138	2,739	9,944
2007	49,373	44,082	1,177	953	245	108	2,808	10,129
2008	49,117	40,744	1,080	800	373	159	5,961	10,366
2009	47,188	39,222	1,006	720	368	147	5,725	9,697
2010	45,596	37,528	994	664	381	151	5,878	9,237
2011	45,136	37,585	990	649	381	152	5,379	8,718
Multiple Mention Race/Ethnicity of Mother								
Year	Total	White	African American	American Indian	Asian	Native Hawaiian/ Pacific Islander	Other & Unknown	Hispanic
2008	49,117	41,928	1,359	1,497	2,575	472	2,918	10,366
2009	47,188	40,441	1,294	1,414	2,589	449	2,413	9,697
2010	45,596	38,946	1,324	1,511	2,574	507	2,637	9,237
2011	45,136	39,004	1,339	1,443	2,600	461	2,137	8,718

* Data not available.

NOTE: Before 1981, neither Hispanic race nor ethnicity were recorded. Between 1981 and 1988, Hispanic was recorded as a race category. Since 1989, Hispanic ethnicity has been recorded separately from race.

In 2008 the method for collecting race/ethnicity data changed dramatically, see Appendix B for more details.

TABLE 2-8. Ethnicity, Race and County of Residence of Mother, Oregon Resident Births, 2011

County of Residence	Total Births	Non-Hispanic Single Mention Race							Hispanic ⁴
		White	Black	AI/AN ¹	Asian	NH/PI ²	Other/NS ³	Multiple Races	
Total	45,136	30,888	934	532	2,103	271	95	1,378	8,718
Baker	164	138	—	3	—	—	1	7	15
Benton	760	575	3	2	45	1	—	24	103
Clackamas	3,824	2,938	37	17	190	6	9	90	518
Clatsop	430	349	2	1	6	3	2	11	56
Columbia	482	423	1	6	5	—	2	11	32
Coos	577	480	2	16	8	—	—	19	50
Crook	176	148	—	3	4	—	—	3	18
Curry	185	161	—	2	1	—	—	8	13
Deschutes	1,696	1,398	5	8	17	1	1	49	212
Douglas	1,086	955	4	16	11	1	—	28	69
Gilliam	15	12	—	—	—	1	—	—	2
Grant	67	63	—	—	1	—	—	—	3
Harney	65	57	—	5	—	1	—	—	2
Hood River	277	126	—	2	3	1	—	5	137
Jackson	2,355	1,769	9	28	28	8	6	77	420
Jefferson	314	119	—	91	—	1	—	9	90
Josephine	760	639	3	12	5	1	1	34	65
Klamath	825	576	5	52	5	2	2	38	144
Lake	68	57	—	3	—	—	—	2	6
Lane	3,469	2,670	21	35	89	5	14	168	427
Lincoln	417	287	3	13	5	2	1	29	76
Linn	1,478	1,216	3	8	12	2	1	41	178
Malheur	441	206	4	2	2	—	1	3	223
Marion	4,374	2,498	33	42	82	59	5	65	1,584
Morrow	172	88	—	1	—	—	1	2	79
Multnomah	9,498	5,999	657	42	711	113	15	381	1,528
Polk	858	618	2	21	16	7	—	21	173
Sherman	20	17	—	—	—	—	—	—	3
Tillamook	241	177	—	6	2	—	—	7	48
Umatilla	1,056	599	2	33	12	1	1	16	391
Union	318	267	1	5	2	9	1	9	17
Wallowa	54	48	—	1	1	—	—	—	4
Wasco	284	188	—	8	2	6	—	6	71
Washington ...	7,173	4,197	131	33	819	39	27	193	1,703
Wheeler	9	8	—	—	—	—	—	—	1
Yamhill	1,147	821	6	15	19	1	4	22	257
Unknown	1	1	—	—	—	—	—	—	—

— Quantity is zero.
See footnotes at end of table.

TABLE 2-8. Ethnicity, Race and County of Residence of Mother, Oregon Resident Births, 2011 (Continued)

County of Residence	Total Births	Multiple Mention Race and Ethnicity							
		White	Black	AI/ AN ¹	Asian	NH/ PI ²	Other	NS ³	Hispanic ⁴
Total	45,136	39,004	1,339	1,443	2,600	461	1,691	446	8,718
Baker	164	152	1	9	1	—	9	—	15
Benton	760	692	7	11	60	8	12	2	103
Clackamas	3,824	3,450	58	61	229	25	63	50	518
Clatsop	430	385	5	10	11	3	33	—	56
Columbia	482	463	3	20	7	1	1	3	32
Coos	577	545	4	33	11	2	4	3	50
Crook	176	162	—	5	5	1	4	3	18
Curry	185	179	—	10	2	—	3	—	13
Deschutes	1,696	1,603	8	38	34	11	50	11	212
Douglas	1,086	1,032	7	36	21	4	24	4	69
Gilliam	15	14	—	—	—	1	—	—	2
Grant	67	65	—	1	1	—	—	—	3
Harney	65	58	—	5	—	1	1	1	2
Hood River	277	269	—	5	5	1	—	2	137
Jackson	2,355	2,077	26	99	49	16	124	85	420
Jefferson	314	162	1	113	2	3	29	17	90
Josephine	760	707	5	49	11	5	21	6	65
Klamath	825	656	15	87	13	5	98	2	144
Lake	68	65	—	4	1	—	—	—	6
Lane	3,469	3,040	59	182	130	19	208	75	427
Lincoln	417	364	7	37	8	5	30	4	76
Linn	1,478	1,409	15	38	25	7	21	15	178
Malheur	441	426	4	5	4	—	5	1	223
Marion	4,374	3,651	53	89	110	67	494	18	1,584
Morrow	172	146	1	1	—	1	23	3	79
Multnomah	9,498	7,640	845	237	849	160	175	75	1,528
Polk	858	729	6	36	23	10	84	—	173
Sherman	20	20	—	—	—	—	—	—	3
Tillamook	241	232	1	9	5	—	1	—	48
Umatilla	1,056	891	10	41	18	5	105	9	391
Union	318	292	1	14	3	11	6	4	17
Wallowa	54	49	—	1	1	—	3	—	4
Wasco	284	264	1	12	2	8	—	3	71
Washington ...	7,173	6,016	186	111	934	78	50	45	1,703
Wheeler	9	9	—	—	—	—	—	—	1
Yamhill	1,147	1,089	10	34	25	3	10	5	257
Unknown	1	1	—	—	—	—	—	—	—

— Quantity is zero.

¹ Includes American Indian & Alaskan Native.

² Includes Native Hawaiian & Pacific Islander.

³ NS indicates race not stated.

⁴ Includes any race.

**TABLE 2-9. Births to Unmarried Mothers,
Oregon Residents, 2011**

County of Residence	Total Births	Number Unmarried	Percent Unmarried ¹
Total	45,136	15,971	35.5
Baker	164	66	40.2
Benton	760	185	§ 24.3
Clackamas	3,824	1,054	§ 27.6
Clatsop	430	156	36.3
Columbia	482	163	33.9
Coos	577	263	§ 45.6
Crook	176	61	34.7
Curry	185	58	46.4
Deschutes	1,696	546	§ 32.2
Douglas	1,086	501	§ 46.2
Gilliam	15	6	40.0
Grant	67	23	34.3
Harney	65	22	33.8
Hood River	277	93	33.6
Jackson	2,355	1,014	§ 43.1
Jefferson	314	162	§ 51.6
Josephine	760	351	§ 46.2
Klamath	825	374	§ 45.4
Lake	68	24	35.8
Lane	3,469	1,346	§ 38.8
Lincoln	417	209	§ 50.1
Linn	1,478	544	36.9
Malheur	441	207	§ 46.9
Marion	4,374	1,881	§ 43.0
Morrow	172	71	41.3
Multnomah	9,498	3,159	§ 33.3
Polk	858	304	35.4
Sherman	20	6	30.0
Tillamook	241	93	38.9
Umatilla	1,056	504	§ 47.8
Union	318	108	34.0
Wallowa	54	16	29.6
Wasco	284	114	40.1
Washington	7,173	1,921	§ 26.8
Wheeler	9	2	22.2
Yamhill	1,147	364	31.8
Unknown	1	—	—

— Quantity is zero.

¹ Percent of total live births where marital status is known.

§ Percent unmarried is significantly different from the state.

WARNING: Rates/Percentages based on less than 5 events are unreliable.

NOTE: Rates/Percentages are calculated excluding missing and unknown values.

TABLE 2-10. Age of Mother and County of Residence, Oregon Resident Births, 2011

County of Residence	Total Births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	45,136	20	3,135	9,874	13,232	11,874	5,683	1,242	75	1
Baker	164	–	15	56	51	32	8	2	–	–
Benton	760	–	29	141	238	224	106	20	2	–
Clackamas	3,824	–	193	716	1,199	1,067	520	124	5	–
Clatsop	430	1	25	112	153	90	37	12	–	–
Columbia	482	–	30	128	144	120	51	9	–	–
Coos	577	1	54	205	149	124	39	5	–	–
Crook	176	–	20	42	58	28	22	6	–	–
Curry	185	–	13	63	50	38	19	2	–	–
Deschutes	1,696	–	98	392	494	443	228	39	2	–
Douglas	1,086	–	109	365	299	221	75	14	3	–
Gilliam	15	–	1	6	3	2	3	–	–	–
Grant	67	–	4	16	27	15	3	2	–	–
Harney	65	–	8	15	19	16	6	1	–	–
Hood River	277	–	24	58	61	78	42	12	2	–
Jackson	2,355	–	202	651	687	538	228	44	5	–
Jefferson	314	–	35	103	94	51	25	6	–	–
Josephine	760	–	76	240	229	150	55	9	1	–
Klamath	825	1	97	270	238	155	50	14	–	–
Lake	68	–	5	16	29	8	7	3	–	–
Lane	3,469	–	218	809	1,062	928	372	76	4	–
Lincoln	417	–	40	119	147	75	28	8	–	–
Linn	1,478	1	120	411	489	314	122	20	1	–
Malheur	441	1	74	116	125	92	26	6	1	–
Marion	4,374	4	413	1,108	1,277	1,015	451	101	5	–
Morrow	172	1	19	43	50	43	16	–	–	–
Multnomah	9,498	6	525	1,524	2,473	2,876	1,683	388	22	1
Polk	858	–	73	203	277	197	89	18	1	–
Sherman	20	–	1	5	5	8	–	1	–	–
Tillamook	241	–	21	62	76	59	19	3	1	–
Umatilla	1,056	1	139	322	302	173	100	19	–	–
Union	318	–	31	87	103	69	24	4	–	–
Wallowa	54	–	1	12	19	15	6	1	–	–
Wasco	284	–	28	71	87	59	35	4	–	–
Washington	7,173	2	319	1,137	2,158	2,245	1,054	238	20	–
Wheeler	9	–	2	1	2	1	3	–	–	–
Yamhill	1,147	1	73	249	358	304	131	31	–	–
Unknown	1	–	–	–	–	1	–	–	–	–

– Quantity is zero.
N.S. = Not Stated.

TABLE 2-11. Unmarried Mothers by Age of Mother and County of Residence, Oregon Resident Births, 2011

County of Residence	Total Births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	15,971	20	2,689	5,689	3,946	2,299	1,036	277	14	1
Baker	66	—	10	36	11	8	1	—	—	—
Benton	185	—	23	64	51	34	11	—	2	—
Clackamas	1,054	—	155	375	280	149	69	26	—	—
Clatsop	156	1	18	56	40	26	13	2	—	—
Columbia	163	—	24	74	38	17	7	3	—	—
Coos	263	1	47	114	55	34	11	1	—	—
Crook	61	—	16	23	15	2	3	2	—	—
Curry	58	—	7	23	14	10	3	1	—	—
Deschutes	546	—	87	220	129	60	39	11	—	—
Douglas	501	—	94	214	102	66	20	5	—	—
Gilliam	6	—	1	4	—	—	1	—	—	—
Grant	23	—	3	8	6	5	1	—	—	—
Harney	22	—	7	9	4	2	—	—	—	—
Hood River	93	—	18	31	20	13	7	4	—	—
Jackson	1,014	—	181	381	236	145	56	14	1	—
Jefferson	162	—	26	72	41	15	6	2	—	—
Josephine	351	—	68	146	87	35	13	2	—	—
Klamath	374	1	79	160	77	40	10	7	—	—
Lake	24	—	3	5	13	2	1	—	—	—
Lane	1,346	—	198	481	330	221	89	26	1	—
Lincoln	209	—	38	74	57	26	10	4	—	—
Linn	544	1	103	203	137	62	29	9	—	—
Malheur	207	1	59	69	43	24	8	3	—	—
Marion	1,881	4	358	681	439	251	117	30	1	—
Morrow	71	1	15	27	17	7	4	—	—	—
Multnomah	3,159	6	453	919	869	550	284	69	8	1
Polk	304	—	65	108	71	45	9	6	—	—
Sherman	6	—	1	3	1	1	—	—	—	—
Tillamook	93	—	17	34	28	12	2	—	—	—
Umatilla	504	1	117	207	99	44	30	6	—	—
Union	108	—	26	44	24	10	4	—	—	—
Wallowa	16	—	1	4	7	4	—	—	—	—
Wasco	114	—	21	39	30	17	5	2	—	—
Washington	1,921	2	286	655	478	308	152	39	1	—
Wheeler	2	—	1	—	—	—	1	—	—	—
Yamhill	364	1	63	126	97	54	20	3	—	—
Unknown	—	—	—	—	—	—	—	—	—	—

— Quantity is zero.
N.S. = Not Stated.

TABLE 2-12. Region and Selected Country of Mother's Birth by Continent of Father's Birth, Oregon Residents, 2011

Region & Selected Country of Mother's Birth	Total	Continent of Father's Birth					
		North & Central America	South America	Europe	Asia	Africa	Other & Unknown
Total	45,136	37,357	111	1,046	1,656	361	4,605
Carribean	45	37	1	1	1	—	5
Central America	5,181	4,692	5	7	6	2	469
El Salvador	95	82	—	1	—	—	12
Guatemala	175	165	—	—	—	—	10
Mexico	4,854	4,398	3	5	6	1	441
East Africa	222	16	—	—	—	187	19
Ethiopia	80	4	—	—	—	66	10
Somalia	109	—	—	—	—	100	9
East Asia	617	277	—	7	309	—	24
China	234	46	—	3	172	—	13
Japan	133	102	—	—	27	—	4
South Korea	169	93	—	1	72	—	3
Taiwan	65	26	—	3	33	—	3
East Europe	732	153	1	508	37	2	31
Moldavia	48	2	—	39	7	—	—
Romania	96	34	—	56	2	1	3
Russia	182	48	—	113	11	1	9
Ukraine	333	32	1	269	15	—	16
Eurasia	71	11	—	29	30	—	1
Oceania	210	53	—	4	3	2	148
Australia & New Zealand	48	36	—	3	2	—	7
Micronesia	147	14	—	1	—	—	132
Middle East	191	42	—	11	122	8	8
Saudi Arabia	46	2	—	—	43	—	1
North America	35,959	31,321	73	386	336	76	3,767
Canada	186	170	1	7	2	—	6
United States	35,773	31,151	72	379	334	76	3,761
North Africa	47	5	—	—	2	39	1
North Europe	143	101	—	27	3	2	10
United Kingdom	96	72	—	17	2	—	5
South America	146	99	29	4	5	1	8
Brazil	48	36	5	2	1	1	3
Southeast Asia	751	273	1	13	424	—	40
Laos	49	18	—	2	25	—	4
Philippines	223	149	—	4	59	—	11
Thailand	75	36	—	—	35	—	4
Vietnam	305	44	1	2	242	—	16
South Asia	409	38	—	3	363	3	2
India	349	31	—	3	312	2	1
South Europe	52	25	—	18	2	2	5
West Europe	187	148	1	21	5	—	12
Germany	148	120	—	13	3	—	12
Other & Unknown Countries	173	66	—	7	8	37	55

— Quantity is zero.

TABLE 2-13. Race, Ethnicity, and Place of Birth of Mother by Selected Demographic Characteristics (Percent), Oregon Resident Births, 2011

Characteristic of Mother	Total	Single Mention Race						Hispanic ²	
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ NS ¹		Multiple Races
Total	45,136	30,888	934	532	2,103	271	95	1,378	8,718
Ratio of Males to Females ³	1,058	1,066	1,066	935	1,076	1,069	939	1,072	1,026
All Births									
All Births	45,136	30,888	934	532	2,103	271	95	1,378	8,718
Age 10-19	7.0	5.6	9.1	13.7	1.3	5.9	1.1	10.2	12.2
4 or more Live Births	11.7	9.5	19.5	17.7	5.2	21.8	17.9	9.9	19.4
Unmarried Mothers	35.5	31.0	58.7	66.8	13.8	47.6	24.5	49.5	49.6
Less than 12 Years Education	17.0	9.0	22.7	26.0	7.8	23.3	14.1	13.7	46.9
Mothers Born in the United States									
Total Born in the U.S.	35,773	29,128	633	529	409	96	60	1,293	3,447
Age 10-19	7.6	5.8	12.5	13.6	4.4	7.3	-	10.8	21.1
4 or more Live Births	9.7	9.2	14.5	17.6	5.9	16.7	15.0	9.7	11.7
Unmarried Mothers	36.5	32.2	75.2	67.0	28.7	43.8	20.3	51.6	56.5
Less than 12 Years Education	11.2	9.0	17.2	26.0	5.1	14.6	6.8	13.9	26.6
Mothers Born Outside the United States									
Total Born Outside of the U.S.	9,363	1,760	301	3	1,694	175	35	85	5,271
Age 10-19	4.5	3.0	2.0	33.3	0.6	5.1	2.9	-	6.4
4 or more Live Births	19.1	14.6	29.9	33.3	5.1	24.6	22.9	11.8	24.5
Unmarried Mothers	31.4	11.1	23.9	33.3	10.2	49.7	31.4	17.6	45.1
Less than 12 Years Education	39.0	8.7	34.2	33.3	8.5	28.2	27.3	9.5	60.2

- Quantity is zero.

TABLE 2-13. Race, Ethnicity, and Place of Birth of Mother by Selected Demographic Characteristics (Percent), Oregon Resident Births, 2011 (Continued)

Characteristic of Mother	Total	Multiple Mention Race and Ethnicity								
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic ²	
Total	45,136	39,004	1,339	1,443	2,600	461	1,691	446	8,718	
Ratio of Males to Females ³	1,058	1,054	1,086	1,007	1,065	1,077	1,013	1,372	1,026	
All Births										
All Births	45,136	39,004	1,339	1,443	2,600	461	1,691	446	8,718	
Age 10-19	7.0	6.9	11.8	11.3	2.3	6.7	11.8	8.5	12.2	
4 or more Live Births	11.7	11.2	17.0	14.8	5.5	16.7	19.6	16.8	19.4	
Unmarried Mothers	35.5	34.8	61.9	59.8	17.5	48.6	47.8	38.2	49.6	
Less than 12 Years Education	17.0	15.6	22.4	21.1	8.1	19.8	47.9	41.0	46.9	
Mothers Born in the United States										
Total Born in the U.S.	35,773	33,150	1,012	1,408	813	254	601	232	3,447	
Age 10-19	7.6	7.2	14.8	11.4	6.2	8.3	23.0	10.3	21.1	
4 or more Live Births	9.7	9.4	13.1	14.5	6.0	10.6	10.1	13.8	11.7	
Unmarried Mothers	36.5	34.9	74.0	60.6	32.6	49.6	55.1	33.5	56.5	
Less than 12 Years Education	11.2	10.6	18.8	20.4	7.4	13.4	27.9	20.6	26.6	
Mothers Born Outside the United States										
Total Born Outside of the U.S.	9,363	5,854	327	35	1,787	207	1,090	214	5,271	
Age 10-19	4.5	5.4	2.4	5.7	0.6	4.8	5.7	6.5	6.4	
4 or more Live Births	19.1	21.4	29.1	25.7	5.2	24.2	24.8	20.1	24.5	
Unmarried Mothers	31.4	34.7	24.5	31.4	10.7	47.3	43.7	43.2	45.1	
Less than 12 Years Education	39.0	44.3	33.3	45.7	8.4	27.7	59.0	58.7	60.2	

⁻ Quantity is zero.

¹ NS indicates Not Stated.

² Hispanic ethnicity may include any race.

³ Ratio of male live births per 1,000 female live births.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-14. Maternal Characteristics by Principal Method of Payment for Delivery, Oregon Resident Births, 2011

Characteristics	Total	Private Insurance	Self-Pay	Medicaid- /OHP*	Other	Unknown
Mother's Age and Marital Status						
Total	45,136	22,787	992	20,426	662	269
Married	29,067	19,174	684	8,549	510	150
Unmarried	15,971	3,565	304	11,861	124	117
Less Than 18	872	204	12	639	11	6
Married	45	5	1	38	-	1
Unmarried	825	197	11	601	11	5
18-24	12,157	3,205	194	8,461	237	60
Married	4,546	1,743	92	2,533	164	14
Unmarried	7,573	1,449	101	5,922	55	46
25-34	25,106	14,641	601	9,358	342	164
Married	18,818	13,153	446	4,825	282	112
Unmarried	6,245	1,465	154	4,523	51	52
35+	7,000	4,736	185	1,968	72	39
Married	5,658	4,273	145	1,153	64	23
Unmarried	1,327	453	38	815	7	14
First Trimester Care						
Total	33,550	19,345	538	13,059	433	175
Married	23,230	16,623	405	5,750	338	114
Unmarried	10,248	2,681	130	7,300	76	61
Percent	75.1	85.7	54.8	64.5	65.9	70.0
Married	80.7	87.5	59.6	67.9	66.8	82.0
Unmarried	64.7	75.9	43.6	62.0	61.8	55.5
Inadequate Prenatal Care						
Total	2,379	547	145	1,578	80	29
Married	1,017	362	59	527	61	8
Unmarried	1,357	183	86	1,050	18	20
Percent	5.4	2.5	14.9	7.9	12.4	12.0
Married	3.6	1.9	8.8	6.3	12.2	6.0
Unmarried	8.7	5.3	29.3	9.1	15.1	18.7
Tobacco Use						
Percent	10.7	3.7	7.5	18.6	10.5	12.6
Alcohol Use						
Percent	0.9	0.9	1.3	0.8	0.7	2.5
Low Birthweight						
Percent	6.1	5.9	4.0	6.5	5.1	9.4

- Quantity is zero.

* OHP = Oregon Health Plan.

NOTE: The sum of the subsets may not equal the total because of unknown marital status and/or mother's age, which are not presented in this table. Rates and percentages are calculated excluding missing and unknown values.

**TABLE 2-15. Reported Use of Tobacco,
by Mother's Age and County of Residence, Oregon Births, 2011**

County of Residence	Total Births	Tobacco Use								
		Number	%	Tobacco Use by Age of Mother						N.S.
				<20	20-24	25-29	30-34	35-39	40+	
Total	45,136	4,795	10.7	556	1,737	1,388	766	283	65	—
Baker	164	31	18.9	3	18	6	4	—	—	—
Benton	760	68	9.0	10	18	24	11	5	—	—
Clackamas	3,824	277	7.3	27	95	96	33	20	6	—
Clatsop	430	70	16.5	7	24	21	13	5	—	—
Columbia	482	73	15.2	7	31	17	11	6	1	—
Coos	577	135	23.4	11	65	39	13	6	1	—
Crook	176	32	18.3	4	13	11	2	1	1	—
Curry	185	39	21.1	5	13	11	6	4	—	—
Deschutes	1,696	180	10.6	23	61	51	29	11	5	—
Douglas	1,086	272	25.1	38	117	61	42	10	4	—
Gilliam	15	2	13.3	—	1	—	1	—	—	—
Grant	67	13	20.0	1	5	4	1	1	1	—
Harney	65	12	18.5	3	5	2	1	1	—	—
Hood River	277	16	5.8	—	10	2	2	1	1	—
Jackson	2,355	342	14.6	44	133	94	49	20	2	—
Jefferson	314	26	8.3	3	11	6	3	2	1	—
Josephine	760	191	25.2	34	77	48	20	12	—	—
Klamath	825	161	19.6	25	62	42	21	9	2	—
Lake	68	18	26.5	1	7	8	2	—	—	—
Lane	3,469	514	15.0	54	172	150	103	27	8	—
Lincoln	417	93	22.4	8	37	28	14	4	2	—
Linn	1,478	249	16.9	37	84	75	33	16	4	—
Malheur	441	40	9.1	5	20	12	2	1	—	—
Marion	4,374	459	10.5	50	176	114	80	33	6	—
Morrow	172	19	11.1	1	6	9	1	2	—	—
Multnomah	9,498	643	6.8	62	193	196	129	50	13	—
Polk	858	115	13.4	15	54	27	14	4	1	—
Sherman	20	4	20.0	—	—	1	3	—	—	—
Tillamook	241	38	15.8	3	7	15	12	—	1	—
Umatilla	1,056	141	13.5	25	53	40	15	6	2	—
Union	318	49	15.4	7	15	19	5	3	—	—
Wallowa	54	10	18.5	1	3	2	4	—	—	—
Wasco	284	38	13.5	5	19	9	5	—	—	—
Washington	7,173	315	4.5	26	96	112	63	16	2	—
Wheeler	9	*	*	*	*	*	*	*	*	*
Yamhill	1,147	109	9.5	10	36	36	19	7	1	—
Unknown	1	—	—	—	—	—	—	—	—	—

— Quantity is zero.

* Detailed reporting of small numbers may breach confidentiality.

N.S. = Not Stated.

WARNING: Rates and percentages based on less than 5 events are unreliable.

NOTE: Percentages for tobacco use exclude missing and unknown values in the calculation.

TABLE 2-16. Maternal Risk Factors by County of Residence, Oregon, 2011

County of Residence	Live Births	Inadequate Care ¹	Minority Race/Ethnicity ²	Age < 18	Age >=35	4+ Live Births	<12 Years Educ.	Unmarried	Tobacco Use
Total	45,136	5.4	31.4	1.9	15.5	11.7	17.0	35.5	10.7
Baker	164	3.1	15.9	0.6	6.1	17.7	12.2	40.2	18.9
Benton	760	3.9	24.0	1.1	16.8	10.3	10.7	24.3	9.0
Clackamas	3,824	5.8	23.1	1.1	17.0	10.2	12.4	27.6	7.3
Clatsop	430	5.4	18.8	1.9	11.4	15.6	17.2	36.3	16.5
Columbia	482	2.8	12.3	0.6	12.4	8.7	10.0	33.9	15.2
Coos	577	7.7	16.9	2.8	7.6	10.4	19.1	45.6	23.4
Crook	176	3.4	15.9	2.8	15.9	13.1	17.6	34.7	18.3
Curry	185	5.6	13.0	1.1	11.4	10.8	14.1	46.4	21.1
Deschutes	1,696	2.6	17.5	1.2	15.9	8.1	10.6	32.2	10.6
Douglas	1,086	4.9	12.1	2.7	8.5	11.8	15.6	46.2	25.1
Gilliam	15	13.3	20.0	–	20.0	26.7	6.7	40.0	13.3
Grant	67	7.7	6.0	3.0	7.5	11.9	11.9	34.3	20.0
Harney	65	3.3	12.3	3.1	10.8	15.4	15.4	33.8	18.5
Hood River	277	2.3	54.5	3.2	20.2	11.2	31.3	33.6	5.8
Jackson	2,355	5.4	24.9	2.3	11.8	11.0	20.2	43.1	14.6
Jefferson	314	7.7	61.8	3.8	9.9	19.4	30.4	51.6	8.3
Josephine	760	7.0	15.9	1.3	8.6	9.3	15.8	46.2	25.2
Klamath	825	5.3	30.2	1.8	7.8	12.1	21.0	45.4	19.6
Lake	68	11.8	16.2	–	14.7	13.2	25.0	35.8	26.5
Lane	3,469	5.2	22.5	1.8	13.0	8.8	12.1	38.8	15.0
Lincoln	417	7.8	30.9	2.6	8.6	13.7	23.4	50.1	22.4
Linn	1,478	4.2	17.0	1.8	9.7	13.5	17.8	36.9	16.9
Malheur	441	11.8	53.3	4.8	7.5	20.0	34.5	46.9	9.1
Marion	4,374	5.2	42.9	2.9	12.7	17.3	24.8	43.0	10.5
Morrow	172	20.3	49.1	2.9	9.3	29.7	33.3	41.3	11.1
Multnomah	9,498	6.5	36.8	1.8	22.0	10.1	15.5	33.3	6.8
Polk	858	3.8	28.0	2.4	12.6	14.3	17.9	35.4	13.4
Sherman	20	–	15.0	5.0	5.0	10.0	15.0	30.0	20.0
Tillamook	241	7.2	26.6	2.1	9.5	12.4	18.5	38.9	15.8
Umatilla	1,056	10.8	43.3	3.6	11.3	16.9	27.1	47.8	13.5
Union	318	6.0	14.8	1.9	8.8	13.8	14.2	34.0	15.4
Wallowa	54	9.6	11.1	–	13.0	13.0	5.6	29.6	18.5
Wasco	284	3.2	34.2	3.9	13.7	13.4	29.9	40.1	13.5
Washington	7,173	3.9	41.3	1.5	18.3	10.4	15.1	26.8	4.5
Wheeler	9	*	11.1	–	33.3	33.3	11.1	22.2	*
Yamhill	1,147	2.6	28.5	1.9	14.1	12.6	19.1	31.8	9.5

– Quantity is zero.
¹ Less than 5 prenatal visits or care began in the third trimester.
² Includes nonwhite race and Hispanic ethnicity.
 * Detailed reporting of small numbers may breach confidentiality.

WARNING: Rates based on less than 5 events are unreliable.
 NOTE: Risk factors expressed as a percentage of mothers within each risk category. Rates and percentages are calculated excluding missing and unknown values.

**TABLE 2-17. Prenatal Care by Mother's Age,
Oregon Residents, 2011**

Mother's Age	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	45,136	33,550	75.1	2,379	5.4
Less than 15	20	7	35.0	7	35.0
15-19	3,135	1,901	61.1	300	9.8
20-24	9,874	6,603	67.5	734	7.6
25-29	13,232	10,051	76.8	658	5.1
30-34	11,874	9,464	80.4	401	3.5
35-39	5,683	4,519	80.4	223	4.1
40-44	1,242	947	76.7	54	4.5
45+	75	57	79.2	2	2.8
Unknown	1	1	100.0	–	–

– Quantity is zero.

¹ Less than 5 prenatal visits or care began in the third trimester.

WARNING: Rates and percentages based on less than 5 events are unreliable.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-18. Prenatal Care by Mother’s Race and Ethnicity, Oregon Residents, 2011

Mother’s Race/Ethnicity	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	45,136	33,550	75.1	2,379	5.4
Non-Hispanic Single Mention Race					
Total Non-Hispanic	36,201	27,608	77.0	1,793	5.1
White	30,888	23,898	78.1	1,390	4.6
African American	934	603	65.3	79	8.7
American Indian	532	332	63.0	65	12.4
Asian	2,103	1,648	79.3	91	4.5
Hawaiian/Pacific Islander	271	106	39.6	62	23.4
Other/Unknown	95	66	71.7	6	6.5
Multiple Races	1,378	955	69.9	100	7.4
Hispanic Single Mention Race					
Total Hispanic	8,718	5,779	66.9	573	6.7
White	6,610	4,374	66.9	407	6.3
African American	49	34	70.8	6	12.5
American Indian	114	67	59.3	10	8.9
Asian	28	19	67.9	4	14.3
Hawaiian/Pacific Islander	12	5	41.7	5	41.7
Other/Unknown	1,753	1,172	67.2	131	7.6
Multiple Races	152	108	71.5	10	6.7
Multiple Mention Race and Ethnicity					
White	39,004	29,337	75.9	1,897	5.0
African American	1,339	876	66.2	117	9.0
American Indian	1,443	957	66.9	131	9.2
Asian	2,600	2,011	78.2	125	5.0
Hawaiian/Pacific Islander	461	217	47.6	82	18.2
Other	1,691	1,135	67.4	128	7.7
Unknown	446	311	71.5	31	7.2
Hispanic	8,718	5,779	66.9	573	6.7

¹ Less than 5 prenatal visits or care began in the third trimester.

WARNING: Rates and percentages based on less than 5 events are unreliable.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

**TABLE 2-19. Prenatal Care by
Mother's Education, Oregon Residents, 2011**

Mother's Education	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	45,136	33,550	75.1	2,379	5.4
8th Grade or Less	2,002	1,211	61.4	176	9.1
9th to 12th Grade, No Diploma	5,630	3,399	61.0	559	10.2
High School Graduate or GED	10,474	7,195	69.3	713	7.0
Some College, No Degree	11,092	8,254	75.1	549	5.1
Associates Degree	3,171	2,517	80.0	121	3.9
Bachelors Degree	7,961	6,764	85.8	175	2.3
Masters Degree	3,572	3,160	89.2	54	1.6
Doctorate or Professional Degree ..	1,019	909	90.3	9	0.9
Unknown	215	141	67.8	23	11.3

¹ Less than 5 prenatal visits or care began in the third trimester.

WARNING: Rates and percentages based on less than 5 events are unreliable.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-20. Prenatal Care by Mother's County of Residence, Oregon Residents, 2011

County of Residence	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	45,136	33,550	75.1	2,379	5.4
Baker	164	128	78.0	5	3.1
Benton	760	583	77.3	29	3.9
Clackamas	3,824	2,891	76.4	213	5.8
Clatsop	430	312	72.7	23	5.4
Columbia	482	390	81.8	13	2.8
Coos	577	419	72.9	44	7.7
Crook	176	134	76.6	6	3.4
Curry	185	140	75.7	10	5.6
Deschutes	1,696	1,373	§ 81.2	44	2.6
Douglas	1,086	847	78.6	53	4.9
Gilliam	15	12	80.0	2	13.3
Grant	67	50	75.8	5	7.7
Harney	65	48	75.0	2	3.3
Hood River	277	219	80.5	6	2.3
Jackson	2,355	1,710	73.0	127	5.4
Jefferson	314	226	72.2	24	7.7
Josephine	760	578	76.2	53	7.0
Klamath	825	547	§ 66.3	44	5.3
Lake	68	41	60.3	8	11.8
Lane	3,469	2,687	77.7	177	5.2
Lincoln	417	300	72.6	32	7.8
Linn	1,478	1,101	79.4	56	4.2
Malheur	441	251	§ 56.9	52	§ 11.8
Marion	4,374	3,066	§ 70.5	224	5.2
Morrow	172	84	§ 48.8	35	§ 20.3
Multnomah	9,498	6,927	73.3	604	§ 6.5
Polk	858	642	75.7	32	3.8
Sherman	20	17	85.0	—	—
Tillamook	241	149	§ 62.3	17	7.2
Umatilla	1,056	673	§ 64.2	113	§ 10.8
Union	318	232	73.0	19	6.0
Wallowa	54	46	85.2	5	9.6
Wasco	284	232	81.7	9	3.2
Washington	7,173	5,580	§ 79.2	264	§ 3.9
Wheeler	9	*	*	*	*
Yamhill	1,147	908	80.1	29	2.6
Unknown	1	*	*	*	*

— Quantity is zero.

¹ Less than 5 prenatal visits or care began in the third trimester.

§ Rate is significantly different from the state rate.

WARNING: Rates and percentages based on less than 5 events are unreliable.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

**TABLE 2-21. Prenatal Care by Resident County
for Unmarried Mothers, Oregon Residents, 2011**

County of Residence	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	15,971	10,248	64.7	1,357	8.7
Baker	66	49	74.2	4	6.1
Benton	185	118	64.1	16	8.7
Clackamas	1,054	678	64.9	87	8.6
Clatsop	156	97	62.2	16	10.3
Columbia	163	121	74.7	7	4.4
Coos	263	164	62.6	27	10.3
Crook	61	41	67.2	1	1.6
Curry	58	38	65.5	5	8.9
Deschutes	546	387	71.4	25	4.6
Douglas	501	366	§ 73.6	33	6.7
Gilliam	6	*	*	*	*
Grant	23	11	50.0	5	22.7
Harney	22	14	66.7	2	10.5
Hood River	93	61	67.0	3	3.5
Jackson	1,014	633	62.7	97	9.6
Jefferson	162	112	69.6	17	10.6
Josephine	351	247	70.6	36	10.3
Klamath	374	229	61.2	30	8.0
Lake	24	14	58.3	4	16.7
Lane	1,346	938	§ 70.0	105	7.9
Lincoln	209	133	64.3	24	11.7
Linn	544	374	§ 73.9	33	6.8
Malheur	207	115	55.6	32	15.5
Marion	1,881	1,147	61.3	136	7.4
Morrow	71	24	§ 33.8	17	§ 23.9
Multnomah	3,159	1,971	62.8	330	§ 10.6
Polk	304	195	65.0	16	5.4
Sherman	6	*	*	*	*
Tillamook	93	53	57.0	9	9.7
Umatilla	504	293	58.3	67	13.4
Union	108	76	70.4	7	6.5
Wallowa	16	14	87.5	2	14.3
Wasco	114	86	75.4	7	6.1
Washington	1,921	1,188	62.6	145	7.9
Wheeler	2	*	*	*	*
Yamhill	364	251	70.7	11	3.2

¹ Less than 5 prenatal visits or care began in the third trimester.

§ Percent is significantly different from the state.

* Detailed reporting of small numbers may breach confidentiality.

WARNING: Rates and percentages based on less than 5 events are unreliable.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

**TABLE 2-22. Prenatal Care
by Birthweight, Oregon Residents, 2011**

Birthweight (in grams)	Total Births	First Trimester Care		Inadequate Care ¹	
		Number	Percent	Number	Percent
Total	45,136	33,550	75.1	2,379	5.4
Low Birthweight					
Total Low Birthweight ...	2,769	2,001	73.6	236	8.9
499 & Less	56	41	74.5	27	51.9
500-999	151	106	74.6	21	15.1
1000-1499	241	185	79.1	24	10.4
1500-1999	548	415	77.7	37	7.1
2000-2499	1,773	1,254	71.5	127	7.4
Birthweight Greater Than 2499 grams					
2500-2999	6,742	4,866	73.1	443	6.8
3000-3499	16,996	12,619	74.9	851	5.1
3500-3999	13,686	10,335	76.1	642	4.8
4000-4499	4,166	3,138	76.0	173	4.2
4500-4999	682	522	77.1	30	4.5
5000 & Over	88	68	77.3	3	3.4
Unknown	7	1	20.0	1	25.0

¹ Less than 5 prenatal visits or care began in the third trimester.

WARNING: Rates and percentages based on less than 5 events are unreliable.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-23. Rates¹ of Selected Medical Risk Factors by Age of Mother, Oregon Residents, 2011

Medical Risk Factor of Mother	Total Births ²	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Total Births	45,136	20	3,135	9,874	13,232	11,874	5,683	1,242	75
Diabetes-Chronic	8.8	—	4.8	6.0	7.7	9.3	14.8	17.7	26.7
Diabetes-Gestational	64.5	50.0	19.5	38.7	55.9	76.9	109.8	145.7	146.7
Hypertension-Chronic	14.3	—	6.4	8.7	12.0	16.6	23.9	37.8	26.7
Hypertension-Gestational	55.7	100.0	57.1	57.4	55.4	50.3	57.9	78.9	93.3
Eclampsia	6.5	—	9.9	6.8	5.8	5.4	7.0	12.9	—
Previous Preterm Infant ³	34.5	—	9.9	26.7	33.9	38.7	49.8	53.1	26.7
Previous Poor Pregnancy Outcome ⁴	30.7	—	13.7	20.7	28.3	33.6	49.3	61.2	133.3
Vaginal Bleeding	15.7	—	16.9	16.3	15.0	15.7	15.5	14.5	40.0
Infertility Treatment	19.4	—	0.3	1.8	12.1	26.4	45.2	83.7	280.0
Previous Cesarean Delivery ...	137.5	—	21.4	93.1	132.6	165.7	203.2	258.5	320.0

— Quantity is zero.

¹ Rates per 1,000 mothers.

² Total includes mothers with unstated age.

³ Gestation less than 37 completed weeks.

