

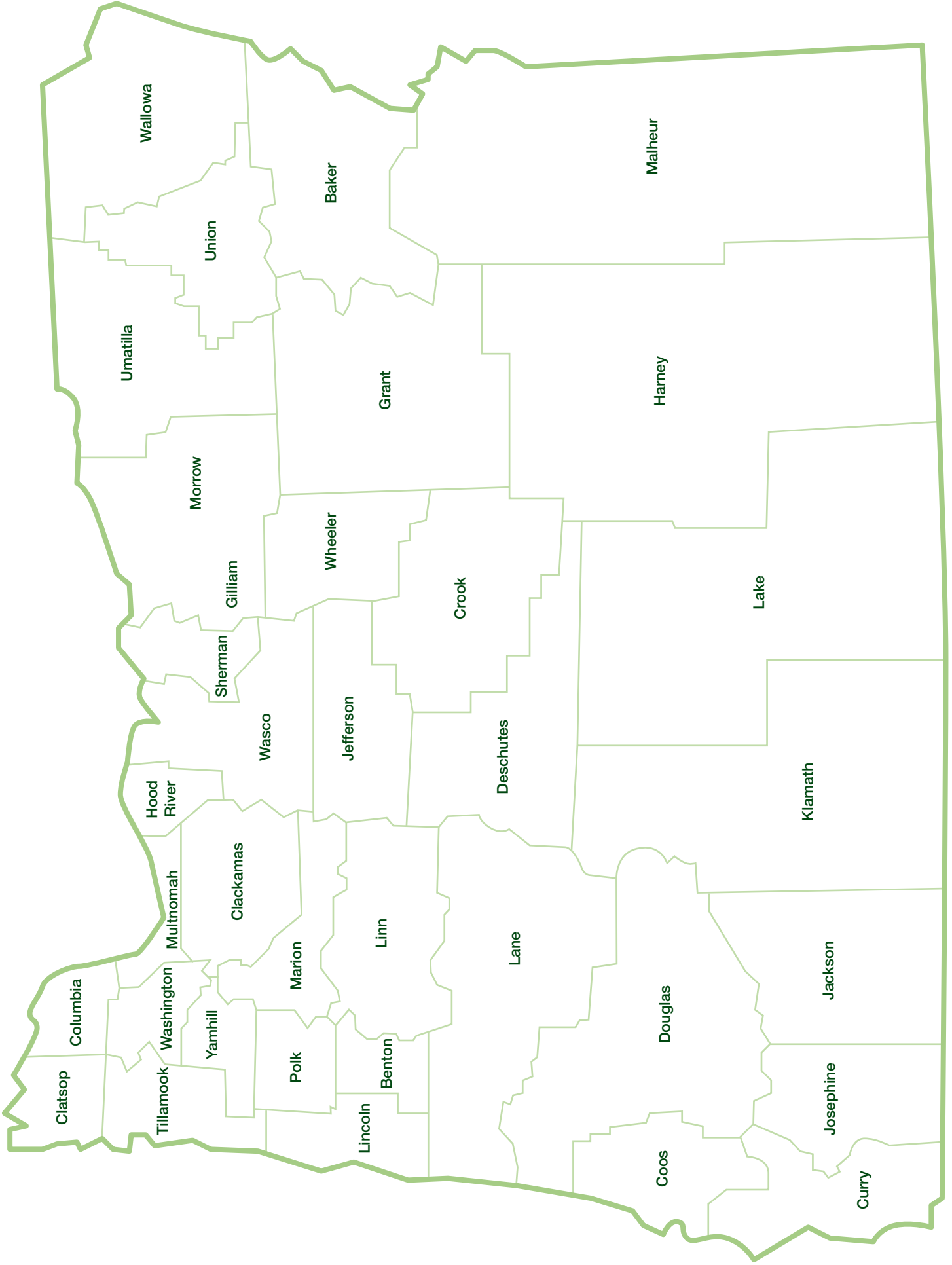
Oregon Vital Statistics Annual Report 2008

Volume 1

- Natality
- Induced termination of pregnancy
- Teen pregnancy



PUBLIC HEALTH DIVISION
Office of Disease Prevention and Epidemiology
Center for Health Statistics



Oregon
Vital Statistics
Annual Report
2008

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.

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SECTION 1: QUICK REFERENCE (VOLUME 1)

Quick reference (Volume 1)

Summary of Oregon Vital Events, 2008

Population	3,791,075	The population increased 45,620, or 1.2 percent over 2007.
Live Births	Residents	The number of births decreased by 256. The crude rate decreased by 0.2 percent, while the fertility rate decreased by 2.1 percent.
Number	49,117	
Crude Rate	13.0	
Fertility Rate	64.6	
Marriages	Occurrences	The number of marriages decreased by 525. The rate decreased by 1.9 percent.
Number	26,139	
Crude Rate	6.9	
Divorces	Occurrences	The number of divorces decreased by 112. The rate decreased by 0.8 percent.
Number	14,809	
Crude Rate	3.9	
Domestic Partnerships	Occurrences	The first Domestic Partnerships were registered with the state in February 2008.
Number	2,636	
Crude Rate	0.7	
Unmarried Mothers	Residents	The number of unmarried mothers giving birth increased by 375. The proportion of births which were to unmarried mothers increased by 2.8 percent.
Number	17,686	
Ratio	360.7	
Low Birthweight Infants	Residents	The number of low birthweight infants decreased by 31. The rate decreased by 0.5 percent.
Number	2,980	
Rate	60.7	
Induced Abortions	Occurrences	The number of reported abortions decreased by 1,273, a decrease of 10.7 percent from 2007. The abortion ratio decreased 10.9 percent.
Number	10,610	
Ratio	214.4	
<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., 1945-2008

Year	Live Births		Births to Unmarried Mothers		Marriages		Divorces	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
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., 1945-2008 — Continued

Year	Live Births		Births to Unmarried Mothers		Marriages		Divorces	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
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	Not Available	4.1
2001	4,025,933	14.1	1,349,249	335.1	2,345,000	8.2	Not Available	3.9
2002	4,021,726	13.9	1,365,966	339.6	2,254,000	7.9	Not Available	4.0
2003	4,089,950	14.1	1,415,995	346.0	2,224,000	7.5	Not Available	3.8
2004	4,112,052	14.0	1,470,189	358.0	2,279,000	7.8	Not Available	3.7
2005	4,138,349	14.0	1,527,034	369.0	2,249,000	7.6	Not Available	3.6
2006	4,265,555	14.2	1,641,946	385.0	2,193,000	7.4	Not Available	3.7
2007	4,317,119	14.3	1,714,643	397.0	2,205,000	7.3	Not Available	3.6
2008	4,251,095	14.0	1,727,950	406.0	2,162,000	7.1	Not Available	3.5

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

The source for data is: Births: Preliminary Data for 2008.
National Vital Statistics Reports, Vol. 58, No. 16, April 6, 2010
Marriage and divorce number and rate: Births, Marriages, Divorces and Deaths. Provisional Data for 2008.
National Vital Statistics Reports, Vol. 57, No. 19, July 29, 2009, p.1.

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, 1935-2008

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, 1935-2008 — 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

* 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, 2008**

County	Estimated Population July 1, 2008	Live Births		Births to Unmarried Mothers		Marriages		Divorces	
		No.	Rate	No.	Ratio	No.	Rate	No.	Rate
Total	3,791,075	49,117	13.0	17,686	360.7	26,139	6.9	14,809	3.9
Baker	16,455	193	11.7	71	367.9	115	7.0	70	4.3
Benton	86,120	734	§ 8.5	171	§ 233.0	414	§ 4.8	255	§ 3.0
Clackamas	376,660	4,208	§ 11.2	1,175	§ 279.6	2,779	§ 7.4	1,266	§ 3.4
Clatsop	37,695	452	12.0	205	§ 455.6	626	§ 16.6	155	4.1
Columbia	48,095	553	§ 11.5	200	362.3	309	6.4	218	§ 4.5
Coos	63,210	660	§ 10.4	286	§ 436.0	401	6.3	237	3.7
Crook	26,845	222	§ 8.3	78	351.4	135	§ 5.0	136	§ 5.1
Curry	21,510	140	§ 6.5	54	519.2	165	7.7	90	4.2
Deschutes	167,015	1,944	§ 11.6	648	§ 333.8	1,091	6.5	747	§ 4.5
Douglas	105,240	1,147	§ 10.9	485	§ 423.2	742	7.1	488	§ 4.6
Gilliam	1,885	16	§ 8.5	7	437.5	14	7.4	8	4.2
Grant	7,530	62	§ 8.2	26	419.4	53	7.0	39	5.2
Harney	7,705	75	§ 9.7	21	280.0	39	§ 5.1	16	§ 2.1
Hood River	21,625	297	13.7	101	340.1	296	§ 13.7	76	3.5
Jackson	205,305	2,444	§ 11.9	958	§ 393.8	1,369	6.7	998	§ 4.9
Jefferson	22,450	377	§ 16.8	189	§ 501.3	156	6.9	77	3.4
Josephine	83,290	911	§ 10.9	393	§ 432.3	519	§ 6.2	334	4.0
Klamath	66,180	846	12.8	367	435.3	450	6.8	290	4.4
Lake	7,585	75	§ 9.9	23	310.8	50	6.6	34	4.5
Lane	345,880	3,784	§ 10.9	1,468	§ 388.1	2,216	§ 6.4	1,439	§ 4.2
Lincoln	44,715	471	§ 10.5	245	§ 521.3	755	§ 16.9	194	4.3
Linn	110,185	1,468	13.3	565	385.4	767	7.0	562	§ 5.1
Malheur	31,675	542	§ 17.1	247	§ 455.7	188	§ 5.9	86	§ 2.7
Marion	314,865	5,013	§ 15.9	2,171	§ 433.4	2,279	§ 7.2	1,277	4.1
Morrow	12,485	159	12.7	70	440.3	65	§ 5.2	29	§ 2.3
Multnomah	717,880	10,289	§ 14.3	3,658	355.7	5,337	§ 7.4	2,414	§ 3.4
Polk	68,235	951	§ 13.9	330	347.0	479	7.0	247	3.6
Sherman	1,845	17	9.2	5	294.1	5	§ 2.7	8	4.3
Tillamook	26,060	263	§ 10.1	101	384.0	354	§ 13.6	84	3.2
Umatilla	72,380	1,112	§ 15.4	516	§ 464.4	427	§ 5.9	334	§ 4.6
Union	25,360	330	13.0	116	351.5	157	6.2	67	§ 2.6
Wallowa	7,115	67	§ 9.4	21	313.4	56	7.9	11	§ 1.5
Wasco	24,170	293	12.1	120	409.6	193	8.0	96	4.0
Washington ...	519,925	7,729	§ 14.9	2,130	§ 275.7	2,480	§ 4.8	1,998	3.8
Wheeler	1,575	8	§ 5.1	2	250.0	13	8.3	9	5.7
Yamhill	94,325	1,262	13.4	463	367.2	645	6.8	420	§ 4.5

NOTE: Rate per 1,000 population for live births, marriages and divorces. Ratio per 1,000 live births for births to unmarried mothers. Ratio is calculated excluding missing and unknown values.