⁴ Includes Perinatal Death, Small For Gestational Age, and Intrauterine Growth Restricted Birth.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-24. Selected Medical or Health Characteristics by Mother's Age (Percents), Oregon Resident Births, 2011

Characteristic	Total Births ¹	Age of Mother							
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
All Births - Mother									
Total Births	45,136	20	3,135	9,874	13,232	11,874	5,683	1,242	75
First Trimester Care	75.1	35.0	61.1	67.5	76.8	80.4	80.4	76.7	79.2
Inadequate Care ²	5.4	35.0	9.8	7.6	5.1	3.5	4.1	4.5	2.8
No Prenatal Care	0.7	5.0	1.2	0.9	0.7	0.4	0.6	0.7	—
Out-Of-Hospital Birth ..	3.7	—	0.9	1.9	4.0	5.1	4.7	3.7	1.3
Primary Cesarean	17.1	25.0	16.3	16.2	16.4	17.3	19.0	22.2	41.3
Repeat Cesarean	11.7	—	1.8	8.1	11.1	14.2	17.3	22.2	30.7
Multiple Births	3.3	—	1.8	2.2	3.1	4.0	4.2	5.4	21.3
Tobacco Use	10.7	5.0	17.8	17.7	10.6	6.5	5.0	5.1	2.7
Overweight/Obese ³	48.4	—	37.1	48.8	50.3	47.8	49.8	51.2	42.5
All Births - Infant									
Preterm Births ⁴	7.4	10.0	8.2	7.5	7.0	7.0	7.7	10.2	25.7
Very Low Birthweight ⁵	1.0	—	1.3	1.0	0.9	0.9	1.1	1.4	5.4
Low Birthweight ⁶	6.1	—	8.0	6.5	5.3	5.9	6.3	7.8	23.0
Fetal Macrosomia ⁷	10.9	10.0	6.7	8.7	11.4	12.5	12.5	12.2	10.8
5 Minute Apgar < 7	2.7	—	3.6	2.8	2.6	2.4	2.8	4.2	5.4
Mothers Born in the U.S.									
Total Births	35,773	19	2,716	8,234	10,601	9,297	4,037	824	44
First Trimester Care	77.0	36.8	62.2	69.1	79.0	82.6	84.5	80.5	80.5
Inadequate Care ²	5.0	31.6	9.4	7.4	4.6	3.0	3.1	4.0	—
No Prenatal Care	0.7	5.3	1.1	0.9	0.7	0.4	0.6	0.8	—
Out-Of-Hospital Birth ..	4.3	—	1.0	2.1	4.7	6.1	5.9	4.6	2.3
Primary Cesarean	17.9	26.3	16.8	16.9	17.5	18.1	19.8	22.8	45.5
Repeat Cesarean	11.2	—	1.8	8.1	10.9	13.8	16.4	21.7	22.7
Multiple Births	3.4	—	2.1	2.3	3.3	4.3	4.4	5.6	22.7
Tobacco Use	13.2	5.3	20.4	21.0	12.9	8.1	6.7	6.8	4.7
Overweight/Obese ³	48.5	—	37.4	49.5	51.2	47.8	48.1	48.3	48.8
Infants of Mothers Born in the U.S.									
Preterm Births ⁴	7.6	10.5	8.5	7.8	7.3	7.3	7.2	9.7	23.3
Very Low Birthweight ⁵	1.0	—	1.3	1.0	0.9	0.9	0.9	1.0	4.7
Low Birthweight ⁶	6.2	—	7.9	6.8	5.3	5.9	5.9	7.4	23.3
Fetal Macrosomia ⁷	11.2	10.5	6.8	8.7	11.8	13.1	13.5	11.9	9.3
5 Minute Apgar < 7	2.9	—	3.8	3.0	2.7	2.4	3.1	4.9	9.3

— Quantity is zero.
See footnotes at end of table.

TABLE 2-24. Selected Medical or Health Characteristics by Mother's Age (Percents), Oregon Resident Births, 2011 (Continued)

Characteristic	Total Births	Age of Mother							
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Mothers Born Outside the U.S.									
Total Births	9,363	1	419	1,640	2,631	2,577	1,646	418	31
First Trimester Care	67.6	–	54.0	59.5	67.9	72.5	70.5	69.4	77.4
Inadequate Care ²	7.0	100.0	12.4	8.7	7.4	5.3	6.3	5.4	6.7
No Prenatal Care	0.8	–	1.7	0.9	0.7	0.7	0.8	0.7	–
Out-Of-Hospital Birth ..	1.3	–	–	0.7	1.4	1.5	1.5	1.9	–
Primary Cesarean	14.1	–	13.4	12.6	12.0	14.2	16.9	21.1	35.5
Repeat Cesarean	13.7	–	1.9	7.9	11.8	15.7	19.6	23.2	41.9
Multiple Births	2.6	–	–	1.6	2.2	2.8	3.7	5.0	19.4
Tobacco Use	1.0	–	1.4	0.9	1.2	0.8	1.0	1.7	–
Overweight/Obese ³	47.9	–	35.2	45.1	46.5	47.9	54.1	56.9	33.3
Infants of Mothers Born Outside the U.S.									
Preterm Births ⁴	6.7	–	5.7	5.8	5.9	5.7	9.1	11.0	29.0
Very Low Birthweight ⁵	1.0	–	1.2	0.8	0.9	0.8	1.5	2.2	6.5
Low Birthweight ⁶	6.1	–	8.4	4.8	5.4	5.7	7.4	8.6	22.6
Fetal Macrosomia ⁷	9.8	–	6.2	9.0	9.5	10.4	9.9	12.9	12.9
5 Minute Apgar < 7	2.1	–	2.1	1.8	2.2	2.3	2.0	2.9	–

– Quantity is zero.

1 There were no births with unknown age of mother.

2 Less than 5 prenatal visits or care began in the third trimester.

3 Body Mass Index of greater than 25.0 kg/m².

4 Born prior to 37 completed weeks of gestation.

5 Birthweight of less than 1,500 grams (3 lb 4 oz).

6 Birthweight of less than 2,500 grams (5 lb 8 oz).

7 Birthweight of more than 4,000 grams (8 lb 13 oz).

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-25. Selected Medical or Health Characteristics by Mother's Race (Percents), Oregon Resident Births, 2011

Characteristic	Total Births	Single Mention Race							Hispanic ¹
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ Unk.	Mult. Races	
All Births - Mother									
Total Births	45,136	30,888	934	532	2,103	271	95	1,378	8,718
First Trimester Care	75.1	78.1	65.3	63.0	79.3	39.6	71.7	69.9	66.9
Inadequate Care ²	5.4	4.6	8.7	12.4	4.5	23.4	6.5	7.4	6.7
No Prenatal Care	0.7	0.6	1.1	1.1	0.4	2.6	2.2	1.3	0.8
Out-Of-Hospital Birth ..	3.7	4.7	1.8	2.6	1.3	1.1	5.3	2.8	1.1
Primary Cesarean	17.1	17.7	18.6	16.5	20.4	20.3	10.5	20.8	13.7
Repeat Cesarean	11.7	10.9	13.5	14.3	13.4	18.5	9.5	13.2	13.4
Multiple Births	3.3	3.4	4.4	2.8	4.3	2.6	5.3	2.9	2.3
Tobacco Use	10.7	13.0	9.0	20.1	1.6	5.9	7.6	20.1	3.0
Overweight/Obese ³	48.4	46.3	53.5	62.3	23.8	75.1	51.1	53.7	58.9
All Births - Infant									
Preterm Births ⁴	7.4	7.3	9.6	9.8	7.7	8.1	4.2	9.1	7.2
Very Low Birthweight ⁵	1.0	0.9	1.9	1.1	0.7	1.5	1.1	0.9	1.1
Low Birthweight ⁶	6.1	5.8	10.2	7.3	8.0	7.7	7.4	6.2	6.3
Fetal Macrosomia ⁷	10.9	11.8	6.4	13.0	5.6	11.4	11.6	10.5	9.6
5 Minute Apgar < 7	2.7	2.9	4.9	2.3	1.8	2.2	3.2	3.3	2.2
Mothers Born in the U.S.									
Total Births	35,773	29,128	633	529	409	96	60	1,293	3,447
First Trimester Care	77.0	78.8	69.2	62.8	80.3	61.7	74.1	70.4	68.1
Inadequate Care ²	5.0	4.4	6.2	12.3	4.6	11.8	5.2	6.9	7.4
No Prenatal Care	0.7	0.6	1.0	1.2	0.8	—	—	1.3	0.8
Out-Of-Hospital Birth ..	4.3	4.7	1.9	2.6	2.9	2.1	6.7	2.7	2.1
Primary Cesarean	17.9	17.9	20.1	16.3	20.0	18.8	11.7	21.0	16.4
Repeat Cesarean	11.2	11.0	13.1	14.2	11.0	15.6	13.3	13.1	11.0
Multiple Births	3.4	3.4	4.6	2.8	6.8	—	5.0	2.9	3.2
Tobacco Use	13.2	13.6	12.7	20.2	5.7	11.5	10.3	21.1	7.0
Overweight/Obese ³	48.5	46.9	57.3	62.7	37.1	75.5	50.8	54.7	56.7
Infants of Mothers Born in the U.S.									
Preterm Births ⁴	7.6	7.3	10.1	9.7	9.5	5.2	1.7	9.0	8.3
Very Low Birthweight ⁵	1.0	0.9	1.7	0.9	0.7	1.0	1.7	1.0	1.4
Low Birthweight ⁶	6.2	5.9	11.1	7.2	9.3	4.2	10.0	6.0	7.3
Fetal Macrosomia ⁷	11.2	11.7	4.4	13.0	4.9	11.5	11.7	10.8	9.0
5 Minute Apgar < 7	2.9	2.9	5.1	2.3	1.5	1.0	5.0	3.4	2.6

— Quantity is zero.
See footnotes at end of table.

TABLE 2-25. Selected Medical or Health Characteristics by Mother's Race (Percents), Oregon Resident Births, 2011 (Continued)

Characteristic	Total Births	Single Mention Race							Hispanic ¹
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ Unk.	Mult. Races	
Mothers Born Outside the U.S.									
Total Births	9,363	1,760	301	3	1,694	175	35	85	5,271
First Trimester Care	67.6	67.2	56.9	100.0	79.1	27.6	67.6	62.7	66.1
Inadequate Care ²	7.0	7.5	14.0	33.3	4.5	29.7	8.8	15.9	6.3
No Prenatal Care	0.8	0.6	1.4	–	0.3	4.1	5.9	1.2	0.8
Out-Of-Hospital Birth ..	1.3	4.1	1.7	–	0.9	0.6	2.9	3.5	0.4
Primary Cesarean	14.1	13.9	15.6	66.7	20.4	21.1	8.6	17.6	11.9
Repeat Cesarean	13.7	9.4	14.3	33.3	14.0	20.0	2.9	15.3	14.9
Multiple Births	2.6	3.6	4.0	–	3.7	4.0	5.7	2.4	1.8
Tobacco Use	1.0	2.8	1.4	–	0.7	2.9	2.9	5.9	0.4
Overweight/Obese ³	47.9	36.5	45.2	–	20.6	74.8	51.5	37.8	60.4
Infants of Mothers Born Outside the U.S.									
Preterm Births ⁴	6.7	6.0	8.6	33.3	7.2	9.7	8.6	10.6	6.4
Very Low Birthweight ⁵	1.0	1.4	2.3	33.3	0.7	1.7	–	–	0.9
Low Birthweight ⁶	6.1	5.1	8.3	33.3	7.7	9.7	2.9	8.2	5.6
Fetal Macrosomia ⁷	9.8	12.6	10.6	–	5.7	11.4	11.4	7.1	10.0
5 Minute Apgar < 7	2.1	2.5	4.7	–	1.9	2.9	–	2.4	1.9

– Quantity is zero.

¹ Hispanic includes any mention of race.

² Less than 5 prenatal visits or care began in the third trimester.

³ Body Mass Index of greater than 25.0 kg/m².

⁴ Born prior to 37 completed weeks of gestation.

⁵ Birthweight of less than 1,500 grams (3 lb 4 oz).

⁶ Birthweight of less than 2,500 grams (5 lb 8 oz).

⁷ Birthweight of more than 4,000 grams (8 lb 13 oz).

NOTE: Rates and percentages are calculated excluding missing and unknown values.

**TABLE 2-25. Selected Medical or Health Characteristics by Mother's Race (Continued)
(Percents), Oregon Resident Births, 2011**

Characteristic	Total Births	Multiple Mention Race and Ethnicity							
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic ¹
All Births - Mother									
Total Births	45,136	39,004	1,339	1,443	2,600	461	1,691	446	8,718
First Trimester Care	75.1	75.9	66.2	66.9	78.2	47.6	67.4	71.5	66.9
Inadequate Care ²	5.4	5.0	9.0	9.2	5.0	18.2	7.7	7.2	6.7
No Prenatal Care	0.7	0.7	1.5	1.0	0.4	2.2	0.7	0.9	0.8
Out-Of-Hospital Birth ..	3.7	4.0	2.6	3.0	1.7	1.5	0.8	4.3	1.1
Primary Cesarean	17.1	17.1	17.6	18.9	20.2	23.9	13.8	15.7	13.7
Repeat Cesarean	11.7	11.4	12.8	13.9	13.5	15.8	15.5	9.0	13.4
Multiple Births	3.3	3.2	4.1	2.3	4.0	4.3	2.5	2.0	2.3
Tobacco Use	10.7	11.6	12.4	21.3	3.3	9.4	2.9	5.0	3.0
Overweight/Obese ³	48.4	48.6	55.1	59.3	27.7	69.9	58.4	54.8	58.9
All Births - Infant									
Preterm Births ⁴	7.4	7.2	9.6	9.0	8.0	10.0	9.1	4.1	7.2
Very Low Birthweight ⁵	1.0	1.0	1.9	0.8	0.8	1.3	1.4	0.4	1.1
Low Birthweight ⁶	6.1	5.9	9.9	6.2	7.7	8.0	8.3	3.8	6.3
Fetal Macrosomia ⁷	10.9	11.4	6.9	12.6	6.1	11.5	8.6	11.5	9.6
5 Minute Apgar < 7	2.7	2.8	4.3	3.0	1.9	1.5	2.0	0.9	2.2
Mothers Born in the U.S.									
Total Births	35,773	33,150	1,012	1,408	813	254	601	232	3,447
First Trimester Care	77.0	77.7	68.7	66.8	77.6	62.9	68.7	73.5	68.1
Inadequate Care ²	5.0	4.7	7.4	9.3	4.9	10.9	6.9	8.4	7.4
No Prenatal Care	0.7	0.7	1.4	0.9	0.6	0.8	0.5	0.9	0.8
Out-Of-Hospital Birth ..	4.3	4.4	2.9	2.9	3.1	2.0	0.8	7.3	2.1
Primary Cesarean	17.9	17.9	18.3	18.9	20.2	26.4	17.0	14.7	16.4
Repeat Cesarean	11.2	11.1	12.6	13.8	11.8	14.2	12.8	9.5	11.0
Multiple Births	3.4	3.4	4.2	2.3	4.7	5.1	3.3	3.0	3.2
Tobacco Use	13.2	13.4	15.8	21.8	8.8	15.0	6.7	7.6	7.0
Overweight/Obese ³	48.5	47.9	57.8	59.6	42.1	68.7	55.9	52.6	56.7
Infants of Mothers Born in the U.S.									
Preterm Births ⁴	7.6	7.4	9.9	9.0	9.6	10.2	10.3	4.8	8.3
Very Low Birthweight ⁵	1.0	1.0	1.8	0.7	1.0	0.8	2.0	0.9	1.4
Low Birthweight ⁶	6.2	6.0	10.3	6.1	8.0	6.7	10.0	4.8	7.3
Fetal Macrosomia ⁷	11.2	11.5	5.9	12.7	6.9	12.2	7.2	11.7	9.0
5 Minute Apgar < 7	2.9	2.9	4.2	3.0	2.0	0.8	2.8	1.7	2.6

See footnotes at end of table.

TABLE 2-25. Selected Medical or Health Characteristics by Mother's Race (Percents), Oregon Resident Births, 2011 (Continued)

Characteristic	Total Births	Multiple Mention Race and Ethnicity							
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic ¹
Mothers Born Outside the U.S.									
Total Births	9,363	5,854	327	35	1,787	207	1,090	214	5,271
First Trimester Care	67.6	66.2	58.4	71.4	78.4	28.8	66.6	69.4	66.1
Inadequate Care ²	7.0	6.5	13.8	5.7	5.0	27.1	8.2	5.8	6.3
No Prenatal Care	0.8	0.8	1.6	2.9	0.3	3.9	0.8	1.0	0.8
Out-Of-Hospital Birth ..	1.3	1.5	1.8	5.7	1.0	1.0	0.7	0.9	0.4
Primary Cesarean	14.1	12.3	15.6	20.0	20.2	20.8	12.0	16.8	11.9
Repeat Cesarean	13.7	13.0	13.5	14.3	14.2	17.9	17.0	8.4	14.9
Multiple Births	2.6	2.3	3.7	–	3.6	3.4	2.1	0.9	1.8
Tobacco Use	1.0	1.1	1.9	2.9	0.8	2.4	0.8	2.4	0.4
Overweight/Obese ³	47.9	52.9	46.4	47.1	21.2	71.5	59.8	57.0	60.4
Infants of Mothers Born Outside the U.S.									
Preterm Births ⁴	6.7	6.1	8.9	11.4	7.3	9.7	8.4	3.3	6.4
Very Low Birthweight ⁵	1.0	1.1	2.1	2.9	0.7	1.9	1.0	–	0.9
Low Birthweight ⁶	6.1	5.3	8.6	11.4	7.6	9.7	7.3	2.8	5.6
Fetal Macrosomia ⁷	9.8	10.9	10.1	8.6	5.8	10.6	9.4	11.2	10.0
5 Minute Apgar < 7	2.1	2.2	4.9	2.9	1.9	2.4	1.6	–	1.9

– Quantity is zero.

¹ Hispanic includes any mention of race.

² Less than 5 prenatal visits or care began in the third trimester.

³ Body Mass Index of greater than 25.0 kg/m².

⁴ Born prior to 37 completed weeks of gestation.

⁵ Birthweight of less than 1,500 grams (3 lb 4 oz).

⁶ Birthweight of less than 2,500 grams (5 lb 8 oz).

⁷ Birthweight of more than 4,000 grams (8 lb 13 oz).

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-26. Mothers with Selected Medical Risk Factors by Race of Mother, Oregon Residents, 2011

Medical Risk Factor of Mother	Total Births ¹	Single Mention Race							Hispanic ²
		White	African American	American Indian	Asian	Hawaiian/Pacific Islander	Other/NS	Multiple Races	
Total Births	45,136	30,888	934	532	2,103	271	95	1,378	8,718
Diabetes-Chronic	395	241	6	5	17	6	2	20	97
Diabetes-Gestational	2,913	1,600	65	36	284	30	8	81	800
Hypertension-Chronic	647	455	22	10	19	5	-	35	96
Hypertension-Gestational	2,512	1,806	48	39	68	23	2	92	421
Eclampsia	295	175	3	13	11	3	-	11	79
Previous Preterm Infant ³	1,555	979	40	35	53	8	3	63	366
Previous Poor Pregnancy Outcome ⁴	1,386	868	42	21	59	9	6	42	336
Vaginal Bleeding	708	472	20	12	24	6	2	18	152
Infertility Treatment	315	257	1	1	22	-	-	6	25
Previous Cesarean Delivery ...	6,207	3,924	155	83	332	56	12	203	1,414

- Quantity is zero.
See footnotes at end of table.

**TABLE 2-26. Mothers with Selected Medical Risk Factors by Race of Mother, Oregon Residents, 2011
(Continued)**

Medical Risk Factor of Mother	Total Births	Multiple Mention Race and Ethnicity							
		White	African American	American Indian	Asian	Hawaiian/Pacific Islander	Other	NS	Hispanic ²
Total Births	45,136	39,004	1,339	1,443	2,600	461	1,691	446	8,718
Diabetes-Chronic	395	329	15	14	22	8	27	5	97
Diabetes-Gestational	2,913	2,280	79	92	316	43	183	25	800
Hypertension-Chronic	647	565	32	31	29	11	20	3	96
Hypertension-Gestational	2,512	2,202	74	94	108	35	107	20	421
Eclampsia	295	249	8	21	14	4	14	1	79
Previous Preterm Infant ³	1,555	1,312	56	81	71	17	90	13	366
Previous Poor Pregnancy Outcome ⁴	1,386	1,189	62	48	71	12	60	5	336
Vaginal Bleeding	708	600	24	29	32	12	38	5	152
Infertility Treatment	315	288	2	4	24	1	4	2	25
Previous Cesarean Delivery ...	6,207	5,213	210	222	404	79	297	47	1,414

- Quantity is zero.

1 Total includes mothers with unstated race/ethnicity.

2 Hispanic includes any race.

3 Gestation less than 37 completed weeks.

4 Includes Perinatal Death, Small For Gestational Age, and Intrauterine Growth Restricted Birth.

NS: Not Stated.

TABLE 2-27. County of Occurrence by Type of Institution and Delivery Attendant, Oregon Occurrence Births, 2011

County of Occurrence	Total	Born in Hospital or on Arrival					
		Total Hospital Births	M.D.	D.O.	C.N.M.	Other Licensed Medical	Non-Medical
Total	45,485	43,805	34,068	2,348	7,245	139	3
Baker	130	121	120	—	—	1	—
Benton	1,116	1,062	654	3	402	3	—
Clackamas	4,269	4,163	2,605	39	1,519	—	—
Clatsop	490	483	393	4	77	9	—
Columbia	14	—	—	—	—	—	—
Coos	631	623	352	104	167	—	—
Crook	2	2	2	—	—	—	—
Curry	74	71	29	1	41	—	—
Deschutes	2,059	1,986	1,752	164	56	14	—
Douglas	933	926	690	—	236	—	—
Gilliam	—	—	—	—	—	—	—
Grant	53	48	47	—	—	1	—
Harney	58	57	57	—	—	—	—
Hood River	408	404	370	2	32	—	—
Jackson	2,502	2,421	1,819	401	200	1	—
Jefferson	196	193	193	—	—	—	—
Josephine	738	705	683	—	1	21	—
Klamath	845	839	800	10	29	—	—
Lake	61	60	48	12	—	—	—
Lane	3,746	3,510	3,159	1	328	18	3
Lincoln	348	324	295	11	17	1	—
Linn	962	915	792	122	—	—	—
Malheur	590	586	227	203	156	—	—
Marion	4,999	4,920	4,029	200	660	31	—
Morrow	6	—	—	—	—	—	—
Multnomah	10,508	9,928	7,365	791	1,744	28	—
Polk	16	—	—	—	—	—	—
Sherman	—	—	—	—	—	—	—
Tillamook	171	162	162	—	—	—	—
Umatilla	840	832	832	—	—	—	—
Union	306	285	148	137	—	—	—
Wallowa	51	50	50	—	—	—	—
Wasco	283	276	163	68	42	3	—
Washington	6,872	6,733	5,532	75	1,118	8	—
Wheeler	2	—	—	—	—	—	—
Yamhill	1,205	1,120	700	—	420	—	—

— Quantity is zero.

M.D. = Medical Doctor

D.O. = Doctor of Osteopathy

C.N.M. = Certified Nurse Midwife

N.D. = Naturopathic Doctor

L.D.M. = Licensed Direct Entry Midwife

TABLE 2-27. County of Occurrence by Type of Institution and Delivery Attendant, Oregon Occurrence Births, 2011 (Continued)

County of Occurrence	Born Out-of-Hospital							
	Total Births	M.D./D.O.	C.N.M.	N.D.	L.D.M.	Midwife	Other Licensed Medical	Non-Medical
Total	1,680	2	251	182	993	113	12	127
Baker	9	—	—	—	9	—	—	—
Benton	54	—	1	—	48	2	—	3
Clackamas	106	—	12	21	34	9	—	30
Clatsop	7	—	—	1	3	—	—	3
Columbia	14	—	1	1	8	1	1	2
Coos	8	—	—	—	—	8	—	—
Crook	—	—	—	—	—	—	—	—
Curry	3	—	—	—	1	1	—	1
Deschutes	73	—	—	—	66	2	1	4
Douglas	7	—	—	1	1	4	—	1
Gilliam	—	—	—	—	—	—	—	—
Grant	5	—	—	—	5	—	—	—
Harney	1	—	—	—	—	—	—	1
Hood River	4	—	—	1	3	—	—	—
Jackson	81	—	3	3	66	1	—	8
Jefferson	3	—	—	—	1	2	—	—
Josephine	33	—	—	—	19	7	—	7
Klamath	6	—	—	—	2	—	1	3
Lake	1	—	—	—	—	—	—	1
Lane	236	—	129	2	68	24	2	11
Lincoln	24	—	—	—	22	1	—	1
Linn	47	1	—	1	42	—	—	3
Malheur	4	—	—	—	1	1	—	2
Marion	79	1	11	7	44	7	1	8
Morrow	6	—	—	—	4	—	1	1
Multnomah	580	—	76	119	340	20	3	22
Polk	16	—	—	—	13	2	—	1
Sherman	—	—	—	—	—	—	—	—
Tillamook	9	—	—	—	6	3	—	—
Umatilla	8	—	—	2	6	—	—	—
Union	21	—	—	2	19	—	—	—
Wallowa	1	—	—	—	1	—	—	—
Wasco	7	—	—	—	2	5	—	—
Washington	139	—	6	18	89	12	2	12
Wheeler	2	—	—	—	1	1	—	—
Yamhill	85	—	12	3	69	—	—	1

— Quantity is zero.

M.D. = Medical Doctor

D.O. = Doctor of Osteopathy

C.N.M. = Certified Nurse Midwife

N.D. = Naturopathic Doctor

L.D.M. = Licensed Direct Entry Midwife

TABLE 2-28. Delivery Method by Day of Birth, Mother's Age, Race/Ethnicity, and Payment Source (Percents), Oregon Resident Births, 2011

Characteristics	Total Births	Vaginal	Vaginal after Previous C-section	Primary C-section	Repeat C-section
Day of Birth					
All Births	45,136	31,195	917	7,731	5,290
Sunday	4,694	77.6	2.3	14.6	5.6
Monday	6,545	66.6	2.0	17.1	14.3
Tuesday	7,115	66.4	1.9	17.9	13.8
Wednesday	7,084	67.2	1.9	17.9	12.9
Thursday	7,112	68.6	2.0	17.2	12.3
Friday	7,215	66.3	1.9	18.0	13.8
Saturday	5,371	75.4	2.6	16.0	6.1
Mother's Age					
<15	20	75.0	—	25.0	—
15-19	3,135	81.5	0.3	16.3	1.8
20-24	9,874	74.5	1.2	16.2	8.1
25-29	13,232	70.3	2.2	16.4	11.1
30-34	11,874	66.1	2.4	17.3	14.2
35-39	5,683	60.7	3.0	19.0	17.3
40-44	1,242	51.9	3.6	22.2	22.2
45+	75	25.3	1.3	41.3	30.7
N.S.	1	—	—	100.0	—
Single Mention Race/Ethnicity					
White	30,888	69.6	1.8	17.7	10.9
African American	934	64.8	3.1	18.6	13.5
American Indian	532	67.9	1.3	16.5	14.3
Asian	2,103	63.9	2.4	20.4	13.4
Hawaiian/Pacific Islander	271	59.0	2.2	20.3	18.5
Other/Unknown	95	76.8	3.2	10.5	9.5
Multiple Races	1,378	64.5	1.5	20.8	13.2
Hispanic	8,718	70.1	2.8	13.7	13.4
Payment Source					
Medicaid/OHP*	20,426	70.1	2.1	15.2	12.6
Private Insurance	22,787	67.5	2.0	19.3	11.3
Self-Pay	992	84.8	3.0	7.4	4.8
Other Coverage	662	69.9	1.5	16.3	12.2
Unknown Mention	269	71.4	1.9	16.4	9.3
Body Mass Index in kg/m²					
Underweight (< 18.5)	1,443	77.1	1.4	14.5	7.1
Normal (18.5 - 24.9)	21,420	74.3	2.0	15.0	8.6
Overweight (25.0 - 29.9)	11,039	68.4	2.1	17.5	12.1
Obese (> 30.0)	10,376	58.1	2.0	21.7	18.3
Unknown	858	68.1	2.7	14.2	14.7

— Quantity is zero.
* Oregon Health Plan.

TABLE 2-29. Age of Mother by Birthweight, Oregon Resident Births, 2011

Birthweight (in grams)	Total Births	Age of Mother								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	45,136	20	3,135	9,874	13,232	11,874	5,683	1,242	75	1
Low Birthweight										
Total Low Birthweight ...	2,769	–	250	639	707	701	358	97	17	–
499 & Less	56	–	6	10	21	9	8	2	–	–
500-999	151	–	11	36	43	32	20	7	2	–
1000-1499	241	–	23	52	56	67	33	8	2	–
1500-1999	548	–	50	122	147	119	85	18	7	–
2000-2499	1,773	–	160	419	440	474	212	62	6	–
Birthweight Greater Than 2499 grams										
2500-2999	6,742	6	587	1,603	1,974	1,544	801	207	20	–
3000-3499	16,996	8	1,283	3,881	4,940	4,408	2,020	439	17	–
3500-3999	13,686	4	803	2,888	4,105	3,733	1,794	347	12	–
4000-4499	4,166	2	181	729	1,271	1,254	589	131	8	1
4500-4999	682	–	27	117	206	206	107	19	–	–
5000 & Over	88	–	3	16	26	28	13	2	–	–
Unknown	7	–	1	1	3	–	1	–	1	–
Column Percent										
1499 & less	1.0	–	1.3	1.0	0.9	0.9	1.1	1.4	5.4	–
1500-2499	5.1	–	6.7	5.5	4.4	5.0	5.2	6.4	17.6	–
2500-4499	92.2	100.0	91.1	92.2	92.9	92.1	91.6	90.5	77.0	100.0
4500 & over	1.7	–	0.9	1.3	1.7	2.0	2.1	1.7	–	–

– Quantity is zero.

WARNING: Rates and percentages based on less than 5 events are unreliable.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-30. Age of Unmarried Mothers by Birthweight, Oregon Resident Births, 2011

Birthweight (in grams)	Total Births	Age of Mother								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	15,971	20	2,689	5,689	3,946	2,299	1,036	277	14	1
Low Birthweight										
Total Low Birthweight ...	1,156	–	211	416	253	168	80	24	4	–
499 & Less	22	–	6	5	4	3	3	1	–	–
500-999	55	–	11	19	14	7	–	2	2	–
1000-1499	102	–	20	31	25	18	5	2	1	–
1500-1999	242	–	44	80	63	26	27	1	1	–
2000-2499	735	–	130	281	147	114	45	18	–	–
Birthweight Greater Than 2499 grams										
2500-2999	2,749	6	490	976	667	366	175	64	5	–
3000-3499	6,291	8	1,126	2,273	1,553	858	371	98	4	–
3500-3999	4,375	4	678	1,581	1,105	654	290	63	–	–
4000-4499	1,178	2	159	379	308	212	92	24	1	1
4500-4999	194	–	21	56	51	38	24	4	–	–
5000 & Over	26	–	3	8	8	3	4	–	–	–
Unknown	2	–	1	–	1	–	–	–	–	–
Column Percent										
1499 & less	1.1	–	1.4	1.0	1.1	1.2	0.8	1.8	21.4	–
1500-2499	6.1	–	6.5	6.3	5.3	6.1	6.9	6.9	7.1	–
2500-4499	91.4	100.0	91.3	91.6	92.1	90.9	89.6	89.9	71.4	100.0
4500 & over	1.4	–	0.9	1.1	1.5	1.7	2.7	1.4	–	–

– Quantity is zero.

WARNING: Rates and percentages based on less than 5 events are unreliable.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-31. Race of Mother and Birthweight, Oregon Residents, 2011

Mother's Race/Ethnicity	Total Births	499 & Less	500-999	1000-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500-4999	5000 & Over	Unk.
Total Births	45,136	56	151	241	548	1,773	6,742	16,996	13,686	4,166	682	88	7
Non-Hispanic Single Mention Race													
Total Non-Hispanic	36,201	39	116	192	445	1,416	5,388	13,387	11,143	3,423	573	74	5
White	30,888	30	97	163	354	1,149	4,367	11,302	9,784	3,068	510	59	5
African American	934	4	7	7	21	56	193	372	214	44	13	3	-
American Indian	532	1	1	4	10	23	88	172	164	56	11	2	-
Asian	2,103	3	3	9	39	114	448	898	472	105	11	1	-
Hawaiian/Pacific Islander	271	-	2	2	4	13	45	103	71	24	6	1	-
Other/Unknown	95	-	1	-	-	6	11	38	28	9	2	-	-
Multiple Races	1,378	1	5	7	17	55	236	502	410	117	20	8	-
Hispanic Single Mention Race													
Total Hispanic	8,718	16	35	47	102	349	1,314	3,555	2,482	717	107	13	1
White	6,610	14	27	33	69	246	996	2,678	1,901	548	85	12	1
African American	49	-	1	-	-	4	7	23	11	3	-	-	-
American Indian	114	-	-	1	1	2	15	52	28	13	2	-	-
Asian	28	-	-	-	-	1	3	14	7	3	-	-	-
Hawaiian/Pacific Islander	12	-	-	1	3	-	1	2	4	1	-	-	-
Other/Unknown	1,753	2	7	11	28	83	262	711	494	136	18	1	-
Multiple Races	152	-	-	1	1	13	30	55	37	13	2	-	-

- Quantity is zero.

TABLE 2-31. Race of Mother and Birthweight, Oregon Residents, 2011 (Continued)

Mother's Race/Ethnicity	Total Births	499 & Less	500-999	1000-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500-4999	5000 & Over	Unk.
Total Births	45,136	56	151	241	548	1,773	6,742	16,996	13,686	4,166	682	88	7
Multiple Mention Race and Ethnicity													
White	39,004	46	129	206	439	1,462	5,618	14,535	12,121	3,746	616	80	6
African American	1,339	4	10	11	24	83	268	523	323	70	16	7	-
American Indian	1,443	1	3	7	21	58	229	510	432	147	29	6	-
Asian	2,600	4	4	12	46	134	533	1,094	614	144	14	1	-
Hawaiian/Pacific Islander	461	-	2	4	9	22	80	162	129	44	7	2	-
Other	1,691	2	8	13	31	86	265	667	474	126	17	2	-
Unknown	446	-	1	1	1	14	66	172	139	44	7	-	1
Hispanic	8,718	16	35	47	102	349	1,314	3,535	2,482	717	107	13	1

- Quantity is zero.

TABLE 2-32. Low Birthweight Infants by County of Residence, Oregon, 2011

County of Residence	Total Births	Low Birthweight Infants			Low Birthweight Rates ¹		
		Total Low Birthweight	Less than 1500 grams	1,500-2,499 grams	All Low Birthweight	Less than 1500 grams	1,500-2,499 grams
Total	45,136	2,769	448	2,321	61.4	9.9	51.4
Baker	164	11	1	10	67.1	6.1	61.0
Benton	760	38	8	30	50.0	10.5	39.5
Clackamas	3,824	214	35	179	56.0	9.2	46.8
Clatsop	430	31	4	27	72.1	9.3	62.8
Columbia	482	30	3	27	62.2	6.2	56.0
Coos	577	39	5	34	67.6	8.7	58.9
Crook	176	10	1	9	56.8	5.7	51.1
Curry	185	17	5	12	91.9	27.0	64.9
Deschutes	1,696	114	15	99	67.2	8.8	58.4
Douglas	1,086	64	11	53	58.9	10.1	48.8
Gilliam	15	—	—	—	—	—	—
Grant	67	6	1	5	89.6	14.9	74.6
Harney	65	3	—	3	46.2	—	46.2
Hood River	277	14	3	11	50.5	10.8	39.7
Jackson	2,355	138	19	119	58.6	8.1	50.5
Jefferson	314	23	5	18	73.2	15.9	57.3
Josephine	760	44	6	38	57.9	7.9	50.0
Klamath	825	73	8	65	§ 88.5	9.7	§ 78.8
Lake	68	6	1	5	88.2	14.7	73.5
Lane	3,469	206	25	181	59.4	7.2	52.2
Lincoln	417	27	6	21	64.7	14.4	50.4
Linn	1,478	103	17	86	69.7	11.5	58.2
Malheur	441	44	7	37	§ 100.0	15.9	§ 84.1
Marion	4,374	258	45	213	59.0	10.3	48.7
Morrow	172	6	1	5	35.1	5.8	29.2
Multnomah	9,498	571	109	462	60.1	11.5	48.6
Polk	858	47	6	41	54.8	7.0	47.8
Sherman	20	5	1	4	§ 250.0	50.0	§ 200.0
Tillamook	241	17	3	14	70.8	12.5	58.3
Umatilla	1,056	69	7	62	65.3	6.6	58.7
Union	318	19	1	18	59.9	3.2	56.8
Wallowa	54	4	2	2	74.1	37.0	37.0
Wasco	284	13	3	10	45.8	10.6	35.2
Washington	7,173	430	65	365	59.9	9.1	50.9
Wheeler	9	*	*	*	*	*	*
Yamhill	1,147	74	19	55	64.5	16.6	48.0
Unknown	1	*	*	*	*	*	*

— Quantity is zero.

¹ All rates are per 1,000 births.

§ Rate is significantly different from the state rate.

* Detailed reporting of small numbers may breach confidentiality.

WARNING: Rates based on less than 5 events are unreliable.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-33. Weight Gain of Mother by Period of Gestation and Race/Ethnicity of Mother, Oregon Resident Births, 2011

Period of Gestation ¹ and Race/Ethnicity ² of Mother	All Births ³	Mother's Weight Gain During Pregnancy						
		Weight Loss	1-10 pounds	11-20 pounds	21-30 pounds	31-40 pounds	41+ pounds	Not Stated
All Gestation Periods								
Total Births	45,136	726	2,212	6,932	12,177	11,705	10,040	1,344
White	30,888	482	1,332	4,207	8,157	8,435	7,501	774
African American	934	17	72	176	199	231	192	47
American Indian	532	15	31	92	126	114	143	11
Asian	2,103	9	68	343	684	625	325	49
Hawaiian/Pacific Islander	271	6	20	44	66	50	61	24
Other/Unknown	95	1	8	18	23	22	20	3
Multiple Races	1,378	30	76	197	349	336	352	38
Hispanic	8,718	165	596	1,821	2,535	1,833	1,396	372
Under 37 Weeks								
Total Births	3,332	79	252	671	915	658	648	109
White	2,240	45	142	413	612	460	507	61
African American	90	3	10	19	25	14	10	9
American Indian	52	1	4	8	17	5	12	5
Asian	161	1	12	32	49	42	24	1
Hawaiian/Pacific Islander	22	1	3	2	5	7	4	—
Other/Unknown	4	—	1	2	1	—	—	—
Multiple Races	126	1	13	25	31	21	31	4
Hispanic	623	27	66	167	174	104	57	28
37 - 39 Weeks								
Total Births	24,528	455	1,267	3,965	6,815	6,255	5,089	682
White	16,482	308	771	2,392	4,455	4,431	3,753	372
African American	492	9	42	93	102	126	102	18
American Indian	332	11	21	61	85	73	78	3
Asian	1,212	7	38	215	419	330	176	27
Hawaiian/Pacific Islander	149	2	11	26	39	25	30	16
Other/Unknown	57	1	3	11	14	12	13	3
Multiple Races	755	24	42	107	193	197	170	22
Hispanic	4,939	92	333	1,043	1,490	1,028	743	210
40 Weeks and Over								
Total Births	17,250	192	691	2,291	4,441	4,791	4,302	542
White	12,155	129	417	1,401	3,085	3,544	3,241	338
African American	352	5	20	64	72	91	80	20
American Indian	146	3	6	22	24	36	53	2
Asian	730	1	18	96	216	253	125	21
Hawaiian/Pacific Islander	100	3	6	16	22	18	27	8
Other/Unknown	34	—	4	5	8	10	7	—
Multiple Races	497	5	21	65	125	118	151	12
Hispanic	3,144	46	197	608	870	700	595	128

— Quantity is zero.

¹ Expressed in complete weeks.

² Single mention race and Hispanic ethnicity.

³ The subtotals for gestation period may not add to the total because of births of unknown gestation periods and births to mothers of unknown race or ethnicity.

TABLE 2-34. Percent Low Birthweight by Weight Gain of Mother, Period of Gestation, and Race/Ethnicity of Mother, Oregon Residents, 2011

Period of Gestation ¹ and Race/Ethnicity ² of Mother	Mother's Weight Gain During Pregnancy							
	All Births ³	Weight Loss	1-10 pounds	11-20 pounds	21-30 pounds	31-40 pounds	41+ pounds	Not Stated
	Percent Low Birthweight Infants							
All Gestation Periods								
Total Births	6.1	9.0	9.9	8.9	6.3	4.4	4.8	7.1
White	5.8	7.9	9.4	8.7	6.2	4.1	4.9	6.6
African American	10.2	35.3	16.7	13.6	9.5	7.4	4.2	19.1
American Indian	7.3	6.7	12.9	7.6	10.3	5.3	4.9	9.1
Asian	8.0	—	14.7	12.5	7.3	6.1	7.4	6.1
Hawaiian/Pacific Islander	7.7	16.7	15.0	6.8	6.1	12.0	4.9	4.2
Other/Unknown	7.4	—	12.5	11.1	4.3	4.5	5.0	33.3
Multiple Races	6.2	3.3	9.2	6.6	6.9	4.2	6.5	7.9
Hispanic	6.3	10.9	9.2	8.8	6.1	4.7	3.7	6.5
Under 37 Weeks								
Total Births	56.8	59.5	69.4	64.7	55.5	50.3	50.8	64.2
White	55.3	60.0	67.6	63.8	54.4	49.1	49.9	67.2
African American	68.9	100.0	90.0	84.2	44.0	71.4	50.0	88.9
American Indian	55.8	100.0	100.0	37.5	64.7	60.0	50.0	20.0
Asian	61.5	—	75.0	84.4	55.1	47.6	62.5	100.0
Hawaiian/Pacific Islander	77.3	100.0	100.0	100.0	80.0	71.4	50.0	—
Other/Unknown	50.0	—	100.0	50.0	—	—	—	—
Multiple Races	46.8	—	38.5	48.0	51.6	38.1	51.6	50.0
Hispanic	60.8	55.6	71.2	64.5	60.9	54.8	52.6	57.1
37 - 39 Weeks								
Total Births	3.3	3.3	3.1	4.2	3.6	2.6	3.0	3.2
White	3.1	2.6	3.5	3.9	3.6	2.3	2.9	2.2
African American	5.9	33.3	7.1	5.4	7.8	4.8	2.9	5.6
American Indian	3.0	—	—	6.6	2.4	4.1	1.3	—
Asian	5.2	—	—	6.5	5.3	5.2	4.5	7.4
Hawaiian/Pacific Islander	2.7	—	—	3.8	—	4.0	3.3	6.2
Other/Unknown	8.8	—	—	9.1	7.1	8.3	7.7	33.3
Multiple Races	3.2	4.2	2.4	0.9	3.6	3.0	4.1	4.5
Hispanic	3.2	3.3	2.4	4.4	3.0	2.5	2.8	3.8
40 Weeks and Over								
Total Births	0.4	1.6	0.6	0.9	0.4	0.4	0.1	0.4
White	0.4	2.3	0.5	0.6	0.4	0.4	0.1	0.3
African American	1.1	—	—	4.7	—	1.1	—	—
American Indian	—	—	—	—	—	—	—	—
Asian	0.8	—	5.6	2.1	0.5	0.4	0.8	—
Hawaiian/Pacific Islander	—	—	—	—	—	—	—	—
Other/Unknown	—	—	—	—	—	—	—	—
Multiple Races	0.4	—	4.8	—	0.8	—	—	—
Hispanic	0.4	—	—	1.2	0.3	0.6	—	—

— Quantity is zero.