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

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

TABLE 1-4. Population and Births by City of Residence, Oregon, 2008

City of Residence	Estimated Population July 1, 2008	Births	
		Number	Rate
Albany (Linn, Benton)	48,770	684	14.0
Ashland (Jackson)	21,485	150	7.0
Astoria (Clatsop)	10,080	154	15.3
Baker City (Baker)	10,140	127	12.5
Beaverton (Washington)	86,205	1,966	22.8
Bend (Deschutes)	80,995	1,069	13.2
Canby (Clackamas)	15,165	246	16.2
Central Point (Jackson)	17,160	275	16.0
Coos Bay (Coos)	16,670	245	14.7
Corvallis (Benton)	54,880	502	9.1
Dallas (Polk)	15,360	187	12.2
Eugene (Lane)	154,620	1,711	11.1
Forest Grove (Washington)	21,465	301	14.0
Gladstone (Clackamas)	12,215	144	11.8
Grants Pass (Josephine)	32,260	518	16.1
Gresham (Multnomah)	100,655	1,075	10.7
Hermiston (Umatilla)	16,080	293	18.2
Hillsboro (Washington)	89,285	1,354	15.2
Keizer (Marion)	36,150	499	13.8
Klamath Falls (Klamath)	21,305	402	18.9
La Grande (Union)	12,935	217	16.8
Lake Oswego (Clackamas, Multnomah, Washington)	36,590	243	6.6
Lebanon (Linn)	15,185	240	15.8
McMinnville (Yamhill)	32,400	466	14.4
Medford (Jackson)	76,850	1,163	15.1
Milwaukie (Clackamas)	20,915	648	31.0
Newberg (Yamhill)	22,645	320	14.1
Newport (Lincoln)	10,580	126	11.9
Ontario (Malheur)	11,435	278	24.3
Oregon City (Clackamas)	30,405	511	16.8
Pendleton (Umatilla)	17,295	187	10.8
Portland (Clackamas, Multnomah, Washington)	575,931	9,068	15.7
Redmond (Deschutes)	25,445	474	18.6
Roseburg (Douglas)	21,235	428	20.2
Salem (Marion, Polk)	154,510	2,948	19.1
Springfield (Lane)	58,005	1,006	17.3
St. Helens (Columbia)	12,325	178	14.4
The Dalles (Wasco)	13,170	205	15.6
Tigard (Washington)	47,150	693	14.7
Troutdale (Multnomah)	15,465	259	16.7
Tualatin (Clackamas, Washington)	26,040	336	12.9
West Linn (Clackamas)	24,400	232	9.5
Wilsonville (Clackamas, Washington)	17,940	228	12.7
Woodburn (Marion)	23,355	520	22.3

Selected cities of 10,000 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, 1980-2008

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

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, 2008**

County	Total	Domestic Partnerships	
		Male-Male	Female-Female
Total	2,636	782	1,854
Baker	3	1	2
Benton	120	21	99
Clackamas	123	38	85
Clatsop	22	8	14
Columbia	13	3	10
Coos	18	4	14
Crook	4	—	4
Curry	7	3	4
Deschutes	80	9	71
Douglas	28	4	24
Gilliam	—	—	—
Grant	—	—	—
Harney	—	—	—
Hood River	3	1	2
Jackson	112	24	88
Jefferson	4	2	2
Josephine	27	5	22
Klamath	16	2	14
Lake	—	—	—
Lane	305	52	253
Lincoln	43	10	33
Linn	43	6	37
Malheur	9	3	6
Marion	136	44	92
Morrow	1	1	—
Multnomah	1,238	443	796
Polk	32	14	18
Sherman	—	—	—
Tillamook	10	5	5
Umatilla	9	1	8
Union	7	1	6
Wallowa	—	—	—
Wasco	5	3	2
Washington	200	69	131
Wheeler	—	—	—
Yamhill	18	5	13

— Quantity is zero.

SECTION 2: NATALITY

Natality

In 2008, Oregon recorded **49,117 resident births**, 256 fewer than in 2007. The **crude birth rate** (the number of babies born divided by the total state population) was 13.0 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 a low of 12.6 in 2005. 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 2008, Oregon's rate was seven percent lower than the national rate (13.0 vs. 14.0). (See Figure 2-1.)

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

Oregon's **fertility rate** decreased from 66.0 in 2007 to 64.6 per 1,000 women aged 15–44 in 2008. (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 most age groups; birth rates increased slightly for women in the 15–19 and 20–24 age groups. The largest percentage decrease was among women aged 25–29 (4.2 %). (See Table 2-2, Figure 2-2, page 2-2.)

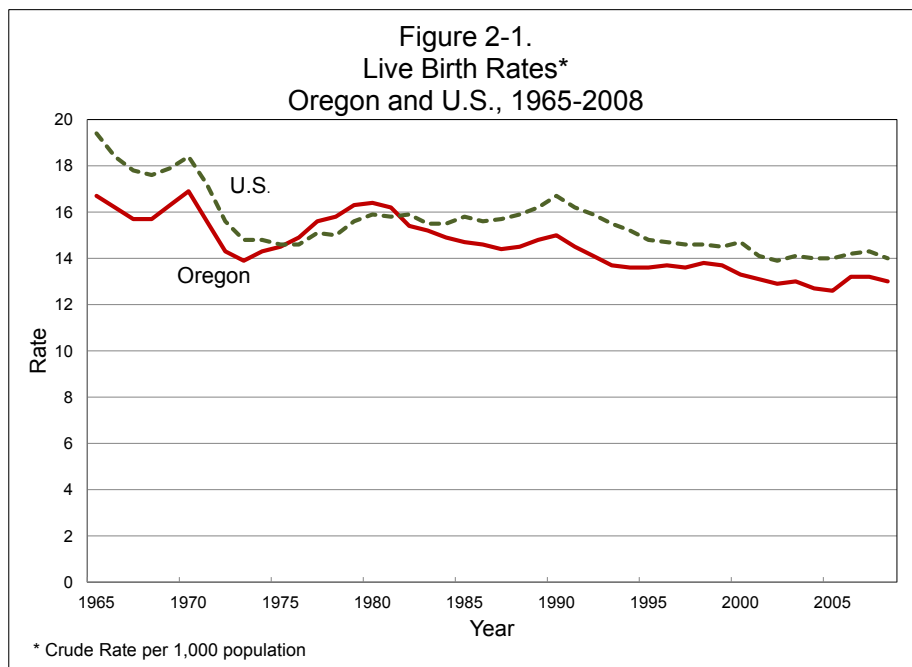
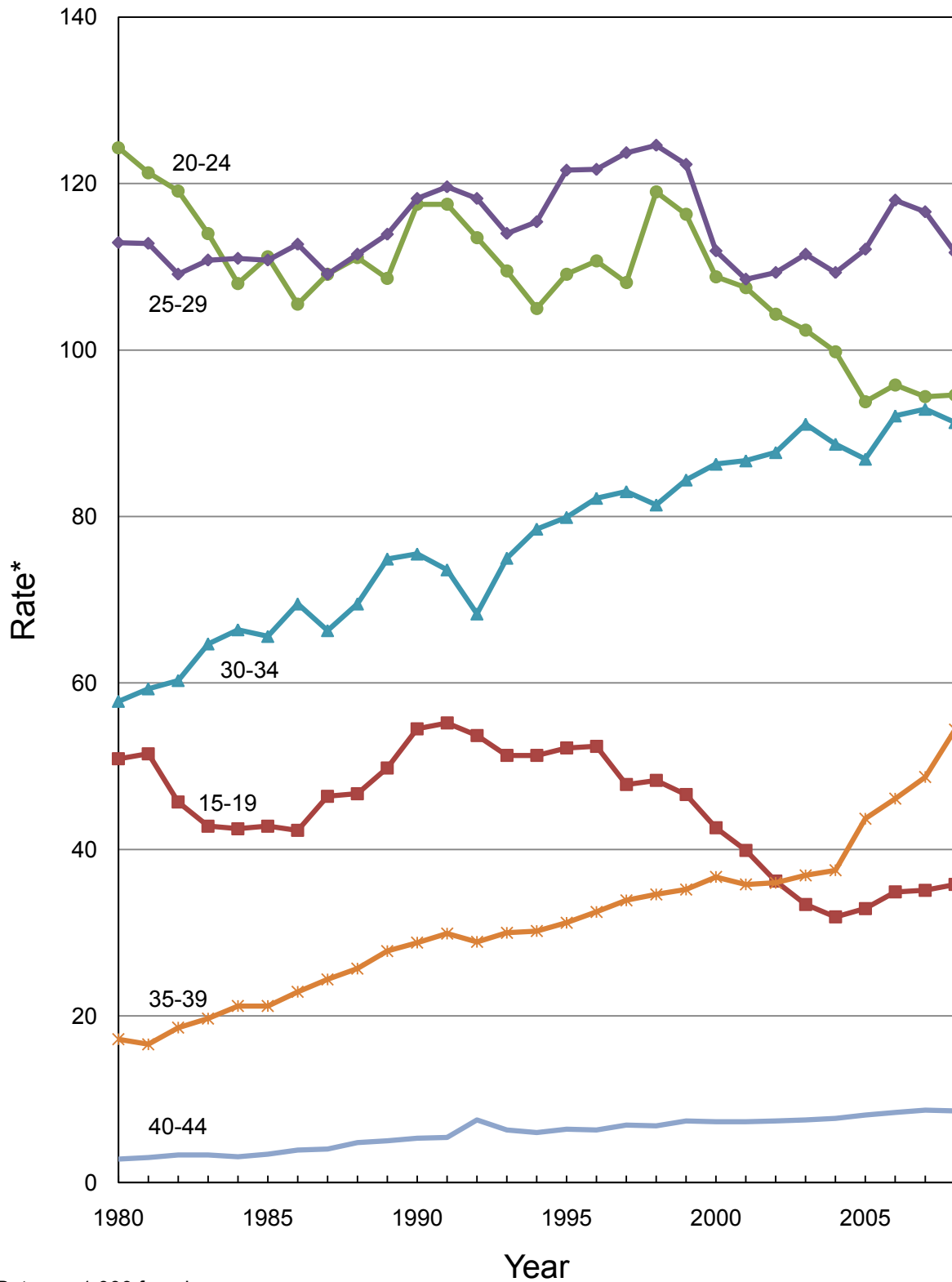


Figure 2-2.
Age-specific Birth Rates,
Oregon Residents, 1980-2008



*Rate per 1,000 females

The youngest female to give birth in 2008 was 10 years old and the oldest was 51. Mother’s median age for all births was 27 and the mean age was 27.6. The median age at first birth was 25 and the mean age was 25.3. The **rate of first birth** decreased slightly from the previous year to 26.8 first births per 1,000 women aged 15–44, slightly lower than the 2008 national rate of 27.7. The proportion of first births among total births has been stable for the past decade. In 1998, 40.4 percent of births were first births while in 2008, 41.4 percent were first births.

Father’s mean age for births was 30.3 years and the median age was 30. The **birth rate per 1,000 men** ages 15–54 was 55.7 in 2008 for Oregon resident births. Information on the father was missing from nine 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 2008 was 49.4 per 1,000 men.

Demographics

Maternal race and ethnicity

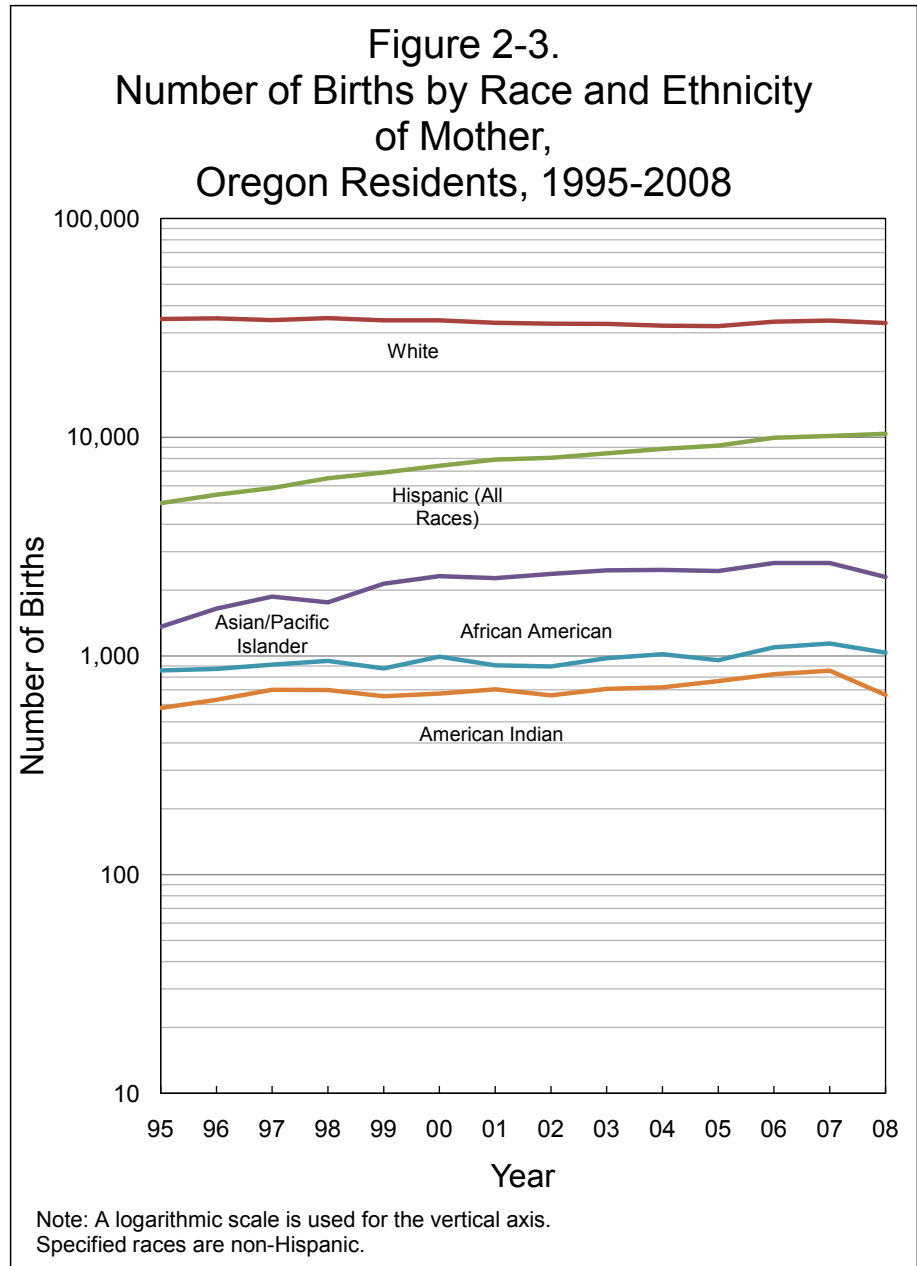
Birth rates for racial and ethnic groups are not calculated in this report because precise population data by racial and ethnic groups are available only for census years. Instead, this report focuses on the race and ethnicity of women who gave birth as a proportion of total births.

Since 1989, the number of births to women of Hispanic ethnicity has more than quadrupled to 20 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. White non-Hispanic and

In 2008, a 41 year-old mother delivered her 18th child.

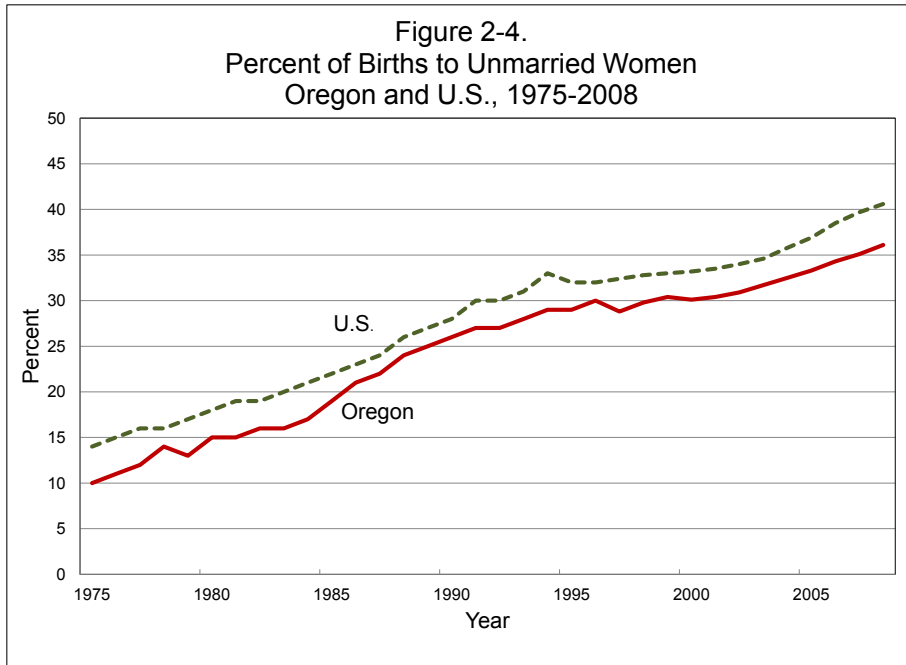
Year	Oregon	U.S.
1980	69.3	68.4
1981	68.1	67.3
1982	65.2	67.3
1983	64.1	65.7
1984	62.8	65.5
1985	62.2	66.3
1986	61.8	65.4
1987	60.9	65.8
1988	61.8	67.3
1989	63.3	69.2
1990	65.1	70.9
1991	63.7	69.3
1992	62.5	68.4
1993	61.1	67.0
1994	61.0	65.9
1995	62.3	64.6
1996	63.2	64.1
1997	63.0	63.6
1998	64.2	64.3
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



Asian non-Hispanic women had the lowest percentages of inadequate care (5.7 and 5.2 % 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 one. In Oregon, the ratio of births to unmarried mothers in 2008 was 3.6 times higher than in 1975, and 5.7 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 2008, 36.1 percent of all Oregon births were to unmarried women, a slight increase 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 2008 was 11 percent lower than the U.S. rate. (See Figure 2-4.)

Among women giving birth in 2008, 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 (62.5 %), closely followed by non-Hispanic African American women (62.1 %), and non-Hispanic women reporting multiple races (54.2 %). Non-Hispanic Asian women had the lowest percentage of unmarried mothers (12.4 %). (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 2008 were unmarried (83.4 %), compared to 54.4 percent for women aged 20–24 and 29.3 percent for women aged 25–29. The percentage of unmarried women was lowest for mothers aged 30–34 (18.0 %) and 35–39 (16.2 %), while 20.8 percent of mothers aged 40–44 were unmarried. (See Table 2-3.) Twelve of Oregon’s 36 counties had proportions

Race/Ethnicity	Unmarried (%)
Total	36.1
Non-Hispanic	
African American	62.1
American Indian	62.5
White	31.5
Asian	12.4
Multiple Races	54.2
Hispanic	55.3

of non-marital births significantly higher than the state average. (See Table 2-9.) Among counties with statistically significant differences, Lincoln had the highest percentage (52.1 %) followed by Curry (51.9 %) and Jefferson (50.1 %). (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 (23.3 %). 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 2008 had at least a high school diploma or GED (78.8 %) and 24.8 percent had a bachelor's degree or higher. The race/ethnic groups with the highest percentages of high school completion are non-Hispanic Asian (91.3 %) and non-Hispanic White (88.4 %) mothers. Hispanic mothers had the lowest percentage of completion of at least 12 years of education (44.3 %). (See Table 2-13.)

Table 2-C. Mothers' Education and No First Trimester Care, Oregon Residents, 2008	
Years of Education	No First Trimester Care (%)
8th Grade or Less	47.4
9th to 12th Grade, No Diploma	47.4
High School Graduate or GED	35.3
Some College, No Degree	27.6
Associates Degree	19.8
Bachelors Degree	14.4
Masters Degree	12.1
Doctorate or Professional Degree	11.8

Maternal lifestyle and health characteristics

Tobacco

Oregon Benchmark for the Year 2010

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

Year 2010 target:	98 %
2008:	88.7 %

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. In 2008, the Oregon infant mortality rate during the first 27 days of life (neonatal) was 51.8 per 1,000 live births for low birthweight (less than 2,500 grams) infants compared to 0.7 per 1,000 for infants with birthweights of 2,500 grams or more. Women who smoked had a low birthweight rate of 84.7 per 1,000 live births, compared to 57.1 per 1,000 among women who did not smoke. One of nine mothers (11.8 %) reported using tobacco during pregnancy, a proportion that is among the lowest observed in the last 20 years. (See sidebar 2-D, page 2-7.) The percentage of tobacco use among unmarried women was nearly four times that of married women (22.9 %

Women who smoked had a low birthweight rate of 84.7 per 1,000.

Figure 2-5.
Percentage of Mothers Who Smoked During Pregnancy by Age and Marital Status, Oregon Residents, 2008

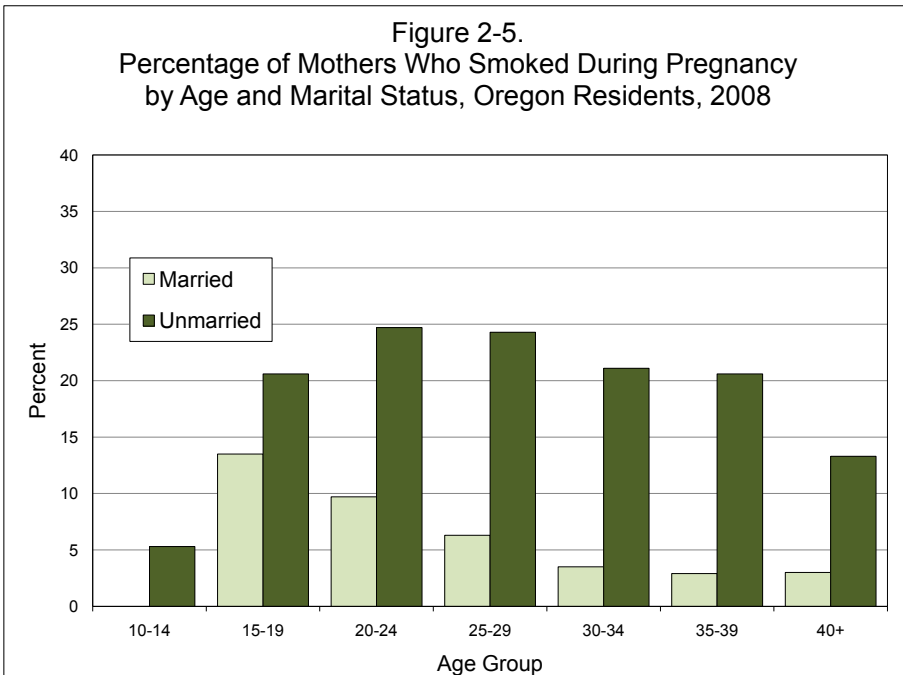


Table 2-D. Percent Tobacco Use, Oregon Residents	
Year	Percentage
1990	22.4
1991	21.4
1992	20.5
1993	18.9
1994	18.2
1995	17.9
1996	17.8
1997	16.2
1998	15.2
1999	14.5
2000	13.5
2001	12.8
2002	12.6
2003	12.0
2004	12.6
2005	12.4
2006	12.3
2007	11.7
2008	11.8

vs. 5.6 %). The highest percentage of tobacco use during pregnancy in 2008 was among unmarried mothers aged 20–24 and unmarried mothers aged 25–29 (24.7% and 24.3% respectively). Generally, the percentage of mothers who reported smoking during pregnancy decreased with age regardless of marital status. The lowest percentage of smokers was reported for married mothers aged 35–39 (2.9 %). (See Figure 2-5.)

Smoking prevalence as reported on birth certificates also varied among racial and ethnic groups. In 2008, non-Hispanic American Indian women (21.5 %) and non-Hispanic women reporting multiple races (20.1 %) had the highest reported proportions for smoking during pregnancy, while non-Hispanic Asian women (2.4 %) and Hispanic women (3.4 %) 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.

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 Oregon, 47.3 percent of women enter pregnancy overweight or obese. (See Table 2-24.) The standard recommendation for weight gain during pregnancy is 25 to 30 pounds above pre-pregnancy weight. Many Oregon mothers exceeded this recommendation in 2008. The median weight gain during pregnancy was 30 pounds in 2008 and 47.5 percent gained more than 30 pounds. The amount of weight mothers gained varied by period of gestation, race and ethnicity. For all births, Hispanic (37.8%) and non-Hispanic Asian women (41.2%) were least likely to gain 30 pounds or more during pregnancy. (See Table 2-33.) Non-Hispanic women with multiple races (53.1%) were the highest percentage to gain more than 30 pounds during pregnancy.

Non-Hispanic African American women mothers delivered the highest percentage of low birthweight infants in 2008 (10.8%) and were most likely to gain less than 10 pounds (11.2%). Asian women and Hawaiian and Pacific Island women had the lowest percentage of low birthweight infants (4.5 %). (See Table 2-31.) Asian women had the lowest percentage of weight gain less than 10 pounds (4.1%) while Hawaiian and Pacific Island women had the second highest (10.5%).

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 2008, the most frequently reported medical risk factors were previous cesarean delivery (10.8 %), gestational diabetes (4.9 %), and pregnancy-associated hypertension (4.7 %). (See Table 2-23 and Table 2-26.)