¹ Expressed in complete weeks.² Single mention race and Hispanic ethnicity.³ The subtotals for gestation period may not add to the total because of births of unknown gestation periods and births to mothers of unknown race or ethnicity.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-35. Live Births with Selected Abnormal Conditions of the Newborn by Age of Mother, Oregon Residents, 2011

Conditions of New Born	Total Births	Mother's Age							N.S.	
		<15	15-19	20-24	25-29	30-34	35-39	40-44		45+
Total Births	45,136	20	3,135	9,874	13,232	11,874	5,683	1,242	75	1
Immediate Ventilation	1,770	1	154	425	492	448	203	41	6	-
Ventilator > 6 hrs.	438	-	34	102	121	106	57	14	4	-
Admission to NICU	3,087	2	226	669	862	775	435	100	18	-
Surfactant Therapy	103	-	10	25	25	22	14	3	4	-
Antibiotics	1,000	-	109	248	278	225	107	27	6	-
Seizures	28	-	2	8	10	7	1	-	-	-
No Condition Noted	40,873	18	2,789	8,899	12,051	10,800	5,140	1,119	56	1

- Quantity is zero.

N.S. = Not Stated.

NOTE: More than one abnormal condition may be reported for a given birth.

TABLE 2-36. Live Births with Selected Abnormal Conditions of the Newborn by Race of Mother, Oregon Residents, 2011

Conditions of New Born	Total Births ¹	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ NS ²	Hispanic ³
Single Mention Race								
Total Births	45,136	30,888	934	532	2,103	271	1,473	8,718
Immediate Ventilation	1,770	1,242	45	27	57	14	70	309
Ventilator > 6 hrs.	438	318	9	4	8	3	13	82
Admission to NICU	3,087	2,059	95	44	144	26	130	578
Surfactant Therapy	103	74	1	2	2	1	4	19
Antibiotics	1,000	683	14	9	41	3	39	208
Seizures	28	23	1	–	1	–	–	3
No Condition Noted	40,873	27,988	820	465	1,925	234	1,292	7,948
Multiple Mention Race								
Immediate Ventilation	1,770	1,541	62	74	81	25	85	309
Ventilator > 6 hrs.	438	390	13	11	13	4	27	82
Admission to NICU	3,087	2,608	130	134	180	46	169	578
Surfactant Therapy	103	91	3	4	4	1	6	19
Antibiotics	1,000	880	29	32	52	7	53	208
Seizures	28	26	1	–	1	–	–	3
No Condition Noted	40,873	35,356	1,177	1,254	2,367	397	1,927	7,948

– Quantity is zero.

¹ Total includes mothers with unstated race/ethnicity.² NS: Not Stated.³ For Single Mention Race, Hispanic includes any race.

TABLE 2-37. Congenital Anomalies by Age of Mother, Oregon Resident Births, 2011

Reported Congenital Anomaly	All Ages	Age of Mother					
		<20	20-24	25-29	30-34	35-39	40+
Total Births	45,136	3,155	9,874	13,232	11,874	5,683	1,317
No Congenital Anomaly Reported	44,857	3,140	9,801	13,155	11,816	5,643	1,301
Anencephalus	6	—	2	2	2	—	—
Spina Bifida	11	—	2	6	3	—	—
Heart Disease	57	1	15	15	18	5	3
Hypospadias	29	3	3	14	6	3	—
Hernia	6	—	3	2	1	—	—
Omphalocele	3	—	2	—	—	1	—
Gastroschisis	24	4	9	8	2	1	—
Limb Reduction Defect	17	—	5	5	3	3	1
Cleft Lip	47	3	13	13	11	5	2
Cleft Palate Alone	19	—	7	2	5	3	2
Down Syndrome	44	2	8	8	4	14	8
Chromosomal Disorder	27	1	3	6	9	4	4

— Quantity is zero.

NOTE: More than one type of malformation may be reported for a given birth.

Table 2-38. Most Frequently Used Baby Names, Oregon Occurrence, 2011

Boys			Girls		
Rank	Name	Count	Rank	Name	Count
1	Mason	221	1	Sophia	272
2	Liam	213	2	Emma	223
3	Jacob	187	3	Olivia	217
3	Logan	187	4	Ava	168
5	Daniel	185	5	Isabella	165
6	Samuel	184	6	Abigail	163
7	Alexander	181	7	Emily	159
7	Jackson	181	8	Natalie	138
9	Ethan	179	9	Elizabeth	127
10	Noah	178	10	Evelyn	124
11	William	176	11	Lily	118
12	Henry	168	12	Addison	116
13	James	164	13	Brooklyn	113
14	Gabriel	162	13	Chloe	113
15	Wyatt	156	15	Madison	111
16	Benjamin	150	16	Ella	108
17	Elijah	147	16	Grace	108
18	Isaac	146	18	Lillian	102
19	Aiden	141	19	Avery	101
20	Owen	136	19	Zoey	101
21	David	134	21	Mia	99
22	Oliver	132	22	Amelia	90
23	Michael	131	22	Hannah	90
24	Anthony	127	24	Sofia	86
25	Hunter	126	25	Samantha	82
26	Joshua	125	26	Charlotte	80
27	Caleb	123	27	Audrey	78
28	Lucas	122	28	Ruby	76
29	Andrew	120	29	Claire	73
29	Jack	120	29	Hailey	73
Total Boys' Names: 4,582			Total Girls' Names: 6,272		

Total 2011 Oregon Occurrence Births: 45,485

SECTION 3: INDUCED TERMINATION OF PREGNANCY

Induced Termination of Pregnancy

Current trends

During 2011, 9,567 induced terminations of pregnancy occurred in Oregon. This total represents a 4.2 percent decrease from 2010 and a decrease of 39.2 percent from the record high of 15,735 abortions reported in 1980. (See Figure 3-1.)

This chapter reports occurrence data for all abortions occurring in Oregon whether obtained by Oregon residents or residents of another state. The percentage of out-of-state residents terminating pregnancies in Oregon has been between 9.8 percent and 12.6 percent from 1992 to the present. In 2011, 935 patients (9.8 %) were out-of-state residents. (See Table 3-6.) Oregonians who obtained out-of-state abortions are not included in this data. Because rate calculations use Oregon population numbers, these calculations substitute out-of-state residents for the unknown number of Oregonians who obtained an abortion in another state. (See Appendix B, Technical Notes section for a more extensive discussion of the completeness of abortion data.)

Behavioral changes are revealed more by shifts in rates (which account for population change) than changes in the number of events. The U.S. abortion rate has been declining since 1980 from approximately 25 per 1,000 women aged

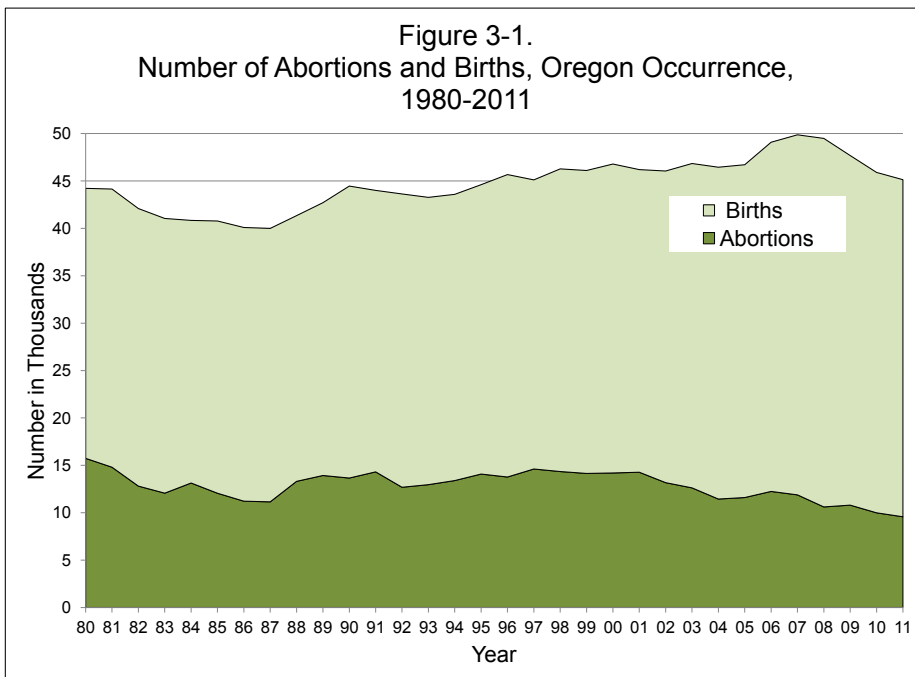
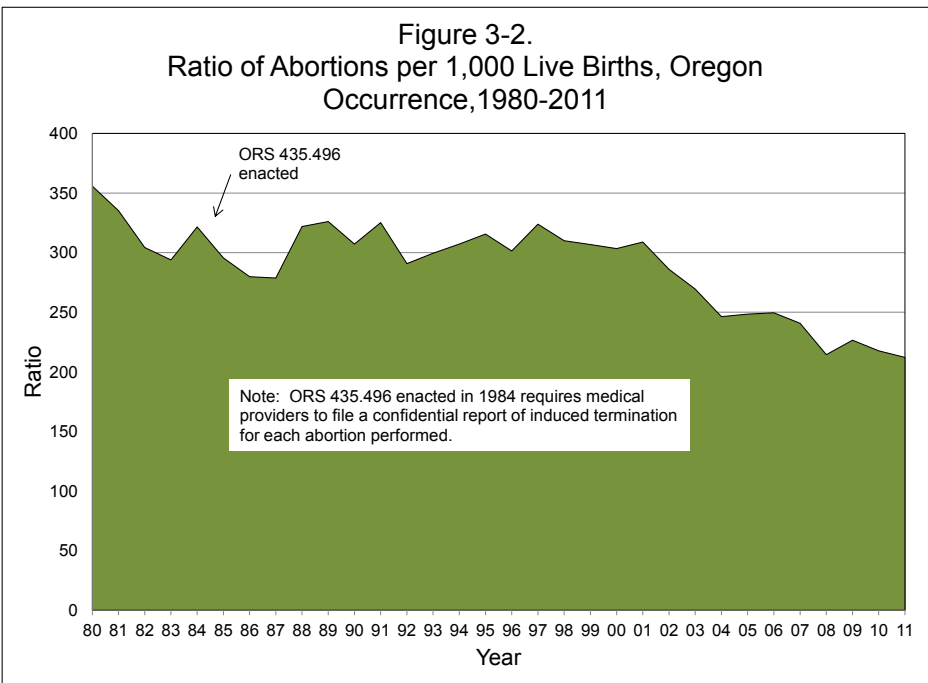


Table 3-A. Comparison of Oregon and U.S. Abortion Ratios, 1980-2008		
Year	U.S. Abortion Ratio ¹	Oregon's Abortion Ratio ² as Percent Difference from U.S.
1980	359	-1%
1985	354	-16%
1986	354	-21%
1987	356	-21%
1988	352	-9%
1989	346	-6%
1990	344	-11%
1991	338	-4%
1992	334	-13%
1993	333	-10%
1994	321	-4%
1995	311 ³	+2%
1996	315	-4%
1997	306	+6%
1998	264 ³	+17%
1999	256 ³	+12%
2000	245 ⁴	+24%
2001	246 ⁴	+25%
2002	246 ⁴	+16%
2003	241 ⁵	+12%
2004	238 ⁵	+3.5%
2005	233 ⁶	+6.6%
2006	236 ⁷	+5.7%
2007	231 ⁷	+4.2%
2008	*234 ⁷	-8.4%

¹ CDC. Abortion Surveillance - United States, 2008, MMWR, Nov.25, 2011; V60, No. SS-15.
² See Table 3-2
³ Alaska, California, New Hampshire, and Oklahoma did not report
⁴ Alaska, California, and New Hampshire did not report
⁵ California, New Hampshire and West Virginia did not report
⁶ California, Louisiana and New Hampshire did not report
⁷ California, Maryland and New Hampshire did not report
 * Most recent data available

15–44 to 16.0 per 1,000 in 2008, the most recent data available.¹ In 2011, the Oregon rate decreased to 12.5 per 1,000 women aged 15–44, a 4.6 percent decrease from 2010, and a 50.2 percent decrease from the record high seen in 1980 (25.1 per 1,000). During the past 20 years, Oregon’s abortion rate has generally declined — from a high of 21.4 in 1991, to the current low of 12.5 per 1,000 women aged 15–44.



Pregnancy outcomes

Figure 3-2 shows the ratio of abortions to births occurring in Oregon indicating the prevalence of unwanted pregnancies that occurred in the state. Both the highest abortion rate (number of abortions per 1,000 female population) and the highest ratio of abortions (number of abortions per 1,000 births) occurred in 1980. Between 1980 and 1987, the ratio of abortions to births declined, although an increased level of reporting beginning in 1984 (as a requirement of new legislation) obscures this fact.

In 2011, there were 212.0 abortions per 1,000 occurrence births. This represents a 2.6 percent decrease from 2010 and a 40.4 percent decrease from 1980 when this ratio was 355.8 per 1,000 births. (See Table 3-2.)

Oregon’s abortion ratio was about one-fifth higher than that of the U.S. in 1973, when the U.S. Supreme Court’s

decision in *Roe v. Wade* legalized abortion. (See sidebar 3-A, page 3-2.) In the mid-1980s and early 1990s this changed: The rate at which Oregonians terminated pregnancy with an induced abortion was less than the U.S. as a whole. Since 1995 however, Oregon’s abortion ratio has fluctuated around the U.S. ratio. The 2008 abortion ratio in Oregon was slightly lower than the 2008 U.S. ratio (214.4 to 234), however, this difference is likely higher, due in part to some states not reporting (California, Maryland and New Hampshire).

Abortion patients

Similar to birth rates, abortion rates differ by age group, race, ethnicity, marital status and prior pregnancy. Nearly three-fourths of abortion patients have never been married (see Table 3-3), and more than half have previously given birth. (See Table 3-5.)

Age

There is wide variation in abortion rates among age groups (see sidebar 3-B): The highest rate in 2011 occurred among women aged 20–24 (24.4 per 1,000). The lowest rates were among women 45–49, (0.2 per 1,000) and women under age 15 (0.2 per 1,000). (See Figure 3-3, sidebar 3-B.)

The 2011 abortion rate among teens aged 10–17 was 82.5 percent lower than the rate in 1980 (when the statewide

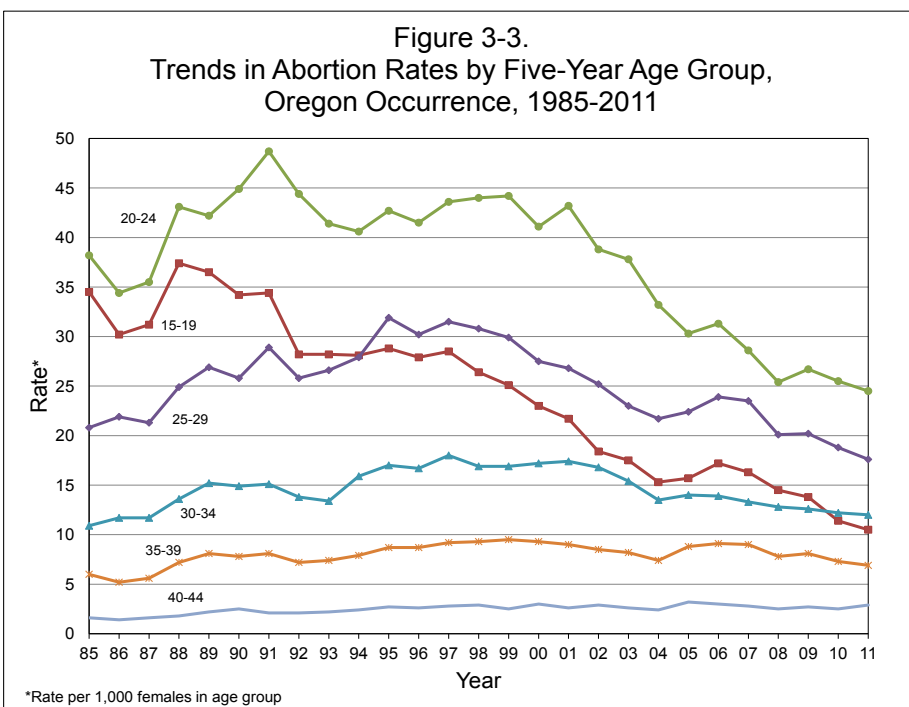
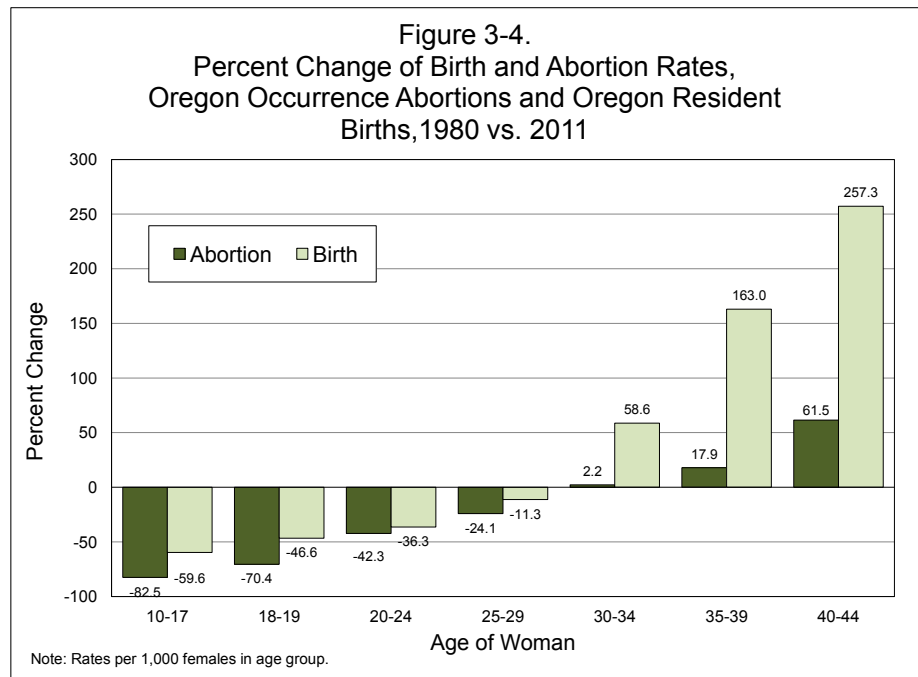


Table 3-B. Abortion Rates by Age and Percentage Distribution, Oregon Occurrence ¹ , 2011		
Age	Rate ²	%
<15	0.2	0.2
15-19	10.5	13.7
20-24	24.4	32.1
25-29	17.6	24.5
30-34	12.0	16.3
35-39	7.0	9.2
40-44	2.9	3.8
45-49	0.2	0.2
15-44	12.5	99.5

¹ Occurrence data include all abortions reported by providers located in Oregon, regardless of the patient's residence. Because rate calculations employ Oregon population figures, these calculations, in effect, substitute out-of-state residents for Oregonians who may have obtained an abortion in another state.

² Per 1,000 females in age group



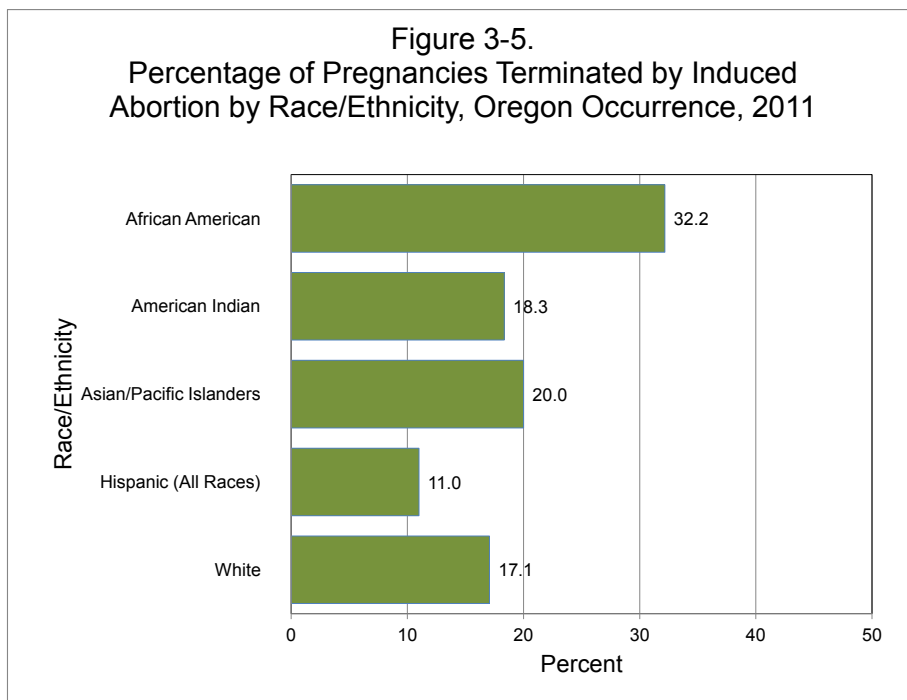
abortion rate was highest); the rate for 18- to 19-year-olds was 70.4 percent lower. (See Figure 3-4.) The absence of a corresponding increase in the birth rates among teens suggests success in avoiding unwanted pregnancy, rather than an increase in decisions to carry unwanted pregnancies to term. In contrast, among women age 35 and older, both abortion rates and birth rates were markedly higher in 2011 than in 1980.

Race and ethnicity

Beginning in 2008, collection of race and ethnicity data on Oregon birth certificates changed to obtain more precise information about an individual's race and Hispanic ethnicity. In prior years, only one race category could be selected. Now multiple race and ethnicity categories may be chosen. For this reason, current pregnancy data (births and abortions) by race/ethnicity are not directly comparable to previous years.

The frequency with which abortion procedures were used to terminate pregnancies varied among ethnic and racial groups. African American and Asian/Pacific Islander women had the highest percentages of terminated pregnancies in 2011 with 32.2 and 20.0 percent respectively. Because Oregon's demographic composition is predominantly White, White women obtained the majority of abortions by count in 2011, but had only the fourth highest percentage

of terminations overall, 46.9 percent lower than African American women. American Indian women accounted for the smallest abortion count; however, 18.3 percent of their pregnancies were terminated. Non-Hispanic White women followed at 17.1 percent. The lowest percentage of terminated pregnancies was women of Hispanic ethnicity who terminated 11.0 percent of pregnancies in 2011. (See Figure 3-5.)



Contraceptive use

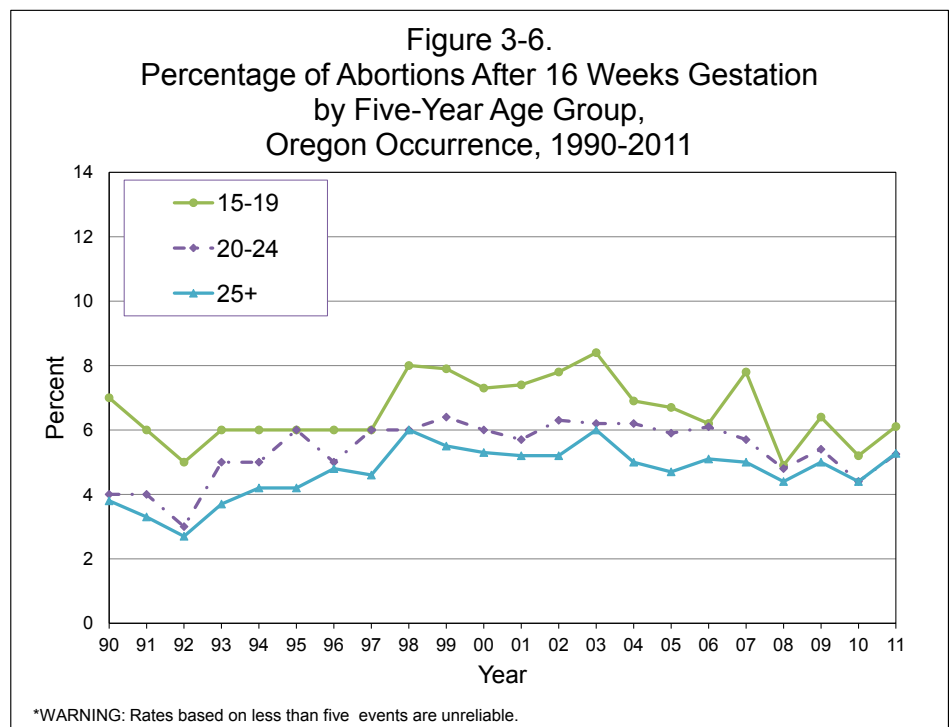
In the majority of abortions that occur in Oregon, the pregnancy is not a result of contraceptive failure. In 2011, based upon data obtained from abortion reports, 28.7 percent of women used some method of contraception to avoid pregnancy. (See Table 3-5.) Of the 71.3 percent of abortion patients who did not report using contraceptives, 40.5 percent had previously obtained an abortion.

Medical procedures

More than 87.7 percent of abortions with known gestation were performed prior to the 13th week of pregnancy. About one in nearly 20 (5.4%) induced terminations where gestation was known were performed after 16 weeks. Suction curettage was the procedure used in 51.7 percent of terminations prior to the 13th week where method was reported. Dilation and evacuation was the procedure in 86.1

percent of terminations occurring after 16 weeks gestation. Women less than 20 obtained 18.3 percent more abortions after 16 weeks gestation than women aged 20 and older. (See Table 3-4.) The percentage of abortions occurring after 16 weeks gestation increased slightly for women in all age groups in 2011. (See Figure 3-6)

Complications at the time of the induced termination procedure were reported for 268 terminations (3.9 % of abortion patients). Retained products (116 patients) and failure of first method (39 patients) were the most common complications. In Oregon, no woman has died as the result of a legally induced termination.



Geographic distribution

Abortion rates varied widely within Oregon with 35 of 36 counties reporting at least one resident who obtained an abortion in 2011. Service providers, conversely, were geographically concentrated. In 2011, abortions were reported in eight counties. The concentration was evident in the fact that 94.9 percent of all abortions were obtained in the five counties of highest occurrence: Jackson, Lane, Marion, Multnomah and Washington. (See Table 3-7.) Although abortions often may be sought outside a patient's community to help ensure anonymity, this degree of

concentration suggests that access to abortion services may be limited for some Oregon women.

Endnote

1. CDC. Abortion Surveillance - United States, 2008, MMWR, Nov.25, 2011; V60, No. SS-15.

TABLE 3-1. Number, Rate, and Percent Change for Pregnancies, Births, and Abortions to 15- to 44-year-olds, Oregon, 1980-2011

Year	Pregnancies ¹			Births ²			Abortions ³				
	No.	Rate	% Change in Rate from Previous Year	No.	Rate	% Change in Rate from Previous Year	No.	Rate	% Change in Rate from Previous Year	% of Pregnancies Ending in Abortion	% Change in Percent from Previous Year
1980	58,592	94.4	1.6	43,007	69.3	0.3	15,585	25.1	5.3	26.6	3.7
1985	51,287	81.1	-2.9	39,364	62.2	-1.0	11,923	18.8	-9.1	23.2	-6.5
1990	56,315	85.8	1.3	42,741	65.2	3.0	13,754	20.7	-3.0	24.1	-4.4
1995	56,521	82.8	2.7	42,568	62.4	2.1	13,953	20.4	4.6	24.7	2.1
1996	57,175	83.1	0.4	43,515	63.2	1.3	13,660	19.9	-2.5	24.4	-1.2
1997	58,106	84.0	3.1	43,619	63.0	-0.3	14,487	20.9	5.0	24.9	2.0
1998	59,284	84.5	0.6	45,075	64.2	1.9	14,209	20.3	-2.9	24.0	-3.6
1999	59,067	84.2	-0.4	45,039	64.2	0.0	14,028	20.0	-1.5	23.7	-1.3
2000	59,758	82.4	-2.1	45,654	62.9	-2.0	14,104	19.4	-3.0	23.6	-0.4
2001	59,348	81.0	-1.7	45,177	61.6	-2.1	14,171	19.3	-0.5	23.9	1.3
2002	58,172	78.6	-3.0	45,071	60.9	-1.1	13,101	17.7	-8.3	22.5	-5.9
2003	58,337	77.9	-0.9	45,799	61.2	0.5	12,538	16.7	-5.6	21.5	-4.4
2004	56,865	74.9	-3.9	45,508	60.0	-2.0	11,357	15.0	-10.2	20.0	-7.0
2005	57,271	77.9	4.0	45,776	62.2	3.7	11,495	15.6	4.0	20.1	0.5
2006	60,678	81.9	5.1	48,539	65.5	5.3	12,139	16.4	5.1	20.0	-0.5
2007	60,885	81.7	-0.2	49,211	66.0	0.8	11,674	15.7	-4.3	19.2	-4.2
2008	59,496	78.4	-4.0	48,999	64.6	-2.2	10,497	13.8	-11.6	17.6	-8.0
2009	57,804	76.1	-2.9	47,070	62.0	-4.0	10,734	14.1	2.2	18.6	5.3
2010	55,395	73.1	-4.0	45,479	60.0	-3.2	9,916	13.1	-7.5	17.9	-3.6
2011	54,562	71.8	-1.8	45,040	59.3	-1.2	9,522	12.5	-4.6	17.5	-2.2

¹ Pregnancies include resident births and occurrence abortions, but exclude fetal deaths and spontaneous abortions.

² Oregon residence, figures for births (includes 15-44 year-old females only).

³ Oregon occurrence, figures for abortions (includes 15-44 and unknown age females).

Note: ORS 435.496 was implemented in 1984, requiring all providers of abortion to file a report of induced termination of pregnancy for each abortion performed. Rates per 1,000 females 15-44 years of age. 2011 population estimate: 760,012.

**Table 3-2. Live Births and Induced Abortions
Occurring in Oregon, 1970-2011**

Year	Births	Induced Abortions	
		Number	Ratio
1970	36,031	7,187	199.5
1975	34,312	10,641	310.1
1976	35,612	12,590	353.5
1977	38,448	13,163	342.4
1978	40,015	13,605	340.0
1979	42,874	14,501	338.2
1980	44,223	*15,735	355.8
1981	44,150	14,799	335.2
1982	42,093	12,807	304.3
1983	41,047	12,064	293.9
1984	40,841	**13,133	321.6
1985	40,778	12,056	295.6
1986	40,093	11,217	279.8
1987	39,996	11,147	278.7
1988	41,345	13,309	321.9
1989	42,710	13,928	326.1
1990	44,464	13,658	307.2
1991	44,007	14,310	325.2
1992	43,627	12,685	290.8
1993	43,272	12,961	299.5
1994	43,591	13,392	307.2
1995	44,609	14,079	315.6
1996	45,677	13,767	301.4
1997	45,117	14,612	323.9
1998	46,277	14,344	310.0
1999	46,106	14,145	306.8
2000	46,790	14,194	303.4
2001	46,200	14,272	308.9
2002	46,053	13,172	286.0
2003	46,844	12,622	269.4
2004	46,453	11,443	246.3
2005	46,715	11,602	248.4
2006	49,089	12,246	249.5
2007	49,373	11,883	240.7
2008	49,492	10,610	214.4
2009	47,685	10,801	226.5
2010	45,904	9,990	217.6
2011	45,136	9,567	212.0

* The increase in the 1980 total reflects improved reporting rather than an increase in the number of abortions performed. Approximately 1,000-1,400 of the abortions were performed by providers who did not participate in the voluntary abortion reporting system prior to 1980 even though they performed abortions in previous years.

**The increase in the 1984 total is probably a consequence of the implementation of ORS 435.496, which requires that an induced termination of pregnancy report be filed by abortion providers whenever an induced abortion is performed.

NOTE: Induced abortion ratio is the number of abortions per 1,000 live births.

TABLE 3-3. Induced Abortions by Race/Ethnicity, Marital Status and Age, Oregon Occurrence, 2011

Race/Ethnicity and Marital Status	Total	Age Groups								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	9,567	23	1,300	3,047	2,327	1,548	874	361	22	65
White	8,027	19	1,090	2,574	1,972	1,294	713	300	18	47
African American	635	4	102	233	145	103	36	8	–	4
American Indian	324	2	54	101	74	45	35	7	1	5
Chinese	76	–	7	24	19	8	6	9	1	2
Japanese	25	–	4	3	7	2	4	4	1	–
Hawaiian	40	–	6	16	7	6	2	3	–	–
Filipino	28	–	6	10	6	1	4	–	–	1
Other Asian/Pacific Islander ...	307	–	29	76	75	67	42	15	1	2
Other Non-white	16	–	4	5	5	2	–	–	–	–
Unknown	298	–	54	88	59	45	34	12	1	5
Hispanic	1,078	5	202	347	222	160	91	36	2	13
White	838	5	151	272	177	122	73	31	1	6
African American	38	–	9	18	3	6	1	–	–	1
American Indian	54	–	7	18	13	8	7	–	–	1
Chinese	–	–	–	–	–	–	–	–	–	–
Japanese	–	–	–	–	–	–	–	–	–	–
Hawaiian	3	–	–	1	1	–	1	–	–	–
Filipino	3	–	1	1	–	–	–	–	–	1
Other Asian/Pacific Islander	5	–	–	2	1	2	–	–	–	–
Other Non-white	7	–	3	–	3	1	–	–	–	–
Unknown	158	–	35	46	31	22	14	5	1	4
Non-Hispanic	8,388	18	1,083	2,667	2,082	1,379	771	318	20	50
White	7,129	14	928	2,283	1,781	1,166	636	265	17	39
African American	588	4	92	211	139	96	35	8	–	3
American Indian	263	2	45	81	60	36	28	6	1	4
Chinese	75	–	7	23	19	8	6	9	1	2
Japanese	25	–	4	3	7	2	4	4	1	–
Hawaiian	36	–	6	14	6	6	1	3	–	–
Filipino	25	–	5	9	6	1	4	–	–	–
Other Asian/Pacific Islander	296	–	29	73	73	64	40	14	1	2
Other Non-white	8	–	1	5	1	1	–	–	–	–
Unknown	121	–	16	36	25	22	15	6	–	1
Ethnicity Unknown	97	0	15	31	22	9	11	7	0	2
Marital Status										
Never Married	6,408	21	1,180	2,505	1,571	730	281	88	4	28
Now Married	1,313	1	23	194	318	353	275	124	12	13
Widowed	30	–	1	4	7	5	6	6	–	1
Divorced	730	–	1	59	160	229	182	88	5	6
Separated	417	–	10	69	109	115	84	27	1	2
Unknown	669	1	85	216	162	116	46	28	–	15

– Quantity is zero.

NOTE: Persons may report multiple races, therefore the subsets may not add to the category totals.

TABLE 3-4. Abortions in Relation to Length of Gestation by Method, Complications, and Age of Patient, Oregon Occurrence, 2011

Method, Complications and Age of Patient	Total	Weeks Gestation						
		< 9	9-12	13-16	17-20	21-22	23+	Unk.
Total	9,567	6,184	1,952	640	336	89	73	293
Suction Curette	4,673	2,741	1,459	252	23	4	1	193
Medical (Non-surgical)	2,325	2,168	65	5	5	1	10	71
Dilation & Evacuation	2,478	1,230	420	377	295	76	56	24
Intra-uterine Instillation	1	–	1	–	–	–	–	–
Vaginal Prostaglandin	25	1	–	2	9	7	5	1
Sharp Curettage	1	1	–	–	–	–	–	–
Other	43	37	–	1	3	1	–	1
Unknown	21	6	7	3	1	–	1	3
Complications								
None	6,692	3,871	1,647	540	284	70	61	219
Hemorrhage	13	9	2	–	–	–	–	2
Infection	23	19	2	–	–	–	–	2
Cervical Laceration	1	–	1	–	–	–	–	–
Retained Products	116	88	14	11	1	–	–	2
Failure of First Method	39	32	5	–	–	–	–	2
Other	59	38	12	2	1	1	1	4
Multiple Complications	17	13	–	1	1	–	1	1
Age Groups								
< 15	23	10	7	3	1	1	1	–
15-19	1,300	796	274	114	56	11	10	39
20-24	3,047	1,913	684	218	101	28	27	76
25-29	2,327	1,529	469	139	80	21	18	71
30-34	1,548	1,044	283	88	61	16	9	47
35-39	874	584	159	53	26	12	5	35
40-44	361	253	65	18	11	–	3	11
45+	22	16	3	2	–	–	–	1
N.S.	65	39	8	5	–	–	–	13

– Quantity is zero.

TABLE 3-5. Contraceptive Use, Number of Previous Abortions, and Number of Living Children by Age of Patient, Oregon Occurrence, 2011

Contraceptive Used, Previous Abortions, and Number of Living Children	Total	Age Groups								
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	9,567	23	1,300	3,047	2,327	1,548	874	361	22	65
None Used	6,798	17	969	2,196	1,648	1,055	607	244	18	44
No Previous Abortion	3,997	16	818	1,463	835	447	270	116	9	23
One	1,542	1	120	457	433	294	162	60	5	10
Two	690	—	16	174	216	161	84	34	1	4
Three	266	—	7	54	79	76	37	10	2	1
Four or More	219	—	—	29	65	63	44	17	1	—
Pills Used	915	—	121	360	224	131	52	14	—	13
No Previous Abortion	516	—	98	222	112	53	21	6	—	4
One	240	—	19	89	64	40	18	4	—	6
Two	85	—	2	28	27	20	6	1	—	1
Three	39	—	1	12	11	8	5	2	—	—
Four or More	22	—	—	3	8	9	1	1	—	—
Condoms Used	1,375	6	180	371	338	265	140	68	4	3
No Previous Abortion	750	6	151	244	154	111	51	30	3	—
One	342	—	24	75	109	77	35	20	—	2
Two	153	—	3	28	48	38	24	11	—	1
Three	67	—	—	15	10	24	15	3	—	—
Four or More	45	—	—	6	14	11	11	2	1	—
Other Contraceptive	593	—	47	152	146	116	88	38	—	6
No Previous Abortion	292	—	35	92	63	48	35	16	—	3
One	172	—	9	40	51	31	27	12	—	2
Two	74	—	2	17	19	16	13	6	—	1
Three	29	—	1	2	9	9	6	2	—	—
Four or More	18	—	—	1	4	10	3	—	—	—
Contraceptive Use Unknown	39	—	9	10	3	9	4	2	—	2
No Previous Abortion	22	—	7	7	2	4	—	—	—	2
One	7	—	1	1	—	3	2	—	—	—
Two	3	—	—	1	—	1	1	—	—	—
Three	1	—	—	1	—	—	—	—	—	—
Four or More	1	—	—	—	1	—	—	—	—	—
Previous Abortions Unknown ...	2	—	—	—	—	1	—	—	—	1
Number of Living Children										
No Children	4,529	21	1,078	1,811	964	400	160	66	3	26
Total with Children	4,973	2	215	1,219	1,352	1,133	707	291	19	35
One	2,192	2	186	757	578	376	194	85	3	11
Two	1,709	—	26	360	505	429	256	112	7	14
Three	714	—	3	81	191	207	158	61	8	5
Four	251	—	—	18	59	86	62	21	1	4
Five or More	107	—	—	3	19	35	37	12	—	1

— Quantity is zero.

NOTE: Contraceptive totals include abortions where the number of previous abortions is unknown. Multiple contraceptive methods may be reported for a single patient.