Medical services utilization

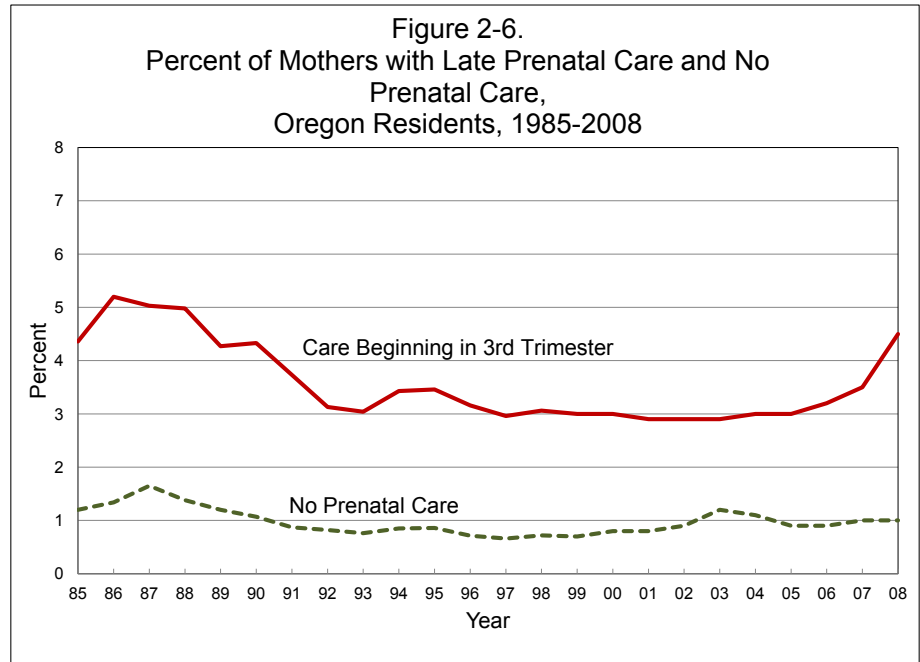
Prenatal care

Oregon Benchmark for the Year 2010

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

<i>Year 2010 target:</i>	<i>90 %</i>
<i>2008:</i>	<i>70 %</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 2010. Overall, 70.2 percent of women who gave birth during 2008 received early prenatal care, which is lower than the 2008 national number



of 71.0 percent. (See Table 2-17; Table 1-5.) Moreover, this is 10.5 percent lower than the 2007 rate of 78.4 percent.

In 2008, 7.0 percent of women giving birth received inadequate prenatal care and more than 28 percent received no first trimester care. The percentage of low birthweight infants was much higher for women who received inadequate prenatal care, 11.6 percent, compared to 6.0 percent of children born to mothers who received adequate prenatal care. The percentage of mothers that received no prenatal care was about the same as previous years (1 %). Mothers who initiated care in the third trimester increased one percentage point in 2008 from 3.5 percent in 2007 to 4.5 percent. (See Figure 2-6.) 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.)

Seven of Oregon's 36 counties had first trimester care rates significantly higher than the statewide rate: Benton, Clackamas, Deschutes, Klamath, Wasco, Washington and Yamhill. Five counties had rates significantly lower than the

Table 2-E. Adequacy of Prenatal Care Utilization Index Oregon 2003-2008				
Year	Intensive	Adequate	Intermediate	Inadequate
2003	26.9	45.8	15.1	11.1
2004	25.8	44.1	17.4	11.6
2005	24.2	44.3	19.4	11.3
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

statewide rate: Josephine, Malheur, Marion, Multnomah and Umatilla. (See Table 2-20.)

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-E, 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 97.1 percent of Oregon occurrence births. Most in-hospital births (79.8 %) were delivered by M.D.s, Certified Nurse Midwives delivered 16.3 percent of hospital births, 3.6 percent were by D.O.s, and 0.3 percent by other licensed medical professionals. (See Table 2-27.)

Out-of-hospital births. In 2008, 2.9 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 2008, Oregon's proportion of out-of-hospital births was nearly triple the 2008 U.S. percentage (1%). As in past years, the majority of out-of-hospital births occurred in the mother's home (65.1 %). Of those home births, 95.5 percent were planned homebirths, while the remaining 4.5 percent were not intended to occur at home. Freestanding birthing centers accounted for 461 births, nearly one-third of out-of-hospital births. Outcomes generally have been positive for out-of-hospital births. In 2008, 23 infants born out-of-hospital in Oregon had low birthweights (1.6 %). For births that occurred in a birthing facility or were planned homebirths, only 1.0 percent of out-of-hospital births were low birthweight. Three infants (0.5 %) 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,

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

¹ Rate per 1,000 births

Table 2-G. 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

university-affiliated nurse-midwifery program, and have an active Nurse Practitioner (NP) license. LDMs are direct entry midwives who have volunteered for state licensure through the Oregon Health Licensing Agency (OHLA). They must meet qualifications and adhere to regulations set by the State of Oregon. DEMs are direct entry midwives that are not licensed in Oregon.

A major shift during the past few decades has been the increasing prevalence of births attended by Certified Nurse Midwives (CNMs). In 2008, 16.3 percent of hospital deliveries were CNM-attended, a slight increase from 2007 (15.4 %) and more than three times the proportion in 1988 (5.3 %). This is more than twice the national proportion of births attended by CNMs (8.0 %). In addition, CNMs delivered approximately one in eight out-of-hospital births (12.9 %). Licensed Direct Entry Midwives (LDM) were predominant in out-of-hospital births, delivering over one half (53.5 %) of those births in 2008. Direct Entry Midwives (DEMs) delivered an additional 13.3 percent of the out-of-hospital births. Naturopathic Physicians delivered approximately one in 10 out-of-hospital births (11.9 %). Non-medical attendants delivered 99 babies, 6.9 percent of the out-of-hospital births. (See Table 2-27.)

Method of delivery

In 2008, the rate of cesarean delivery was 28.9 per 100 births, well below the 2008 U.S. rate of 32.3 per 100 births. The rate for vaginal delivery after a previous cesarean was only 1.4, while repeat cesarean was 9.4 per 100 births. The majority of births (69.7 per 100) continue to be vaginal deliveries without prior cesarean. (See Table 2-28.) However, the number of vaginal deliveries (without prior cesarean) has declined 0.6 percent from 2007 and increased 1.8 percent from 2003. Cesarean rates were relatively unchanged from 2007 (28.9 per 100 births) and 14.2 percent higher than 2003 (25.3 per 100 births).

Infant health characteristics

Period of gestation

Preterm births (born prior to completion of 37 weeks gestation) comprised 7.9 percent of total births in 2008, much lower than the U.S. rate in 2008 (12.3 %). (See Table 2-25.) Similar to national trends, proportions of preterm births are higher for non-Hispanic African Americans (11.7

%). Asian women had the lowest proportion of preterm births (7.5 %). (See Table 2-25.)

Low birthweight

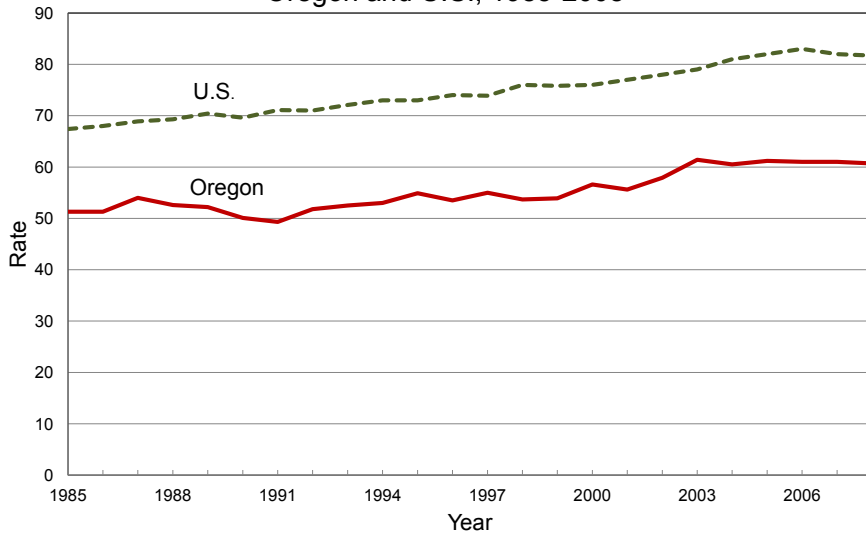
National Healthy People 2010 Objective

Percentage of live births resulting in low birthweight infants.

Year 2010 target:	5.0 %
2008:	6.1 %

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 2008, 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 2008, there were 2,980 low birthweight babies born to Oregon mothers. (See Table 2-29.) One of the National Healthy People 2010 Objectives is to reduce the percentage of low birthweight infants nationwide to 5.0 percent. In 2008, the percentage of low birthweight births in Oregon remained above this objective at 6.1 percent, or 60.7 per 1,000 live births. This rate is slightly lower than

Figure 2-7.
Low Birthweight Rates*,
Oregon and U.S., 1985-2008



* Rate per 1,000 live births

Among Oregon resident births in 2008, the biggest baby born was 16 lbs 15 oz.

the 2007 rate (61.1 per 1,000 live births). While annual changes have been slight in the last 20 years, there has been an upward trend in low birthweight infants. (See Table 1-5; Figure 2-7.) Nevertheless, Oregon's low birthweight rates are typically 25 percent lower than national rates and in 2008, Oregon's rate was 25.9 percent lower than the 2008 national rate (60.7 vs. 82.0 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 35–39 have a higher than average percentage of first trimester care (77.9 %) compared to the state average of 70.2 percent. (See Table 2-17.) Nevertheless, women ages 35–39 continue to have a higher percentage of low birthweight babies, 6.9 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 birth weight, 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 2008, the prevalence of fetal macrosomia at 4,000 grams was 10.7 percent. (See Tables 2-24 and 2-25). As maternal age increases, the risk of fetal macrosomia increases (see Table 2-24). The percentage of infants born weighing more than 4,000 grams is 14 percent greater in women 35 and older than the state average and 73 percent higher than among women younger than 20 (12.2% to 7.0% respectively).

In 2008, the prevalence of macrosomia was highest among White non-Hispanic 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

Table 2-H. 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

0–2 and the score totaled. Scores below 7, five minutes after birth, indicate poor to intermediate health at birth. In Oregon during 2008, 3.0 percent of infants had Apgar scores below 7, nearly twice the 2008 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 assisted ventilation of less than 30 minutes and assisted ventilation of more than six hours. (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 3.1 percent of births in Oregon during 2008 were multiple births, the proportion varied widely by age, race and ethnicity. During 2008 mothers aged 45 and older had the highest percentage of multiple births. The percentage of multiple births for each age group ranged from 1.3 percent for mothers aged 15–19 to 25.3 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 Americans had the highest percentage of multiple births (4.4%). The next highest percentage of multiple births was among American Indian, and Native Hawaiian and Pacific Islanders (3.6%). (See Table 2-25.)

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 (53.6%), down from 55.9 percent in 2007 (see sidebar 2-I). Medicaid programs (e.g., the Oregon Health Plan) paid for two-fifths of Oregon resident births (40.9%). Delivery costs were more likely to be paid for by public insurance if the woman was under age 18. (See Table 2-14.)