TABLE 3-6. Induced Terminations of Pregnancy by Residence and Age Group of Patient, Oregon Occurrence, 2011

Place of Residence	Total	Age Groups								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	9,567	23	1,300	3,047	2,327	1,548	874	361	22	65
Baker	3	*	*	*	*	*	*	*	*	*
Benton	145	—	23	52	33	19	12	4	—	2
Clackamas	726	3	87	228	158	118	84	41	1	6
Clatsop	62	—	8	16	23	11	1	3	—	—
Columbia	87	—	11	29	18	16	9	4	—	—
Coos	90	1	21	27	25	9	3	3	1	—
Crook	15	—	4	4	5	2	—	—	—	—
Curry	18	—	3	5	5	3	1	—	—	1
Deschutes	341	—	59	106	65	56	27	15	1	12
Douglas	160	—	36	52	40	16	11	3	1	1
Gilliam	1	*	*	*	*	*	*	*	*	*
Grant	6	*	*	*	*	*	*	*	*	*
Harney	8	*	*	*	*	*	*	*	*	*
Hood River	38	—	—	16	11	4	4	3	—	—
Jackson	458	—	64	142	126	73	29	19	—	5
Jefferson	36	1	5	11	11	5	1	1	—	1
Josephine	167	—	33	46	36	27	23	1	—	1
Klamath	113	—	24	40	21	14	11	2	—	1
Lake	12	—	—	6	2	2	—	1	1	—
Lane	838	4	115	288	208	131	62	27	—	3
Lincoln	76	—	13	21	19	12	9	2	—	—
Linn	162	—	22	59	37	22	13	7	—	2
Malheur	6	*	*	*	*	*	*	*	*	*
Marion	682	2	120	239	140	95	52	29	2	3
Morrow	4	*	*	*	*	*	*	*	*	*
Multnomah	2,873	8	288	905	775	482	284	109	7	15
Polk	82	—	12	31	19	13	4	3	—	—
Sherman	4	*	*	*	*	*	*	*	*	*
Tillamook	38	—	9	8	8	6	5	2	—	—
Umatilla	26	—	7	4	9	2	3	1	—	—
Union	15	—	1	6	5	2	1	—	—	—
Wallowa	2	*	*	*	*	*	*	*	*	*
Wasco	36	—	8	13	9	3	3	—	—	—
Washington	1,107	—	142	343	266	200	106	39	7	4
Wheeler	—	—	—	—	—	—	—	—	—	—
Yamhill	164	1	36	50	30	27	12	6	1	1
Out of State	935	3	137	284	210	166	98	35	—	2
Not Stated	31	—	3	7	8	4	4	1	—	4

— Quantity is zero.

* Detailed reporting of small numbers may breach confidentiality.

TABLE 3-7. Induced Terminations of Pregnancy by County of Residence and County of Occurrence, Oregon, 2011

County of Residence	Total	County of Occurrence							
		Benton	Desc-hutes	Jack-son	Lane	Mar-ion	Mult-no-mah	Wash-ington	Yam-hill
Total	9,567	19	377	653	1,323	707	6,042	357	73
Baker	3	*	*	*	*	*	*	*	*
Benton	145	12	—	—	60	34	33	4	2
Clackamas ..	726	—	—	—	8	15	680	20	1
Clatsop	62	—	—	—	3	—	58	1	—
Columbia	87	—	—	—	2	1	75	9	—
Coos	90	—	—	1	78	1	10	—	—
Crook	15	—	12	—	—	—	3	—	—
Curry	18	—	1	10	7	—	—	—	—
Deschutes ...	341	—	299	1	7	7	25	2	—
Douglas	160	—	—	7	141	2	10	—	—
Gilliam	1	*	*	*	*	*	*	*	*
Grant	6	*	*	*	*	*	*	*	*
Harney	8	*	*	*	*	*	*	*	*
Hood River ..	38	—	—	—	—	—	38	—	—
Jackson	458	—	1	389	56	1	11	—	—
Jefferson	36	—	24	1	—	—	11	—	—
Josephine ...	167	—	—	134	25	1	7	—	—
Klamath	113	—	10	75	22	1	5	—	—
Lake	12	—	6	1	3	—	2	—	—
Lane	838	—	—	3	779	9	41	5	1
Lincoln	76	2	—	—	16	22	30	2	4
Linn	162	4	—	—	49	60	43	2	4
Malheur	6	*	*	*	*	*	*	*	*
Marion	682	1	2	—	7	413	229	9	21
Morrow	4	*	*	*	*	*	*	*	*
Multnomah ..	2,873	—	2	2	7	13	2,792	48	2
Polk	82	—	—	—	3	58	15	1	5
Sherman	4	*	*	*	*	*	*	*	*
Tillamook	38	—	—	—	3	2	27	6	—
Umatilla	26	—	1	—	—	—	24	1	—
Union	15	—	1	—	—	1	13	—	—
Wallowa	2	*	*	*	*	*	*	*	*
Wasco	36	—	—	—	—	—	36	—	—
Washington	1,107	—	1	—	23	15	827	236	2
Wheeler	—	—	—	—	—	—	—	—	—
Yamhill	164	—	—	—	3	45	80	4	31
Out of State	935	—	4	21	19	5	877	7	—
Not Stated ...	31	—	1	8	2	1	19	—	—

— Quantity is zero.

* Detailed reporting of small numbers may breach confidentiality.

SECTION 4: TEEN PREGNANCY

Teen Pregnancy

Introduction

In 2011, 4,391 pregnancies occurred among Oregon females under the age of 20. Forty-two pregnancies occurred among females under age 15. Twenty girls aged 10–14 gave birth during 2011, 7 fewer than the previous year. (See Table 4-2.) The youngest female to give birth was 13, and the youngest female to obtain an abortion was 13.

Due to differences in risk and severity of outcomes, this report bases its analysis on two separate age groups to aid in understanding teen pregnancy trends: females aged 15–17 and females aged 18–19. These two groups are compared to each other and to women aged 20 and older. The number of pregnancies is determined by adding the numbers of births and abortions reported for Oregon residents. Because some neighboring states (e.g., California) do not exchange abortion reports with Oregon, those who obtain an out-of-state abortion are not always included in this count. (See Appendix B.)

Pregnancy rates for Oregonians ages 15 to 17 decreased by 8.1% from 2010.

Oregon females 15 to 17

Efforts to prevent teen pregnancies focus primarily on females aged 15–17. During 2011, 1,243 pregnancies were recorded for Oregon females aged 15–17, 163 fewer than

Figure 4-1.
Teen Pregnancy Rates,
Oregon Residents Age 15-17, 1985-2011

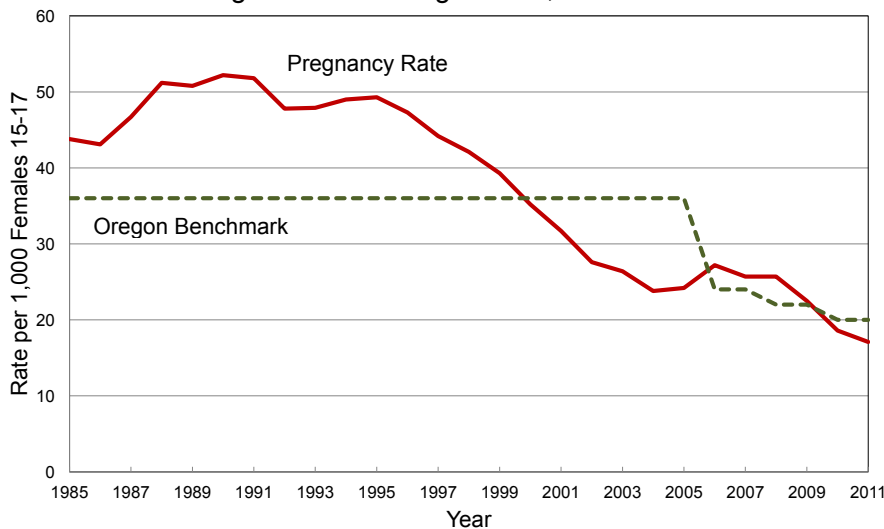


Table 4-A. Oregon Benchmark Teen Pregnancy Rates 15-17	
Year 2015 Goal: 18.0	
Year	Rate
1980	59.3
1985	43.8
1990	52.2
1991	51.8
1992	47.8
1993	47.9
1994	49.0
1995	49.3
1996	47.3
1997	44.2
1998	42.1
1999	39.3
2000	35.2
2001	31.7
2002	27.6
2003	26.4
2004	23.8
2005	24.2
2006	27.2
2007	25.7
2008	25.7
2009	22.5
2010	18.6
2011	17.1

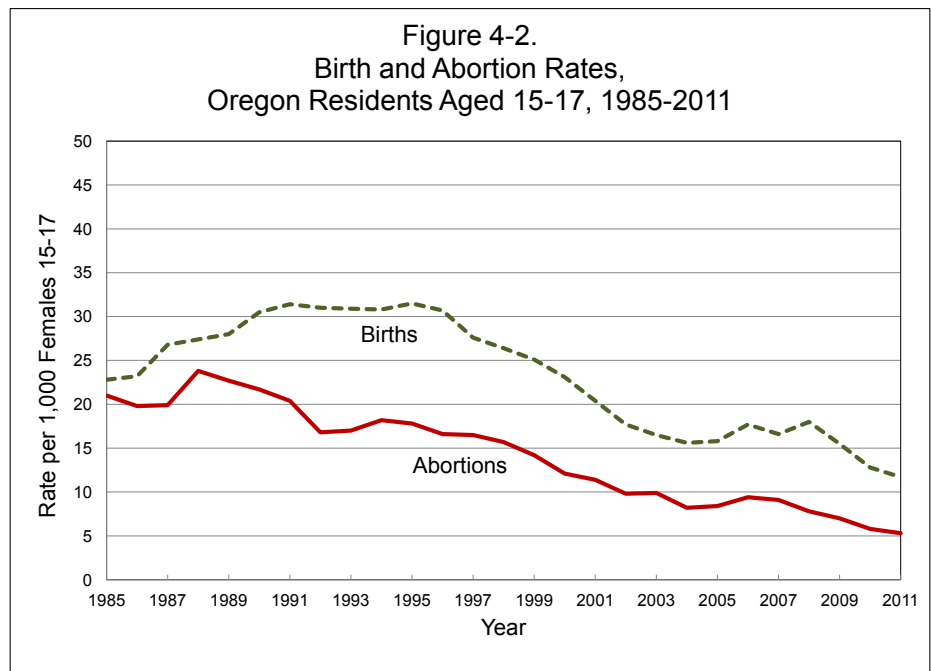
Pregnancy rate per 1,000 Oregon resident females ages 15-17.

in 2010. (See Table 4-1.) In 2011, the statewide pregnancy rate among women aged 15–17 decreased 8.1 percent from 18.6 in 2010 to a current low of 17.1. (See Table 4-1.) Historically, the teen pregnancy rate has trended downward and the 2011 rate is 51.4 percent lower than it was in 2000. Pregnancy rates for teens aged 15–17 varied by county. Eight counties had rates significantly different than the state rate. (See Table 4-3.) The 2011 rate for teens 15–17 was 5.0 percent below the Oregon Benchmark goal for the year 2015 of 18 pregnancies per 1,000 females. (See Figure 4-1, page 4-1.)

Births to teens 15 to 17

There were 852 births to Oregon teens aged 15–17 in 2011. More than 68.5 percent of the pregnancies among teens aged 15–17 resulted in a live birth, compared to 46.0 percent in 1980. (Table 4-1.) It was the mother’s first child in 93.7 percent of these births. (See Table 4-9.) The birth rate for females aged 15–17 was 11.7 per 1,000 females, a decrease of 8.6 percent from the previous year. Of these, 84.3 percent had neither completed high school nor obtained a general equivalency diploma (GED). Among those who took their pregnancies to term, 94.7 percent were unmarried at the time of birth. (See Table 4-10.)

Figure 4-2.
Birth and Abortion Rates,
Oregon Residents Aged 15-17, 1985-2011

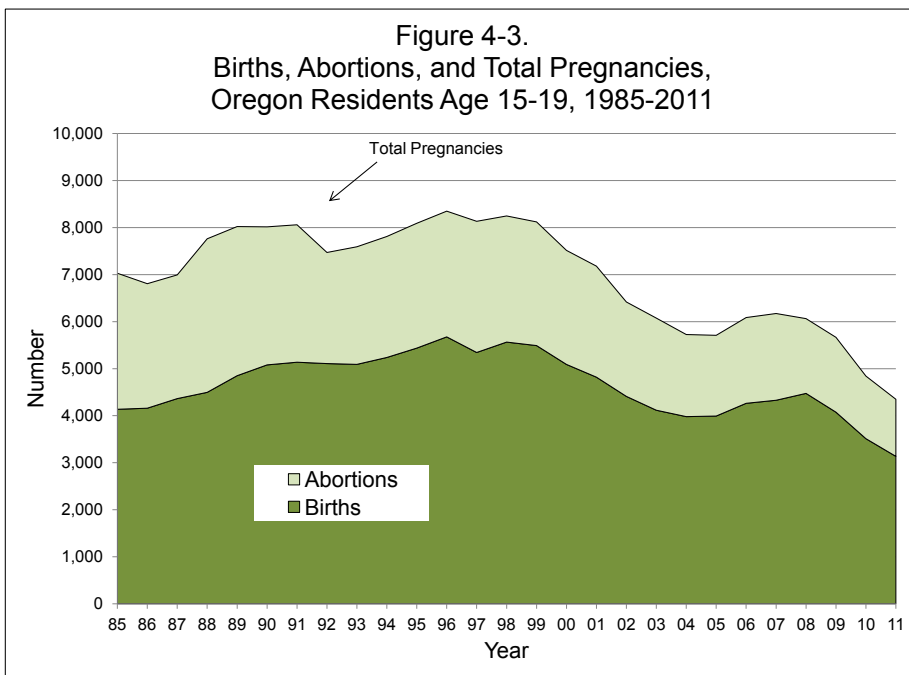


Abortion rates among teens 15 to 17

Abortion rates among teens decreased 8.6 percent from 2010. For females aged 15–17, the abortion rate was historically low in 2011 at 5.3 per 1,000. (See Table 4-5, Figure 4-2.) There were 391 abortions among Oregon females aged 15–17 reported during 2011, 46 fewer abortions than in 2010. Since the record high abortion rate recorded in 1980, the rate for females aged 15–17 has decreased by more than 83.4 percent (from 31.9 to 5.3 per 1,000 females).

Abortion rates for teens age 15 to 17 decreased 8.6% from 2010

Figure 4-3 and Figure 4-4 present historical pregnancy outcomes (birth and abortion). As Figure 4-4 indicates, a higher percentage of teen pregnancies were carried to term in recent years than in 1985. Since 1985, the younger the teen, the higher the percentage of terminated pregnancies. However, even among teens under 15, 40.6 percent of the pregnancies resulted in a live birth in 2011. (See Table 4-2, Figure 4-4.)

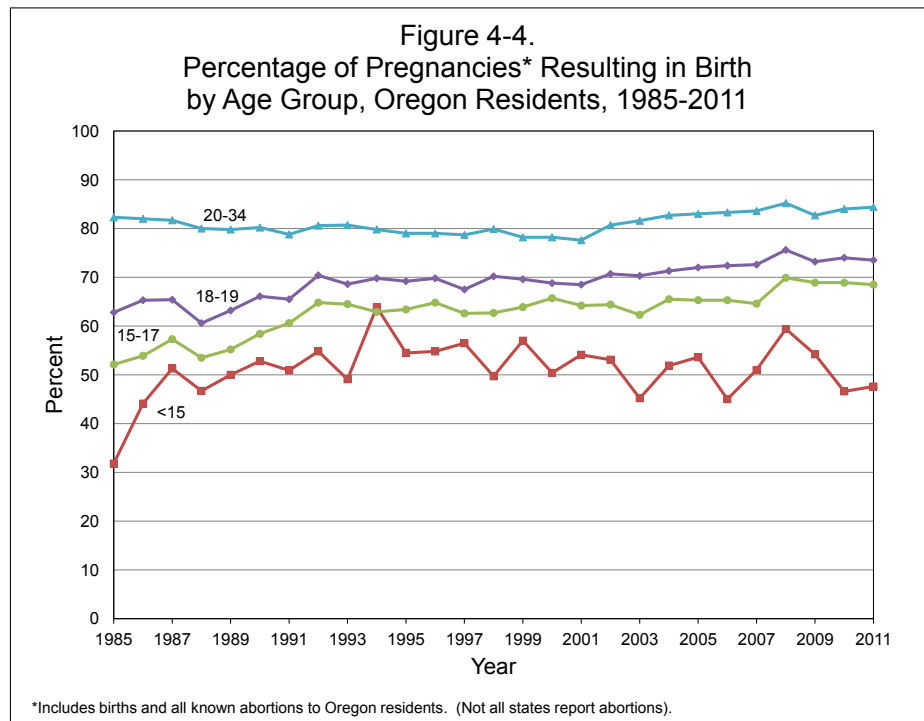


Birth rates for teens age 18 to 19 decreased by 12.0% from 2010

Oregon females 18 to 19

In 2011, the pregnancy rate for Oregonians aged 18–19 was 60.9 per 1,000 females, an 11.5 percent decrease from 2010. Comparisons with the 2010 figures show a decrease in the birth rate (12.0 %), while the abortion rate decreased 10.1 percent among women aged 18–19. (See Table 4-1.)

Of the 3,106 pregnancies among women aged 18–19, 73.5 percent (2,283) resulted in a live birth. (See Figure 4-4.) It was the first child for 80.3 percent of this group.



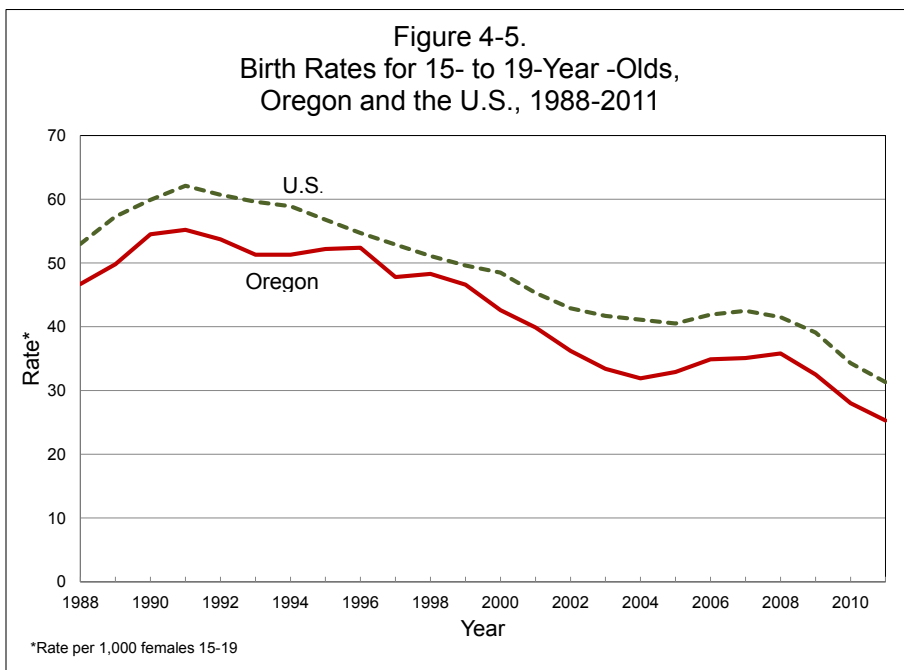
Oregon vs. U.S. birth rates

In Oregon, the birth rate among 15- to 19-year-olds (commonly used in historical and national comparisons) decreased 9.6 percent in 2011 (25.3 vs. 28.0 per 1,000 females in 2010). (See Table 4-1.) The 2011 rate was 54.2 percent lower than the 1991 rate of 55.2 per 1,000, which is the highest rate recorded during the past quarter century. (See Figure 4-5.)

Age	Oregon		U.S.
	2011	2010	2011
15-17	11.7	12.8	15.4
18-19	44.8	50.9	54.1
15-19	25.3	28.0	31.3

¹ All rates per 1,000 females.

Oregon’s 2011 birth rate for 15- to 19-year-old teens was 19.2 percent below the national rate (25.3 vs. 31.3 per 1,000 females; see sidebar 4-B). Oregon’s lower teen birth rate may be attributable to the state’s demographic characteristics. Historically, African American and Hispanic populations



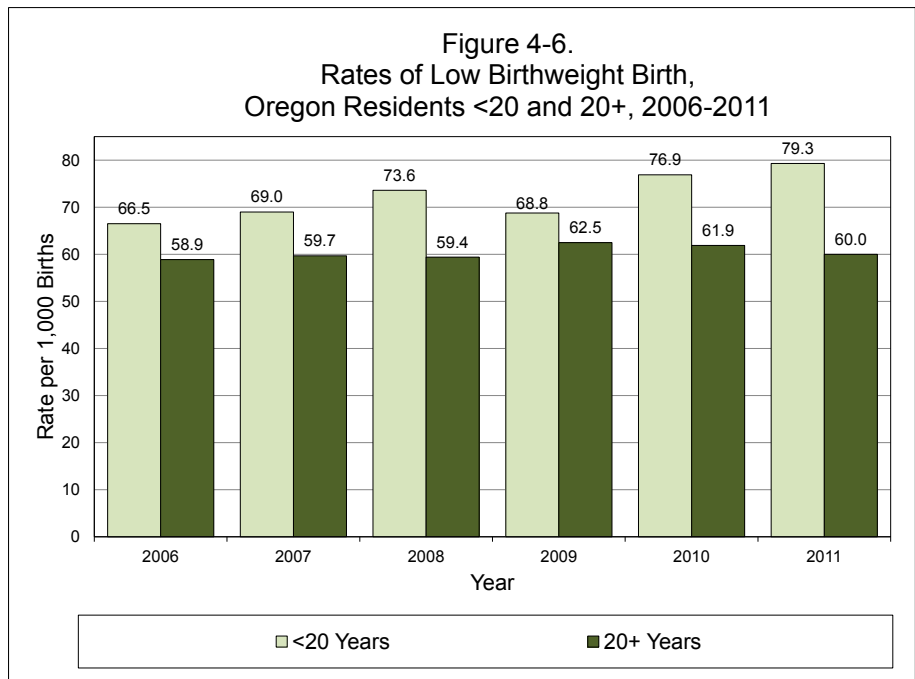
have had higher teen birth rates. Oregon's diversity is increasing. Between the 1990 and the 2000 census, the proportion of Hispanic residents doubled from 4 percent to 8 percent while the proportion of racial minorities was relatively unchanged.¹ Nevertheless, during this period, Oregon's teen pregnancy rate for 15- to 19-year-olds fell from 86.0 per 1,000 females in 1990 to 35.1 in 2011, a 59.2 percent decrease. (See Table 4-1.) (For further discussion of Oregon's demographic characteristics and teen pregnancy rates, see the Methodology section of Appendix B.)

Level of infant health

Low birthweight

The best single measure of newborn infant health is low birthweight rate, which is defined as less than 2,500 grams or 5.5 pounds. Low birthweight is closely related to premature delivery and small size for gestational age. Changes in the low birthweight rate for a group might indicate aggregate changes in the mother's personal behavior during pregnancy or it could indicate other conditions that affect fetal health, such as nutrition or access to prenatal care.

In 2011, the low birthweight rate for teen mothers aged 15–19 was 82.3 per 1,000 births (Table 4-7), a 6.2 percent increase from 2010. For 15- to 17-year-olds, the rate (79.8 per 1,000) decreased by 3.4 percent. The teen rate for low



birthweight remained higher than for mothers aged 20 and older (60.0 per 1,000). (See Table 2-29.) The difference in the low birthweight rates between teen and older mothers has increased in recent years. (See Figure 4-6.)

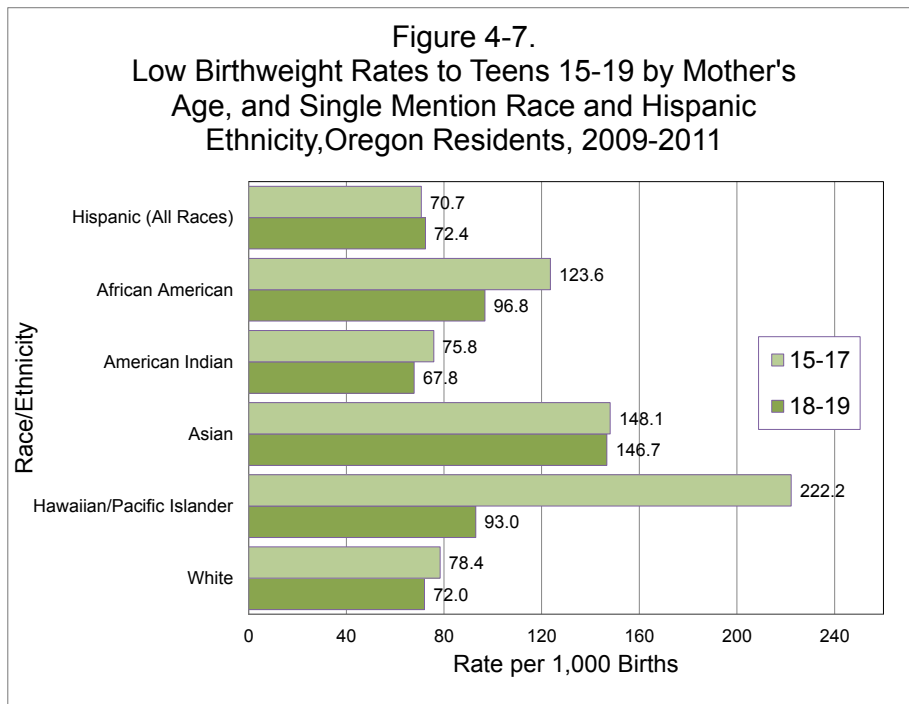
Race and ethnicity

Demographic factors such as race, ethnicity and marital status combine with age to influence the likelihood a teenager will receive early prenatal care. In 2011 for example, 49.9 percent of unmarried Hispanics aged 15–17 started prenatal care during their first trimester, compared to 68.0 percent of married non-Hispanic White women aged 18–19. (See Table 4-7.)

Low birthweight rates among teen mothers by racial/ethnic grouping are displayed in the sidebar and in Table 4-7. Between 2010 and 2011, the rate of low birthweight infants for Hispanic teens aged 15–17 increased by 16.9 percent. The low birthweight rate for Hispanic teens aged 18–19 during this same period increased by 20.0 percent. Among non-Hispanic, non-White groups, the low birthweight rate for teens aged 15–17 decreased by 55.4 percent, while the rate for 18- to 19-year-olds decreased by 14.2 percent. (See sidebar 4-C.)

Race/Ethnicity	Age	
	15-17	18-19
Rates		
Non-Hispanic White	79.2	77.4
Hispanic (All Races)	82.2	81.0
Non-Hispanic, Non-white	60.2	82.0
Percent Change, 2011 vs. 2010		
Non-Hispanic White	-3.1	2.1
Hispanic (All Races)	16.9	20.0
Non-Hispanic, Non-white	-55.4	-14.2

¹ All rates per 1,000 births



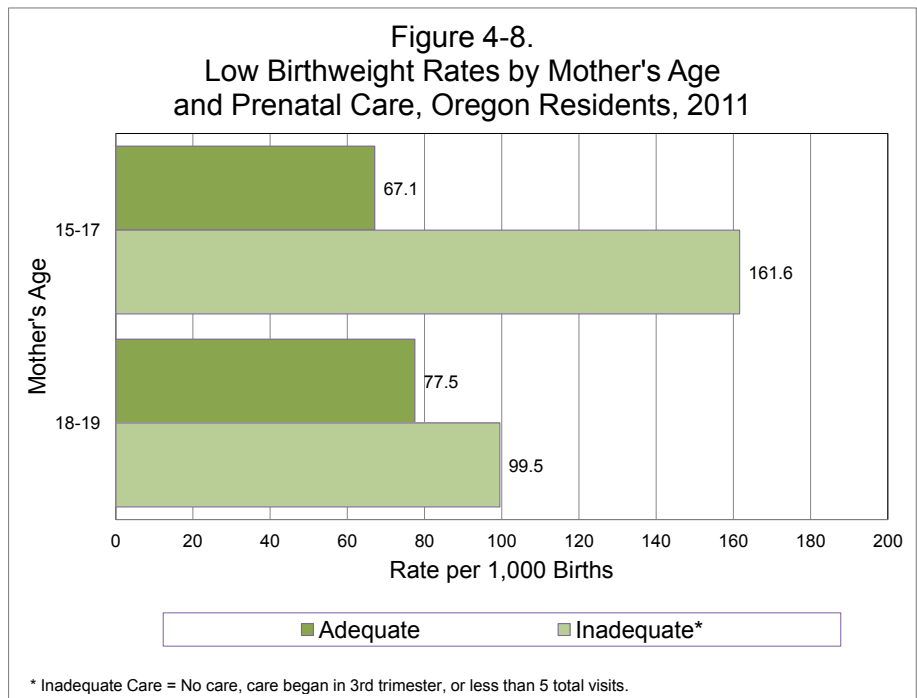
Prenatal care

Table 4-6 shows the association between inadequate prenatal care and frequency of low birthweight infants for teens who gave birth in 2011. Among mothers aged 15–19, those who received inadequate prenatal care had a greater number of low birthweight babies than those who had received adequate care (120.0 vs. 74.8 per 1,000 live births). Figure 4-8 shows low birthweight rates per 1,000 live births by adequate and inadequate prenatal care. For mothers 15–17, the rates were 67.1 vs. 161.6; for mothers 18–19, the rates were 77.5 vs. 99.5.

- **Early prenatal care**

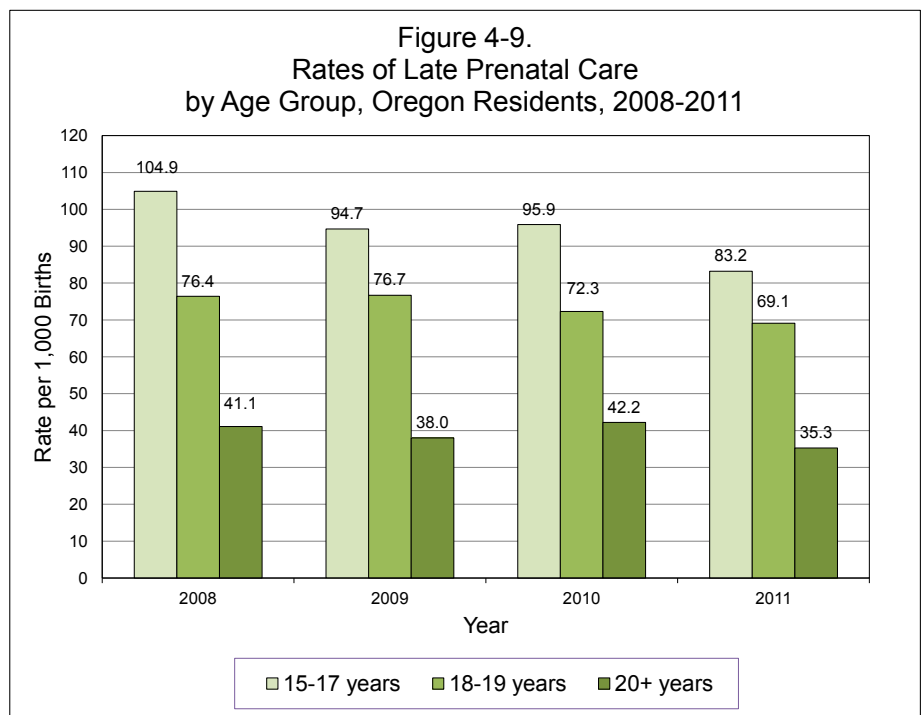
Prenatal care should begin within the first three months of pregnancy to allow early detection of complications and to ensure the health of both mother and infant. An Oregon Benchmark goal is 90 percent of pregnant women, regardless of age, will begin medical care during the first trimester of pregnancy by the year 2015. Teens are further from this goal than any other age group. In 2011, only 60.9 percent of teen mothers started prenatal care during the first trimester, compared to 76.1 percent for women aged 20 and older (see sidebar 4-D). Only 54.6 percent of those 15–17 received first trimester prenatal care, a slight increase from 54.1 percent in 2010. (See Table 4-10.)

Table 4-D. Oregon Benchmark: First Trimester Prenatal Care, 2011	
Year 2015 Goal: 90%	
All Women	75.1
All Teens	60.9
15-17 Years	54.6
18-19 Years	63.5
20+ Years	76.1



- Inadequate prenatal care**

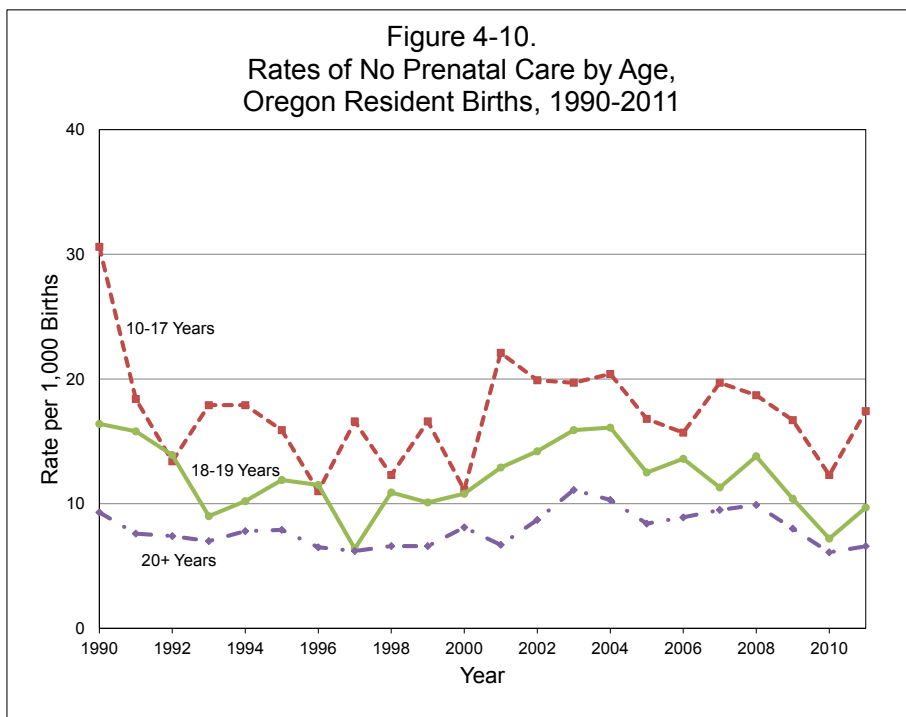
Inadequate prenatal care is defined as no prenatal care, care beginning after the second trimester of pregnancy or involving fewer than five prenatal visits. By this measure, 11.9 percent of 15- to 17-year-old teens and 9.0 percent of 18- to 19-year-old teens received inadequate prenatal care in 2011. This compares with



5.1 percent of women aged 20 or older who received inadequate care. (See Table 4-10.) The proportion of women under age 20 who received inadequate prenatal care increased by 3.5 percent in 2011, from 9.6 percent in 2010 to 9.9 percent.

- **Late care and no prenatal care**

From 2010 to 2011, the proportion of teens aged 15–17 who began prenatal care during the third trimester decreased 13.2 percent to 83.2 per 1,000 live births. (See Figure 4-9.) In 2011, a higher percentage of teens under age 18 went through pregnancy without a single visit to a medical provider than did older women. (See Figure 4-10.) The rate of no prenatal care among teens 15–17 is 16.6 per 1,000 live births, more than 2.5 times the rate of women aged 20 and older (6.6 per 1,000 live births). (See Table 4-10.)



Low Apgar score

The Apgar score recorded by the birth attendant five minutes after birth provides another measure of infant health at the time of delivery. A score of less than 7 is considered low and indicates an infant at greater than normal risk for morbidity and mortality. In 2011, the low five-minute Apgar rate for newborns of mothers aged 15–17 was 37.6 per 1,000 births (Table 4-9), a 10.1 percent increase from 2010 (34.2 per 1,000). The low five-minute Apgar rate for infants born to women under age 20 was 33.0 percent higher than the rate for infants born to women 20 years or older (35.6 compared to 26.7 per 1,000).

Substance use during pregnancy

Estimates of tobacco and alcohol use during pregnancy are presumed to be minimum counts due to underreporting on birth certificates. The legal age to purchase alcohol in Oregon is 21. The legal age to purchase tobacco products is 18. It is hoped that teen mothers are deterred by Oregon legal age limits placed on the purchase and/or possession of these substances.

Tobacco

The percentage of teens aged 15–19 who reported smoking during pregnancy in 2011 was nearly double the percentage reported by women aged 20 and older (17.8 % vs. 10.2 %). (See Table 4-9.) Women who smoked during pregnancy had a higher number of low birthweight babies than nonsmokers. Mothers aged 20 or older show the greatest difference between low birthweight rates by tobacco use (99.1 vs. 55.4 per 1,000 live births). This is due, in part, because the low birthweight rate for teen mothers is higher than for women aged 20 and older (see sidebar 4-E). Tobacco use remains one of the most important preventable causes of low birthweight infants for teen mothers.

Alcohol

Teens aged 15–19 were less likely to report the use of alcohol during pregnancy as were women aged 20 and older (6.9 per 1,000 births vs. 8.8 per 1,000 births).

	<20	20+
Nonsmokers	75.4	55.4
Smokers	95.3	99.1

¹ All Rates per 1,000 births

Source of payment

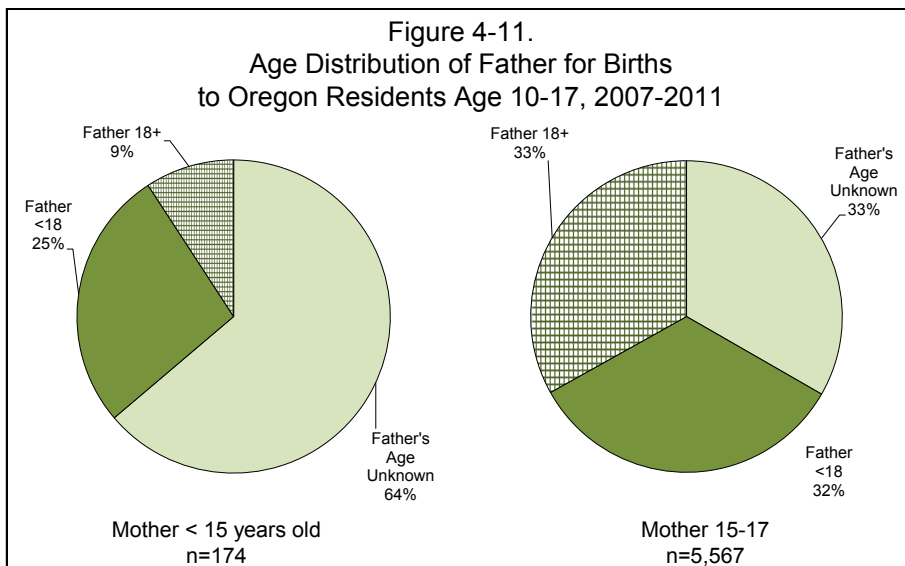
The percentage of teen mothers who utilized public funds to pay the costs associated with birth was nearly twice that of older mothers. In 2011, Medicaid/Oregon Health Plan paid for 77.0 percent of births to teens aged 15–19 and 43.2 percent of births to women aged 20 and older where payor source was reported. (See Table 4-10.)

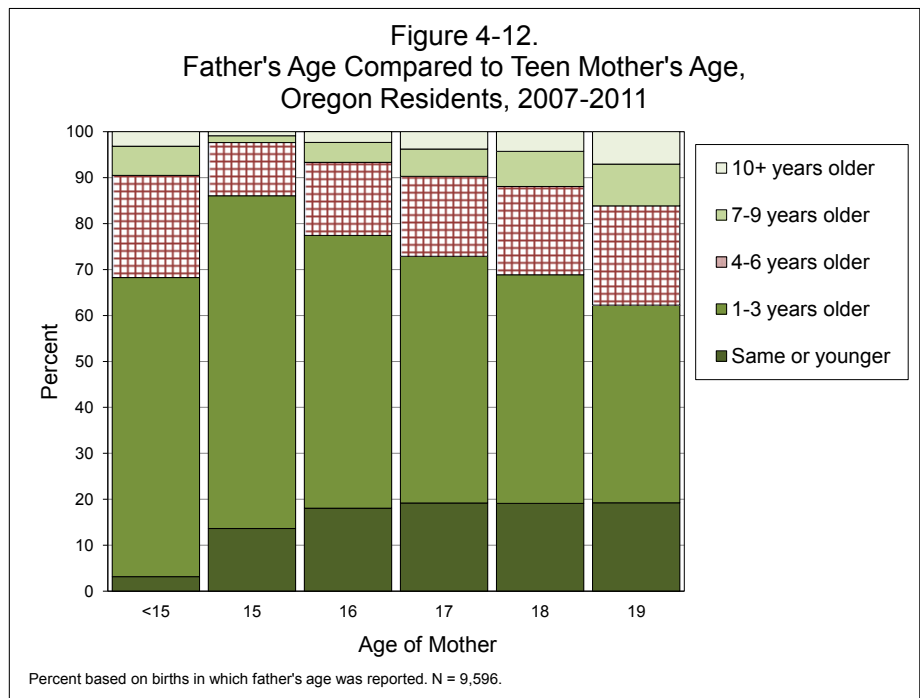
Medicaid/OHP paid for 77.1 percent of births to teens in 2011

Age of father

For the period 2007 to 2011, 33.3 percent of birth records for babies born to teens aged 15–17 did not indicate father’s age or the father was not identified on the birth certificate. (See Figure 4-11, Table 4-13.) Almost two-thirds (63.8 %) of the birth records where the mother was under age 15 did not list the father’s age. When the father’s age was reported for teen mothers under age 15, 74.6 percent were younger than age 18 and 25.4 percent were aged 18 or older. Birth records for mothers aged 15–17 report father’s age for 66.7 percent of births. Where the father’s age was reported, 29.2 percent of fathers were under age 18 and 70.8 percent were aged 18 or older.