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

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

TABLE 2-1. Oregon Resident Births by Age Group of Mother, Selected Years 1955-1985, 1990-2008

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	
1991	42,458	88	0.2	5,137	12.1	11,447	27.0	12,291	28.9	8,965	21.1	3,856	9.1	655	1.5	11	0.0	8	
1992	41,941	86	0.2	5,108	12.2	11,367	27.1	11,953	28.5	8,898	21.2	3,763	8.9	725	1.7	29	0.1	12	
1993	41,566	83	0.2	5,091	12.2	11,197	26.9	11,461	27.6	8,966	21.6	3,930	9.5	797	1.9	36	0.1	0	
1994	41,832	117	0.3	5,238	12.5	10,999	26.3	11,592	27.7	9,150	21.9	3,904	9.3	776	1.9	45	0.1	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	

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

TABLE 2-2. Age Specific Birth Rates, Fertility Rates and Total Fertility Rates, Oregon, 1940, 1950, 1960, 1970, 1980-2008

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

*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, 1980-2008

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

TABLE 2-4. Age of Mother by Live Birth Order, Oregon Resident Births, 2008

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	49,117	38	4,474	11,986	14,274	11,471	5,693	1,101	75	5
First	20,348	38	3,767	6,254	5,150	3,515	1,373	240	8	3
Second	15,451	-	611	3,950	4,816	3,827	1,896	326	25	-
Third	7,764	-	84	1,340	2,774	2,211	1,142	195	16	2
Fourth	3,361	-	11	372	1,068	1,101	658	139	12	-
Fifth	1,261	-	1	58	324	487	302	84	5	-
Sixth	514	-	-	9	101	195	166	39	4	-
Seventh	220	-	-	2	31	75	77	34	1	-
Eighth	94	-	-	-	4	37	35	17	1	-
Ninth+	104	-	-	1	6	23	44	27	3	-

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

Table 2-5. Total Pregnancies¹ by Type of Outcome and Age Group, Oregon Residents, 2008

Type of Outcome	Total	Age Group								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	59,939	68	6,311	15,259	16,884	13,134	6,700	1,420	109	54
Live Births	49,117	38	4,474	11,986	14,274	11,471	5,693	1,101	75	5
Percent	81.9	55.9	70.9	78.6	84.5	87.3	85.0	77.5	68.8	9.3
Fetal Deaths	212	-	25	60	47	54	22	4	-	-
Percent	0.4	-	0.4	0.4	0.3	0.4	0.3	0.3	-	-
Induced Abortions ..	10,610	30	1,812	3,213	2,563	1,609	985	315	34	49
Percent	17.7	44.1	28.7	21.1	15.2	12.3	14.7	22.2	31.2	90.7

- 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, 2008

County of Residence	All Ages	Age Groups							
		10-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	58,490	6,128	14,837	16,552	12,888	6,553	1,379	105	48
Baker	197	21	62	72	27	12	3	—	—
Benton	859	60	211	226	230	103	25	2	2
Clackamas	5,100	424	1,215	1,411	1,227	661	147	9	6
Clatsop	521	62	157	161	86	46	8	—	1
Columbia	637	91	157	171	145	56	15	2	—
Coos	696	97	250	184	116	37	10	2	—
Crook	241	22	76	71	52	11	9	—	—
Curry	145	21	47	41	25	8	3	—	—
Deschutes	2,303	220	583	637	529	269	56	8	1
Douglas	1,205	159	386	362	198	86	12	2	—
Gilliam	18	*	*	*	*	*	*	*	*
Grant	66	*	*	*	*	*	*	*	*
Harney	81	*	*	*	*	*	*	*	*
Hood River	338	32	81	92	71	44	18	—	—
Jackson	2,883	363	871	877	481	224	60	4	3
Jefferson	414	80	121	112	63	28	10	—	—
Josephine	1,028	114	328	294	191	88	13	—	—
Klamath	942	164	281	263	156	63	13	2	—
Lake	79	*	*	*	*	*	*	*	*
Lane	4,299	459	1,168	1,270	853	451	90	4	4
Lincoln	554	73	162	158	106	45	9	1	—
Linn	1,621	200	506	483	281	122	26	3	—
Malheur	553	88	174	165	79	45	2	—	—
Marion	5,864	789	1,676	1,681	1,135	453	122	5	3
Morrow	163	18	47	46	26	23	2	1	—
Multnomah	13,886	1,268	3,064	3,775	3,350	1,985	390	37	17
Polk	1,042	128	291	307	216	84	16	—	—
Sherman	18	*	*	*	*	*	*	*	*
Tillamook	300	39	86	93	47	29	4	1	1
Umatilla	1,131	174	331	301	185	109	30	1	—
Union	346	30	113	122	49	27	4	1	—
Wallowa	67	*	*	*	*	*	*	*	*
Wasco	332	51	99	86	57	33	5	1	—
Washington	9,088	670	1,823	2,548	2,523	1,258	245	14	7
Wheeler	10	*	*	*	*	*	*	*	*
Yamhill	1,441	176	353	449	305	128	23	5	2
Unknown	22	1	7	5	8	—	1	—	—

— 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, 1975-2008

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
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

* 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, 2008

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 ⁵	49,117	33,271	1,034	663	2,161	333	135	1,145	10,366
Baker	193	171	—	4	1	—	1	4	11
Benton	734	559	8	7	45	2	2	19	92
Clackamas	4,208	3,236	29	31	178	11	15	78	629
Clatsop	452	354	1	6	7	—	1	13	70
Columbia	553	485	1	6	8	1	2	21	29
Coos	660	525	2	12	10	—	3	53	55
Crook	222	176	2	6	2	—	—	1	35
Curry	140	115	—	1	2	1	—	10	11
Deschutes	1,944	1,577	10	23	29	5	2	28	270
Douglas	1,147	1,006	1	11	18	1	3	31	75
Gilliam	16	13	—	—	—	—	—	—	3
Grant	62	56	—	2	1	—	—	—	3
Harney	75	67	—	4	—	—	—	—	4
Hood River	297	163	1	—	4	3	—	1	125
Jackson	2,444	1,846	12	33	38	10	5	43	457
Jefferson	377	155	—	86	1	—	—	9	126
Josephine	911	773	2	25	9	—	5	22	75
Klamath	846	610	—	37	10	—	1	37	151
Lake	75	57	—	2	—	—	—	3	13
Lane	3,784	2,869	39	60	105	7	23	134	546
Lincoln	471	336	1	29	4	—	5	18	78
Linn	1,468	1,202	6	22	18	4	2	23	191
Malheur	542	274	3	5	3	—	1	6	248
Marion	5,013	2,675	39	41	90	87	8	99	1,974
Morrow	159	75	—	3	2	—	—	1	78
Multnomah	10,289	6,397	716	84	727	113	29	261	1,962
Polk	951	682	6	14	17	2	3	22	205
Sherman	17	15	—	—	—	—	—	—	2
Tillamook	263	197	—	—	2	—	1	7	56
Umatilla	1,112	633	6	31	7	4	3	13	415
Union	330	300	—	6	3	6	3	1	10
Wallowa	67	61	—	3	—	—	—	3	—
Wasco	293	206	—	5	—	5	1	6	70
Washington ...	7,729	4,513	146	49	801	66	14	172	1,967
Wheeler	8	7	—	—	—	—	—	—	1
Yamhill	1,262	883	3	15	19	5	2	6	329

— Quantity is zero.

See footnotes at end of table.

TABLE 2-8. Ethnicity, Race and County of Residence of Mother, Oregon Resident Births, 2008 (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 ⁵	49,117	41,928	1,359	1,497	2,575	472	2,672	246	10,366
Baker	193	181	1	8	2	—	2	3	11
Benton	734	602	16	16	53	4	67	1	92
Clackamas	4,208	3,787	46	79	218	18	137	33	629
Clatsop	452	401	5	13	10	—	35	3	70
Columbia	553	530	3	23	11	2	4	1	29
Coos	660	612	8	65	17	6	23	2	55
Crook	222	191	2	7	2	—	20	1	35
Curry	140	132	1	10	3	1	3	—	11
Deschutes	1,944	1,796	16	42	41	11	70	8	270
Douglas	1,147	1,081	5	36	26	4	31	4	75
Gilliam	16	16	—	—	—	—	—	—	3
Grant	62	59	—	2	1	—	1	—	3
Harney	75	68	—	4	—	—	1	2	4
Hood River	297	287	1	1	4	3	2	—	125
Jackson	2,444	2,177	21	82	50	15	155	15	457
Jefferson	377	268	2	104	2	—	18	—	126
Josephine	911	846	6	42	17	5	16	5	75
Klamath	846	694	5	77	17	2	104	1	151
Lake	75	72	—	5	—	—	1	—	13
Lane	3,784	3,161	69	171	140	16	351	58	546
Lincoln	471	409	5	48	7	—	17	7	78
Linn	1,468	1,275	12	36	28	8	141	4	191
Malheur	542	515	7	9	4	—	12	3	248
Marion	5,013	3,970	67	111	116	104	806	12	1,974
Morrow	159	142	1	3	3	—	10	3	78
Multnomah	10,289	8,321	840	241	838	146	240	30	1,962
Polk	951	779	10	34	22	4	136	1	205
Sherman	17	17	—	—	—	—	—	—	2
Tillamook	263	252	—	5	7	1	3	3	56
Umatilla	1,112	952	10	44	13	6	95	16	415
Union	330	304	1	6	3	6	8	3	10
Wallowa	67	64	—	4	2	—	—	—	—
Wasco	293	282	—	11	1	5	—	1	70
Washington ...	7,729	6,483	194	137	894	98	140	21	1,967
Wheeler	8	8	—	—	—	—	—	—	1
Yamhill	1,262	1,192	5	21	23	7	23	4	329

— 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.
⁵ Total includes three births where the county of residence was unknown.

**TABLE 2-9. Births to Unmarried Mothers,
Oregon Residents, 2008**

County of Residence	Total Births	Number Unmarried	Percent Unmarried ¹
Total ²	49,117	17,686	36.1
Baker	193	71	36.8
Benton	734	171	§ 23.3
Clackamas	4,208	1,175	§ 28.0
Clatsop	452	205	§ 45.6
Columbia	553	200	36.2
Coos	660	286	§ 43.6
Crook	222	78	35.1
Curry	140	54	§ 51.9
Deschutes	1,944	648	§ 33.4
Douglas	1,147	485	§ 42.3
Gilliam	16	7	43.8
Grant	62	26	41.9
Harney	75	21	28.0
Hood River	297	101	34.0
Jackson	2,444	958	§ 39.4
Jefferson	377	189	§ 50.1
Josephine	911	393	§ 43.2
Klamath	846	367	§ 43.5
Lake	75	23	31.1
Lane	3,784	1,468	§ 38.8
Lincoln	471	245	§ 52.1
Linn	1,468	565	38.5
Malheur	542	247	§ 45.7
Marion	5,013	2,171	§ 43.3
Morrow	159	70	44.0
Multnomah	10,289	3,658	35.6
Polk	951	330	34.7
Sherman	17	5	29.4
Tillamook	263	101	38.4
Umatilla	1,112	516	§ 46.4
Union	330	116	35.3
Wallowa	67	21	31.3
Wasco	293	120	41.0
Washington	7,729	2,130	§ 27.6
Wheeler	8	2	25.0
Yamhill	1,262	463	36.7

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

² Total includes three births with unknown county of residence.

§ 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, 2008

County of Residence	Total	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	49,117	38	4,474	11,986	14,274	11,471	5,693	1,101	75	5
Baker	193	–	21	61	70	26	12	3	–	–
Benton	734	–	40	152	201	218	97	24	2	–
Clackamas	4,208	2	245	971	1,226	1,087	559	110	6	2
Clatsop	452	–	46	139	145	78	39	4	–	1
Columbia	553	–	69	130	151	136	53	12	2	–
Coos	660	–	91	234	179	111	35	9	1	–
Crook	222	1	15	73	66	50	11	6	–	–
Curry	140	–	20	46	39	25	7	3	–	–
Deschutes	1,944	1	163	485	556	466	223	42	7	1
Douglas	1,147	1	146	372	349	186	80	12	1	–
Gilliam	16	–	1	3	7	4	1	–	–	–
Grant	62	–	6	29	15	8	3	1	–	–
Harney	75	–	5	28	16	20	6	–	–	–
Hood River	297	–	27	73	80	64	39	14	–	–
Jackson	2,444	3	258	739	769	430	199	45	1	–
Jefferson	377	–	74	108	103	59	24	9	–	–
Josephine	911	–	91	298	275	165	72	10	–	–
Klamath	846	–	132	252	243	149	58	10	2	–
Lake	75	–	10	21	24	13	4	3	–	–
Lane	3,784	1	354	990	1,164	800	403	68	4	–
Lincoln	471	2	59	141	137	88	36	8	–	–
Linn	1,468	1	153	458	455	260	115	23	3	–
Malheur	542	–	88	169	162	76	45	2	–	–
Marion	5,013	6	582	1,383	1,499	1,029	406	105	3	–
Morrow	159	–	16	46	46	26	22	2	1	–
Multnomah	10,289	9	748	2,015	2,792	2,750	1,649	301	24	1
Polk	951	1	109	251	282	210	83	15	–	–
Sherman	17	–	2	4	6	4	1	–	–	–
Tillamook	263	–	33	78	84	38	25	4	1	–
Umatilla	1,112	3	166	327	297	184	105	29	1	–
Union	330	–	25	110	115	48	27	4	1	–
Wallowa	67	–	2	22	14	18	8	3	–	–
Wasco	293	1	40	90	76	54	29	3	–	–
Washington	7,729	6	480	1,397	2,224	2,306	1,107	199	10	–
Wheeler	8	–	1	1	4	1	1	–	–	–
Yamhill	1,262	–	156	290	403	282	109	17	5	–

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

TABLE 2-11. Unmarried Mothers by Age of Mother and County of Residence, Oregon Resident Births, 2008