For all teens, including the youngest mothers (aged less than 15 years), the father was more than six years older than the mother in 11.1 percent of the births for the 2007–2011 period where the father’s age was reported. The percentage of births to teen mothers where the father was more than six years older than the mother ranged from a low of 2.4





percent of births to 15-year-old mothers, to a high of 16.2 percent for 19-year-old teens. (See Figure 4-12.)

End note

1. Source: U.S. Census Bureau, Census 2000, Table DP-1.

TABLE 4-1. Oregon Pregnancies to Teens 15-19 Years, 1975-2011

Year	Pregnancies ¹						Births			
	15 to 17		18 to 19		15 to 19		15 to 17		18 to 19	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
1975	3,718	NA	5,135	NA	8,853	80.2	1,868	NA	3,338	NA
1980	3,844	59.3	6,576	141.9	10,420	93.8	1,775	27.4	3,883	83.8
1985	2,589	43.8	4,440	118.0	7,029	72.7	1,349	22.8	2,787	74.1
1986	2,536	43.1	4,271	108.3	6,807	69.2	1,368	23.2	2,791	70.8
1987	2,629	46.7	4,365	115.6	6,994	74.4	1,507	26.8	2,856	75.6
1988	2,893	51.2	4,869	122.2	7,762	80.6	1,547	27.4	2,949	74.0
1989	2,751	50.8	5,271	121.9	8,022	82.4	1,519	28.0	3,331	77.1
1990	2,842	52.2	5,174	133.4	8,016	86.0	1,660	30.5	3,420	88.2
1991	2,913	51.8	5,147	139.9	8,060	86.6	1,764	31.4	3,373	91.7
1992	2,756	47.8	4,715	125.9	7,471	78.6	1,787	31.0	3,321	88.6
1993	2,858	47.9	4,734	120.0	7,592	76.6	1,843	30.9	3,248	82.3
1994	3,031	49.0	4,780	118.6	7,811	76.5	1,905	30.8	3,333	82.7
1995	3,093	49.3	4,999	120.3	8,092	77.6	1,977	31.5	3,460	83.3
1996	3,108	47.3	5,242	122.9	8,350	77.1	2,015	30.7	3,661	85.8
1997	3,013	44.2	5,121	117.5	8,134	72.8	1,886	27.6	3,458	79.4
1998	2,985	42.1	5,263	118.5	8,248	71.5	1,872	26.4	3,693	83.2
1999	2,810	39.3	5,311	114.8	8,121	68.9	1,796	25.1	3,695	79.8
2000	2,522	35.2	4,993	104.4	7,515	62.9	1,656	23.1	3,434	71.8
2001	2,300	31.7	4,880	101.0	7,180	59.4	1,477	20.4	3,342	69.2
2002	2,031	27.6	4,387	90.8	6,418	52.6	1,307	17.7	3,103	64.2
2003	1,965	26.4	4,110	84.2	6,075	49.3	1,225	16.5	2,891	59.2
2004	1,791	23.8	3,935	79.5	5,726	45.8	1,173	15.6	2,807	56.7
2005	1,762	24.2	3,947	81.5	5,709	47.1	1,151	15.8	2,841	58.7
2006	1,996	27.2	4,091	83.8	6,087	49.8	1,303	17.7	2,960	60.6
2007	1,902	25.7	4,271	86.9	6,173	50.1	1,228	16.6	3,100	63.1
2008	1,931	25.7	4,133	82.6	6,064	48.5	1,349	18.0	3,125	62.5
2009	1,696	22.5	3,970	79.3	5,666	45.2	1,169	15.5	2,905	58.0
2010	1,406	18.6	3,436	68.8	4,842	38.6	969	12.8	2,542	50.9
2011	1,243	17.1	3,106	60.9	4,349	35.1	852	11.7	2,283	44.8

¹ Pregnancy estimates are based on the total number of births and abortions.
 See footnote (2) on the next page regarding changes in estimating abortions.
 All rates are per 1,000 females.
 NA = Not Available

TABLE 4-1. Oregon Pregnancies to Teens 15-19 Years, 1975-2011 (Continued)

Births		Abortions ²						NS	Year
15 to 19		15 to 17		18 to 19		15 to 19			
No.	Rate	No.	Rate	No.	Rate	No.	Rate		
5,206	47.2	1,850	NA	1,797	NA	3,647	33.1	23	1975
5,658	50.9	2,069	31.9	2,693	58.1	4,762	42.9	903	1980
4,136	42.8	1,240	21.0	1,653	43.9	2,893	29.9	737	1985
4,159	42.3	1,168	19.8	1,480	37.5	2,648	26.9	114	1986
4,363	46.4	1,122	19.9	1,509	40.0	2,631	28.0	47	1987
4,496	46.7	1,346	23.8	1,920	48.2	3,266	33.9	48	1988
4,850	49.8	1,232	22.7	1,940	44.9	3,172	32.6	222	1989
5,080	54.5	1,182	21.7	1,754	45.2	2,936	31.5	122	1990
5,137	55.2	1,149	20.4	1,774	48.2	2,923	31.4	131	1991
5,108	53.7	969	16.8	1,394	37.2	2,363	24.9	169	1992
5,091	51.3	1,015	17.0	1,486	37.7	2,501	25.2	256	1993
5,238	51.3	1,126	18.2	1,447	35.9	2,573	25.2	180	1994
5,437	52.2	1,116	17.8	1,539	37.0	2,655	25.5	25	1995
5,676	52.4	1,093	16.6	1,581	37.1	2,674	24.7	21	1996
5,344	47.8	1,127	16.5	1,663	38.2	2,790	25.0	3	1997
5,565	48.3	1,113	15.7	1,570	35.4	2,683	23.3	43	1998
5,491	46.6	1,014	14.2	1,616	34.9	2,630	22.3	18	1999
5,090	42.6	866	12.1	1,554	32.6	2,425	20.3	20	2000
4,819	39.9	823	11.4	1,538	31.8	2,361	19.5	8	2001
4,410	36.2	724	9.8	1,284	26.6	2,008	16.5	7	2002
4,116	33.4	740	9.9	1,219	25.0	1,959	15.9	33	2003
3,980	31.9	618	8.2	1,128	22.8	1,746	14.0	12	2004
3,992	32.9	611	8.4	1,106	22.8	1,717	14.2	24	2005
4,263	34.9	693	9.4	1,131	23.2	1,824	14.9	18	2006
4,328	35.1	674	9.1	1,171	23.8	1,845	15.0	24	2007
4,474	35.8	582	7.8	1,008	20.1	1,590	12.7	47	2008
4,074	32.5	527	7.0	1,065	21.3	1,592	12.7	34	2009
3,511	28.0	437	5.8	894	17.9	1,331	10.6	49	2010
3,135	25.3	391	5.3	823	16.1	1,214	9.8	60	2011

² Abortion estimates are based on reports for Oregon residents whether occurring in Oregon or another state. For years prior to 1985 (and in 1986-1987) abortion estimates were based on Oregon occurrences only, but included abortions obtained by out-of-state residents. Because some neighboring states do not report abortions to the state of residence (especially California), this results in minimal estimates for both abortions and pregnancies.

NA = Not Available

All rates are per 1,000 females.

TABLE 4-2. Oregon Pregnancies to Young Teens 10-17 Years, 1975-2011

Year	Pregnancies ¹			Births			Abortions ²			Live Births ³	
	10-14	10-17		10-14	10-17		10-14	10-17		10-14	10-17
	No.	No.	Rate	No.	No.	Rate	No.	No.	Rate	Percent	
1975	216	2,934	NA	67	1,935	NA	149	1,999	NA	31.0	49.2
1980	203	4,047	24.7	71	1,846	11.3	132	2,201	13.4	35.0	45.6
1985	132	2,721	18.2	42	1,391	9.3	90	1,330	8.9	31.8	51.1
1986	145	2,681	18.4	64	1,432	9.8	81	1,249	8.5	44.1	53.4
1987	115	2,744	19.2	59	1,566	11.0	56	1,178	8.3	51.3	57.1
1988	122	3,015	20.6	57	1,604	10.9	64	1,410	9.6	46.7	53.2
1989	136	2,887	19.6	68	1,587	10.8	68	1,300	8.8	50.0	55.0
1990	144	2,986	19.7	76	1,736	11.4	68	1,250	8.2	52.8	58.1
1991	173	3,086	19.3	88	1,852	11.6	85	1,234	7.7	50.9	60.0
1992	157	2,913	17.9	86	1,873	11.5	71	1,040	6.4	54.8	64.3
1993	169	3,027	18.2	83	1,926	11.6	86	1,101	6.6	49.7	63.6
1994	183	3,214	18.9	117	2,022	11.9	66	1,192	7.0	63.9	62.9
1995	191	3,284	19.2	104	2,081	12.2	87	1,203	7.0	54.5	63.4
1996	166	3,274	18.8	91	2,106	12.1	75	1,168	6.7	54.8	64.3
1997	184	3,197	18.0	104	1,990	11.2	80	1,207	6.8	56.5	62.2
1998	191	3,176	17.2	95	1,967	10.7	96	1,209	6.6	49.7	61.9
1999	151	2,961	15.9	86	1,882	10.1	65	1,079	5.8	57.0	63.6
2000	131	2,653	14.0	66	1,722	9.1	65	931	4.9	50.4	64.9
2001	122	2,422	12.6	66	1,545	8.0	56	879	4.6	54.1	63.7
2002	96	2,127	10.9	51	1,358	7.0	45	769	4.0	53.1	63.8
2003	104	2,069	10.5	47	1,272	6.5	57	797	4.1	45.2	61.5
2004	106	1,897	9.5	55	1,228	6.2	51	669	3.4	51.9	64.7
2005	97	1,859	9.5	52	1,203	6.2	45	656	3.4	53.6	64.7
2006	100	2,096	10.6	45	1,348	6.8	55	748	3.8	45.0	64.3
2007	98	2,000	10.1	50	1,278	6.4	48	722	3.6	51.0	63.9
2008	64	1,995	10.0	38	1,387	7.0	26	608	3.1	59.4	69.5
2009	72	1,768	8.9	39	1,208	6.1	33	560	2.8	54.2	68.3
2010	58	1,464	7.4	27	996	5.0	31	468	2.3	46.6	68.0
2011	42	1,285	6.7	20	872	4.6	22	413	2.2	40.6	68.0

¹ Pregnancy estimates are based on the total number of births and abortions. See also footnote (2) below regarding changes in estimating abortions.

² Abortion estimates are based on reports for Oregon residents whether occurring in Oregon or another state. For years prior to 1985 (and in 1986-1987) abortion estimates were based on Oregon occurrences only, but included abortions obtained by out-of-state residents. Because some neighboring states do not report abortions to the state of residence (especially California), this results in minimal estimates for both abortions and pregnancies.

³ Percentage of pregnancies resulting in a live birth.
 NA = Not Available
 Rates per 1,000 females 10-17 years of age. 2011: 190,974.

TABLE 4-3. Pregnancy Rates of Teens by County of Residence, Oregon, 2011

County of Residence	Total Pregnancies All Ages	Age				Pregnancy Rate ¹			
		<15	15-17	18-19	15-19	10-17	15-17	18-19	15-19
Total ²	54,042	42	1,243	3,106	4,349	6.7	17.1	60.9	35.1
Baker	174	—	2	15	17	2.7	6.6	111.1	38.7
Benton	906	—	11	41	52	§ 3.0	§ 7.1	§ 14.8	§ 12.1
Clackamas	4,556	3	72	211	283	§ 3.6	§ 8.9	§ 48.6	§ 22.7
Clatsop	494	1	10	23	33	6.5	15.7	49.6	30.0
Columbia	573	—	7	36	43	§ 2.6	§ 6.8	67.3	27.6
Coos	667	2	23	52	75	9.1	20.4	71.8	40.6
Crook	191	—	7	17	24	6.6	17.8	94.4	41.9
Curry	203	—	2	14	16	2.4	5.8	87.0	31.8
Deschutes	2,038	—	47	110	157	5.8	15.7	65.6	33.6
Douglas	1,247	—	37	109	146	7.3	18.2	§ 95.4	§ 45.9
Gilliam	16	*	*	*	*	*	*	*	*
Grant	73	*	*	*	*	*	*	*	*
Harney	73	*	*	*	*	*	*	*	*
Hood River	316	—	9	15	24	6.8	17.6	59.3	31.4
Jackson	2,813	—	72	194	266	7.1	18.2	§ 75.3	§ 40.7
Jefferson	351	1	13	27	40	11.4	27.3	§ 107.6	§ 54.9
Josephine	927	—	22	87	109	5.6	14.6	§ 103.2	§ 46.4
Klamath	938	1	23	98	121	7.1	17.5	§ 111.9	§ 55.3
Lake	80	—	—	5	5	—	—	96.2	22.7
Lane	4,310	4	97	236	333	6.3	15.3	§ 37.4	§ 26.3
Lincoln	493	—	19	34	53	11.0	28.6	85.6	§ 50.0
Linn	1,641	1	35	107	142	5.7	14.7	73.3	37.0
Malheur	477	2	20	56	76	§ 12.7	§ 31.5	§ 127.3	§ 70.7
Marion	5,057	6	158	375	533	§ 9.1	§ 23.2	§ 81.4	§ 46.7
Morrow	185	1	7	18	25	10.8	25.3	§ 125.9	§ 59.5
Multnomah	12,406	14	249	565	814	§ 8.6	§ 21.8	62.0	§ 39.7
Polk	940	—	26	59	85	6.2	16.4	§ 39.1	§ 27.5
Sherman	24	*	*	*	*	*	*	*	*
Tillamook	279	—	8	22	30	7.4	18.3	§ 105.3	46.4
Umatilla	1,216	2	53	125	178	§ 12.6	§ 32.2	§ 122.8	§ 66.9
Union	352	—	7	30	37	5.6	15.1	68.0	40.8
Wallowa	59	*	*	*	*	*	*	*	*
Wasco	321	—	13	23	36	10.1	27.2	83.9	47.9
Washington	8,294	2	152	310	462	§ 5.4	§ 14.3	§ 50.4	§ 27.5
Wheeler	9	*	*	*	*	*	*	*	*
Yamhill	1,312	2	35	74	109	6.6	16.6	§ 42.7	§ 28.3

— Quantity is zero.

¹ All rates per 1,000 females.

² Total includes 60 pregnancies where county of residence was unknown.

§ Pregnancy rate is significantly different from the state.

* Detailed reporting of small numbers may breach confidentiality.

WARNING: Rates based on less than 5 events are unreliable.

NOTE: Includes births and reported abortions including those obtained out-of-state by Oregon residents. Because some states (e.g., California) do not record data on residence for abortion patients, not all out-of-state abortions are included.

TABLE 4-4. Birth Rates of Teens by County of Residence, Oregon, 2011

County of Residence	Total Births (All Ages)	Age				Birth Rate ¹			
		<15	15-17	18-19	15-19	10-17	15-17	18-19	15-19
Total	45,136	20	852	2,283	3,135	4.6	11.7	44.8	25.3
Baker	164	—	1	14	15	1.3	3.3	§ 103.7	34.2
Benton	760	—	8	21	29	§ 2.2	§ 5.2	§ 7.6	§ 6.7
Clackamas	3,824	—	41	152	193	§ 1.9	§ 5.0	§ 35.0	§ 15.5
Clatsop	430	1	7	18	25	4.7	11.0	38.8	22.7
Columbia	482	—	3	27	30	§ 1.1	§ 2.9	50.5	19.3
Coos	577	1	15	39	54	5.8	13.3	§ 53.9	29.2
Crook	176	—	5	15	20	4.7	12.7	§ 83.3	34.9
Curry	185	—	2	11	13	2.4	5.8	68.3	25.8
Deschutes	1,696	—	20	78	98	§ 2.5	§ 6.7	46.5	21.0
Douglas	1,086	—	29	80	109	5.7	14.2	§ 70.1	§ 34.3
Gilliam	15	—	—	1	1	—	—	111.1	25.6
Grant	67	—	2	2	4	5.7	15.9	37.0	22.2
Harney	65	—	2	6	8	5.4	13.4	75.9	35.1
Hood River	277	—	9	15	24	6.8	17.6	59.3	31.4
Jackson	2,355	—	53	149	202	5.2	13.4	§ 57.8	§ 30.9
Jefferson	314	—	12	23	35	§ 9.8	§ 25.2	§ 91.6	§ 48.0
Josephine	760	—	10	66	76	2.5	6.6	§ 78.3	32.4
Klamath	825	1	14	83	97	4.5	10.7	§ 94.7	§ 44.3
Lake	68	—	—	5	5	—	—	96.2	22.7
Lane	3,469	—	64	154	218	4.0	10.1	§ 24.4	§ 17.2
Lincoln	417	—	11	29	40	6.4	16.6	§ 73.0	§ 37.7
Linn	1,478	1	26	94	120	4.2	10.9	§ 64.4	§ 31.3
Malheur	441	1	20	54	74	§ 12.1	§ 31.5	§ 122.7	§ 68.8
Marion	4,374	4	122	291	413	§ 7.0	§ 17.9	§ 63.2	§ 36.2
Morrow	172	1	4	15	19	6.7	14.4	§ 104.9	§ 45.2
Multnomah	9,498	6	163	362	525	§ 5.5	§ 14.3	§ 39.7	25.6
Polk	858	—	21	52	73	5.0	13.3	34.4	23.6
Sherman	20	—	1	—	1	13.2	35.7	—	23.3
Tillamook	241	—	5	16	21	4.6	11.4	76.6	32.5
Umatilla	1,056	1	37	102	139	§ 8.7	§ 22.5	§ 100.2	§ 52.2
Union	318	—	6	25	31	4.8	12.9	56.7	34.2
Wallowa	54	—	—	1	1	—	—	21.3	6.5
Wasco	284	—	11	17	28	8.6	23.0	62.0	37.3
Washington	7,173	2	107	212	319	3.8	10.1	§ 34.5	§ 19.0
Wheeler	9	*	*	*	*	*	*	*	*
Yamhill	1,147	1	21	52	73	3.9	9.9	§ 30.0	19.0
Unknown	1	—	—	—	—	—	—	—	—

— Quantity is zero.

¹ All rates per 1,000 females.

§ Birth rate is significantly different from the state.

* Detailed reporting of small numbers may breach confidentiality.

WARNING: Rates based on less than 5 events are unreliable.

TABLE 4-5. Abortion Rates of Teens by County of Residence, Oregon, 2011

County of Residence	Total Abortions (All Ages)	Age				Abortion Rate ¹			
		<15	15-17	18-19	15-19	10-17	15-17	18-19	15-19
Total ²	8,906	22	391	823	1,214	2.2	5.4	16.1	9.8
Baker	10	—	1	1	2	1.3	3.3	7.4	4.6
Benton	146	—	3	20	23	0.8	1.9	§ 7.2	§ 5.3
Clackamas	732	3	31	59	90	1.6	3.8	13.6	§ 7.2
Clatsop	64	—	3	5	8	1.8	4.7	10.8	7.3
Columbia	91	—	4	9	13	1.5	3.9	16.8	8.3
Coos	90	1	8	13	21	3.3	7.1	18.0	11.4
Crook	15	—	2	2	4	1.9	5.1	11.1	7.0
Curry	18	—	—	3	3	—	—	18.6	6.0
Deschutes	342	—	27	32	59	3.4	§ 9.0	19.1	12.6
Douglas	161	—	8	29	37	1.6	3.9	25.4	11.6
Gilliam	1	*	*	*	*	*	*	*	*
Grant	6	*	*	*	*	*	*	*	*
Harney	8	*	*	*	*	*	*	*	*
Hood River	39	—	—	—	—	—	—	—	—
Jackson	458	—	19	45	64	1.9	4.8	17.5	9.8
Jefferson	37	1	1	4	5	1.6	2.1	15.9	6.9
Josephine	167	—	12	21	33	3.0	8.0	24.9	14.1
Klamath	113	—	9	15	24	2.7	6.9	17.1	11.0
Lake	12	—	—	—	—	—	—	—	—
Lane	841	4	33	82	115	2.3	5.2	13.0	9.1
Lincoln	76	—	8	5	13	4.6	12.0	12.6	12.3
Linn	163	—	9	13	22	1.4	3.8	8.9	§ 5.7
Malheur	36	1	—	2	2	0.6	—	4.5	§ 1.9
Marion	683	2	36	84	120	2.1	5.3	18.2	10.5
Morrow	13	—	3	3	6	4.0	10.8	21.0	14.3
Multnomah	2,908	8	86	203	289	§ 3.0	§ 7.5	§ 22.3	§ 14.1
Polk	82	—	5	7	12	1.2	3.2	§ 4.6	§ 3.9
Sherman	4	*	*	*	*	*	*	*	*
Tillamook	38	—	3	6	9	2.8	6.9	28.7	13.9
Umatilla	160	1	16	23	39	3.9	9.7	22.6	§ 14.7
Union	34	—	1	5	6	0.8	2.2	11.3	6.6
Wallowa	5	*	*	*	*	*	*	*	*
Wasco	37	—	2	6	8	1.6	4.2	21.9	10.7
Washington	1,121	—	45	98	143	1.6	4.2	15.9	8.5
Wheeler	—	—	—	—	—	—	—	—	—
Yamhill	165	1	14	22	36	2.7	6.6	12.7	9.4

— Quantity is zero.

¹ All rates per 1,000 females.

² Total includes 37 abortions where county of residence was unknown.

§ Abortion rate is significantly different from the state.

* Detailed reporting of small numbers may breach confidentiality.

WARNING: Rates based on less than 5 events are unreliable.

NOTE: Includes abortions obtained out-of-state by Oregon residents. Because some states (e.g., California) do not record data on residence for abortion patients, not all out-of-state abortions are included.

TABLE 4-6. Births to 15- to 19-year-old Teens by Race/Ethnicity, Adequacy of Prenatal Care, and Birthweight, Oregon Residents, 2011

Race/Ethnicity and Age of Mother	Total Births	Adequacy of Prenatal Care					
		Inadequate ¹		Adequate		Not Stated	
		<2500 Grams	2500+ Grams	<2500 Grams	2500+ Grams	<2500 Grams	2500+ Grams
Total Births²							
15-19	3,135	36	264	207	2,562	7	58
15-17	852	16	83	49	681	5	17
18-19	2,283	20	181	158	1,881	2	41
Non-Hispanic Single Mention Race							
White							
15-19	1,731	18	117	115	1,448	4	28
15-17	387	7	27	23	319	3	7
18-19	1,344	11	90	92	1,129	1	21
African American							
15-19	84	1	8	6	68	–	1
15-17	25	1	1	1	22	–	–
18-19	59	–	7	5	46	–	1
American Indian							
15-19	71	2	12	3	52	–	2
15-17	15	1	2	–	12	–	–
18-19	56	1	10	3	40	–	2
Asian							
15-19	28	–	3	5	19	–	1
15-17	6	–	–	1	5	–	–
18-19	22	–	3	4	14	–	1
Hawaiian/Pacific Islander							
15-19	16	–	5	1	9	–	1
15-17	2	–	–	–	1	–	1
18-19	14	–	5	1	8	–	–
Other/Unknown							
15-19	1	–	–	–	1	–	–
15-17	–	–	–	–	–	–	–
18-19	1	–	–	–	1	–	–
Multiple Races							
15-19	139	1	17	7	112	–	2
15-17	35	–	5	1	29	–	–
18-19	104	1	12	6	83	–	2
Hispanic Ethnicity							
Hispanic³							
15-19	1,056	13	101	70	847	3	22
15-17	377	6	47	23	290	2	9
18-19	679	7	54	47	557	1	13

– Quantity is zero.
See footnotes at the end of table.

TABLE 4-6. Births to 15- to 19-year-old Teens by Race/Ethnicity, Adequacy of Prenatal Care, and Birthweight, Oregon Residents, 2011 (Continued)

Race/Ethnicity and Age of Mother	Total Births	Adequacy of Prenatal Care					
		Inadequate ¹		Adequate		Not Stated	
		<2500 Grams	2500+ Grams	<2500 Grams	2500+ Grams	<2500 Grams	2500+ Grams
Total Births²							
15-19	3,135	36	264	207	2,562	7	58
15-17	852	16	83	49	681	5	17
18-19	2,283	20	181	158	1,881	2	41
Multiple Mention Race and Ethnicity							
White							
15-19	2,686	30	213	175	2,216	5	46
15-17	720	12	71	44	577	3	12
18-19	1,966	18	142	131	1,639	2	34
African American							
15-19	156	2	17	10	125	–	2
15-17	51	1	5	2	43	–	–
18-19	105	1	12	8	82	–	2
American Indian							
15-19	161	2	27	8	122	–	2
15-17	38	1	6	1	30	–	–
18-19	123	1	21	7	92	–	2
Asian							
15-19	60	–	6	8	44	–	2
15-17	11	–	–	2	9	–	–
18-19	49	–	6	6	35	–	2
Hawaiian/Pacific Islander							
15-19	31	–	5	1	23	–	2
15-17	3	–	–	–	2	–	1
18-19	28	–	5	1	21	–	1
Other							
15-19	200	2	18	15	157	2	6
15-17	74	1	9	2	56	2	4
18-19	126	1	9	13	101	–	2
Unknown							
15-19	38	1	2	4	31	–	–
15-17	13	1	–	1	11	–	–
18-19	25	–	2	3	20	–	–
Hispanic³							
15-19	1,056	13	101	70	847	3	22
15-17	377	6	47	23	290	2	9
18-19	679	7	54	47	557	1	13

– Quantity is zero.

¹ Less than 5 prenatal visits or care began in the third trimester.

² Total includes cases with unknown birthweight and unknown race/ethnicity.

³ Hispanic ethnicity includes any race.

NOTE: The sum of the subsets may not equal the total because of cases with missing values.

TABLE 4-7. Births to Teens 15-19 by Marital Status, Race/Ethnicity, and Age by Adequacy of Prenatal Care and Birthweight, Oregon Residents, 2011

Marital Status, Race/Ethnicity and Age of Mother	Total Births ¹	Low Weight Births		First Trimester Care		Inadequate Care ³	
		Number	Rate ²	Number	Rate ²	Number	Rate ²
Total Births¹							
15-19	3,135	250	79.8	1,901	610.9	300	97.8
15-17	852	70	82.3	459	545.8	99	119.4
18-19	2,283	180	78.8	1,442	635.0	201	89.7
Non-Hispanic Single Mention Race							
White	1,731	137	79.2	1,120	653.1	135	79.5
15-17	387	33	85.5	227	598.9	34	90.4
Married	22	2	90.9	13	590.9	2	90.9
Unmarried	363	31	85.6	213	600.0	32	90.9
18-19	1,344	104	77.4	893	668.4	101	76.4
Married	232	21	90.5	157	679.7	23	100.0
Unmarried	1,108	83	74.9	733	665.8	78	71.6
African American	84	7	83.3	50	595.2	9	108.4
15-17	25	2	80.0	15	600.0	2	80.0
Married	—	—	—	—	—	—	—
Unmarried	25	2	80.0	15	600.0	2	80.0
18-19	59	5	84.7	35	593.2	7	120.7
Married	6	1	166.7	2	333.3	2	333.3
Unmarried	53	4	75.5	33	622.6	5	96.2
American Indian	71	5	70.4	41	585.7	14	202.9
15-17	15	1	66.7	7	466.7	3	200.0
Married	2	—	—	1	500.0	1	500.0
Unmarried	13	1	76.9	6	461.5	2	153.8
18-19	56	4	71.4	34	618.2	11	203.7
Married	6	—	—	4	666.7	2	333.3
Unmarried	50	4	80.0	30	612.2	9	187.5
Asian/Pacific Islander⁴	44	6	136.4	15	357.1	8	190.5
15-17	8	1	125.0	5	714.3	—	—
Married	1	—	—	—	—	—	—
Unmarried	7	1	142.9	5	833.3	—	—
18-19	36	5	138.9	10	285.7	8	228.6
Married	5	1	200.0	2	400.0	—	—
Unmarried	31	4	129.0	8	266.7	8	266.7
Other/Multiple Races	140	8	57.1	80	571.4	18	130.4
15-17	35	1	28.6	12	342.9	5	142.9
Married	—	—	—	—	—	—	—
Unmarried	35	1	28.6	12	342.9	5	142.9
18-19	105	7	66.7	68	647.6	13	126.2
Married	13	1	76.9	9	692.3	2	153.8
Unmarried	92	6	65.2	59	641.3	11	122.2
Hispanic Ethnicity							
Hispanic⁵	1,056	86	81.4	591	561.8	114	110.6
15-17	377	31	82.2	191	509.3	53	144.8
Married	20	1	50.0	14	700.0	—	—
Unmarried	357	30	84.0	177	498.6	53	153.2
18-19	679	55	81.0	400	590.8	61	91.7
Married	132	12	90.9	82	626.0	7	54.3
Unmarried	547	43	78.6	318	582.4	54	100.7

— Quantity is zero.
See footnotes at end of table.

TABLE 4-7. Births to Teens 15-19 by Marital Status, Race/Ethnicity, and Age by Adequacy of Prenatal Care and Birthweight, Oregon Residents, 2011 (Continued)

Marital Status, Race/Ethnicity and Age of Mother	Total Births ¹	Low Weight Births		First Trimester Care		Inadequate Care ³	
		Number	Rate ²	Number	Rate ²	Number	Rate ²
Total Births¹							
15-19	3,135	250	79.8	1,901	610.9	300	97.8
15-17	852	70	82.3	459	545.8	99	119.4
18-19	2,283	180	78.8	1,442	635.0	201	89.7
Multiple Mention Race/ Ethnicity							
White	2,686	210	78.2	1,655	620.8	243	92.3
15-17	720	59	82.1	390	549.3	83	117.9
Married	38	3	78.9	24	631.6	2	52.6
Unmarried	680	56	82.5	365	544.8	81	122.0
18-19	1,966	151	76.8	1,265	646.7	160	82.9
Married	347	31	89.3	227	658.0	30	87.7
Unmarried	1,615	120	74.3	1,035	644.1	130	82.0
African American	156	12	76.9	94	602.6	19	123.4
15-17	51	3	58.8	27	529.4	6	117.6
Married	—	—	—	—	—	—	—
Unmarried	51	3	58.8	27	529.4	6	117.6
18-19	105	9	85.7	67	638.1	13	126.2
Married	8	2	250.0	3	375.0	2	250.0
Unmarried	97	7	72.2	64	659.8	11	115.8
American Indian	161	10	62.1	93	581.2	29	182.4
15-17	38	2	52.6	17	447.4	7	184.2
Married	2	—	—	1	500.0	1	500.0
Unmarried	36	2	55.6	16	444.4	6	166.7
18-19	123	8	65.0	76	623.0	22	181.8
Married	17	—	—	11	647.1	4	235.3
Unmarried	106	8	75.5	65	619.0	18	173.1
Asian/Pacific Islander⁴	86	9	104.7	41	488.1	11	132.5
15-17	14	2	142.9	9	692.3	—	—
Married	1	—	—	—	—	—	—
Unmarried	13	2	153.8	9	750.0	—	—
18-19	72	7	97.2	32	450.7	11	157.1
Married	8	2	250.0	4	500.0	—	—
Unmarried	64	5	78.1	28	444.4	11	177.4
Other/Unknown	238	24	100.8	138	579.8	23	100.0
15-17	87	7	80.5	47	540.2	11	135.8
Married	4	—	—	3	750.0	—	—
Unmarried	83	7	84.3	44	530.1	11	142.9
18-19	151	17	112.6	91	602.6	12	80.5
Married	33	2	60.6	23	697.0	3	93.8
Unmarried	118	15	127.1	68	576.3	9	76.9
Hispanic⁵	1,056	86	81.4	591	561.8	114	110.6
15-17	377	31	82.2	191	509.3	53	144.8
Married	20	1	50.0	14	700.0	—	—
Unmarried	357	30	84.0	177	498.6	53	153.2
18-19	679	55	81.0	400	590.8	61	91.7
Married	132	12	90.9	82	626.0	7	54.3
Unmarried	547	43	78.6	318	582.4	54	100.7

— Quantity is zero.

¹ The subtotals of an age group may not add to the total for that age group because of unstated characteristics such as marital status or race/ethnicity.

² All rates per 1,000 births.

³ Less than 5 prenatal visits or care began in the third trimester.

⁴ Includes Asian, Native Hawaiian & Pacific Islander.

⁵ Includes any race.

WARNING: Rates based on less than 5 events are unreliable.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 4-8. Teens 15-19: Births, Level of Prenatal Care and Low Birthweight Rates by County of Residence, Oregon, 2011

County of Residence	Total		Low Weight Births		First Trimester Care		Inadequate Care ¹	
	Number	Rate ²	Number	Rate ³	Number	Rate ³	Number	Rate ³
Total	3,135	25.3	250	79.8	1,901	610.9	300	97.8
Baker	15	34.2	2	133.3	12	800.0	—	—
Benton	29	§ 6.7	1	34.5	19	655.2	2	71.4
Clackamas	193	§ 15.5	15	78.1	112	589.5	22	118.3
Clatsop	25	22.7	3	120.0	16	640.0	1	40.0
Columbia	30	19.3	1	33.3	20	666.7	1	33.3
Coos	54	29.2	4	74.1	35	648.1	3	55.6
Crook	20	34.9	—	—	10	500.0	—	—
Curry	13	25.8	1	76.9	8	615.4	2	153.8
Deschutes	98	21.0	12	122.4	69	704.1	4	40.8
Douglas	109	§ 34.3	11	100.9	69	644.9	6	56.6
Gilliam	1	25.6	*	*	*	*	*	*
Grant	4	22.2	*	*	*	*	*	*
Harney	8	35.1	*	*	*	*	*	*
Hood River	24	31.4	4	166.7	13	565.2	—	—
Jackson	202	§ 30.9	16	79.2	132	653.5	15	74.3
Jefferson	35	§ 48.0	4	114.3	23	657.1	7	200.0
Josephine	76	32.4	4	52.6	58	763.2	5	65.8
Klamath	97	§ 44.3	5	51.5	55	567.0	9	92.8
Lake	5	22.7	*	*	*	*	*	*
Lane	218	§ 17.2	17	78.0	148	682.0	20	92.2
Lincoln	40	§ 37.7	8	200.0	22	564.1	7	179.5
Linn	120	§ 31.3	18	150.0	84	724.1	6	54.1
Malheur	74	§ 68.8	10	135.1	34	459.5	12	162.2
Marion	413	§ 36.2	25	60.5	241	583.5	40	99.0
Morrow	19	§ 45.2	1	52.6	8	421.1	2	105.3
Multnomah	525	25.6	36	68.6	300	574.7	65	126.7
Polk	73	23.6	5	68.5	46	647.9	4	58.0
Sherman	1	23.3	*	*	*	*	*	*
Tillamook	21	32.5	2	95.2	10	476.2	3	142.9
Umatilla	139	§ 52.2	11	79.1	75	539.6	19	137.7
Union	31	34.2	4	129.0	20	645.2	2	64.5
Wallowa	1	6.5	*	*	*	*	*	*
Wasco	28	37.3	2	71.4	20	714.3	—	—
Washington	319	§ 19.0	23	72.1	174	548.9	38	121.8
Wheeler	2	69.0	*	*	*	*	*	*
Yamhill	73	§ 19.0	3	41.1	53	757.1	3	44.8

— Quantity is zero.

¹ Less than 5 prenatal visits or care began in the third trimester.

² Rates per 1,000 females 15-19 years of age.

³ Rates per 1,000 births to 15-19 year olds.

§ Rate is significantly different from the state.

* Detailed reporting of small numbers may breach confidentiality.

WARNING: Rates based on less than 5 events are unreliable.

NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 4-9. Birth Outcomes of Infants by Age of Mother, Oregon Residents, 2011

Birth Outcomes	Total Births	Mother's Age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total Births	45,136	20	110	264	478	867	1,416	3,135	41,980	1
Birthweight¹										
1499 Grams or Less										
<28 Weeks	203	–	1	2	3	6	4	16	187	–
28-36 Weeks	240	–	1	2	3	5	13	24	216	–
37-41 Weeks	5	–	–	–	–	–	–	–	5	–
42+ Weeks	–	–	–	–	–	–	–	–	–	–
Unknown	–	–	–	–	–	–	–	–	–	–
1500-2499 Grams										
<28 Weeks	–	–	–	–	–	–	–	–	–	–
28-36 Weeks	1,450	–	7	14	15	41	47	124	1,326	–
37-41 Weeks	870	–	4	2	16	17	47	86	784	–
42+ Weeks	–	–	–	–	–	–	–	–	–	–
Unknown	1	–	–	–	–	–	–	–	1	–
2500+ Grams										
<28 Weeks	–	–	–	–	–	–	–	–	–	–
28-36 Weeks	1,437	2	3	2	17	26	44	92	1,343	–
37-41 Weeks	40,347	18	94	240	417	765	1,248	2,764	37,564	1
42+ Weeks	553	–	–	2	5	6	12	25	528	–
Unknown	23	–	–	–	1	1	1	3	20	–
5 Minute Apgar										
0-3	302	–	1	3	4	8	12	28	274	–
4-6	931	–	2	6	16	15	45	84	847	–
7-10	43,845	20	107	254	457	842	1,358	3,018	40,806	1
Not Stated	58	–	–	1	1	2	1	5	53	–
Tobacco Used										
Yes	4,795	1	6	22	85	140	302	555	4,239	–
No	39,972	19	103	241	389	721	1,101	2,555	37,397	1
Unknown	369	–	1	1	4	6	13	25	344	–
Alcohol Used										
Yes	380	–	–	1	4	10	6	21	359	–
No	43,448	20	106	260	457	834	1,375	3,032	40,396	–
Not Reported	811	–	4	3	11	14	20	52	758	1
Unknown	497	–	–	–	6	9	15	30	467	–
Birth Order										
1 st	18,001	20	105	257	436	735	1,099	2,632	15,349	–
2 nd	14,592	–	5	7	38	120	282	452	14,139	1
3 rd	7,279	–	–	–	4	12	31	47	7,232	–
4 th	3,224	–	–	–	–	–	3	3	3,221	–
5+	2,040	–	–	–	–	–	1	1	2,039	–
Prenatal Care										
No Care	311	1	5	2	7	8	14	36	274	–
Little or Late ²	2,068	6	11	26	48	76	103	264	1,798	–
Adequate ³	41,553	13	86	226	418	764	1,275	2,769	38,770	1
Unknown	1,204	–	8	10	5	19	24	66	1,138	–

– Quantity is zero.

¹ The birthweight was unknown for seven infants.² Less than 5 prenatal visits or care began in the third trimester.³ Prenatal care began prior to the third trimester; patient made at least 5 visits to a medical provider.

TABLE 4-10. Demographic Characteristics of Mother by Age, Oregon Residents, 2011

Demographics of Mother	Total Births	Mother's Age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total Births	45,136	20	110	264	478	867	1,416	3,135	41,980	1
Ethnicity/Race¹										
White	30,888	7	41	112	234	465	879	1,731	29,150	–
African American	934	1	4	9	12	25	34	84	849	–
American Indian	532	2	1	2	12	21	35	71	459	–
Asian	2,103	–	1	1	4	10	12	28	2,075	–
Native Hawaiian/Pacific Islander	271	–	–	2	–	7	7	16	255	–
Other and Multiple Races ²	1,473	1	4	9	22	41	64	140	1,331	1
Total Hispanic	8,718	9	59	126	192	297	382	1,056	7,653	–
Marital Status										
Unmarried	15,971	20	108	256	441	740	1,144	2,689	13,261	1
Married	29,067	–	2	7	36	125	270	440	28,627	–
Unknown	98	–	–	1	1	2	2	6	92	–
Education										
8th grade or less	2,002	12	18	20	17	27	36	118	1,872	–
Some high school	5,630	8	92	222	347	394	416	1,471	4,151	–
High school graduate/GED	10,474	–	–	20	100	367	680	1,167	9,307	–
Some college	11,092	–	–	–	13	73	275	361	10,731	–
Associate's Degree	3,171	–	–	–	–	3	3	6	3,165	–
Bachelor's Degree	7,961	–	–	–	–	–	–	–	7,960	1
Postbaccalaureate	4,591	–	–	–	–	–	–	–	4,591	–
Unknown	215	–	–	2	1	3	6	12	203	–
Birth Order										
1 st	18,001	20	105	257	436	735	1,099	2,632	15,349	–
2 nd	14,592	–	5	7	38	120	282	452	14,139	1
3 rd	7,279	–	–	–	4	12	31	47	7,232	–
4 th	3,224	–	–	–	–	–	3	3	3,221	–
5+	2,040	–	–	–	–	–	1	1	2,039	–
Unknown	–	–	–	–	–	–	–	–	–	–
Start of Prenatal Care										
1 st Trimester	33,550	7	44	145	270	546	896	1,901	31,641	1
2 nd Trimester	9,141	7	49	90	159	245	405	948	8,186	–
3 rd Trimester	1,698	5	10	21	39	64	93	227	1,466	–
No Care	311	1	5	2	7	8	14	36	274	–
Prenatal Care										
Inadequate ³	2,379	7	16	28	55	84	117	300	2,072	–
Adequate ⁴	41,553	13	86	226	418	764	1,275	2,769	38,770	1
Unknown	1,204	–	8	10	5	19	24	66	1,138	–
Source of Payment										
Medicaid/OHP*	20,426	17	78	191	353	663	1,115	2,400	18,009	–
Private Insurance	22,787	3	27	68	106	181	254	636	22,147	1
Self-Pay	992	–	3	1	8	14	20	46	946	–
Other Coverage	662	–	2	4	5	6	16	33	629	–
Unknown Mention	269	–	–	–	6	3	11	20	249	–

– Quantity is zero.

¹ Race categories are for single mention and exclude Hispanic ethnicity.

² 'Other and Multiple Races' includes missing or unknown race.

³ Less than 5 prenatal visits or care began in the third trimester.

⁴ Prenatal care began prior to the third trimester; patient made at least five visits to a medical provider.

* Oregon Health Plan.

TABLE 4-11. Demographic Characteristics of Abortion Patients by Age, Oregon Residents, 2011 (revised)

Demographics of Patient	Total ¹	Patient's Age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total Abortions	8,906	22	72	114	205	349	474	1,214	7,610	60
Ethnicity/Race										
Non-Hispanic White	6,563	12	52	82	136	236	353	859	5,656	36
Non-Hispanic African American	529	4	3	9	13	26	34	85	437	3
Non-Hispanic American Indian	243	2	3	3	2	21	14	43	194	4
Non-Hispanic Asian ²	386	–	2	3	6	15	15	41	341	4
Total Hispanic	1,054	6	10	18	42	57	63	190	847	11
Marital Status										
Unmarried	6,455	19	65	99	191	301	401	1,057	5,347	32
Married	1,585	1	–	–	4	10	16	30	1,541	13
Unknown	866	2	7	15	10	38	57	127	722	15
Education										
8 th Grade or Less	247	17	12	5	4	3	8	32	197	1
9 th Grade	162	2	34	12	10	7	1	64	95	1
10 th Grade	289	–	12	50	27	13	24	126	160	3
11 th Grade	660	1	2	21	103	89	42	257	398	4
12 th Grade	3,395	1	6	16	51	198	251	522	2,849	23
Some College	2,417	–	–	–	5	29	117	151	2,250	16
College/Postbaccalaureate	1,402	–	–	–	–	1	3	4	1,389	9
Unknown	333	1	6	10	5	9	28	58	271	3
Children Now Alive										
One	1,993	2	–	3	26	49	92	170	1,811	10
Two	1,541	–	1	–	1	7	15	24	1,505	12
Three	634	–	–	–	–	–	3	3	626	5
Four+	320	–	–	–	–	–	–	–	315	5
Unknown	297	1	4	10	4	11	25	54	238	4
Previous Abortions										
None	5,166	21	71	104	185	274	374	1,008	4,108	29
One	2,095	1	1	8	17	59	79	164	1,912	18
Two	910	–	–	1	1	8	12	22	882	6
Three+	624	–	–	–	–	3	6	9	614	1
Unknown	111	–	–	1	2	5	3	11	94	6
Gestation										
Eight Weeks or Less	5,776	9	40	73	130	223	279	745	4,986	36
9-12	1,854	6	15	29	43	69	107	263	1,577	8
13-16	576	4	12	6	14	24	44	100	467	5
17+	428	3	4	5	10	23	25	67	358	–
Unknown	269	–	1	1	8	10	19	39	219	11
Contraceptive Used (revised)										
None Used	6,106	14	53	80	151	260	327	871	5,181	40
Pills Used	817	–	5	5	14	33	49	106	699	12
Condom Used	1,237	6	9	18	24	45	59	155	1,074	2
Other	523	–	1	2	13	8	18	42	475	6
Medical Procedure										
Suction Curettage	4,526	10	37	64	119	171	262	653	3,829	34
Medical (non-surgical)	2,276	5	15	30	44	95	115	299	1,951	21
Dilation & Evacuation	2,024	7	19	20	40	83	93	255	1,757	5
Other Specified	59	–	–	–	1	–	3	4	55	–

– Quantity is zero.

¹ Includes all abortions known to have been obtained by Oregon residents.

² Includes Chinese, Japanese, Filipino, other Asian and Pacific Islander.

N.S. = Not stated.

TABLE 4-12. Age of Father by Age of Mother, Oregon Residents, 2011

Father's Age	Total	Mother's Age								
		<15	15	16	17	18	19	20-24	25+	N.S.
Total	45,136	20	110	264	478	867	1,416	9,874	32,106	1
<15	2	—	1	1	—	—	—	—	—	—
15	19	3	4	8	2	1	—	1	—	—
16	95	2	20	30	23	13	6	1	—	—
17	139	1	8	27	45	30	20	7	1	—
18	332	—	12	36	62	106	58	52	6	—
19	577	1	—	25	61	143	168	162	17	—
20	848	—	2	11	49	120	232	398	36	—
21	969	—	1	3	24	96	179	593	73	—
22	1,135	—	—	1	19	46	133	814	122	—
23	1,328	—	1	3	2	42	86	960	234	—
24	1,517	—	—	2	5	25	58	1,014	413	—
25+	34,056	—	1	1	15	68	196	4,520	29,254	1
N.S.	4,119	13	60	116	171	177	280	1,352	1,950	—

— Quantity is zero.

TABLE 4-13. Age of Father by Age of Mother, Oregon Residents, 2007-2011

Father's Age	Total	Mother's Age								
		<15	15	16	17	18	19	20-24	25+	N.S.
Total	236,410	174	682	1,721	3,164	5,517	8,438	55,321	161,374	19
<15	25	2	11	8	1	—	—	1	2	—
15	111	9	35	40	19	5	2	1	—	—
16	449	20	74	152	124	58	17	3	1	—
17	1,025	16	100	229	292	197	119	60	12	—
18	2,065	4	70	242	474	568	386	279	42	—
19	3,469	2	18	186	427	853	934	924	125	—
20	4,698	5	14	88	318	760	1,151	2,118	244	—
21	5,699	2	7	58	204	542	1,041	3,402	443	—
22	6,828	—	1	30	117	351	861	4,695	773	—
23	7,741	2	1	23	74	286	558	5,423	1,374	—
24	8,774	—	3	20	53	195	439	5,673	2,391	—
25+	173,770	1	3	31	168	517	1,386	25,501	146,160	3
N.S.	21,756	111	345	614	893	1,185	1,544	7,241	9,807	16

— Quantity is zero.

APPENDIX A: POPULATION

Appendix A: Population

Table A-1. Population Distribution by Age and Sex, Oregon, 1950, 1960, 1970, 1975, 1980, 1985, 1990, 1995-2011

Year and Sex	Total	Age Groups															
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
1950	1,521,341	163,915	131,596	108,140	96,738	105,070	117,706	116,800	117,361	105,575	93,228	86,118	77,843	68,230	54,455	37,095	41,471
M	772,776	83,614	67,244	55,528	47,652	51,469	57,940	57,930	59,391	54,452	48,574	44,802	40,426	36,027	28,498	19,085	20,144
F	748,565	80,301	64,352	52,612	49,086	53,601	59,766	58,870	57,970	51,123	44,654	41,316	37,417	32,203	25,957	18,010	21,327
1960	1,768,675	185,403	189,333	170,768	131,315	95,773	96,636	107,999	118,152	116,218	114,074	101,313	87,606	74,007	65,908	52,734	61,436
M	879,929	94,330	96,553	87,191	64,463	46,011	47,318	52,924	57,451	57,832	57,574	52,052	43,615	37,003	32,257	25,175	28,180
F	888,746	31,073	92,780	83,577	66,852	49,762	49,318	55,075	60,701	58,386	56,500	49,261	43,991	37,004	33,651	27,559	33,256
1970	2,091,385	164,060	194,345	211,284	203,362	162,638	138,978	115,599	107,832	117,950	124,395	118,996	110,739	94,408	75,601	60,321	90,877
M	1,023,952	83,836	99,274	107,664	100,952	75,549	68,827	57,764	52,738	57,790	60,407	58,563	54,576	45,809	35,886	26,956	37,361
F	1,067,433	80,224	95,071	103,620	102,410	87,089	70,151	57,835	55,094	60,160	63,988	60,433	56,163	48,599	39,715	33,365	53,516
1975	2,292,734	166,930	176,125	211,149	224,538	222,013	180,346	152,553	122,891	114,611	120,938	125,783	117,631	106,710	86,844	66,077	97,597
M	1,120,178	85,331	89,859	107,668	114,204	108,866	84,271	76,482	61,305	55,959	58,944	60,547	56,993	51,149	40,571	29,622	38,407
F	1,172,556	81,599	86,266	103,481	110,334	113,146	96,075	76,071	61,586	58,652	61,994	65,236	60,638	55,561	46,273	36,455	59,190
1980	2,632,663	197,951	189,293	202,546	225,814	237,788	253,472	227,565	170,694	133,101	119,249	124,344	129,886	117,676	105,165	79,367	118,752
M	1,296,355	101,815	96,965	103,594	114,690	117,800	126,867	115,071	86,047	67,073	58,948	60,356	62,001	56,031	49,287	35,404	44,406
F	1,336,308	96,136	92,328	98,952	111,124	119,988	126,605	112,494	84,647	66,028	60,301	63,988	67,885	61,645	55,878	43,963	74,346
1985	2,675,800	198,995	195,271	184,845	197,808	215,641	227,827	243,741	222,457	165,140	128,521	112,530	115,551	118,327	113,657	93,372	142,117
M	1,313,949	101,338	100,344	94,619	101,111	109,413	112,518	121,577	112,168	83,090	64,509	55,332	55,429	55,393	52,316	41,694	53,098
F	1,361,851	97,657	94,927	90,226	96,697	106,228	115,309	122,164	110,289	82,050	64,012	57,198	60,122	62,934	61,341	51,678	89,019
1990	2,847,000	203,678	205,765	199,955	190,781	199,581	221,902	233,898	249,986	223,597	166,333	128,276	112,111	112,679	120,405	99,641	178,413
M	1,396,242	104,769	106,052	102,738	97,540	101,520	112,129	115,287	124,674	112,602	83,400	63,928	54,393	52,976	54,892	43,473	65,870
F	1,450,758	98,909	99,713	97,217	93,241	98,061	109,773	118,611	125,312	110,995	82,933	64,348	57,718	59,703	65,513	56,168	112,543
1995	3,132,000	231,584	225,513	222,660	213,595	208,322	199,568	232,116	258,273	264,101	232,380	170,663	129,959	113,424	121,428	113,812	194,602
M	1,543,133	118,939	15,314	114,532	109,361	106,964	101,281	116,723	128,027	130,894	116,149	85,147	64,015	53,857	56,309	50,528	75,093
F	1,588,867	112,645	110,199	108,128	104,234	101,358	98,287	115,393	130,246	133,207	116,231	85,516	65,944	59,567	65,119	63,284	119,509
1996	3,181,000	233,523	227,533	223,118	221,021	210,106	204,872	226,069	258,725	266,757	248,215	175,889	137,004	114,195	120,260	113,338	200,375
M	1,566,932	119,872	116,490	114,560	112,700	108,335	103,960	114,107	128,330	132,074	123,879	87,740	67,582	54,443	55,793	50,378	76,689
F	1,614,068	113,651	111,043	108,558	108,321	101,771	100,912	111,962	130,395	134,683	124,336	88,149	69,422	59,752	64,467	62,960	123,686
1997	3,217,000	231,023	229,318	223,940	229,066	216,134	206,595	219,687	255,281	269,136	249,316	192,710	142,154	115,901	118,342	113,382	205,015
M	1,585,778	118,672	117,666	114,812	117,278	110,995	104,822	110,989	126,785	133,109	124,192	96,123	70,037	55,565	54,885	50,545	79,303
F	1,631,222	112,351	111,652	109,128	111,788	105,139	101,773	108,698	128,496	136,027	125,124	96,587	72,117	60,336	63,457	62,837	125,712
1998	3,267,550	216,270	225,755	233,772	238,498	205,409	208,599	227,758	264,229	278,458	254,656	201,902	149,998	123,399	117,429	110,808	210,610
M	1,616,250	110,610	115,817	120,141	123,211	105,811	105,501	113,540	132,531	140,697	128,089	100,799	72,906	59,060	54,968	49,739	82,830
F	1,651,300	105,660	109,938	113,631	115,287	99,598	103,098	114,218	131,698	137,761	126,567	101,103	77,092	64,339	62,461	61,069	127,780

Table A-1. Population Distribution by Age and Sex, Oregon, 1950, 1960, 1970, 1975, 1980, 1985, 1990, 1995-2011

Year and Sex	Total	Age Groups															
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
1999	3,300,800	219,527	226,789	235,796	243,007	209,296	206,740	222,194	259,743	276,330	259,973	211,826	160,646	128,037	115,151	110,524	215,221
M	1,629,897	112,126	116,290	121,080	125,200	107,042	103,662	110,184	129,946	139,523	130,560	105,568	78,041	61,304	53,926	50,053	85,393
F	1,670,903	107,401	110,499	114,716	117,807	102,255	103,077	112,010	129,797	136,807	129,413	106,258	82,606	66,733	61,225	60,471	129,828
2000	3,421,399	223,005	234,474	242,098	244,427	230,406	233,850	236,845	255,751	270,823	271,315	235,840	173,008	131,380	112,614	106,728	218,835
M	1,696,550	114,006	120,115	124,235	125,429	118,100	121,031	122,237	129,083	134,072	134,761	117,417	85,369	64,218	53,193	48,510	84,774
F	1,724,849	108,999	114,359	117,863	118,998	112,306	112,819	114,608	126,668	136,751	136,554	118,423	87,639	67,162	59,421	58,218	134,061
2001	3,471,700	226,401	238,102	245,858	248,078	233,672	237,225	240,353	259,636	274,967	275,401	239,420	175,643	133,350	114,046	108,064	221,484
M	1,721,063	115,854	122,068	126,161	127,300	119,797	122,845	123,903	131,103	136,095	136,730	119,229	86,575	65,245	53,832	49,142	85,186
F	1,750,637	110,547	116,034	119,697	120,778	113,875	114,380	116,450	128,533	138,872	138,671	120,191	89,069	68,105	60,214	58,923	136,297
2002	3,504,700	227,668	240,525	248,332	250,518	235,989	239,632	242,805	262,277	277,752	278,150	241,802	177,357	134,599	115,039	108,983	223,273
M	1,737,468	116,502	123,310	127,431	128,552	120,984	124,091	125,167	132,437	137,473	138,095	120,415	87,420	65,856	54,300	49,559	85,876
F	1,767,232	111,166	117,215	120,902	121,965	115,004	115,541	117,638	129,840	140,279	140,055	121,387	89,938	68,743	60,739	59,423	137,397
2003	3,541,500	228,681	243,209	251,015	253,202	238,586	242,417	245,610	265,216	280,796	281,125	244,359	179,190	135,956	116,295	110,163	225,680
M	1,755,699	117,020	124,686	128,807	129,929	122,316	125,533	126,613	133,921	138,980	139,572	121,689	88,323	66,520	54,893	50,096	86,801
F	1,785,801	111,661	118,523	122,208	123,273	116,270	116,884	118,997	131,295	141,816	141,553	122,670	90,867	69,436	61,402	60,067	138,879
2004	3,582,600	228,294	246,477	254,338	256,544	241,877	245,808	249,010	268,821	284,559	284,837	247,540	181,472	137,643	117,189	110,983	227,206
M	1,776,238	116,822	126,362	130,512	131,644	124,003	127,289	128,366	135,741	140,843	141,415	123,273	89,448	67,345	55,315	50,469	87,391
F	1,806,362	111,472	120,116	123,826	124,900	117,874	118,519	120,644	133,080	143,717	143,422	124,267	92,024	70,298	61,874	60,514	139,816
2005	3,631,440	229,032	236,192	250,112	249,350	253,754	245,350	248,459	249,423	262,187	274,531	272,164	235,442	169,464	125,289	101,495	229,196
M	1,807,404	117,748	120,728	127,493	128,096	129,672	125,950	128,454	128,645	132,066	135,398	134,414	116,816	83,126	60,576	47,018	90,754
F	1,824,036	111,284	115,464	122,169	121,254	124,082	119,400	120,005	120,778	130,121	139,133	137,750	118,626	86,338	64,713	54,477	138,442
2006	3,690,505	230,910	237,216	252,504	251,425	259,704	248,533	251,540	248,957	261,231	276,019	280,822	251,186	178,919	128,422	100,797	232,320
M	1,838,346	118,827	121,169	129,072	129,146	132,669	127,362	130,125	128,969	132,069	135,957	138,459	124,789	87,809	62,397	46,886	92,642
F	1,852,159	112,084	116,047	123,433	122,279	127,035	121,171	121,415	119,988	129,162	140,062	142,363	126,397	91,109	66,025	53,911	139,678
2007	3,745,455	232,408	237,817	254,456	253,175	265,424	251,381	254,219	248,087	259,811	277,016	289,200	267,475	188,546	131,380	99,909	235,153
M	1,867,339	119,709	121,393	129,971	130,012	135,559	128,602	131,594	129,094	131,850	136,279	142,355	133,053	92,583	64,148	46,667	94,469
F	1,878,116	112,699	116,424	124,485	123,163	129,865	122,779	122,625	118,993	127,961	140,737	146,845	134,422	95,963	67,231	53,242	140,683
2008	3,791,075	234,168	242,401	253,790	256,673	259,359	262,454	258,656	259,537	260,859	272,087	277,102	259,397	206,048	147,484	109,384	231,675
M	1,890,189	120,054	124,243	129,545	131,583	132,637	134,635	133,035	134,056	133,088	135,603	136,260	128,042	101,457	71,392	51,441	93,120
F	1,900,886	114,115	118,158	124,246	125,090	126,722	127,819	125,621	125,482	127,771	136,485	140,842	131,355	104,591	76,092	57,943	138,555
2009	3,823,465	234,555	243,024	253,412	257,141	258,627	265,937	259,627	260,379	257,872	268,503	275,905	265,073	217,588	157,370	113,323	235,131
M	1,907,023	120,139	124,680	129,257	128,721	132,292	136,416	133,315	134,572	132,163	134,323	135,497	130,628	107,279	76,204	53,551	94,988
F	1,916,442	114,416	118,344	124,155	125,420	126,335	129,521	126,312	125,806	125,709	134,180	140,408	134,445	110,309	81,166	59,771	140,143
2010	3,823,465	234,264	242,941	252,279	256,921	257,279	268,905	260,018	260,600	254,360	264,346	274,059	270,212	229,225	166,234	116,226	236,327
M	1,907,023	119,877	124,756	128,586	131,503	131,630	137,945	133,304	134,776	130,976	132,766	134,433	132,948	113,164	80,525	55,185	95,963
F	1,907,023	114,387	118,185	123,693	125,418	125,649	130,960	126,715	125,824	123,384	131,580	139,625	137,264	116,060	85,709	61,041	140,364

Table A-1. Population Distribution by Age and Sex, Oregon, 1950, 1960, 1970, 1975, 1980, 1985, 1990, 1995-2011

Year and Sex	Total	Age Groups															
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
2011	3,857,625	237,996	236,267	242,121	253,963	253,352	266,455	261,862	255,011	250,951	261,846	272,797	272,104	240,710	177,377	127,550	247,263
M	1,908,309	122,060	120,597	123,953	130,156	128,563	134,328	132,353	129,384	126,798	130,250	133,614	132,212	117,136	85,390	60,582	100,934
F	1,949,316	115,936	115,670	118,168	123,807	124,789	132,127	129,509	125,627	124,153	131,596	139,183	139,892	123,574	91,988	66,968	146,330

Source: 1950, 1960, 1970, 1980, 1990, and 2000 data are U.S. census. All other years' data are estimates provided by Center for Population Research and Census, Portland State University.

Table A-2. Population by Age and Sex for Oregon and its Counties: July 1, 2011

County	Total Population (Both Sexes)																			
	All Ages	0-4	5-9	10-14	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
OREGON	3,823,465	237,996	236,267	242,121	160,014	103,949	253,352	266,455	261,882	255,011	250,951	261,846	272,797	272,104	240,710	177,377	127,550	95,168	74,156	71,938
BAKER	16,215	866	837	912	304	304	665	788	758	796	900	1,088	1,265	1,379	1,349	1,160	927	648	480	442
BENTON	85,995	3,700	4,031	4,420	3,183	5,593	13,745	6,046	4,643	4,297	4,376	4,937	5,563	5,810	4,838	3,410	2,375	1,913	1,476	1,639
CLACKAMAS	379,480	21,417	23,934	26,036	16,637	9,195	19,867	21,072	22,208	24,056	26,172	28,998	30,141	29,275	25,319	17,966	12,071	8,710	6,835	7,971
CLATSOP	37,145	2,096	2,022	2,112	1,387	971	2,252	2,166	2,089	2,077	2,093	2,550	2,801	3,231	2,910	2,196	1,479	1,081	844	791
COLUMBIA	49,625	2,764	3,083	3,541	2,158	1,141	2,376	2,431	3,012	3,109	3,524	4,723	4,079	3,945	3,540	2,590	1,687	1,244	833	828
COOS	65,960	3,296	3,180	3,288	2,252	1,494	3,148	3,264	3,264	3,307	3,483	4,183	4,941	5,302	5,135	4,307	3,489	2,544	1,845	1,604
CROOK	20,885	1,105	1,215	1,358	817	383	869	941	1,140	1,118	1,168	1,401	1,695	1,639	1,750	1,510	1,117	741	517	471
CURRY	22,335	848	870	1,034	720	357	796	893	817	949	1,057	1,454	1,766	2,079	2,304	2,029	1,651	1,114	831	766
DESCHUTES	158,875	9,703	10,055	10,381	6,175	3,470	8,276	9,869	10,159	10,733	10,769	11,075	11,548	11,454	10,830	8,361	5,940	4,029	3,017	2,931
DOUGLAS	107,795	5,651	5,736	6,303	4,242	2,472	5,462	5,966	5,553	5,460	5,921	7,031	8,200	8,609	8,939	7,032	5,663	4,144	3,041	3,041
GILLIAM	1,880	97	81	99	73	26	61	73	97	82	106	143	173	177	161	130	101	69	58	74
GRANT	7,460	334	351	434	279	130	266	307	334	368	369	490	562	686	671	589	449	342	222	247
HARNEY	7,375	401	435	464	344	173	306	355	401	388	398	510	581	602	583	479	352	275	167	170
HOOD RIVER	22,625	1,486	1,632	1,686	1,012	549	1,177	1,380	1,442	1,496	1,650	1,705	1,737	1,604	1,185	879	593	539	409	483
JACKSON	203,590	12,034	11,648	12,577	7,974	5,097	12,074	11,900	11,694	11,438	11,994	13,494	14,818	15,559	14,671	11,369	8,392	6,579	5,207	5,431
JEFFERSON	21,845	1,542	1,405	1,534	977	529	1,205	1,239	1,201	1,291	1,401	1,559	1,486	1,525	1,506	1,220	941	596	404	283
JOSEPHINE	82,820	4,212	4,366	4,956	3,233	1,815	3,844	3,674	4,087	4,096	4,463	5,382	6,153	6,523	6,833	5,737	4,499	3,412	2,566	2,667
KLAMATH	66,590	3,986	3,899	4,158	2,707	1,818	4,213	3,635	3,547	3,760	3,888	4,454	4,740	5,179	4,846	3,845	2,882	2,226	1,487	1,310
LAKE	7,895	363	368	422	343	115	316	354	409	441	522	569	662	676	668	564	401	320	200	170
LANE	353,155	18,178	18,495	19,941	13,116	12,362	31,178	24,319	22,254	20,494	20,747	22,624	24,732	26,356	23,538	17,297	12,674	9,278	7,623	7,948
LINCOLN	46,155	2,277	2,073	2,167	1,480	872	2,052	2,266	2,332	2,245	2,405	2,986	3,739	4,436	4,446	3,531	2,609	1,834	1,269	1,118
LINN	117,340	7,713	7,650	8,061	4,798	2,983	6,834	7,298	7,160	7,257	7,052	7,916	8,228	8,417	7,492	5,946	4,399	3,209	2,487	2,439
MALHEUR	31,445	2,316	2,183	2,173	1,324	948	2,104	2,096	2,047	1,940	1,919	1,983	1,985	1,929	1,690	1,436	1,139	872	632	727
MARION	318,150	23,725	23,068	22,006	14,028	9,518	21,584	21,983	21,346	20,218	19,671	20,272	20,669	19,930	17,450	12,852	9,573	7,292	5,870	6,195
MORROW	11,270	787	853	950	570	325	583	635	654	739	666	712	836	775	703	504	388	277	171	143
MULTNOMAH	741,925	46,394	41,890	39,234	23,323	16,067	53,387	69,669	67,170	60,952	54,093	50,134	49,773	48,470	39,533	25,951	17,502	13,197	10,910	12,294
POLK	75,965	4,948	4,934	5,356	3,272	2,826	5,982	4,881	4,298	4,382	4,522	4,702	4,984	5,132	4,608	3,553	2,601	2,118	1,578	1,608
SHERMAN	1,765	95	91	99	63	30	75	84	93	90	80	139	158	126	147	113	97	78	60	46
TILLAMOOK	25,255	1,390	1,338	1,379	941	514	1,096	1,235	1,243	1,320	1,407	1,589	2,000	2,254	2,164	1,817	1,346	979	718	537
UMATILLA	76,580	5,704	5,615	5,577	3,437	2,169	4,900	5,225	4,895	4,919	4,940	5,011	5,073	5,058	4,223	3,143	2,339	1,730	1,402	1,319
UNION	25,980	1,669	1,629	1,582	1,040	901	1,907	1,604	1,357	1,314	1,345	1,601	1,826	1,967	1,782	1,353	1,032	808	600	682
WALLOWA	6,995	385	383	356	221	99	252	296	308	292	348	456	575	676	635	523	403	293	233	232
WASCO	25,300	1,649	1,583	1,597	1,050	597	1,363	1,479	1,418	1,395	1,449	1,573	1,837	1,902	1,844	1,365	1,000	812	601	786
WASHINGTON	536,370	38,327	39,483	37,263	21,738	12,630	32,207	41,698	42,119	41,979	39,751	38,583	36,521	32,695	26,853	18,130	12,363	9,169	7,474	8,389
WHEELER	1,435	70	58	78	58	21	40	62	59	62	58	91	102	140	113	138	100	84	56	45
YAMHILL	99,850	6,458	6,793	7,120	4,379	3,454	6,897	6,034	6,224	6,360	6,521	6,727	6,939	6,503	5,681	4,353	2,975	2,394	1,930	2,108

Source: Center for Population Research and Census, Portland State University

Table A-2. Population by Age and Sex for Oregon and its Counties: July 1, 2011

County	Male Population																			
	All Ages	0-4	5-9	10-14	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
OREGON	3,623,465	122,060	120,597	123,955	77,206	52,946	128,863	164,328	132,353	123,384	126,796	130,230	133,614	132,212	117,136	85,390	60,882	42,971	31,107	26,859
BAKER	8,193	418	434	466	387	169	353	420	412	431	461	557	604	686	667	881	489	226	164	164
BENTON	43,047	1,866	1,970	2,282	1,644	2,819	7,410	3,269	2,386	2,133	2,169	2,390	2,632	2,841	2,432	1,634	1,130	874	620	588
CLACKAMAS	186,064	11,156	12,185	13,705	8,504	4,850	10,206	10,631	11,049	11,858	12,882	14,210	14,772	14,231	12,282	8,688	5,655	3,866	2,571	2,571
CLATSOP	18,468	1,002	1,025	1,043	750	507	1,216	1,111	1,107	1,053	1,050	1,276	1,376	1,550	1,437	1,075	734	514	347	285
COLUMBIA	24,853	1,439	1,568	1,889	1,135	606	1,223	1,201	1,476	1,527	1,762	1,866	2,031	1,987	1,740	1,342	836	594	348	292
COOS	31,067	1,688	1,595	1,664	1,128	770	1,616	1,664	1,645	1,599	1,657	2,073	2,415	2,547	2,900	2,075	1,712	1,231	833	657
CROOK	10,329	567	617	695	423	204	448	463	553	580	579	666	796	773	850	778	589	349	249	180
CURRY	11,037	457	449	550	378	196	415	466	401	483	474	548	648	1,032	1,086	807	807	552	411	304
DESCHUTES	78,515	4,964	5,145	5,327	3,184	1,794	4,225	4,974	5,091	5,430	5,305	5,346	5,546	5,376	5,355	4,135	3,007	1,880	1,389	1,040
DOUGLAS	53,226	2,915	2,904	3,239	2,207	1,330	2,817	2,619	2,792	2,892	2,892	3,430	4,041	4,202	4,228	3,507	2,778	2,045	1,446	1,120
GILLIAM	971	56	39	60	43	17	36	40	53	46	57	71	95	79	90	59	49	34	25	22
GRANT	3,697	180	173	209	153	76	134	151	169	185	166	245	264	348	339	317	234	173	101	100
HARNEY	3,749	218	230	231	195	94	166	157	211	190	183	248	299	309	297	259	186	135	76	66
HOOD RIVER	11,326	748	863	863	502	296	639	699	725	760	788	871	866	820	617	471	281	248	159	144
JACKSON	99,390	6,149	5,907	6,388	4,014	2,521	5,975	6,039	5,748	5,748	5,963	6,620	7,121	7,477	7,047	5,470	4,049	3,000	2,197	1,957
JEFFERSON	11,361	819	711	787	489	277	648	680	651	698	748	822	763	782	751	610	514	311	189	107
JOSEPHINE	40,297	2,137	2,216	2,488	1,730	972	1,926	1,990	2,041	2,046	2,180	2,603	2,937	3,064	3,324	2,743	2,187	1,595	1,136	973
KLAMATH	33,123	2,003	2,046	2,101	1,395	944	2,153	1,833	1,788	1,891	1,941	2,202	2,313	2,519	2,422	1,940	1,414	1,065	670	483
LAKE	4,184	172	194	210	175	84	181	190	237	247	283	318	335	370	343	305	218	161	93	79
LANE	173,880	9,281	9,421	10,275	6,758	4,051	16,101	12,309	11,359	10,372	10,395	11,018	11,856	12,547	11,519	8,250	6,009	4,254	3,146	2,788
LINCOLN	22,465	1,163	1,068	1,102	815	475	1,098	1,160	1,183	1,173	1,150	1,441	1,746	2,047	2,094	1,664	1,271	835	565	395
LINN	57,902	4,032	3,956	4,078	2,422	1,523	3,377	3,648	3,543	3,636	3,562	3,904	4,040	4,174	3,651	2,876	2,064	1,437	1,107	871
MALHEUR	17,012	1,183	1,124	1,071	689	509	1,258	1,243	1,242	1,166	1,132	1,117	1,136	1,002	890	717	549	421	281	284
MARION	158,377	12,265	11,764	11,763	7,216	4,909	11,922	11,306	11,055	10,301	10,083	10,246	10,184	9,618	8,389	5,977	4,443	3,190	2,387	2,089
MORROW	5,795	412	433	484	293	162	319	347	318	362	344	373	423	376	374	247	191	144	95	58
MULTNOMAH	366,732	23,727	21,340	20,445	11,923	8,954	25,914	34,269	33,813	31,367	27,961	25,484	24,771	23,996	19,365	12,263	7,903	5,562	4,205	3,870
POLK	36,955	2,808	2,558	2,721	1,990	1,315	2,930	2,271	2,069	2,148	2,233	2,346	2,358	2,409	2,233	1,696	1,239	983	683	596
SHERMAN	897	45	46	51	35	15	40	37	51	55	39	66	84	62	79	53	43	42	27	26
TILLAMOOK	12,741	708	683	732	504	305	682	647	655	681	729	808	968	1,100	1,069	880	670	473	330	215
UMATILLA	39,958	2,954	2,797	2,872	1,793	1,151	2,746	2,944	2,728	2,640	2,620	2,686	2,622	2,634	2,135	1,564	1,189	795	598	489
UNION	12,808	855	850	778	575	460	904	831	705	623	694	729	873	1,012	890	671	525	360	251	222
WALLOWA	3,417	186	178	172	114	53	117	145	166	149	166	193	279	327	332	257	224	148	110	99
WASCO	12,545	820	809	791	572	323	683	767	719	700	721	758	903	958	928	706	490	362	242	291
WASHINGTON	263,566	19,602	19,752	19,195	11,093	6,479	16,005	20,603	20,986	21,064	20,009	19,003	17,829	15,933	12,547	8,415	5,469	3,906	2,945	2,702
WHEELER	714	40	32	37	35	16	21	34	37	28	23	39	50	68	49	77	45	39	28	17
YAMHILL	50,077	3,353	3,515	3,619	2,265	1,723	3,485	3,192	3,209	3,324	3,370	3,438	3,435	3,177	2,777	2,121	1,418	1,096	819	742

Source: Center for Population Research and Census, Portland State University

Table A-2. Population by Age and Sex for Oregon and its Counties: July 1, 2011

County	Female Population																			
	All Ages	0-4	5-9	10-14	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
OREGON	3,823,465	115,936	115,970	116,166	72,806	51,001	124,789	132,127	129,589	125,927	124,153	131,596	133,183	139,892	123,574	91,986	66,968	52,196	45,049	51,083
BAKER	8,022	448	403	446	304	135	312	368	345	365	439	531	651	694	682	679	468	322	254	277
BENTON	42,948	1,835	2,062	2,158	1,539	2,774	6,335	2,777	2,277	2,164	2,207	2,546	2,931	2,969	2,406	1,776	1,245	1,039	856	1,051
CLACKAMAS	192,426	10,262	11,749	12,331	8,133	4,345	9,660	10,441	11,158	12,198	13,290	14,789	15,370	15,044	13,037	9,277	6,416	4,844	4,082	5,400
CLATSOP	19,687	1,094	998	1,069	636	464	1,036	1,055	981	1,024	1,043	1,274	1,425	1,680	1,473	1,121	745	566	497	506
COLUMBIA	24,772	1,346	1,515	1,672	1,023	535	1,162	1,229	1,535	1,582	1,762	1,857	2,048	1,948	1,801	1,248	851	650	485	536
COOS	31,893	1,608	1,586	1,624	1,125	724	1,532	1,597	1,619	1,519	1,650	2,110	2,526	2,755	2,635	2,233	1,777	1,313	1,012	947
CROOK	10,526	538	598	663	393	180	421	478	588	568	589	735	799	865	900	731	528	392	268	292
CURRY	11,299	395	422	484	311	161	381	428	416	479	574	730	918	1,046	1,208	1,025	844	562	421	462
DESCHUTES	80,360	4,739	4,910	5,055	2,991	1,676	4,051	4,895	5,067	5,303	5,464	5,726	6,002	6,078	5,576	4,225	2,932	2,149	1,629	1,891
DOUGLAS	54,569	2,736	2,832	3,065	2,036	1,142	2,644	2,887	2,761	2,747	3,029	3,601	4,159	4,490	4,282	3,525	2,885	2,331	1,698	1,921
GILLIAM	909	42	42	39	30	9	25	33	43	36	49	72	77	88	71	71	53	35	32	52
GRANT	3,753	174	179	225	126	54	131	156	165	183	203	246	318	338	333	271	215	169	120	148
HARNEY	3,626	183	205	221	149	79	142	188	190	199	215	262	282	293	286	219	167	140	91	105
HOOD RIVER	11,299	741	769	822	510	253	538	661	718	736	882	833	871	785	568	448	312	290	250	340
JACKSON	104,560	5,884	5,742	6,189	3,959	2,576	6,100	5,861	5,946	5,691	6,032	6,874	7,696	8,082	7,624	5,899	4,343	3,578	3,011	3,474
JEFFERSON	10,484	723	694	747	477	251	557	579	550	593	653	736	723	733	755	610	427	285	214	176
JOSEPHINE	42,523	2,076	2,190	2,458	1,504	843	1,918	1,884	2,046	2,050	2,283	2,760	3,216	3,460	3,609	2,984	2,311	1,817	1,430	1,694
KLAMATH	33,467	1,983	1,852	2,056	1,312	876	2,059	1,802	1,759	1,869	1,947	2,252	2,426	2,561	2,424	1,906	1,468	1,161	817	827
LAKE	3,701	191	174	212	168	52	134	164	172	195	229	251	327	306	326	259	183	160	107	91
LANE	179,475	8,897	9,074	9,665	6,358	6,311	15,077	12,010	10,895	10,122	10,352	11,605	12,876	13,909	12,020	9,047	6,665	5,024	4,477	5,190
LINCOLN	23,690	1,114	1,005	1,064	664	397	994	1,126	1,149	1,071	1,255	1,545	1,993	2,389	2,352	1,867	1,338	996	694	723
LINN	59,438	3,681	3,693	3,983	2,376	1,460	3,457	3,651	3,617	3,621	3,490	4,012	4,188	4,243	3,841	3,070	2,335	1,772	1,380	1,568
MALHEUR	14,433	1,133	1,060	1,102	635	440	847	853	806	774	787	866	849	927	800	720	590	451	351	444
MARION	159,773	11,460	11,304	11,143	6,812	4,608	10,393	10,677	10,291	9,917	9,588	10,026	10,484	10,312	9,061	6,875	5,130	4,102	3,483	4,106
MORROW	5,475	375	419	466	277	143	264	288	336	358	322	340	413	399	329	256	197	133	76	85
MULTNOMAH	375,193	22,657	20,540	19,189	11,401	9,113	27,473	35,400	33,357	29,585	26,132	24,650	25,002	24,475	20,168	13,688	9,599	7,635	6,705	8,424
POLK	39,910	2,439	2,376	2,635	1,583	1,510	3,052	2,311	2,229	2,214	2,289	2,356	2,626	2,723	2,375	1,858	1,362	1,165	895	1,012
SHERMAN	868	50	46	48	28	15	35	46	43	35	41	72	74	64	68	59	53	36	20	20
TILLAMOOK	12,514	682	655	647	437	209	504	587	588	638	678	781	1,031	1,154	1,095	937	675	505	398	322
UMATILLA	36,622	2,750	2,818	2,705	1,644	1,018	2,154	2,281	2,167	2,278	2,220	2,325	2,451	2,424	2,088	1,579	1,150	935	803	830
UNION	13,172	814	779	794	465	441	1,003	773	652	690	651	873	954	955	891	682	507	448	349	461
WALLOWA	3,578	198	205	184	107	47	135	151	172	143	182	263	295	349	303	265	179	144	123	133
WASCO	12,755	829	774	806	478	274	680	712	699	694	728	815	934	944	916	659	510	450	358	495
WASHINGTON	273,012	18,725	18,741	18,068	10,645	6,151	16,201	21,085	21,133	20,914	19,741	19,520	18,691	17,002	14,306	9,714	6,894	5,253	4,529	5,687
WHEELER	721	30	26	40	24	5	19	29	23	34	35	52	52	71	65	61	55	45	28	28
YAMHILL	49,773	3,106	3,278	3,501	2,114	1,731	3,412	2,842	3,015	3,036	3,151	3,289	3,504	3,326	2,903	2,232	1,557	1,298	1,112	1,365

Source: Center for Population Research and Census, Portland State University

APPENDIX B: TECHNICAL NOTES

Appendix B: Technical notes - definitions

Births

- **Apgar Score** is a summary measure of the infant's condition based on heart rate, respiratory effort, muscle tone, reflex irritability, and color. The highest possible score is ten. A low Apgar score (seven or less), measured five minutes after birth, indicates the infant is at increased risk of morbidity and mortality.
- **Births to Unmarried Mothers Ratio is the number of births to unmarried mothers per 1,000 live births.** Ratios differ from rates.
- **Crude Birth Rate** is the number of live births per 1,000 total population.
- **Live Birth** is the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which, after such a separation, breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered live born.¹
- **Low Birthweight Infant** is a live born infant with a birthweight of less than 5 pounds, 8 ounces (2,500 grams) as reported on the birth certificate.
- **Birth rate per 1,000 men** is the number of births per 1,000 males in Oregon. In computing birth rates by age of father, births tabulated as age of father not stated are distributed in the same proportions as births with known age within each five-year-age classification of the mother. The male birth rate is used to facilitate comparisons between Oregon and the national rate.

NCHS uses this procedure to avoid distortion in rates resulting from the disregard of the relationship between the mother and fathers' age.