County of Residence	Total	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Total	17,686	38	3,730	6,517	4,179	2,061	920	229	12
Baker	71	—	15	28	19	6	3	—	—
Benton	171	—	36	70	35	17	10	3	—
Clackamas	1,175	2	201	492	276	148	41	14	1
Clatsop	205	—	39	73	54	23	15	1	—
Columbia	200	—	49	71	40	28	10	2	—
Coos	286	—	73	137	45	21	6	4	—
Crook	78	1	12	37	17	8	1	2	—
Curry	54	—	16	20	12	4	1	1	—
Deschutes	648	1	140	271	136	64	27	9	—
Douglas	485	1	122	198	104	44	13	3	—
Gilliam	7	—	1	3	2	1	—	—	—
Grant	26	—	4	14	5	2	—	1	—
Harney	21	—	5	11	3	—	2	—	—
Hood River	101	—	24	35	27	6	6	3	—
Jackson	958	3	206	392	215	86	49	6	1
Jefferson	189	—	58	62	40	16	10	3	—
Josephine	393	—	76	166	98	35	15	3	—
Klamath	367	—	102	147	79	24	10	3	2
Lake	23	—	7	9	7	—	—	—	—
Lane	1,468	1	299	554	359	166	73	16	—
Lincoln	245	2	55	85	58	32	10	3	—
Linn	565	1	135	230	119	52	21	7	—
Malheur	247	—	64	93	60	16	14	—	—
Marion	2,171	6	488	775	500	268	100	33	1
Morrow	70	—	14	25	14	8	8	—	1
Multnomah	3,658	9	649	1,192	970	498	275	62	3
Polk	330	1	95	113	69	33	17	2	—
Sherman	5	—	2	1	1	1	—	—	—
Tillamook	101	—	25	42	19	8	4	2	1
Umatilla	516	3	145	175	100	61	26	6	—
Union	116	—	19	50	35	5	6	1	—
Wallowa	21	—	1	9	2	7	2	—	—
Wasco	120	1	34	48	21	12	3	1	—
Washington	2,130	6	388	733	525	313	128	35	2
Wheeler	2	—	1	—	1	—	—	—	—
Yamhill	463	—	130	156	112	48	14	3	—

— 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, 2008

Region & Selected Country of Mother's Birth	Total	Continent of Father's Birth					
		North & Central America	South America	Europe	Asia	Africa	Other & Unknown
Total	49,117	39,703	130	1,155	1,658	339	6,132
Carribean	54	41	1	2	1	—	9
Central America	6,804	6,020	10	2	5	3	764
El Salvador	111	91	—	1	—	—	19
Guatemala	213	184	—	—	—	—	29
Honduras	40	36	—	—	—	—	4
Mexico	6,389	5,666	7	—	5	3	708
East Africa	200	19	—	1	1	159	20
Ethiopia	71	6	—	—	1	54	10
Somalia	98	2	—	—	—	87	9
East Asia	562	247	2	8	284	1	20
China	213	39	—	4	161	—	9
Japan	141	101	1	2	30	1	6
South Korea	144	74	1	1	64	—	4
Taiwan	42	19	—	—	22	—	1
East Europe	814	145	2	599	31	5	32
Moldavia	61	3	—	55	3	—	—
Romania	128	31	—	88	1	1	7
Russia	185	33	—	128	10	1	13
Ukraine	360	40	1	290	16	2	11
Eurasia	92	11	—	26	48	1	6
Oceania	255	59	—	3	4	1	188
Australia & New Zealand	42	31	—	3	2	—	6
Micronesia	195	21	—	—	—	1	173
Middle East	159	42	—	14	89	10	4
North America	38,109	32,283	76	402	335	82	4,931
Canada	192	163	1	8	4	1	15
United States	37,917	32,120	75	394	331	81	4,916
North Africa	49	7	—	—	—	39	3
North Europe	136	96	—	26	8	2	4
United Kingdom	95	70	—	13	7	2	3
South America	147	99	36	—	5	—	7
Southeast Asia	913	309	—	8	539	1	56
Cambodia	51	18	—	1	28	—	4
Laos	67	15	—	—	46	—	6
Philippines	236	158	—	1	63	—	14
Thailand	82	44	—	—	31	—	7
Vietnam	419	53	—	5	339	1	21
South Asia	352	44	1	5	296	1	5
India	304	31	1	3	265	1	3
South Europe	77	41	1	28	3	2	2
West Europe	236	186	1	25	6	—	18
Germany	194	157	1	16	3	—	17
Other & Unknown Countries	158	54	—	6	3	32	63

— Quantity is zero.

TABLE 2-13. Race, Ethnicity, and Place of Birth of Mother by Selected Demographic Characteristics (Percent), Oregon Resident Births, 2008

Characteristic of Mother	Total	Single Mention Race						Hispanic ²
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ NS ¹	
Total	49,117	33,271	1,034	663	2,161	333	135	10,366
Ratio of Males to Females ³	1,050	1,064	1,023	1,046	1,086	800	901	1,013
All Births								
All Births	49,117	33,271	1,034	663	2,161	333	135	10,366
Age 10-19	9.2	7.4	13.8	18.6	1.6	5.4	3.8	14.9
4 or more Live Births	11.3	9.5	18.8	13.9	4.8	23.1	13.3	17.3
Unmarried Mothers	36.1	31.5	62.1	62.5	12.4	46.5	33.6	49.0
Less than 12 Years Education	21.2	11.3	25.5	25.6	8.3	25.8	21.1	55.3
Mothers Born in the United States								
Total Born in the U.S.	37,917	31,377	762	654	370	103	96	3,457
Age 10-19	9.8	7.6	18.2	18.7	7.3	9.7	4.2	24.1
4 or more Live Births	9.7	9.2	15.9	14.1	5.7	13.6	12.5	12.3
Unmarried Mothers	36.7	32.7	75.9	62.3	25.1	44.7	36.6	54.2
Less than 12 Years Education	13.7	11.2	22.4	25.5	7.0	12.7	8.9	30.8
Mothers Born Outside the United States								
Total Born Outside of the U.S.	11,200	1,894	272	9	1,791	230	39	6,909
Age 10-19	7.3	3.9	1.5	11.1	0.4	3.5	2.6	10.4
4 or more Live Births	16.8	15.0	26.8	-	4.6	27.4	15.4	19.8
Unmarried Mothers	34.1	12.0	23.6	77.8	9.8	47.4	26.3	46.4
Less than 12 Years Education	46.8	12.0	34.3	33.3	8.6	31.6	41.2	67.6

- Quantity is zero.

TABLE 2-13. Race, Ethnicity, and Place of Birth of Mother by Selected Demographic Characteristics (Percent), Oregon Resident Births, 2008 (Continued)

Characteristic of Mother	Total	Multiple Mention Race and Ethnicity						NS ¹	Hispanic ²
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other		
Total	49,117	41,928	1,359	1,497	2,575	472	2,672	246	10,366
Ratio of Males to Females ³	1,050	1,052	1,025	1,073	1,078	829	1,054	822	1,013
All Births									
All Births	49,117	41,928	1,359	1,497	2,575	472	2,672	246	10,366
Age 10-19	9.2	8.9	16.1	17.6	3.0	8.1	15.8	8.2	14.9
4 or more Live Births	11.3	10.8	17.4	11.9	5.2	21.8	17.6	17.5	17.3
Unmarried Mothers	36.1	35.2	63.9	60.1	16.8	48.9	48.6	43.2	49.0
Less than 12 Years Education	21.2	19.3	25.9	25.9	9.1	24.8	55.8	38.3	55.3
Mothers Born in the United States									
Total Born in the U.S.	37,917	34,977	1,073	1,438	721	224	826	140	3,457
Age 10-19	9.8	9.0	20.0	17.8	9.4	13.4	24.9	10.8	24.1
4 or more Live Births	9.7	9.4	14.9	12.0	6.0	17.0	12.5	10.7	12.3
Unmarried Mothers	36.7	34.8	74.4	60.3	33.0	50.0	54.9	46.7	54.2
Less than 12 Years Education	13.7	12.8	23.9	24.7	9.3	15.3	31.7	17.0	30.8
Mothers Born Outside the United States									
Total Born Outside of the U.S.	11,200	6,951	286	59	1,854	248	1,846	106	6,909
Age 10-19	7.3	8.3	1.4	11.9	0.5	3.2	11.8	4.8	10.4
4 or more Live Births	16.8	18.3	26.6	10.2	5.0	26.2	19.8	26.4	19.8
Unmarried Mothers	34.1	37.2	24.2	55.9	10.5	48.0	45.7	38.7	46.4
Less than 12 Years Education	46.8	52.0	33.7	54.2	9.0	33.3	66.6	59.6	67.6

- 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, 2008**

Characteristics	Total	Private Insurance	Self-Pay	Medicaid- /OHP*	Other	Unknown
Mother's Age and Marital Status						
Total	49,117	26,204	1,553	19,993	1,115	252
Married	31,342	21,774	928	7,847	647	146
Unmarried	17,686	4,395	616	12,138	435	102
Less Than 18	1,387	304	59	985	35	4
Married	113	16	5	86	5	1
Unmarried	1,273	288	54	898	30	3
18-24	15,111	4,615	473	9,518	429	76
Married	6,072	2,748	183	2,894	217	30
Unmarried	9,012	1,861	289	6,622	195	45
25-34	25,745	16,226	774	8,055	553	137
Married	19,461	14,442	540	4,032	352	95
Unmarried	6,240	1,761	228	4,022	187	42
35+	6,869	5,058	246	1,434	98	33
Married	5,693	4,567	199	834	73	20
Unmarried	1,161	485	45	596	23	12
First Trimester Care						
Total	34,143	21,422	736	11,218	622	145
Married	24,043	18,356	504	4,696	388	99
Unmarried	10,045	3,041	225	6,517	217	45
Percent	70.2	82.5	47.9	56.7	58.6	61.2
Married	77.4	85.0	55.1	60.4	61.7	72.8
Unmarried	57.5	69.8	36.8	54.2	53.8	45.9
Inadequate Prenatal Care						
Total	3,349	785	312	2,050	162	40
Married	1,393	500	120	670	91	12
Unmarried	1,944	281	192	1,378	67	26
Percent	7.0	3.1	20.4	10.4	15.4	17.0
Married	4.5	2.3	13.2	8.7	14.5	8.8
Unmarried	11.2	6.5	31.6	11.6	16.9	27.1
Tobacco Use						
Percent	11.8	5.3	12.7	20.4	9.6	15.7
Low Birthweight						
Percent	6.1	5.7	7.0	6.5	5.2	10.1

* 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, 2008**

County of Residence	Total Births	Tobacco Use							
		Number	%	Tobacco Use by Age of Mother					
				<20	20-24	25-29	30-34	35-39	40+
Total ¹	49,117	5,751	11.8	862	2,119	1,628	756	325	61
Baker	193	55	28.8	8	21	21	3	2	—
Benton	734	64	8.7	7	29	18	5	4	1
Clackamas	4,208	438	10.5	43	177	119	62	29	8
Clatsop	452	85	19.1	9	40	21	8	5	2
Columbia	553	111	20.3	18	37	34	17	3	2
Coos	660	141	21.5	31	66	23	15	5	1
Crook	222	52	23.6	8	22	14	5	—	3
Curry	140	25	24.0	9	5	8	1	1	1
Deschutes	1,944	216	11.2	29	94	54	28	9	2
Douglas	1,147	298	26.1	54	114	78	37	14	1
Gilliam	16	1	6.2	—	—	1	—	—	—
Grant	62	10	16.1	3	6	1	—	—	—
Harney	75	8	11.4	1	5	2	—	—	—
Hood River	297	20	6.8	4	6	6	2	2	—
Jackson	2,444	349	14.4	65	138	83	43	20	—
Jefferson	377	45	12.0	8	14	15	4	3	1
Josephine	911	193	21.4	32	82	46	25	8	—
Klamath	846	155	18.5	25	55	51	20	3	1
Lake	75	12	16.2	1	7	4	—	—	—
Lane	3,784	486	13.0	75	185	141	62	21	2
Lincoln	471	106	22.6	18	32	28	16	7	5
Linn	1,468	293	20.1	55	112	80	26	19	1
Malheur	542	43	8.0	3	17	17	5	1	—
Marion	5,013	567	11.4	80	193	158	94	37	5
Morrow	159	18	11.5	2	4	6	4	2	—
Multnomah	10,289	920	9.0	110	290	294	144	65	17
Polk	951	112	11.8	21	40	31	12	8	—
Sherman	17	2	11.8	—	—	—	2	—	—
Tillamook	263	48	18.4	9	22	11	6	—	—
Umatilla	1,112	154	13.9	31	58	40	14	10	1
Union	330	54	16.4	8	19	18	8	1	—
Wallowa	67	13	19.4	1	3	3	5	1	—
Wasco	293	58	19.9	14	16	18	6	4	—
Washington	7,729	413	5.5	47	140	128	58	34	6
Wheeler	8	*	*	*	*	*	*	*	*
Yamhill	1,262	184	14.7	33	70	54	19	7	1

— Quantity is zero.