Deaths

- **Crude Death Rate** is the number of deaths per 1,000 or 100,000 total population.
- **Fetal Death** is death prior to the complete expulsion or extraction from its mother of a product of conception of at least 20 weeks gestation, except where such expulsion results from a therapeutic abortion; the death is indicated by the fact that after such separation, the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.
- **Fetal Death Ratio** is the number of fetal deaths per 1,000 live births. Ratios differ from rates.
- **Infant Death** is the death of a child prior to its first birthday.
- **Infant Death Rate** is the number of infant deaths per 1,000 live births.
- **Maternal Death Rate** is the number of female deaths attributed to childbirth or to complications of pregnancy or the puerperium, per 100,000 live births.
- **Neonatal Death** is the death of a child within the first 27 days of life.
- **Neonatal Death Rate** is the number of neonatal deaths per 1,000 live births.
- **Postneonatal Death** is the death of a child after 27 days of life and before its first birthday.
- **Postneonatal Death Rate** is the number of postneonatal deaths per 1,000 live births.
- **Perinatal Death** is the death of a fetus after 20 weeks gestation or the death of a live-born infant prior to the 28th day of life. Other medical literature may include different time periods.
- **Perinatal Death Ratio** is the number of perinatal deaths per 1,000 total live births. Ratios differ from rates.

**Medical personnel -
abbreviations used in tables**

- C.N.M. — certified nurse midwife
- D.C. — doctor of chiropractic medicine
- D.O. — doctor of osteopathic medicine
- L.D.M. — licensed direct entry midwife
- M.D. — medical doctor
- N.D. — naturopathic doctor
- R.N. — registered nurse

Endnote

¹Vital Statistics of the United States, 1982, vol. 1, section 4, page 1. U.S. Department of Health and Human Services, Public Health Service, National Center for Health Statistics, Maryland, 1986.

Appendix B: Technical notes - methodology

"That, sir, is the good of counting; it brings everything to a certainty, which before floated in the mind indefinitely."

— Samuel Johnson

Induced termination of pregnancy

The induced termination of pregnancy data in this report represents nearly all abortions performed in Oregon during the current data year. Missing data is due to incomplete reporting by providers. Another consideration is the place of occurrence (Oregon) versus the mother's place of residence (residence could be anywhere). That is, the data constitute events associated with the place of occurrence rather than the "residence data" used in estimating births. This is necessary because many abortions obtained out-of-state by Oregon residents are not reported to Oregon's Center for Health Statistics. It reflects the great variation in abortion reporting procedures among states (e.g., some states do not record the patient's residence) as well as the fact that a comprehensive data collection network among all states, similar to that used in reporting births, does not exist in regard to abortions.

Number of First-Time Abortions By Year and Age Group, Oregon Occurrence, 1991-2005						
YEAR	AGE GROUPS					
	15-19	20-24	25-29	30-34	35-39	40-44
91	2584	2678	1190	716	402	122
92	2137	2396	1067	655	380	117
93	2267	2393	1176	598	357	117
94	2370	2379	1233	693	376	135
95	2510	2486	1402	755	463	144
96	2511	2566	1416	771	468	152
97	2679	2794	1502	835	501	151
98	2525	2679	1496	786	495	175
99	2426	2776	1482	803	503	163
00	2270	2888	1499	827	487	176
01	2194	3018	1445	826	481	149
02	1840	2665	1383	836	443	181
03	1839	2575	1270	749	420	165
04	1607	2370	1232	710	396	152
05	1605	2307	1261	729	427	178

In using “occurrence” data rather than “residence” data to estimate abortion rates for Oregon residents, an implicit assumption is made that the number of Oregon residents who leave the state to obtain an abortion equals the number of out-of-state residents who obtain an abortion in Oregon. In formulating generalizations which involve trends or long-term behavioral patterns, annual totals are treated as sample values generated by ongoing social, economic, or political processes and thus subject to “chance” variability. For most purposes, numbers offered in this report should be viewed only as careful approximations and interpreted only within the framework of statistical safeguards developed to take sampling variability into account.

Some rates in this section are based on relatively few events and for most comparisons may be used only with extreme caution—due to the chance fluctuations associated with small numbers. A small percentage of abortion reports lack certain data items. This may greatly affect the estimation of rates. To minimize the potential bias inherent in such estimates, unknown events in some cases (Table 4-1) are assigned to the categories of analysis proportional to the distribution of known events. In this way, rates calculated for subsets (e.g., “abortions per thousand teen females”) are, on average, less affected by incomplete data.

Estimation of the cumulative proportion of females who have experienced an abortion

This figure is estimated by tracing the abortion experience of a specific cohort of females over an extended time period. In the table on the previous page, an approximation of the “cumulative total” of first-time abortions by one of the cohorts may be obtained by summing the figures in the boxed area.

To obtain this value, it is necessary to sum the number of first-time abortions for 15- to 19-year-olds from 1991 to 1995 and those of 20- to 24-year-olds from 1996 to 2000 with those of 25- to 29- year-olds from 2001 to 2005. This provides an estimate of the numerator in the following equation:

$$\begin{array}{l} \text{Cumulative proportion of females} \\ \text{who have had an abortion} \end{array} = \frac{\text{Total number of first time abortions} \\ \text{among a specific cohort of females}}{\text{Number of females in cohort}}$$

The denominator may be estimated by averaging the size of the cohort during 1991 to 1995. Table A-1 lists the annual estimate of the number of females within each cohort. For example, in 1991, the number of 15- to 19-year-old females was estimated to be 93,043; in the next year, it was 95,064. The average size of this age group from 1991 to 1995 was 98,540. Similarly, the number of 20- to 24- year-old women between 1996 and 2000 was 104,214 on average; the number of 25- to 29-year-olds averaged 93,065 between 2001 and 2005. Thus, between 1991 and 2005 the cohort of interest had an average population size of 98,606.

Substituting into the formula given above:

$$C_p = \frac{\text{Sum of First Abortions}}{N} = \frac{32,162}{98,606} = 0.326 \text{ or } 32.6 \text{ percent}$$

This figure approximates the proportion of females in the 25- to 29-year-old cohort who, by 2005, had ever had an abortion. This method of estimation assumes factors such as deaths and migration have not altered the composition of the female population in Oregon—that is, the women who left the state displayed the same characteristics as those who have moved into Oregon. It also assumes patients with a history of previous abortions do not report the current procedure as a first abortion.

Teen pregnancy

Pregnancy estimates are based upon the estimated number of teen births and induced terminations among Oregon teens; they do not include the number of fetal deaths or miscarriages (spontaneous abortions) which occur. The estimation of teen births is considered to be relatively complete and includes births to resident teens even when they occur out-of-state. The estimation of teen abortions is based on all reported abortions to teenage residents of Oregon; however, because states often do not report abortions obtained within their borders to the state of residence as occurs with vital events such as birth and death, an unknown number of Oregon teens obtain abortion services out-of-state. As a consequence, estimates of teen abortions and teen pregnancies should be considered minimal in nature.

Furthermore, because estimates of abortion for teens are based on “residence data,” figures given in Chapter 4 do not correspond exactly to those in Chapter 3, which are based on “occurrence data.” (See Induced Termination of Pregnancy methodology section.) The estimation of rates requires an estimate of the size of the appropriate population. Such estimates are now available for 15- to 17-year-olds and 18- to 19-year-olds for each county on an annual basis. Because estimated rates based on a small population may vary greatly due to chance factors, rates of teen pregnancy, birth, and abortion were calculated for these age groups only if there were 50 or more female residents of the appropriate age group in the county. Similarly, rates for 15- to 19-year-olds were calculated whenever a county had 50 or more female residents in this age group.

Great caution must be taken in the use of pregnancy statistics associated with females under 15 years of age. This is due to the fact that relatively few events are recorded each year for this group. Also, rates are based on the estimated population cohort of 10- to 14-year-old females—many of whom are physiologically not yet at risk of pregnancy. Thus, any direct comparison of rates between this group and another age group—e.g., 15- to 17-year-olds—would be inappropriate.

Demographics

The extent to which Oregon’s demographic composition may affect its national ranking is indicated by comparisons shown in the sidebar. In 1990, Oregon’s birth rate for all teens (regardless of race or ethnic affiliation) was 9 percent lower than that of the U.S. and, among all 50 states, it had the 24th lowest teen birth rate. Yet, if comparisons were made in terms of births to non-Hispanic white teens only, Oregon would have been 36th and the rate would have been 19 percent higher than that of the U.S. This results from the fact that 87 percent of 15- to 19-year-old females in Oregon were non-Hispanic whites and only 7 percent were either Hispanic or non-Hispanic African Americans. By comparison, 70 percent of the U.S. female population of that age were non-Hispanic whites, and 26 percent were Hispanics or non-Hispanic African Americans.

Teen Birth Rates, U.S. vs. Oregon, Ages 15-19, 2008		
Race/Ethnicity	Birth Rate ¹	
	U.S.	Oregon
TOTAL*	41.5	34.0
Non-hispanic whites	26.7	26.7

¹ All rates per 1,000 females ages 15-19.
* All races and ethnicities combined.

Appendix B: Technical notes - step-by-step instructions

“Through and through the world is infested with quantity: To talk sense is to talk quantities. It is no use saying the nation is large—How large? It is no use saying that radium is scarce—How scarce? You cannot evade quantity. You may fly to poetry and music, and quantity and number will face you in your rhythms and your octaves.”

—Alfred North Whitehead

DEATHS
INFANT DEATHS
NEONATAL DEATHS
POSTNEONATAL DEATHS
FETAL DEATHS
LOW BIRTHWEIGHT INFANTS
PREGNANCIES
INDUCED ABORTIONS
MARRIAGES
ANNULMENTS
DIVORCES

Data users are diverse, including public health officials evaluating a program by using death data, demographers projecting school enrollments with birth data, and business people deciding to open a formal-wear shop based on marriage data. Many of these users have a thorough

knowledge of statistics. But others find the entire subject matter confusing and intimidating. For either group, a misunderstanding of what vital statistics mean can lead to wrong conclusions. Therefore, this section is included to provide an overview of how to use vital statistics. It is addressed to the person looking at vital events for the first time, but the experienced user may also find a review helpful.

Step 1: Finding the correct number

The first step is to determine how many instances of a particular vital event took place during the year. This involves asking two questions:

Which event or events are appropriate?

This may not be as simple as it sounds. For one thing, examining more than one type of event may be required. For example, someone concerned with teenage pregnancies will have to consider the number of induced abortions as well as the number of births that occur among teens. Taken together, they provide a useful measure of the number of pregnancies.¹

Deciding which events to use is important since sometimes the choice of one event over another can easily lead to different conclusions. To determine which events are appropriate, read the “Technical Notes: Definitions” section. The narratives also contain useful examples.

Who should be counted?

If you are a hospital planner who is deciding to expand or contract delivery services, you want to count the number of births that occurred in your area, regardless of where the parents live. If you are projecting school enrollment, you want to count only how many children will potentially be residing in your area. Fortunately, vital events are usually reported so that both of these data needs can be met.

Occurrence data:

The event (the death, birth, marriage, etc.) actually took place in the geographic region indicated (either Oregon or a particular county). The person participating in the event may have lived in Podunk, New York.

Residence data:

The person involved in the event lived in the geographic region mentioned, but the event itself may have taken place anywhere in the United States or Canada. In other words, a resident of Marion County who died in an accident while on vacation in Michigan has been added to the Marion County resident death figure.

When in doubt about which type of data to use, resident figures are usually the best choice. Most birth and death data are published by residence, which means that comparisons with other states or the United States as a whole will be easier. Exceptions to this rule are listed in the individual sections.

Once the right event has been determined, and the choice between occurrence and residence data has been made, the statistician can find the correct figures in the table(s) in this book. If the needed table is not listed, contact the Center for Health Statistics for more information.

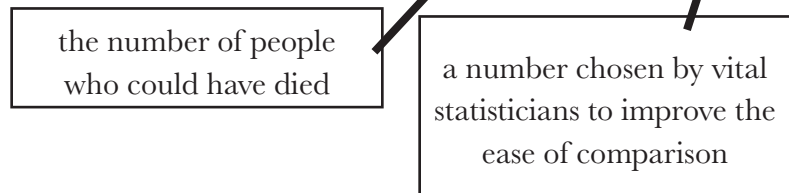
Step 2: Making the number meaningful with rates and ratios

In many instances simply knowing the number of events is not sufficient. For example, we know more people died in Multnomah County than in Wheeler County, because Multnomah County has a much larger population. But what is the likelihood of dying in each county?

In order to answer this question, statisticians calculate rates. This means that the number of events that occurred is compared to the population for which that event could have occurred, and the figure is then standardized to some number (such as 1,000 or 100,000) for convenience.

Here is an example:

$$\text{CRUDE DEATH RATE} = (\text{DEATHS}/\text{POPULATION}) \times 1,000$$



The more specifically a statistician can define the “population at risk” (the denominator or bottom part of the formula), the more meaningful the rate is. For example, the crude birth rate, which compares the number of births to the population, is not nearly as informative as the fertility rate, which uses only the number of women of childbearing age (15-44) for comparative purposes. The fertility rate is not distorted by changes in the number of men or prepubescent or post-menopausal women in the population. (The turn of the century notion that only married women between the ages of 15 and 44 would be considered at risk of pregnancy has been abandoned for obvious reasons.)

When calculating rates and ratios, great care must be taken to make certain that the appropriate time periods, geographical boundaries, and populations are used.

Unfortunately we do not always have the correct denominator for the equation. In these situations a substitute is used. For example, how many people are at risk of getting divorced? The number of married people is only available for census years. As a substitute, the crude divorce rate is calculated using the total population regardless of marital status. In other situations, the event is simply compared to another related number. For instance, the abortion ratio compares the number of abortions to the number of births. This is easier and more accurate than trying to determine the true denominator, which is the total number of pregnant women.

Step 3: Comparing two or more numbers

Numbers are more meaningful when they are converted into rates and ratios. But problems can arise when rates or ratios are compared for different geographical areas, different time periods, or different categories such as men versus women.

Chance variation

Statisticians expect a certain amount of chance variation and have methods to take this into account. The confidence interval uses the number of cases and their distributions to determine what the rate “really is.” For example, a statistician will say, “We are 95% sure that the true infant death rate for Oregon in 1986 was 9.47 ± 0.97 ; that is, it lies somewhere between 8.50 and 10.44.” If two rates have overlapping confidence intervals, then the difference between them may be due to this chance variation. In other words the difference is not statistically significant.

When comparing rates and ratios, differences should be tested for statistical significance. Formulas are listed in the next section of this chapter.

Small numbers

Chance variation is a common problem when the numbers being used to calculate rates are extremely small. Large swings often occur in the rates that do not reflect real changes. Consider Clatsop County’s infant mortality rates for a five-year period.

CLATSOP COUNTY			
YEAR	BIRTHS	INFANT DEATHS	INFANT DEATH RATES
2001	380	1	2.63
2002	432	6	13.89
2003	367	6	16.35
2004	397	2	5.04
2005	411	1	2.43
2001-2005	1,987	16	8.1

Clatsop county's five year infant death rate is 8.1, which is 2.5 percentage points higher than the state rate (5.6). Yet, for some years Clatsop's rate is more than six times as high as the rate of other years simply because five additional infants died. Public health officials would waste a good deal of energy reacting to these annual rates.

Many rates based on small numbers are published in this book because readers demand them. But, anyone preparing to make important decisions based on these rates should be wary. Consider this rule of thumb: a rate based on 20 cases has a 95 percent confidence interval about as wide as the rate itself (i.e., the interval for a rate of 50 is between 25 and 75). Even large differences between two rates based on 20 cases or less are probably not statistically significant.

If 20 is too few, how many cases are sufficient to say that a true difference exists? Unfortunately, we have no easy rules for this. To be safe, the vital statistician should always try to combine several years of data or consolidate geographical areas. Confidence intervals should be calculated, and differences should be tested for statistical significance.

Changes in measurement

Another problem is that the numbers being compared have not always been based on the same type of measurement. Definitions, population estimates, certificates, and coding procedures change from time to time as the need arises. This can create "artificial" differences and can disguise "real" differences. The cause-of-death item provides an excellent example in comparability:

It appears that the incidence of hypertensive disease increased. But actually, a new coding scheme resulted in more deaths being coded as due to hypertensive disease.

During the late 1970s, approximately 80 to 85 people died each year due to hypertensive disease.	Rate = 3.3 per 100,000 population
In 1979, 250 people died from this cause.	Rate = 9.8 per 100,000 population

Taking age, sex, and race into account

Mr. G.C. Whipple noted in 1923 that, “We might find that the death rate of bank presidents was higher than that of newsboys; but this would not be because of different occupations, but because of different ages.” We expect older people to die at a higher rate than younger people. We also expect people in their twenties to have more babies than the very young or the very old. Sex and race, as well as age, can affect rates drastically.

When comparing two places or two points in time, it is necessary to take these influencing characteristics into account. To the right is an example.

	1950	1960
Crude death rate	9.1	9.5
Age-specific death rates		
0-4	5.9	5.7
5-14	0.6	0.4
15-24	1.5	1.1
25-44	2.4	2.1
45-64	11.1	10.6
65+	58.4	56.8

The crude death rate increased between 1950 and 1960 from 9.1 to 9.5 deaths per 1,000 population. But, an examination of the age-specific death rates for each

group indicates that all these rates decreased. This apparent contradiction is explained by the fact that in 1960 a larger proportion of the population was older. Because the risk of death is higher in older persons, the crude death rate increased.

Before comparing two places or two time periods, always compare the population characteristics first. If discrepancies are noted in any relevant variables, then the rates should be adjusted or standardized in order to make the comparisons free of differences in the structure of the populations. The formulas for doing this are listed in the following section.

Step 4: Analyzing the data

The first three steps have been fairly mechanical:

- (1) = Choose the correct events and the correct group to determine the number of events which took place for the geographical areas and time periods.
- (2) = Calculate the rates.
- (3) = Compare these rates to determine if the differences are statistically significant.

NOW the vital statistician must begin to ask the difficult questions. If we find that two rates are statistically significantly different, how can we find out why they are different? If the differences that we expected did not prove to be significant, is there another item which perhaps is masking an actual difference? Frequently, the statistician has to refine the research question and begin all over again.

Consider the researcher who asks, “Since 2005, has chronic lower respiratory disease posed a greater risk to Oregonians?” If the researcher looked at the overall rate, the answer would be “yes,” but closer examination reveals that the death rate for males has declined. It is among women that the rate has moved sharply upward, reflecting their increased smoking prevalence during recent decades. This gender dichotomy would need to be addressed in a study of CLRD fatalities.

Help

Several sources of help are available. Many of the widely used rates and ratios are presented in the **Quick Reference** section, and narratives and figures are included throughout this report to illustrate changes. And finally, the staff of the Center for Health Statistic’s are available for data users who need assistance.

Endnote

¹ A more complete and accurate estimate of pregnancies based on outcomes would include: (1) births; (2) fetal deaths (stillbirths); (3) induced abortions; and (4) spontaneous abortions (miscarriages). However, fetal deaths occur in less than 1 percent of all pregnancies and are relatively constant in relation to births (see the *Fetal and Infant Mortality* chapter in Volume 2) and the number of miscarriages that occur is not available in vital records. Nevertheless, a measure that excludes these outcomes provides an adequate indicator of the number of pregnancies.

Appendix B: Technical notes - formulas

GENERAL:

$$\text{PERCENT CHANGE} = \frac{\text{New Data} - \text{Old Data}}{\text{Old Data}} \times 100$$

$$\text{Birth rate, Oregon, 1993} = 13.7$$

$$\text{Birth rate, Oregon, 1994} = 13.6$$

$$\text{Percent change} = \frac{13.6 - 13.7}{13.7} \times 100 = -0.7\%$$

PREGNANCY:

$$1. \text{ (CRUDE) BIRTH RATE} = \frac{\text{Resident Births}}{\text{Population}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{41,832}{3,082,800} \times 1,000 = 13.6$$

$$2. \text{ AGE-SPECIFIC BIRTH RATE} = \frac{\text{Resident Births To Mothers in Age Category}}{\text{Female Population in Age Category}} \times 1,000$$

$$\text{Oregon, 1994, Age 20-24} = \frac{10,999}{104,718} \times 1,000 = 105.0$$

$$3. \text{ FERTILITY RATE} = \frac{\text{Resident Births to Mothers Aged 15-44}}{\text{Female Population Aged 15-44}} \times 1,000$$

NOTE: Some publications use the following: $\frac{\text{All Resident Births}}{\text{Female Population Aged 15-44}}$

$$\text{Oregon, 1994} = \frac{41,659}{682,428} \times 1,000 = 61.0$$

$$4. \text{ TOTAL FERTILITY RATE} = \left(\text{The Sum of Age Specific Birth Rates in 5-Year Categories between 15 and 44} \right) \times 5$$

$$\text{Oregon, 1994} = 5 (51.3 + 105.0 + 115.4 + 78.5 + 30.2 + 6.0) = 1,932.0$$

$$5. \text{ FETAL DEATH RATIO} = \frac{\text{Resident Fetal Deaths (350+ grams Birthweight)}}{\text{Resident Live Births}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{224}{41,832} \times 1,000 = 5.4$$

$$6. \text{ FETAL DEATH RATE} = \frac{\text{Resident Fetal Deaths (350+ grams Birthweight)}}{\text{Resident Live Births} + \text{Resident Fetal Deaths}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{224}{43,591 + 224} \times 1,000 = 5.1$$

$$7. \text{ PERINATAL DEATH RATE} = \frac{\text{Resident Neonatal Deaths} + \text{Resident Fetal Deaths (350+ grams Birthweight)}}{\text{Resident Live Births} + \text{Resident Fetal Deaths}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{148 + 203}{41,566 + 203} \times 1,000 = 8.4$$

Note: Publications vary in the definition of fetal deaths. In addition, some measures employ gestational age in place of birthweight. Fetal and perinatal death rates are based on year of birth.

$$8. \text{ ABORTION RATIO} = \frac{\text{Resident Abortions}}{\text{Resident Births}} \times 1,000 \text{ or } \frac{\text{Occurrence Abortions}}{\text{Occurrence Births}} \times 1,000$$

$$\text{Oregon, 1994, Occurrence} = \frac{13,392}{43,591} \times 1,000 = 307.2$$

$$9. \text{ ABORTION RATE} = \frac{\text{Resident Abortions or Occurrence Abortions}}{\text{Female Resident Population Aged 15-44}} \times 1,000$$

$$\begin{aligned} \text{Oregon 1994, Occurrence} \\ \text{with total adjusted} \\ \text{for unknown ages} \end{aligned} = \frac{13,300}{682,428} \times 1,000 = 19.5$$

DEATHS:

$$10. \text{ (CRUDE) DEATH RATE} = \frac{\text{Resident Deaths}}{\text{Population}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{27,361}{3,082,000} \times 1,000 = 8.9$$

$$11. \text{ INFANT DEATH RATE} = \frac{\text{Resident Infant Deaths}}{\text{Resident Births}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{295}{41,832} \times 1,000 = 7.1$$

$$12. \text{ NEONATAL DEATH RATE} = \frac{\text{Resident Neonatal Deaths}}{\text{Resident Births}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{164}{41,832} \times 1,000 = 3.9$$

$$13. \text{ POSTNEONATAL DEATH RATE} = \frac{\text{Resident Postneonatal Deaths}}{\text{Resident Births}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{131}{41,832} \times 1,000 = 3.1$$

$$14. \text{ CAUSE-SPECIFIC DEATH RATE} = \frac{\text{Resident Deaths Due to Specific Cause}}{\text{Population}} \times 100,000$$

$$\text{Oregon, 1994, Heart Disease} = \frac{7,417}{3,082,000} \times 100,000 = 240.7$$

$$15. \text{ AGE AND SEX-SPECIFIC DEATH RATE} = \frac{\text{Resident Deaths in Age-Sex Category}}{\text{Population in Age-Sex Population}} \times 1,000$$

$$\text{Oregon, 1994, Males Aged 5-14} = \frac{63}{225,880} \times 100,000 = 27.9$$

MARRIAGE AND DIVORCE:

$$16. \text{ MARRIAGE RATE} = \frac{\text{Marriages}}{\text{Population}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{25,194}{3,082,000} \times 1,000 = 8.2$$

$$17. \text{ DIVORCE RATE} = \frac{\text{Divorces}}{\text{Population}} \times 1,000$$

$$\text{Oregon, 1994} = \frac{15,844}{3,082,000} \times 1,000 = 5.1$$

Beginning with 1998 data, the following methodology is being used for calculating confidence intervals and statistical significance. This explanation is paraphrased from *"Public Health Data: Our Silent Partner"*, a training manual from the Public Health Practice Program Office of the National Center for Health Statistics.¹

CALCULATING CONFIDENCE INTERVALS FOR RATES:

Confidence limits for rates based on less than 100 events

When the number of events in the numerator is less than 100, the confidence interval for a rate can be estimated using the two formulas which follow and the values in Table B-1.

Lower Limit = R x L

Upper Limit = R x U

where:

R = the rate

L = the value in Table B-1 that corresponds to the number N in the numerator of the rate

U = the value in Table B-1 that corresponds to the number N in the numerator of the rate

Example: Confidence limits for rates based on less than 100 events

In Baker County, the teen pregnancy rate for 10- to 17-year-old teens in 1998 was 13.0 per thousand, based on 12 live births in the numerator. Using Table B-1:

$$\text{Lower Limit} = 13.0 \times 0.51671 = 6.7$$

$$\text{Upper Limit} = 13.0 \times 1.7468 = 22.7$$

This means that the chances are 95 out of 100 that the pregnancy rate in Baker County for teens 10-17 lies between 6.7 and 22.7 per 1,000. So if there were 100 counties like Baker County, the teen pregnancy rate would be expected to lie between 6.7 and 22.7 per 1,000 in 95 of these counties.

TABLE B-1.
Values of L and U for calculating 95% confidence limits for the numbers of events
and rates when the number of events is less than 100.

N	L	U	N	L	U	N	L	U
1	0.02532	5.57164	34	0.69253	1.3974	67	0.77499	1.26996
2	0.1211	3.61234	35	0.69654	1.39076	68	0.77654	1.26774
3	0.20622	2.92242	36	0.70039	1.38442	69	0.77806	1.26556
4	0.27247	2.5604	37	0.70409	1.37837	70	0.77955	1.26344
5	0.3247	2.33367	38	0.70766	1.37258	71	0.78101	1.26136
6	0.36698	2.17658	39	0.7111	1.36703	72	0.78244	1.25933
7	0.40205	2.06038	40	0.71441	1.36172	73	0.78384	1.25735
8	0.43173	1.9704	41	0.71762	1.35661	74	0.78522	1.25541
9	0.45726	1.89831	42	0.72071	1.35171	75	0.78656	1.25351
10	0.47954	1.83904	43	0.7237	1.34699	76	0.78789	1.25165
11	0.4992	1.78928	44	0.7266	1.34245	77	0.78918	1.24983
12	0.51671	1.7468	45	0.72941	1.33808	78	0.79046	1.24805
13	0.53246	1.71003	46	0.73213	1.33386	79	0.79171	1.2463
14	0.54671	1.67783	47	0.73476	1.32979	80	0.79294	1.24459
15	0.55969	1.64935	48	0.73732	1.32585	81	0.79414	1.24291
16	0.57159	1.62394	49	0.73981	1.32205	82	0.79533	1.24126
17	0.58254	1.6011	50	0.74222	1.31838	83	0.79649	1.23965
18	0.59266	1.58043	51	0.74457	1.31482	84	0.79764	1.23807
19	0.60207	1.56162	52	0.74685	1.31137	85	0.79876	1.23652
20	0.61083	1.54442	53	0.74907	1.30802	86	0.79987	1.23499
21	0.61902	1.52861	54	0.75123	1.30478	87	0.80096	1.2335
22	0.62669	1.51401	55	0.75334	1.30164	88	0.80203	1.23203
23	0.63391	1.50049	56	0.75539	1.29858	89	0.80308	1.23059
24	0.64072	1.48792	57	0.75739	1.29562	90	0.80412	1.22917
25	0.64715	1.4762	58	0.75934	1.29273	91	0.80514	1.22778
26	0.65323	1.46523	59	0.76125	1.28993	92	0.80614	1.22641
27	0.65901	1.45495	60	0.76311	1.2872	93	0.80713	1.22507
28	0.66449	1.44528	61	0.76492	1.28454	94	0.8081	1.22375
29	0.66972	1.43617	62	0.76669	1.28195	95	0.80906	1.22245
30	0.6747	1.42756	63	0.76843	1.27943	96	0.81	1.22117
31	0.67945	1.41942	64	0.77012	1.27698	97	0.81093	1.21992
32	0.684	1.4117	65	0.77178	1.27458	98	0.81185	1.21868
33	0.68835	1.40437	66	0.7734	1.27225	99	0.81275	1.21746

Confidence limits for rates based on 100 or more events

In this case, use the following formula for the rate (R) based on the number of events (N):

$$\text{Upper Limit} = R + [1.96 \times R / \sqrt{N}]$$

where:

R = the rate (birth rate, mortality rate, teen pregnancy rate, etc.)

N = the number of events (births, deaths, teen pregnancy, etc.)

Example: Confidence limits for rates based on 100 or more events

In Jackson County, the teen pregnancy rate for teens 10-17 was 13.7 in 1998 based on 143 pregnancies. Therefore, the confidence interval would be:

$$\begin{aligned} \text{Lower Limit} &= 13.7 - [1.96 \times (13.7 / \sqrt{143})] \\ &= 13.7 - [1.96 \times (13.7 / 11.96)] \\ &= 13.7 - [1.96 \times 1.15] \\ &= 13.7 - 2.25 \\ &= 11.5 \end{aligned}$$

$$\begin{aligned} \text{Upper Limit} &= 13.7 + [1.96 \times (13.7 / \sqrt{143})] \\ &= 13.7 + [1.96 \times (13.7 / 11.96)] \\ &= 13.7 + [1.96 \times 1.15] \\ &= 13.7 + 2.25 \\ &= 16.0 \end{aligned}$$

So if there were 100 counties like Jackson County with similar populations, the teen pregnancy rate would be expected to lie between 11.5 and 16.0 per 1,000 in 95 of these counties.

DETERMINING STATISTICAL SIGNIFICANCE FOR RATES:

If the difference between two rates would occur due to random variability less than 5 times out of 100, then we say that the difference is statistically significant at the 95% level. Otherwise the difference is not statistically significant.

Computing statistical significance when at least one of the rates is based on fewer than 100 events

To compare two rates, when one or both rates are based on fewer than 100 events, compute the confidence intervals for both rates. If the intervals overlap, the difference is not statistically significant.

Example: comparing rates when one is based on fewer than 100 events

Baker County teen pregnancy rate for age 10-17

Lower Limit = 6.7

Upper Limit = 22.7

Jackson County teen pregnancy rate for age 10-17

Lower Limit = 11.5

Upper Limit = 16.0

The confidence intervals overlap - the interval for Jackson County is entirely within the range of the interval for Baker County. Therefore, the difference between the teen pregnancy rate for age 10-17 in Baker County and the rate for Jackson County is not statistically significant.

Computing statistical significance when both rates are based on 100 or more events

When both rates are based on 100 or more events, calculate the difference between the two rates by subtracting the lower rate from the higher rate. The difference is considered statistically significant if it exceeds 1.96 times the standard error for the difference between the two rates.

$$1.96 \sqrt{\frac{R_1^2}{N_1} + \frac{R_2^2}{N_2}}$$

where:

R_1 = the first rate

R_2 = the second rate

N_1 = the first number

N_2 = the second number

If the difference is greater than the statistic, the difference would occur by chance less than 5 times out of 100. The difference is statistically significant at the 95 percent confidence level.

If the difference is less than the statistic, the difference might occur by chance more than 5 times out of 100. The difference is not statistically significant at the 95 percent confidence level.

Example: comparing rates when both are based on 100 or more events

The teen pregnancy rate for Oregon teens age 10-17 in 1997 was 18.0 and the comparable rate for 1998 was 17.2. Both rates are based on more than 100 pregnancies (3,197 in 1997 and 3,176 in 1998). The difference between the rates is $18.0 - 17.2 = 0.8$. The statistic is calculated as follows:

$$1.96 \sqrt{\frac{18.0^2}{3,197} + \frac{17.2^2}{3,176}}$$

$$1.96 \sqrt{\left(\frac{324}{3,197} + \frac{295.84}{3,176}\right)}$$

$$1.96 \sqrt{(0.101 + 0.093)}$$

$$1.96 \sqrt{0.194}$$

$$= 1.96 \times .44$$

$$= 0.86$$

The difference between the rates (0.8) is less than this statistic (0.9). Therefore, the difference is not statistically significant. A difference of 0.8 between these two rates might occur by chance more than 5 times out of 100.

CALCULATING RATES ADJUSTED FOR SEX/AGE/RACE:

When comparing rates and ratios, the influences of sex, age, and race differences in the populations must be taken into account. Comparing many different age-sex-race specific rates can be cumbersome. The following techniques are used by vital statisticians to summarize these rates into one number.

The *direct adjusted rate* applies each of the specific rates for a particular population (such as a county or a Health Service Area) to a standard population distribution (such as the state).

The *standard mortality ratio* compares the number of deaths for a particular population (such as a county or a Health Service Area) to the number of deaths which would be expected if some standard set of rates (such as the state or the U.S. rates) had occurred.²

Both of these techniques have their advantages and disadvantages. The easiest to calculate is the direct adjusted rate. The following example shows how to adjust a county's death rate for sex so that it may be compared to the state rate.

$$\frac{\left[\frac{\text{county male deaths}}{\text{county male population}} \times \text{state male population} \right] + \left[\frac{\text{county female deaths}}{\text{county female population}} \times \text{state female population} \right]}{\text{TOTAL STATE POPULATION}} \times 1,000$$

The same logic can be used to adjust for age and/or race.

REFERENCES

1. U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, October 1999. The original materials are available online at www.cdc.gov/nchs/products/training/phd-osp.htm.
2. For more information, please see “Direct Standardization (Age-Adjusted Death Rates),” U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Center for health Statistics, March 1995. The original materials are available online at www.cdc.gov/nchs/data/tatnt/statnt06rv.pdf.

For further information about calculating confidence intervals and adjusting rates, see:

National Center for Health Statistics: Infant Mortality, by J.C. Kleinman, Statistical Notes for Health Planners, No. 2. Health Resources Administration, Washington, D.C., July 1976.

National Center for Health Statistics: Mortality, by J.C. Kleinman, Statistical Notes for Health Planners, No. 3. Health Resources Administration, Washington, D.C., July 1977.

APPENDIX C: LIST OF FIGURES AND TABLES

Appendix C: List of figures and tables

Figures

Figure 2-1.	Live Birth Rates, Oregon and the U.S., 1965-2011	2-1
Figure 2-2.	Age-specific Birth Rates, Oregon Residents, 1980-2011	2-2
Figure 2-3.	Number of Births by Race and Ethnicity of Mother, Oregon Residents, 1995-2011	2-4
Figure 2-4.	Percent of Births to Unmarried Women, Oregon and the U.S., 1975-2011	2-5
Figure 2-5.	Percentage of Mothers Who Smoked During Pregnancy by Age and Marital Status, Oregon Residents, 2011	2-7
Figure 2-6.	Percentage of Appropriate Weight Gain by BMI, Oregon Residents, 2011	2-8
Figure 2-7.	Percentage of Mothers with Late Prenatal Care and No Prenatal Care, Oregon Residents, 1985-2011	2-10
Figure 2-8.	Low Birthweight Rates, Oregon and U.S., 1985-2011	2-14
Figure 3-1.	Number of Abortions and Births. Oregon Occurrence, 1980-2011	3-1
Figure 3-2.	Ratio of Abortions per 1,000 Live Births. Oregon Occurrence, 1980-2011.....	3-2
Figure 3-3.	Trends in Abortion Rates by Five-Year Age Group, Oregon Occurrence, 1985-2011.....	3-3
Figure 3-4.	Percent Change of Birth and Abortion Rates, Oregon Occurrence Abortions and Oregon Resident Births, 1980 vs. 2011	3-4
Figure 3-5.	Percentage of Pregnancies Terminated by Induced Abortion by Race/Ethnicity, Oregon Occurrence, 2011	3-5
Figure 3-6.	Percentage of Abortions After 16 Weeks Gestation by Five-Year Age Group, Oregon Occurrence, 1990-2011	3-6
Figure 4-1.	Teen Pregnancy Rates, Oregon Residents Age 15-17, 1985-2011.....	4-1
Figure 4-2.	Birth and Abortion Rates, Oregon Residents Aged 15-17, 1985-2011.....	4-2
Figure 4-3.	Births, Abortions, and Total Pregnancies, Oregon Residents Age 15-19, 1985-2011	4-3
Figure 4-4.	Percentage of Pregnancies Resulting in Birth by Age Group, Oregon Residents, 1985-2011.....	4-4
Figure 4-5.	Birth Rates for 15- to 19-Year-Olds, Oregon and the U.S., 1988-2011	4-5
Figure 4-6.	Rates of Low Birthweight Birth, Oregon Residents <20 and 20+, 2006-2011	4-6
Figure 4-7.	Low Birthweight Rates to Teens 15-19 by Mother's Age, and Single Mention Race and Hispanic Ethnicity, Oregon Residents, 2009-2011	4-7
Figure 4-8.	Low Birthweight Rates by Mother's Age and Prenatal Care, Oregon Residents, 2011	4-8
Figure 4-9.	Rates of Late Prenatal Care by Age Group, Oregon Residents, 2008-2011	4-8

Figure 4-10.	Rates of No Prenatal Care by Age, Oregon Resident Births, 1990-2011	4-9
Figure 4-11.	Age Distribution of Father for Births to Oregon Residents Age 10-17, 2007-2011	4-11
Figure 4-12.	Father's Age Compared to Teen Mother's Age, Oregon Residents, 2007-2011	4-12

Tables

	Summary of Oregon Vital Events, 2011	1-1
Table 1-1.	Live Births, Births to Unmarried Mothers, Marriages, and Divorces, U.S., 1945-2011	1-2
Table 1-2.	Population, Live Births, Births to Unmarried Mothers, Marriages, and Divorces, Oregon 1910, 1915, 1920, 1925, 1930, 1935 - 2011.....	1-4
Table 1-3.	Population, Live Births, and Births to Unmarried Mothers by County of Residence, and Marriages and Divorces by County of Occurrence, Oregon, 2011.....	1-6
Table 1-4.	Population and Births by City of Residence, Oregon, 2011	1-7
Table 1-5.	Oregon Rates of Low Birthweight, and Measures of Prenatal Care, 1980-2011	1-8
Table 1-6.	Domestic Partnerships by County of Occurrence and Sex, Oregon, 2011.....	1-9
Table 2-1.	Oregon Resident Births by Age Group of Mother, Selected Years, 1955-1986, 1990-2011	2-17
Table 2-2.	Age Specific Birth Rates, Fertility Rates, and Total Fertility Rates, Oregon, 1940, 1950, 1960, 1970, 1975-2011.....	2-18
Table 2-3.	Percent of Oregon Resident Births to Unmarried Mothers, by Age of Mother, 1970, 1975, 1980-2011.....	2-19
Table 2-4.	Age of Mother by Live Birth Order, Oregon Resident Births, 2011.....	2-20
Table 2-5.	Total Pregnancies by Type of Outcome and Age Group, Oregon Residents, 2011	2-20
Table 2-6.	Pregnancies by Age and County of Residence, Oregon Residents, 2011	2-21
Table 2-7.	Resident Births by Race of Mother, Oregon 1975-2010.....	2-22
Table 2-8.	Ethnicity, Race and County of Residence of Mother, Oregon Resident Births, 2011	2-23
Table 2-9.	Births to Unmarried Mothers, Oregon Residents, 2011	2-25
Table 2-10.	Age of Mother and County of Residence, Oregon Resident Births, 2011	2-26
Table 2-11.	Unmarried Mothers by Age of Mother and County of Residence, Oregon Resident Births, 2011	2-27
Table 2-12.	Region and Selected Country of Mother's Birth by Continent of Father's Birth, Oregon Residents, 2011	2-28
Table 2-13.	Race, Ethnicity and Place of Birth of Mother by Selected Demographic Characteristics (Percent), Oregon Resident Births, 2011	2-29

Table 2-14.	Maternal Characteristics by Principal Method of Payment for Delivery, Oregon Resident Births, 2011	2-31
Table 2-15.	Reported Use of Tobacco, by Mother's Age and County of Residence, Oregon Births, 2011	2-32
Table 2-16.	Maternal Risk Factors by County of Residence, Oregon 2011	2-33
Table 2-17.	Prenatal Care by Mother's Age, Oregon Residents, 2011	2-34
Table 2-18.	Prenatal Care by Mother's Race and Ethnicity, Oregon Residents, 2011	2-35
Table 2-19.	Prenatal Care by Mother's Education, Oregon Residents, 2011	2-36
Table 2-20.	Prenatal Care by Mother's County of Residence, Oregon Residents, 2011	2-37
Table 2-21.	Prenatal Care by Resident County for Unmarried Mothers, Oregon Residents, 2011	2-38
Table 2-22.	Prenatal Care by Birthweight, Oregon Residents, 2011	2-39
Table 2-23.	Rates of Selected Medical Risk Factors by Age of Mother, Oregon Residents, 2011	2-40
Table 2-24.	Selected Medical or Health Characteristics by Mother's Age (Percents), Oregon Resident Births, 2011	2-41
Table 2-25.	Selected Medical or Health Characteristics by Mother's Race (Percents), Oregon Resident Births, 2011	2-43
Table 2-26.	Mothers with Selected Medical Risk Factors by Race of Mother, Oregon Residents, 2011	2-47
Table 2-27.	County of Occurrence by Type of Institution and Delivery Attendant, Oregon Occurrence Births, 2011	2-49
Table 2-28.	Delivery Methods by Day of Birth, Mother's Age and Race/Ethnicity and Payment Source (Percents), Oregon Resident Births, 2011.....	2-51
Table 2-29.	Age of Mother by Birthweight, Oregon Resident Births, 2011	2-52
Table 2-30.	Age of Unmarried Mothers by Birthweight, Oregon Resident Births, 2011	2-53
Table 2-31.	Race of Mother and Birthweight, Oregon Residents, 2011	2-54
Table 2-32.	Low Birthweight Infants by County of Residence, Oregon, 2011	2-56
Table 2-33.	Weight Gain of Mother by Period of Gestation and Race/Ethnicity of Mother, Oregon Resident Births, 2011	2-57
Table 2-34.	Percent Low Birthweight by Weight Gain of Mother, Period of Gestation, and Race/Ethnicity of Mother, Oregon Residents, 2011	2-58
Table 2-35.	Live Births with Selected Abnormal Conditions of the Newborn by Age of Mother, Oregon Residents, 2011	2-59
Table 2-36.	Live Births with Selected Abnormal Conditions of the Newborn by Race of Mother, Oregon Residents, 2011	2-60
Table 2-37.	Congenital Anomalies by Age of Mother, Oregon Resident Births, 2011	2-61
Table 2-38.	Most Frequently Used Baby Names, Oregon Occurrence, 2011	2-62

Table 3-1.	Number, Rate, and Percent Change for Pregnancies, Births, and Abortions to 15- to 44-Year-olds, Oregon, 1980-2011	3-8
Table 3-2.	Live Births and Induced Abortions Occurring in Oregon, 1970-2011.....	3-9
Table 3-3.	Induced Abortions by Race/Ethnicity, Marital Status, and Age, Oregon Occurrence, 2011	3-10
Table 3-4.	Abortions in Relation to Length of Gestation by Method, Complications, and Age of Patient, Oregon Occurrence, 2011.....	3-11
Table 3-5.	Contraceptive Use, Number of Previous Abortions, and Number of Living Children by Age of Patient, Oregon Occurrence, 2011.....	3-12
Table 3-6.	Induced Terminations of Pregnancy by Residence and Age Group of Patient, Oregon Occurrence, 2011	3-13
Table 3-7.	Induced Terminations of Pregnancy by County of Residence and County of Occurrence, Oregon, 2011	3-14
Table 4-1.	Oregon Pregnancies to Teens 15-19 Years, 1975-2011	4-13
Table 4-2.	Oregon Pregnancies to Young Teens 10-17 Years, 1975-2011.....	4-15
Table 4-3.	Pregnancy Rates of Teens by County of Residence, Oregon, 2011	4-16
Table 4-4.	Birth Rates of Teens by County of Residence, Oregon, 2011.....	4-17
Table 4-5.	Abortion Rates of Teens by County of Residence, Oregon, 2011	4-18
Table 4-6.	Births to 15 to 19-year-old Teens by Race/Ethnicity, Adequacy of Prenatal Care, and Birthweight, Oregon Residents, 2011	4-19
Table 4-7.	Births to Teens 15-19 by Marital Status, Race/Ethnicity, and Age by Adequacy of Prenatal Care and Birthweight, Oregon Residents, 2011	4-21
Table 4-8.	Teens 15-19: Births, Level of Prenatal Care and Low Birthweight Rates by County of Residence, Oregon, 2011	4-23
Table 4-9.	Birth Outcomes of Infants by Age of Mother, Oregon Residents, 2011	4-24
Table 4-10.	Demographic Characteristics of Mother by Age, Oregon Residents, 2011	4-25
Table 4-11.	Demographic Characteristics of Abortion Patients by Age, Oregon Residents, 2011	4-26
Table 4-12.	Age of Father by Age of Mother, Oregon Residents, 2011	4-27
Table 4-13.	Age of Father by Age of Mother, Oregon Residents, 2007-2011	4-28

Appendices

Table A-1.	Population Distribution by Age and Sex, Oregon, 1950, 1960, 1970, 1975, 1980, 1985, 1990, 1995-2011	A-1
Table A-2.	Population by Age and Sex for Oregon and Its Counties: July 1, 2011.....	A-4

APPENDIX D: SAMPLE FORMS

Appendix D: Sample forms

OREGON DEPARTMENT OF HUMAN SERVICES
CENTER FOR HEALTH STATISTICS

136- **SAMPLE**

Local File Number **CERTIFICATE OF LIVE BIRTH** State File Number

Type or print in permanent black ink. See handbook for instructions.