* Detailed reporting of small numbers may breach confidentiality.

¹ Total includes three births where the county of residence was unknown.

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, 2008

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 ³	49,117	7.0	32.3	2.8	14.0	11.3	21.2	36.1	11.8
Baker	193	9.8	10.9	3.1	7.8	15.0	19.2	36.8	28.8
Benton	734	4.6	23.8	1.6	16.8	8.7	13.4	23.3	8.7
Clackamas	4,208	5.8	23.1	1.5	16.0	10.0	14.7	28.0	10.5
Clatsop	452	6.0	21.7	2.9	9.5	8.8	23.5	45.6	19.1
Columbia	553	5.7	12.3	4.0	12.1	12.8	14.9	36.2	20.3
Coos	660	9.8	20.5	2.4	6.8	10.5	20.1	43.6	21.5
Crook	222	1.8	20.7	1.8	7.7	14.0	18.0	35.1	23.6
Curry	140	11.9	17.9	2.1	7.1	10.0	19.0	51.9	24.0
Deschutes	1,944	2.8	18.9	2.7	14.0	8.5	14.6	33.4	11.2
Douglas	1,147	5.5	12.3	3.3	8.1	12.5	14.9	42.3	26.1
Gilliam	16	6.2	18.8	–	6.2	12.5	18.8	43.8	6.2
Grant	62	8.5	9.7	–	6.5	9.7	9.7	41.9	16.1
Harney	75	–	10.7	–	8.0	14.7	9.3	28.0	11.4
Hood River	297	2.0	45.1	2.4	17.8	7.4	33.3	34.0	6.8
Jackson	2,444	8.2	24.5	3.2	10.0	10.0	23.0	39.4	14.4
Jefferson	377	10.7	58.9	6.6	8.8	17.5	34.2	50.1	12.0
Josephine	911	8.0	15.1	2.2	9.0	9.9	16.5	43.2	21.4
Klamath	846	5.0	27.9	5.0	8.3	11.8	22.0	43.5	18.5
Lake	75	5.3	24.0	1.3	9.3	16.0	14.7	31.1	16.2
Lane	3,784	7.5	24.2	2.5	12.6	9.5	16.0	38.8	13.0
Lincoln	471	8.9	28.7	4.2	9.3	11.0	27.9	52.1	22.6
Linn	1,468	7.2	18.1	3.1	9.6	11.6	19.3	38.5	20.1
Malheur	542	17.0	49.4	7.4	8.7	19.6	36.1	45.6	8.0
Marion	5,013	9.0	46.6	3.9	10.3	16.0	33.6	43.3	11.4
Morrow	159	12.7	52.8	5.0	15.7	22.6	35.9	44.0	11.5
Multnomah	10,289	8.1	37.8	2.4	19.2	10.1	20.7	35.6	9.0
Polk	951	4.7	28.3	4.0	10.3	13.4	21.8	34.7	11.8
Sherman	17	–	11.8	11.8	5.9	5.9	17.6	29.4	11.8
Tillamook	263	3.8	25.1	2.7	11.4	6.5	21.1	38.4	18.4
Umatilla	1,112	13.2	43.1	5.8	12.1	18.1	36.1	46.4	13.9
Union	330	6.1	8.8	1.5	9.7	11.2	13.0	35.2	16.4
Wallowa	67	6.0	9.0	–	16.4	11.9	6.0	31.3	19.4
Wasco	293	3.8	29.7	3.4	10.9	12.6	30.4	41.0	19.9
Washington	7,729	4.7	41.6	2.0	17.0	10.5	18.4	27.6	5.5
Wheeler	8	*	12.5	–	12.5	12.5	12.5	25.0	*
Yamhill	1,262	4.3	30.0	3.6	10.4	12.0	26.6	36.7	14.7

– Quantity is zero.

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

² Includes nonwhite race and Hispanic ethnicity.

³ Total includes three births where the county of residence was unknown.

* 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, 2008**

Mother's Age	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	49,117	34,143	70.2	3,349	7.0
Less than 15	38	8	21.6	10	27.0
15-19	4,474	2,314	52.3	546	12.4
20-24	11,986	7,347	61.9	1,092	9.3
25-29	14,274	10,298	72.9	862	6.2
30-34	11,471	8,934	78.6	517	4.6
35-39	5,693	4,390	77.9	249	4.5
40-44	1,101	795	73.3	69	6.4
45+	75	56	75.7	3	4.1
Unknown	5	1	33.3	1	33.3

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 2-18. Prenatal Care by Mother's Race and Ethnicity, Oregon Residents, 2008

Mother's Race/Ethnicity	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	49,117	34,143	70.2	3,349	7.0
Non-Hispanic Single Mention Race					
Total Non-Hispanic	38,742	28,162	73.4	2,399	6.3
White	33,271	24,625	74.8	1,872	5.7
African American	1,034	601	58.9	121	11.9
American Indian	663	380	57.8	77	11.8
Asian	2,161	1,626	76.0	111	5.2
Hawaiian/Pacific Islander	333	96	29.0	106	32.3
Other/Unknown	135	73	57.5	13	10.3
Multiple Races	1,145	761	67.0	99	8.8
Hispanic Single Mention Race					
Total Hispanic	10,366	5,974	58.2	950	9.4
White	7,470	4,287	58.0	656	9.0
African American	46	29	63.0	6	13.0
American Indian	137	87	64.9	14	10.5
Asian	44	22	51.2	5	11.6
Hawaiian/Pacific Islander	22	11	50.0	6	28.6
Other/Unknown	2,516	1,462	58.6	244	9.9
Multiple Races	131	76	58.9	19	14.7
Multiple Mention Race and Ethnicity					
White	41,928	29,697	71.6	2,634	6.4
African American	1,359	789	58.7	162	12.1
American Indian	1,497	921	62.1	155	10.5
Asian	2,575	1,914	75.1	145	5.7
Hawaiian/Pacific Islander	472	181	38.7	125	26.9
Other	2,672	1,555	58.8	254	9.7
Unknown	246	150	62.5	26	11.1
Hispanic	10,366	5,974	58.2	950	9.4

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, 2008**

Mother's Education	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	49,117	34,143	70.2	3,349	7.0
8th Grade or Less	2,960	1,538	52.6	356	12.3
9th to 12th Grade, No Diploma	7,386	3,843	52.6	954	13.2
High School Graduate or GED	12,151	7,777	64.7	1,011	8.5
Some College, No Degree	11,028	7,908	72.4	635	5.9
Associates Degree	3,176	2,516	80.2	116	3.7
Bachelors Degree	7,928	6,728	85.6	175	2.3
Masters Degree	3,286	2,868	87.9	57	1.8
Doctorate or Professional Degree ..	916	799	88.2	13	1.5
Unknown	285	165	60.0	32	11.9

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, 2008**

County of Residence	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total ²	49,117	34,143	70.2	3,349	7.0
Baker	193	130	67.4	19	9.8
Benton	734	572	§ 78.9	33	§ 4.6
Clackamas	4,208	3,045	§ 75.2	227	§ 5.8
Clatsop	452	296	65.9	27	6.0
Columbia	553	417	77.2	30	5.7
Coos	660	477	72.5	64	§ 9.8
Crook	222	164	74.5	4	§ 1.8
Curry	140	88	64.2	16	11.9
Deschutes	1,944	1,537	§ 79.3	54	§ 2.8
Douglas	1,147	856	74.7	63	5.5
Gilliam	16	13	81.2	1	6.2
Grant	62	42	71.2	5	8.5
Harney	75	54	84.4	–	–
Hood River	297	236	80.0	6	§ 2.0
Jackson	2,444	1,653	67.9	199	§ 8.2
Jefferson	377	234	62.4	40	§ 10.7
Josephine	911	582	§ 64.1	73	8.0
Klamath	846	656	§ 77.5	42	§ 5.0
Lake	75	46	61.3	4	5.3
Lane	3,784	2,664	70.8	281	7.5
Lincoln	471	303	65.4	41	8.9
Linn	1,468	1,021	70.3	103	7.2
Malheur	542	239	§ 44.2	92	§ 17.0
Marion	5,013	2,983	§ 59.8	445	§ 9.0
Morrow	159	89	56.7	20	§ 12.7
Multnomah	10,289	6,969	§ 68.4	821	§ 8.1
Polk	951	658	69.4	44	§ 4.7
Sherman	17	13	81.2	–	–
Tillamook	263	177	67.6	10	3.8
Umatilla	1,112	632	§ 57.4	145	§ 13.2
Union	330	229	69.6	20	6.1
Wallowa	67	48	71.6	4	6.0
Wasco	293	234	§ 81.0	11	3.8
Washington	7,729	5,795	§ 75.7	351	§ 4.7
Wheeler	8	*	*	*	*
Yamhill	1,262	985	§ 78.4	53	§ 4.3

– Quantity is zero.

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

² Total includes three births with unknown county of residence.

§ Rate is significantly different from the state rate.

* 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 2-21. Prenatal Care by Resident County for Unmarried Mothers, Oregon Residents, 2008

County of Residence	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	17,686	10,045	57.5	1,944	11.2
Baker	71	36	50.7	14	19.7
Benton	171	111	65.7	12	7.1
Clackamas	1,175	688	61.3	112	10.2
Clatsop	205	122	59.8	16	7.8
Columbia	200	131	67.5	18	9.4
Coos	286	191	66.8	38	13.3
Crook	78	51	66.2	2	§ 2.7
Curry	54	25	47.2	12	§ 23.1
Deschutes	648	443	§ 68.5	31	§ 4.8
Douglas	485	318	§ 65.6	41	8.5
Gilliam	7	*	*	*	*
Grant	26	15	57.7	2	7.7
Harney	21	12	75.0	–	–
Hood River	101	72	71.3	4	§ 4.0
Jackson	958	557	58.4	111	11.7
Jefferson	189	103	55.1	28	15.1
Josephine	393	204	52.0	50	12.8
Klamath	367	255	§ 69.5	27	§ 7.4
Lake	23	11	47.8	3	13.0
Lane	1,468	898	§ 61.5	171	11.8
Lincoln	245	146	60.8	26	11.0
Linn	565	319	57.0	60	10.9
Malheur	247	85	§ 34.4	52	§ 21.1
Marion	2,171	1,070	§ 49.6	260	12.1
Morrow	70	28	40.6	18	§ 26.1
Multnomah	3,658	1,995	55.3	467	§ 13.0
Polk	330	193	58.7	23	§ 7.0
Sherman	5	*	*	*	*
Tillamook	101	58	58.0	7	7.1
Umatilla	516	235	§ 46.1	94	§ 18.5
Union	116	69	60.0	11	9.6
Wallowa	21	14	66.7	2	9.5
Wasco	120	91	§ 77.1	7	5.9
Washington	2,130	1,175	56.0	188	§ 9.2
Wheeler	2	*	*	*	*
Yamhill	463	314	§ 68.1	36	7.8

– Quantity is zero.