	1. CHILD — NAME (First, Middle, Last, Suffix)	2. TIME OF BIRTH (24 hr)	3. SEX	4. DATE OF BIRTH (Month, Day, Year)
CHILD	5a. FACILITY — NAME (If not an institution, give street and number)	5b. CITY, TOWN, OR LOCATION OF BIRTH		5c. COUNTY OF BIRTH
	6a. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)	6b. DATE OF BIRTH (Month, Day, Year)		
MOTHER	6c. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix)		6d. BIRTHPLACE (State, Territory, or Foreign Country)	
	6e. RESIDENCE OF MOTHER — STATE	6f. COUNTY	6g. CITY, TOWN, OR LOCATION	
	6h. STREET AND NUMBER	6i. ZIP CODE	6j. INSIDE CITY LIMITS <input type="checkbox"/> No <input type="checkbox"/> Yes	
FATHER	7a. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)	7b. DATE OF BIRTH (Month, Day, Year)	7c. BIRTHPLACE (State, Territory, or Foreign Country)	
	8a. I certify that this child was born alive at the place and time and on the date stated above. SIGNATURE	8b. DATE SIGNED (Month, Day, Year)	8c. CERTIFIER — NAME AND TITLE (Type or print)	
CERTIFIER	8d. NAME AND TITLE OF ATTENDANT AT BIRTH IF OTHER THAN CERTIFIER (Type or print.)	8e. CERTIFIER'S MAILING ADDRESS (Street, City or Town, State, Zip)		
	9a. DATE FILED BY REGISTRAR	9b. REGISTRAR — SIGNATURE		
INFORMANT	10a. I certify that the personal information provided on this certificate is correct to the best of my knowledge and belief. (Signature of parent or other informant)		10b. INFORMANT'S RELATIONSHIP TO CHILD	

INFORMATION FOR MEDICAL AND HEALTH USE ONLY

	12. MOTHER'S MAILING ADDRESS: <input type="checkbox"/> Same as residence, OR: State: _____ City, Town, or Location: _____ Zip Code: _____ Street & Number: _____			
MOTHER	13. MOTHER MARRIED (at birth, conception, any time between, or 300 days prior to the birth of the child)? IF NO, HAS PATERNITY ACKNOWLEDGMENT BEEN SIGNED? <input type="checkbox"/> Yes <input type="checkbox"/> No	14. SOCIAL SECURITY NUMBER REQUESTED* FOR CHILD? <input type="checkbox"/> Yes <input type="checkbox"/> No	15. FACILITY'S NPI (If none, enter "0")	
	16. MOTHER'S MEDICAL RECORD NUMBER	17. MOTHER'S SOCIAL SECURITY NUMBER	18. FATHER'S SOCIAL SECURITY NUMBER	
FATHER	19a. OF HISPANIC ORIGIN? (Check "Yes" or "No") (If "yes," specify all that apply, e.g., Cuban, Mexican, Puerto Rican, etc.) <input type="checkbox"/> Yes <input type="checkbox"/> No Specify _____	20. RACE (e.g., White, Black, American Indian, etc.) (Specify all that apply, include Mar. Status) <input type="checkbox"/> Yes <input type="checkbox"/> No Specify _____	21. EDUCATION (highest grade completed) 21a. _____ 21b. _____	
MOTHER	22a. DATE OF FIRST PRENATAL CARE VISIT? (Month, Day, Year) <input type="checkbox"/> No Prenatal Care	22b. DATE OF LAST PRENATAL CARE VISIT? (Month, Day, Year)	22c. TOTAL NUMBER OF PRENATAL VISITS FOR THIS PREGNANCY? _____ (If none, enter "0")	
	23. MOTHER'S HEIGHT? (feet/inches)	24. MOTHER'S PRE-PREGNANCY WEIGHT? (pounds)	25. MOTHER'S WEIGHT AT DELIVERY? (pounds)	26. DID MOTHER GET WIC FOOD FOR HERSELF? <input type="checkbox"/> Yes <input type="checkbox"/> No
FATHER	27. NUMBER OF PREVIOUS LIVE BIRTHS (Do not include this child.) 27a. Number Now Living: _____ <input type="checkbox"/> None 27b. Number Now Dead: _____ <input type="checkbox"/> None	28. NUMBER OF OTHER PREGNANCY OUTCOMES (Spontaneous or induced losses or ectopic pregnancies) Number of Other Outcomes: _____ <input type="checkbox"/> None	29. CIGARETTE SMOKING BEFORE AND DURING PREGNANCY (For each time period, enter either the number of cigarettes or the number of packs of cigarettes smoked. IF NONE, ENTER "0". Average number of cigarettes or packs of cigarettes smoked per day, # of cigarettes # of packs Three months before Pregnancy _____ OR _____ First Trimester of Pregnancy _____ OR _____ Second Trimester of Pregnancy _____ OR _____ Third Trimester of Pregnancy _____ OR _____	
	30. PRINCIPAL SOURCE OF PAYMENT FOR THIS DELIVERY <input type="checkbox"/> Private Insurance <input type="checkbox"/> Medicaid <input type="checkbox"/> Self-pay <input type="checkbox"/> Other (Specify) _____	31a. DATE OF LAST LIVE BIRTH (Month, Year)		
MOTHER	31b. DATE OF LAST OTHER PREGNANCY OUTCOME (Month, Year)	31c. DATE LAST NORMAL MENSES BEGAN (Month, Day, Year)		
	32. ATTENDANT'S NPI	33. MOTHER TRANSFERRED FOR MATERNAL MEDICAL OR FETAL INDICATIONS FOR DELIVERY? <input type="checkbox"/> Yes <input type="checkbox"/> No IF YES, ENTER NAME OF FACILITY FROM WHICH MOTHER WAS TRANSFERRED: _____		
	34. OBSTETRIC PROCEDURES (Check all that apply.) <input type="checkbox"/> Cervical cerclage <input type="checkbox"/> Tocolysis External cephalic version <input type="checkbox"/> Successful <input type="checkbox"/> Failed <input type="checkbox"/> None of the above	35. CHARACTERISTICS OF LABOR AND DELIVERY (Check all that apply.) <input type="checkbox"/> Induction of labor <input type="checkbox"/> Augmentation of labor <input type="checkbox"/> Non-vertex presentation <input type="checkbox"/> Steroids (glucocorticoids) for fetal lung maturation received by the mother prior to delivery <input type="checkbox"/> Antibiotics received by the mother during labor <input type="checkbox"/> Clinical chorioamnionitis diagnosed during labor or maternal temperature $\geq 38^{\circ}\text{C}$ (100.4°F) <input type="checkbox"/> Moderate/heavy meconium staining of the amniotic fluid <input type="checkbox"/> Fetal intolerance of labor such that one or more of the following actions were taken: In-utero resuscitative measures, further fetal assessment, or operative delivery <input type="checkbox"/> Epidural or spinal anesthesia during labor <input type="checkbox"/> None of the above		36. METHOD OF DELIVERY A Fetal presentation at birth <input type="checkbox"/> Cephalic <input type="checkbox"/> Breech <input type="checkbox"/> Other B Final route and method of delivery (Check one.) <input type="checkbox"/> Vaginal/Spontaneous <input type="checkbox"/> Vaginal/Forceps <input type="checkbox"/> Vaginal/Vacuum <input type="checkbox"/> Cesarean; If Cesarean, was a trial of labor attempted? <input type="checkbox"/> Yes <input type="checkbox"/> No C Was delivery with forceps attempted, but unsuccessful? <input type="checkbox"/> Yes <input type="checkbox"/> No D Was delivery with vacuum extraction attempted, but unsuccessful? <input type="checkbox"/> Yes <input type="checkbox"/> No
	37. ONSET OF LABOR (Check all that apply.) <input type="checkbox"/> Premature rupture of the membranes (prolonged, ≥ 12 hours) <input type="checkbox"/> Precipitous labor (<3 hours) <input type="checkbox"/> Prolonged labor (≥ 20 hours) <input type="checkbox"/> None of the above	38. Shall abstract of birth certificate be made available for publication or business-contact lists? (Check one.) <input type="checkbox"/> Yes <input type="checkbox"/> No		

STATE USE ONLY a. _____ b. _____ c. _____ d. _____

COMPLETE BACKSIDE OF FORM 45-1 (02/08)

MOTHER	<p>39. RISK FACTORS IN THIS PREGNANCY (Check all that apply.)</p> <p><input type="checkbox"/> Diabetes</p> <p><input type="checkbox"/> Pre-Pregnancy (Diagnosis prior to this pregnancy)</p> <p><input type="checkbox"/> Gestational (Diagnosis in this pregnancy)</p> <p><input type="checkbox"/> Hypertension</p> <p><input type="checkbox"/> Pre-Pregnancy (Chronic)</p> <p><input type="checkbox"/> Gestational (PIH, pre-eclampsia)</p> <p><input type="checkbox"/> Eclampsia</p> <p><input type="checkbox"/> Previous preterm birth</p> <p><input type="checkbox"/> Other previous poor pregnancy outcome (includes perinatal death, small-for-gestational age/intrauterine growth restricted birth)</p> <p><input type="checkbox"/> Pre-Pregnancy resulted from infertility treatment - If yes, check all that apply:</p> <p><input type="checkbox"/> Fertility-enhancing drugs, artificial insemination or intrauterine insemination.</p> <p><input type="checkbox"/> Assisted reproductive technology (e.g., in vitro fertilization (IVF), gamete intrafallopian transfer (GIFT))</p> <p><input type="checkbox"/> Mother had a previous Cesarean delivery</p> <p>If yes, how many? _____</p> <p><input type="checkbox"/> Alcohol use during pregnancy</p> <p>If yes, average number of drinks per week? _____</p> <p><input type="checkbox"/> None of the above</p>	<p>40. INFECTIONS PRESENT AND/OR TREATED DURING THIS PREGNANCY (Check all that apply.)</p> <p><input type="checkbox"/> Gonorrhea</p> <p><input type="checkbox"/> Syphilis</p> <p><input type="checkbox"/> Chlamydia</p> <p><input type="checkbox"/> Hepatitis B</p> <p><input type="checkbox"/> Hepatitis C</p> <p><input type="checkbox"/> Herpes Simplex (HSV)</p> <p><input type="checkbox"/> None of the above</p>	<p>41. MATERNAL MORBIDITY (Check all that apply.) (Complications associated with labor and delivery)</p> <p><input type="checkbox"/> Maternal transfusion</p> <p><input type="checkbox"/> Third- or fourth-degree perineal laceration</p> <p><input type="checkbox"/> Ruptured uterus</p> <p><input type="checkbox"/> Unplanned hysterectomy</p> <p><input type="checkbox"/> Admission to intensive care unit</p> <p><input type="checkbox"/> Unplanned operating room procedure following delivery</p> <p><input type="checkbox"/> None of the above</p> <p>42. MOTHER TESTED FOR HIV DURING PREGNANCY? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
NEWBORN	<p>43. NEWBORN'S MEDICAL RECORD NUMBER: _____</p>	<p>44. BIRTH WEIGHT (grams preferred; specify unit)</p> <p>_____ <input type="checkbox"/> grams <input type="checkbox"/> lb/oz</p>	<p>45. OBSTETRIC ESTIMATE OF GESTATION: _____ (completed weeks)</p>
<p>46. APGAR SCORE:</p> <p>Score at 5 minutes: _____</p> <p>If 5-minute score is less than 6,</p> <p>Score at 10 minutes: _____</p>	<p>47. PLURALITY - Single, Twins, Triplets, etc.</p> <p>(Specify) _____</p>	<p>48. IF NOT SINGLE BIRTH - Born First, Second, Third, etc.</p> <p>(Specify) _____</p>	
<p>49. IS THE NEWBORN LIVING AT TIME OF REPORT?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Newborn transferred, status unknown</p>	<p>50. IS THE NEWBORN BEING BREAST-FED AT DISCHARGE?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>		
<p>51. CONGENITAL ANOMALIES OF THE NEWBORN (Check all that apply.)</p> <p><input type="checkbox"/> Anencephaly</p> <p><input type="checkbox"/> Meningocele/Spina bifida</p> <p><input type="checkbox"/> Cyanotic congenital heart disease</p> <p><input type="checkbox"/> Congenital diaphragmatic hernia</p> <p><input type="checkbox"/> Omphalocele</p> <p><input type="checkbox"/> Gastroschisis</p> <p><input type="checkbox"/> Limb reduction defect (excluding congenital amputation and dwarfing syndromes)</p> <p><input type="checkbox"/> Cleft Lip with or without Cleft Palate</p> <p><input type="checkbox"/> Cleft Palate alone</p> <p><input type="checkbox"/> Down Syndrome</p> <p><input type="checkbox"/> Karyotype confirmed</p> <p><input type="checkbox"/> Karyotype pending</p> <p><input type="checkbox"/> Suspected chromosomal disorder</p> <p><input type="checkbox"/> Karyotype confirmed</p> <p><input type="checkbox"/> Karyotype pending</p> <p><input type="checkbox"/> Hypospadias</p> <p><input type="checkbox"/> None of the anomalies listed above</p>	<p>52. ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply.)</p> <p><input type="checkbox"/> Assisted ventilation required immediately following delivery</p> <p><input type="checkbox"/> Assisted ventilation required for more than 6 hours</p> <p><input type="checkbox"/> NICU admission</p> <p><input type="checkbox"/> Newborn given surfactant-replacement therapy</p> <p><input type="checkbox"/> Antibiotics received by the newborn for suspected neonatal sepsis</p> <p><input type="checkbox"/> Seizure or serious neurologic dysfunction</p> <p><input type="checkbox"/> Significant birth injury, skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid-organ hemorrhage which requires intervention</p> <p><input type="checkbox"/> None of the above</p> <p>53. WAS NEWBORN METABOLIC SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Screening Number _____</p>		
<p>54. WAS NEWBORN TRANSFERRED WITHIN 24 HOURS OF DELIVERY? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>IF YES, NAME OF FACILITY TO WHICH NEWBORN WAS TRANSFERRED: _____</p>			

SAMPLE

OREGON DEPARTMENT OF HUMAN SERVICES
Center for Health Statistics
REPORT OF INDUCED TERMINATION OF PREGNANCY 136-

1. NAME OF FACILITY _____		FACILITY CHART OR CASE NO. _____	
2. FACILITY ADDRESS _____ (CITY OR TOWN) (COUNTY)		3. DATE TERMINATION PERFORMED: _____ (MONTH) (DAY) (YEAR)	
4. PATIENT'S USUAL RESIDENCE _____ (STATE) (COUNTY) (CITY OR TOWN) (ZIP CODE) (INSIDE CITY LIMITS - YES, NO)			
5. AGE LAST BIRTHDAY _____	6. MARITAL STATUS: 1 <input type="checkbox"/> Never Married 3 <input type="checkbox"/> Widowed 5 <input type="checkbox"/> Separated 2 <input type="checkbox"/> Now Married 4 <input type="checkbox"/> Divorced 6 <input type="checkbox"/> Unknown		
7. IS PATIENT OF HISPANIC ORIGIN? 0 <input type="checkbox"/> NO <input type="checkbox"/> YES, specify Cuban, Mexican, Puerto Rican, etc. _____		8. Race (select one or more): 1 <input type="checkbox"/> White 2 <input type="checkbox"/> Black 3 <input type="checkbox"/> American Indian 4 <input type="checkbox"/> Chinese 5 <input type="checkbox"/> Japanese 6 <input type="checkbox"/> Hawaiian 8 <input type="checkbox"/> Filipino 0 <input type="checkbox"/> Other Asian <input type="checkbox"/> Other (specify) _____	
9. EDUCATION (Indicate a NUMBER for the HIGHEST grade COMPLETED):		None (0)	Elementary/Secondary (1-12)
			College (1-4, 5+)
10. PREVIOUS PREGNANCIES (Complete all four sections; enter number or check "None")			
Live Births		Other Terminations	
a. Now Living Number _____ None 00 <input type="checkbox"/>	b. Now Dead Number _____ None 00 <input type="checkbox"/>	c. Spontaneous Abortions, Miscarriages, Stillbirths, and Fetal Deaths Number _____ None 00 <input type="checkbox"/>	d. Induced Abortions (Do <u>not</u> include this termination) Number _____ None 00 <input type="checkbox"/>
11. DATE LAST NORMAL MENSES BEGAN _____ Month Day Year	12. CLINICAL ESTIMATE OF GESTATION _____ Completed weeks		
13. WAS PREGNANCY THE RESULT OF A CONTRACEPTIVE FAILURE? 1 <input type="checkbox"/> NO 2 <input type="checkbox"/> YES; If Yes, specify method below. 1 <input type="checkbox"/> Birth Control Pill 2 <input type="checkbox"/> Foam 3 <input type="checkbox"/> Hormone Implant; e.g., Norplant 4 <input type="checkbox"/> Diaphragm 5 <input type="checkbox"/> IUD 6 <input type="checkbox"/> Condoms, Prophylactics 7 <input type="checkbox"/> Rhythm 8 <input type="checkbox"/> Other (specify) _____ 9 <input type="checkbox"/> Contraceptive Injection; e.g., Depo Provera			
14. PROCEDURE THAT TERMINATED THIS PREGNANCY (Check only one) 1 <input type="checkbox"/> Suction Curettage 2 <input type="checkbox"/> Medical (nonsurgical); specify medication(s) _____ 3 <input type="checkbox"/> Dilation and Evacuation (D & E) 4 <input type="checkbox"/> Intra-Uterine Instillation (Saline/prostaglandin) 5 <input type="checkbox"/> Vaginal Prostaglandin 6 <input type="checkbox"/> Sharp Curettage (D & C) 7 <input type="checkbox"/> Hysterotomy/Hysterectomy 8 <input type="checkbox"/> Other (specify) _____			
15. OTHER PROCEDURES USED FOR THIS TERMINATION (Check all that apply) 0 <input type="checkbox"/> None 1 <input type="checkbox"/> Suction Curettage 2 <input type="checkbox"/> Medical (nonsurgical); specify medication(s) _____ 3 <input type="checkbox"/> Dilation and Evacuation (D & E) 4 <input type="checkbox"/> Intra-Uterine Instillation (saline or prostaglandin) 5 <input type="checkbox"/> Vaginal Prostaglandin 6 <input type="checkbox"/> Sharp Curettage (D & C) 8 <input type="checkbox"/> Other (specify) _____			
16. WAS WRITTEN POST-OPERATIVE/AFTER-CARE INFORMATION GIVEN TO PATIENT? 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO			
17. WAS FOLLOW-UP VISIT RECOMMENDED? 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO			
18. COMPLICATIONS AT TIME OF PROCEDURE (check all that apply): 0 <input type="checkbox"/> None 1 <input type="checkbox"/> Hemorrhage 2 <input type="checkbox"/> Infection 3 <input type="checkbox"/> Uterine perforation 4 <input type="checkbox"/> Cervical laceration 5 <input type="checkbox"/> Retained products 6 <input type="checkbox"/> Failure of first method 7 <input type="checkbox"/> Other (specify) _____			
19. AT THE TIME OF COMPLETION OF THIS REPORT FORM, HAD A FOLLOW UP VISIT OCCURRED AT THIS FACILITY? 2 <input type="checkbox"/> NO 1 <input type="checkbox"/> YES; If yes, <u>specify complications</u> (check all that apply): 0 <input type="checkbox"/> None 1 <input type="checkbox"/> Hemorrhage 2 <input type="checkbox"/> Infection 3 <input type="checkbox"/> Uterine perforation 4 <input type="checkbox"/> Cervical laceration 5 <input type="checkbox"/> Retained products 6 <input type="checkbox"/> Failure of first method 7 <input type="checkbox"/> Other (specify) _____			
20. AT THE TIME OF COMPLETION OF THIS REPORT FORM HAD A FOLLOW UP VISIT OCCURRED OUTSIDE THIS FACILITY? 2 <input type="checkbox"/> NO 1 <input type="checkbox"/> YES 3 <input type="checkbox"/> UNKNOWN If yes, <u>specify complications</u> (check all that apply) & <u>complete item 20a</u> below: 0 <input type="checkbox"/> None 1 <input type="checkbox"/> Hemorrhage 2 <input type="checkbox"/> Infection 3 <input type="checkbox"/> Uterine perforation 4 <input type="checkbox"/> Cervical laceration 5 <input type="checkbox"/> Retained products 6 <input type="checkbox"/> Failure of first method 7 <input type="checkbox"/> Other (specify) _____ 9 <input type="checkbox"/> Unknown 20A. If yes, specify <u>location of follow-up visit</u> : 1 <input type="checkbox"/> Physician's Office 2 <input type="checkbox"/> Clinic 3 <input type="checkbox"/> Hospital 4 <input type="checkbox"/> Other (specify) _____			

PLEASE COMPLETE THIS FORM NO SOONER THAN 2 WEEKS FOLLOWING THE DATE OF TERMINATION. FORM MUST BE COMPLETED NO LATER THAN 30 DAYS FOLLOWING THE DATE OF TERMINATION OF PREGNANCY.

MAIL TO: Center for Health Statistics
OREGON DEPARTMENT OF HUMAN SERVICES
P.O. Box 14050
Portland, Oregon 97293-0050

(Continued on back)

45-113 (01-07)

OREGON DEPARTMENT OF HUMAN SERVICES
CENTER FOR HEALTH STATISTICS 136-

Local File Number _____ State File Number _____

APPLICATION, LICENSE, AND RECORD OF MARRIAGE

LOCAL OFFICIAL COUNTY _____ LICENSE EFFECTIVE ON OR AFTER _____

GROOM

1. GROOM'S NAME First Middle Last

2. BIRTHPLACE (State or Foreign Country) 3. DATE OF BIRTH (Month, Day, Year) 4. AGE (18 or older, 17 with consent)

5. SEX 6. OCCUPATION 7. PREVIOUS MARITAL STATUS (Single, Widowed, Divorced)

8a. FATHER'S NAME (First, Middle, Last) 8b. BIRTHPLACE (State or Foreign Country)

9a. MOTHER'S NAME (First, Middle, Maiden Surname) 9b. BIRTHPLACE (State or Foreign Country)

10. GROOM'S ADDRESS Street and Number City or Town County State Zip

11. If affidavit is required as proof of age, the name and address of the affiant.
 Name: _____ Address: _____

CONSENT FORM WAIVER

BRIDE

12a. BRIDE'S NAME First Middle Last

12b. MAIDEN SURNAME (if Different) 12c. PREVIOUS NAME (if Different)

13. BIRTHPLACE (State or Foreign Country) 14. DATE OF BIRTH (Month, Day, Year) 15. AGE (18 or older, 17 with consent)

16. SEX 17. OCCUPATION 18. PREVIOUS MARITAL STATUS (Single, Widowed, Divorced)

19a. FATHER'S NAME (First, Middle, Last) 19b. BIRTHPLACE (State or Foreign Country)

20a. MOTHER'S NAME (First, Middle, Maiden Surname) 20b. BIRTHPLACE (State or Foreign Country)

21. BRIDE'S ADDRESS (Street and Number) City or Town County State Zip

22. If affidavit is required as proof of age, the name and address of the affiant.
 Name: _____ Address: _____

CONSENT FORM WAIVER

SIGNATURES

WE HEREBY CERTIFY THAT THE INFORMATION PROVIDED IS CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF AND THAT WE ARE FREE TO MARRY UNDER THE LAWS OF THIS STATE.

23. GROOM'S LEGAL SIGNATURE _____ 24. BRIDE'S LEGAL SIGNATURE _____

NEITHER YOU NOR YOUR SPOUSE IS THE PROPERTY OF THE OTHER. THE LAWS OF THE STATE OF OREGON AFFIRM YOUR RIGHT TO ENTER INTO MARRIAGE AND AT THE SAME TIME TO LIVE WITHIN THE MARRIAGE FREE FROM VIOLENCE AND ABUSE.

LOCAL OFFICIAL TO MARRY

This License Authorizes the Marriage in this State of the Parties Named Above by Any Person Duly Authorized to Perform a Marriage Ceremony Under the Laws of the STATE OF OREGON.

25. LICENSE EXPIRES (Month, Day, Year)

26. DATE LICENSE ISSUED 27. SIGNATURE OF ISSUING OFFICIAL 28. TITLE OF ISSUING OFFICIAL

29. I CERTIFY THAT THE ABOVE NAMED PERSONS WERE MARRIED ON - MONTH, DAY, YEAR 30a. WHERE MARRIED - CITY, TOWN/LOCATION 30b. COUNTY

OREGON

CEREMONY

31a. SIGNATURE OF PERSON PERFORMING CEREMONY 31b. NAME (Type/print) 31c. TITLE

31d. NAME/ADDRESS OF OFFICIANT'S AUTHORIZING RELIGIOUS CONGREGATION/ORGANIZATION 31e. ADDRESS AND PHONE NUMBER OF PERSON PERFORMING CEREMONY

32. WITNESS NAME 33. WITNESS NAME

LOCAL OFFICIAL

34. SIGNATURE OF COUNTY CLERK OR DIRECTOR 35. DATE FILED BY LOCAL OFFICIAL (Month, Day, Year)

36. GROOM'S SOCIAL SECURITY NUMBER (specify #, none, unknown) 37. BRIDE'S SOCIAL SECURITY NUMBER (specify #, none, unknown)

ORS 432.010
 REQUIRED STATISTICAL INFORMATION. THE INFORMATION BELOW WILL NOT APPEAR ON CERTIFIED COPIES OF THE RECORD.

38. NUMBER OF THIS MARRIAGE - First, Second, etc. (Specify below)	39. IF PREVIOUSLY MARRIED, LAST MARRIAGE ENDED (Specify below) By Death, Divorce, Dissolution or Annulment (Specify below)	Date (Month, Day, Year)	40. RACE - OPTIONAL, American Indian, Black, White, etc. (Specify below)	41. EDUCATION (Specify below highest grade completed) Elementary/Secondary College (1-4 or 5+)
38a.	39a.	39b.	40a.	41a.
38b.	39c.	39d.	40b.	41b.

GROOM

BRIDE

THE AUTHORIZED PERSON PERFORMING THIS MARRIAGE IS REQUESTED TO RETURN THE ORIGINAL COPY OF THIS FORM TO THE COUNTY CLERK WITHIN TEN (10) DAYS FOLLOWING THE DATE OF THE MARRIAGE. A PENALTY MAY BE ASSESSED AFTER 35 DAYS. (ORS 106.990)

ORIGINAL - VITAL RECORDS COPY

45-4 (01/02)



136-

State file number:

Record of Dissolution of Marriage or Annulment

Case number: _____

Husband	1. Husband's name: (first) _____ (middle) _____ (last) _____		
	2. Residence or legal address: _____ (street and number) _____ (city or town) _____ (county) _____ (state)		
	3. Date of birth: (mm/dd/yy) _____	4. Birthplace: (state or foreign country) _____	
Wife	5a. Wife's name: (first) _____ (middle) _____ (last) _____		5b. Maiden surname: _____
	6. Former legal names: (if any) _____		
	7. Residence or legal address: _____ (street and number) _____ (city or town) _____ (county) _____ (state)		
	8. Date of birth: (mm/dd/yy) _____	9. Birthplace: (state or foreign country) _____	
Marriage	10a. Place of this marriage: (city, town or location) _____	10b. County: _____	10c. State or foreign country: _____
	11. Date of this marriage: (mm/dd/yy) _____		14. Petitioner: <input type="checkbox"/> Husband <input type="checkbox"/> Wife <input type="checkbox"/> Both
Attorney	12. Date couple last resided in same household: (mm/dd/yy) _____		13. Number of children under 18 in this household as of the date in item 12: Number: _____ <input type="checkbox"/> None
	15a. Name of petitioner's attorney: (print) _____		15b. Address: (street and number or rural route number, city or town, state, ZIP code) _____
	16a. Name of respondent's attorney: (print) _____		16b. Address: (street and number or rural route number, city or town, state, ZIP code) _____
	17. Marriage of the above named persons was dissolved on: (mm/dd/yy) _____		18. Type of decree: <input type="checkbox"/> Dissolution of marriage <input type="checkbox"/> Annulment
Decree	19. Date decree becomes effective: (mm/dd/yy) _____		20. Number of children under 18 whose physical custody was awarded to: Husband: _____ Wife: _____ Joint: (husband and wife) _____ Other: _____ <input type="checkbox"/> No children
	21. County of decree: _____		22. Title of court: _____
	23. Signature of court official: _____		24. Title of court official: _____
	25. Date signed: (mm/dd/yy) _____		

The information below will not appear on certified copies of the record.

26. Husband's Social Security number: (specify number, none or unknown) _____						
27. Wife's Social Security number: (specify number, none or unknown) _____						
Husband	28. Number of this marriage - first, second, etc.: (specify below) _____	29a. If previously married last marriage ended: By death, divorce, dissolution or annulment: (specify below) _____	29b. Date: (mm/dd/yy) _____	30a. Race(s): American Indian, Black, White, etc.: (specify below) List all that apply.	31a. Education - Specify only highest grade completed: (specify below) Elementary/ Secondary: (0 - 12) _____	31b. College: 1- 4 or 5+ _____
	28b. _____	29c. _____	29d. _____	30b. _____	31c. _____	31d. _____
Wife						

The petitioner or legal representative of the petitioner is responsible for completing the personal information on this form and shall present this form to the clerk of the court with the petition. In all cases the completed record shall be a prerequisite to the granting of the final decree.



Local file number

State file number

Declaration of Oregon Registered Domestic Partnership

This declaration of domestic partnership must be registered with an Oregon county clerk to be valid.

Partner A	1. Partner A – Legal name: First Middle Last		
	2. Surname at birth (if different than current legal name):		3. Other legal surnames used:
	4. Birthplace (state or foreign country):	5. Date of birth (month, day, year):	6. Age (18 or older):
	7. Sex:	8. Current status (never married, widowed, divorced):	9a. Resident county:
	9b. Resident state:		
	9c. Mailing address: Number and street City or town State Country ZIP code		
	10. Partner A legal name taken after domestic partnership: First Middle Last		

Partner B	11. Partner B – Legal name: First Middle Last		
	12. Surname at birth (if different than current legal name):		13. Other legal surnames used:
	14. Birthplace (state or foreign country):	15. Date of birth (month, day, year):	16. Age (18 or older):
	17. Sex:	18. Current status (never married, widowed, divorced):	19a. Resident county:
	19b. Resident state:		
	19c. Mailing address: Number and street City or town State Country ZIP code		
	20. Partner B legal name taken after domestic partnership: First Middle Last		

I acknowledge that: I am entering into a domestic partnership with the party listed above (*Partner B*); I am at least 18 years of age; I and/or my partner reside in Oregon and am otherwise capable to enter into this relationship. I declare the information and representations contained herein are true, correct and contain no material omissions of fact to the best of my knowledge and belief. I consent to the jurisdiction of the circuit courts of Oregon for the purpose of an action to obtain a judgment of dissolution or annulment of the domestic partnership or for legal separation of the partners in the domestic partnership, or for any other proceeding related to the partners' rights and obligations, even if one or both partners cease to reside in or to maintain a domicile in this state.

Signature partner A (current name) _____ Date _____ State of _____,
 county of _____. This instrument was acknowledged before me on _____ (date),
 by _____ (name(s) of person(s)).

Signature of notarial officer: _____ Seal: _____
 My commission expires: _____

I acknowledge that: I am entering into a domestic partnership with the party listed above (*Partner A*); I am at least 18 years of age; I and/or my partner reside in Oregon; and am otherwise capable to enter into this relationship. I declare the information and representations contained herein are true, correct and contain no material omissions of fact to the best of my knowledge and belief. I consent to the jurisdiction of the circuit courts of Oregon for the purpose of an action to obtain a judgment of dissolution or annulment of the domestic partnership or for legal separation of the partners in the domestic partnership, or for any other proceeding related to the partners' rights and obligations, even if one or both partners cease to reside in or to maintain a domicile in this state.

Signature Partner B (current name) _____ Date _____ State of _____,
 county of _____. This instrument was acknowledged before me on _____ (date),
 by _____ (name(s) of person(s)).

Signature of notarial officer: _____ Seal: _____
 My commission expires: _____

Local Official	County of filing:	Signature of county official at county of filing:
	Date registered at county:	Name of issuing official (print):

The information below is optional and will not appear on certified copies of the RECORD.

Partner A	20. Number of this partnership (include marriages and domestic partnerships) 1st, 2nd, etc. (specify below):	21. If previously married or part of a domestic partnership, how did it end? By death, divorce, dissolution or annulment? (specify below)	22. Hispanic origin (if yes, specify):	23. Race(s):	24. Education - highest grade completed (specify below):	25. Occupation:
	20a.	21a.	22a.	23a.	24a.	25a.
Partner B	20b.	21b.	22b.	23b.	24b.	25b.



136-

RECORD OF DISSOLUTION OF DECLARATION OF REGISTERED DOMESTIC PARTNERSHIP

	Local file number	State file number
PARTNER A	1. Partner A — Legal name: <i>(First, middle, last, suffix)</i>	
	2. Other legal surnames used:	
	3. Date of birth: <i>(Month, day, year)</i>	4. Birthplace: <i>(State, territory or foreign country)</i>
PARTNER B	5. Residence or legal address: Street and number	5a. City, town: 5b. County: 5c. State:
	6. Partner B — Legal name: <i>(First, middle, last, suffix)</i>	
	7. Other legal surnames used:	
DECLARATION	8. Date of birth: <i>(Month, day, year)</i>	9. Birthplace: <i>(State, territory or foreign country)</i>
	10. Residence or legal address: Street and number	10a. City, town: 10b. County: 10c. State:
	11. Date declaration of domestic partnership filed: <i>(Month, day, year)</i>	11a. County or state in which filed:
ATTORNEY	12. Date last resided in same household: <i>(Month, day, year)</i>	13. Number of children under 18 years of age in this household as of date in item 12:
	14. Petitioner: <input type="checkbox"/> Partner A <input type="checkbox"/> Partner B <input type="checkbox"/> Both	
	15a. Name of petitioner's attorney:	15b. Address: <i>(Street and number, city or town, state, ZIP code)</i>
DECREE	16a. Name of respondent's attorney:	16b. Address: <i>(Street and number, city or town, state, ZIP code)</i>
	17. Declaration of domestic partnership of above named persons was dissolved on: <i>(Month, day, year)</i>	18. Type of decree:
		19. Date decree becomes effective: <i>(Month, day, year)</i>
	20. Number of children under 18 whose physical custody was awarded to: <input type="checkbox"/> Partner A <input type="checkbox"/> Partner B <input type="checkbox"/> Joint <input type="checkbox"/> Other <input type="checkbox"/> No children	21. County of decree:
	22. Title of court:	
	23. Signature of court official:	24. Title of court official:
		25. Date signed: <i>(Month, day, year)</i>

Information below will not appear on the certified copies of the record.

	26. Number of this domestic partnership- First, second, etc.: <i>(Specify below)</i>	27. If previously married or in a domestic partnership, how did it end? (By death, divorce, dissolution, or annulment) <i>(Specify below)</i>	28. Hispanic origin: <i>(If yes, specify)</i>	29. Race(s): Asian, American Indian or Alaskan Native, White, Black or African American, Native Hawaiian or other Pacific Islander. <i>(Specify below)</i>	30. Education: <i>(Specify below highest grade completed)</i>
PARTNER A	26a.	27a.	Date: <i>(Month, day, year)</i> 27b.	28a.	29a.
PARTNER B	26b.	27c.	27d.	28b.	29b.
					30b.

The petitioner or legal representative of the petitioner is responsible for completing the personal information on this form and shall present this form to the clerk of the court with the petition. In all cases the completed record shall be a prerequisite to the granting of the final decree.

Do you want Oregon's most

Up-to-date info

available from the

Center for Health Statistics?

On the web you can find the most recent data available - both preliminary and final tables.

Check out our **Web site**

<http://public.health.oregon.gov/BIRTHDEATHCERTIFICATES/VITALSTATISTICS/Pages/index.aspx>

Are you looking for a specific table or report?

Vital Reports Data

Births Adequacy of prenatal care
*Final method of delivery by facility

Deaths Manner of death
*Age of decedent by county and zip code

Teen Pregnancy Pregnancy rates by county of residence
*Rolling pregnancy rate for past twelve months by county of residence

Survey Data

Adult Behavior Risk Survey - BRFSS

Oregon Healthy Teens Survey - OHT

*These reports (and many others) available only *online*.

Individual tables and chapters of the annual reports, county data book and survey data are made available on the Web as soon as finalized. The complete report (and paper edition) usually takes much longer to publish. Making the data available online increases the timeliness and decreases the cost of publications.



PUBLIC HEALTH DIVISION
CENTER FOR PUBLIC HEALTH PRACTICE
Center for Health Statistics

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