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, 2008**

Birthweight (in grams)	Total Births	First Trimester Care		Inadequate Care ¹	
		Number	Percent	Number	Percent
Total	49,117	34,143	70.2	3,349	7.0
Low Birthweight					
Total Low Birthweight ...	2,980	2,029	68.8	387	13.2
499 & Less	40	25	67.6	20	54.1
500-999	178	120	68.2	54	30.9
1000-1499	283	202	72.1	57	20.5
1500-1999	553	373	68.2	66	12.2
2000-2499	1,926	1,309	68.5	190	10.0
Birthweight Greater Than 2499 grams					
2500-2999	7,224	4,869	68.0	605	8.5
3000-3499	18,519	12,791	69.8	1,219	6.7
3500-3999	15,148	10,705	71.4	832	5.6
4000-4499	4,462	3,181	72.2	248	5.7
4500-4999	688	499	73.4	54	8.0
5000 & Over	88	65	74.7	2	2.3
Unknown	8	4	80.0	2	40.0

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, 2008

Medical Risk Factor of Mother	Total Births ²	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Total Births	49,117	38	4,474	11,986	14,274	11,471	5,693	1,101	75
Diabetes-Chronic	7.2	-	3.4	4.2	7.1	9.3	11.6	13.6	-
Diabetes-Gestational	49.6	26.3	16.5	27.5	43.2	69.0	88.5	101.7	66.7
Hypertension-Chronic	13.5	-	7.6	9.0	11.8	17.2	20.4	32.7	26.7
Hypertension-Gestational	46.7	26.3	51.6	44.1	43.2	47.8	50.4	61.8	160.0
Eclampsia	6.5	-	9.4	7.1	5.1	6.8	5.6	8.2	13.3
Previous Preterm Infant ³	25.7	-	9.8	21.2	28.3	27.6	36.0	31.8	66.7
Previous Poor Pregnancy Outcome ⁴	14.1	-	3.8	10.8	13.7	16.8	20.9	31.8	26.7
Vaginal Bleeding	13.1	26.3	10.7	11.9	13.6	12.8	15.5	17.3	26.7
Infertility Treatment	14.8	-	-	2.1	8.8	22.1	38.8	74.5	306.7
Previous Cesarean Delivery ...	107.8	-	20.6	74.2	110.1	133.0	171.1	195.3	333.3

- 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, 2008

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	49,117	38	4,474	11,986	14,274	11,471	5,693	1,101	75
First Trimester Care	70.2	21.6	52.3	61.9	72.9	78.6	77.9	73.3	75.7
Inadequate Care ²	7.0	27.0	12.4	9.3	6.2	4.6	4.5	6.4	4.1
No Prenatal Care	1.1	–	1.6	1.3	1.0	0.8	0.8	0.7	–
Out-Of-Hospital Birth ..	2.9	–	0.7	1.6	3.3	4.0	4.0	4.3	4.0
Primary Cesarean	19.5	21.1	18.4	17.7	18.2	20.4	23.5	27.8	34.7
Repeat Cesarean	9.4	–	1.8	6.7	9.7	11.4	14.8	16.3	29.3
Multiple Births	3.1	–	1.3	2.2	2.8	3.7	4.8	5.4	25.3
Tobacco Use	11.8	5.3	19.4	17.9	11.5	6.7	5.8	5.4	2.7
Overweight/Obese ³	47.3	–	36.7	47.9	49.5	47.5	48.1	50.7	42.7
All Births - Infant									
Preterm Births ⁴	7.9	10.5	8.1	7.5	7.3	7.7	9.3	11.9	28.0
Very Low Birthweight ⁵	1.0	2.6	1.4	1.0	0.8	1.0	1.3	1.6	4.0
Low Birthweight ⁶	6.1	5.3	7.4	6.0	5.5	5.6	6.9	9.1	22.7
Fetal Macrosomia ⁷	10.7	7.9	7.0	9.1	11.0	12.4	12.1	12.6	9.3
5 Minute Apgar < 7	3.0	7.9	3.8	3.4	2.7	2.6	2.6	4.8	1.3
Mothers Born in the U.S.									
Total Births	37,917	27	3,671	9,542	11,166	8,580	4,120	752	58
First Trimester Care	73.1	25.9	54.2	64.1	76.2	82.6	81.6	79.1	77.2
Inadequate Care ²	6.3	25.9	11.8	8.5	5.4	3.7	3.7	5.6	1.8
No Prenatal Care	1.0	–	1.3	1.3	1.1	0.7	0.8	1.0	–
Out-Of-Hospital Birth ..	3.4	–	0.7	1.9	3.9	4.9	4.9	5.9	5.2
Primary Cesarean	20.1	18.5	19.0	18.3	18.8	21.4	24.4	30.3	39.7
Repeat Cesarean	8.8	–	1.6	6.4	9.4	10.6	14.3	14.0	31.0
Multiple Births	3.3	–	1.4	2.3	3.0	4.3	5.3	5.9	32.8
Tobacco Use	14.9	7.4	23.4	22.0	14.4	8.6	7.4	7.0	3.4
Overweight/Obese ³	47.8	–	37.7	49.6	50.4	46.9	47.7	47.9	41.4
Infants of Mothers Born in the U.S.									
Preterm Births ⁴	8.1	7.4	8.2	7.9	7.4	7.9	9.6	11.7	32.8
Very Low Birthweight ⁵	1.0	–	1.4	1.0	0.7	0.9	1.5	1.5	5.2
Low Birthweight ⁶	6.2	3.7	7.4	6.2	5.5	5.7	7.0	8.8	27.6
Fetal Macrosomia ⁷	11.0	7.4	6.9	9.4	11.5	12.9	12.4	13.2	6.9
5 Minute Apgar < 7	3.3	3.7	3.9	3.8	3.0	2.9	2.8	5.2	1.7

– 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, 2008 (Continued)

Characteristic	Total Births ¹	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	11,200	11	803	2,444	3,108	2,891	1,573	349	17
First Trimester Care	60.6	10.0	43.7	53.3	61.1	66.7	68.2	60.9	70.6
Inadequate Care ²	9.3	30.0	15.4	12.2	8.7	7.3	6.4	8.2	12.5
No Prenatal Care	1.1	—	2.9	1.3	1.0	1.1	0.7	0.3	—
Out-Of-Hospital Birth ..	1.1	—	0.4	0.7	1.1	1.2	1.9	0.9	—
Primary Cesarean	17.2	27.3	15.3	15.2	16.3	17.6	21.2	22.3	17.6
Repeat Cesarean	11.4	—	2.6	7.5	10.7	13.9	16.1	21.5	23.5
Multiple Births	2.2	—	0.7	2.0	2.1	1.9	3.7	4.6	—
Tobacco Use	1.4	—	1.4	1.7	1.3	1.1	1.5	2.0	—
Overweight/Obese ³	45.8	—	32.1	41.5	46.2	49.4	49.2	56.9	47.1
Infants of Mothers Born Outside the U.S.									
Preterm Births ⁴	7.3	18.2	7.9	6.2	6.7	7.3	8.8	12.3	11.8
Very Low Birthweight ⁵	1.1	9.1	1.5	1.1	0.9	1.0	1.0	2.0	—
Low Birthweight ⁶	5.7	9.1	7.1	4.8	5.5	5.3	6.7	9.7	5.9
Fetal Macrosomia ⁷	9.6	9.1	7.7	7.9	9.3	10.8	11.3	11.5	17.6
5 Minute Apgar < 7	2.0	18.2	3.2	2.0	1.6	1.8	2.1	4.0	—

— Quantity is zero.

¹ Total includes 5 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, 2008

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	49,117	33,271	1,034	663	2,161	333	135	1,145	10,366
First Trimester Care	70.2	74.8	58.9	57.8	76.0	29.0	57.5	67.0	58.2
Inadequate Care ²	7.0	5.7	11.9	11.8	5.2	32.3	10.3	8.8	9.4
No Prenatal Care	1.1	0.9	2.4	1.5	0.6	5.2	7.1	1.7	1.2
Out-Of-Hospital Birth ..	2.9	3.8	0.8	1.4	0.8	0.6	11.1	1.7	0.9
Primary Cesarean	19.5	20.0	23.9	18.9	23.0	18.3	15.6	21.0	16.6
Repeat Cesarean	9.4	8.7	12.4	9.0	11.0	13.5	3.7	8.4	10.9
Multiple Births	3.1	3.4	4.4	3.6	2.6	3.6	2.2	3.1	2.1
Tobacco Use	11.8	14.6	13.8	21.5	2.4	4.8	12.2	20.1	3.4
Overweight/Obese ³	47.3	45.7	55.6	57.4	20.5	66.1	36.8	50.2	55.9
All Births - Infant									
Preterm Births ⁴	7.9	7.7	11.7	10.1	7.5	10.2	4.5	10.2	7.7
Very Low Birthweight ⁵	1.0	1.0	2.3	1.5	0.8	1.2	0.7	1.2	1.1
Low Birthweight ⁶	6.1	5.8	10.8	7.4	7.3	6.9	4.4	9.6	5.8
Fetal Macrosomia ⁷	10.7	11.5	5.8	9.2	5.2	10.8	10.4	8.9	10.1
5 Minute Apgar < 7	3.0	3.2	4.1	4.7	1.5	3.3	3.0	3.9	2.2
Mothers Born in the U.S.									
Total Births	37,917	31,377	762	654	370	103	96	1,089	3,457
First Trimester Care	73.1	75.3	59.4	58.3	75.1	52.4	57.1	67.0	61.4
Inadequate Care ²	6.3	5.6	11.0	12.0	4.7	14.7	11.1	8.6	9.6
No Prenatal Care	1.0	0.9	2.7	1.6	0.8	2.9	7.8	1.8	1.1
Out-Of-Hospital Birth ..	3.4	3.8	0.7	1.4	2.4	1.0	14.6	1.7	1.6
Primary Cesarean	20.1	20.2	23.4	19.0	22.2	13.6	15.6	20.9	18.7
Repeat Cesarean	8.8	8.8	11.5	9.0	8.6	6.8	1.0	8.2	8.6
Multiple Births	3.3	3.4	3.7	3.7	2.7	1.9	3.1	3.0	2.9
Tobacco Use	14.9	15.2	18.6	21.8	6.9	11.7	16.3	20.4	9.4
Overweight/Obese ³	47.8	46.4	61.7	57.1	33.5	65.3	34.2	50.5	55.9
Infants of Mothers Born in the U.S.									
Preterm Births ⁴	8.1	7.8	11.9	10.1	9.8	5.8	6.3	10.4	8.5
Very Low Birthweight ⁵	1.0	1.0	2.5	1.5	0.3	—	1.0	1.2	1.1
Low Birthweight ⁶	6.2	5.8	11.8	7.5	8.6	1.9	5.2	9.6	6.6
Fetal Macrosomia ⁷	11.0	11.4	5.4	9.2	5.7	6.8	9.4	9.1	10.3
5 Minute Apgar < 7	3.3	3.3	4.2	4.8	1.4	2.9	3.2	4.1	2.5

— 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, 2008 (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	11,200	1,894	272	9	1,791	230	39	56	6,909
First Trimester Care	60.6	65.8	57.2	22.2	76.2	18.4	58.3	66.1	56.7
Inadequate Care ²	9.3	8.6	14.6	—	5.3	40.3	8.3	13.0	9.2
No Prenatal Care	1.1	0.8	1.5	—	0.5	6.2	5.6	—	1.2
Out-Of-Hospital Birth ..	1.1	3.5	1.1	—	0.5	0.4	2.6	3.6	0.6
Primary Cesarean	17.2	15.8	25.4	11.1	23.1	20.4	15.4	23.2	15.6
Repeat Cesarean	11.4	7.6	14.7	11.1	11.5	16.5	10.3	12.5	12.1
Multiple Births	2.2	3.0	6.6	—	2.6	4.3	—	3.6	1.7
Tobacco Use	1.4	4.3	0.4	—	1.5	1.8	2.7	14.3	0.5
Overweight/Obese ³	45.8	34.0	38.2	77.8	17.8	66.4	42.9	44.6	55.9
Infants of Mothers Born Outside the U.S.									
Preterm Births ⁴	7.3	6.6	11.0	11.1	7.0	12.2	—	7.1	7.3
Very Low Birthweight ⁵	1.1	1.0	1.8	—	0.9	1.7	—	1.8	1.1
Low Birthweight ⁶	5.7	4.9	8.1	—	7.0	9.1	2.6	10.7	5.4
Fetal Macrosomia ⁷	9.6	12.8	7.0	11.1	5.1	12.6	12.8	5.4	9.9
5 Minute Apgar < 7	2.0	2.1	3.7	—	1.5	3.5	2.6	1.8	2.0

- 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, 2008**

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	49,117	41,928	1,359	1,497	2,575	472	2,672	246	10,366
First Trimester Care	70.2	71.6	58.7	62.1	75.1	38.7	58.8	62.5	58.2
Inadequate Care ²	7.0	6.4	12.1	10.5	5.7	26.9	9.7	11.1	9.4
No Prenatal Care	1.1	1.0	2.5	1.4	0.6	4.1	1.1	3.8	1.2
Out-Of-Hospital Birth ..	2.9	3.2	1.0	1.3	1.2	0.6	1.6	6.5	0.9
Primary Cesarean	19.5	19.3	23.1	21.0	22.8	18.4	18.4	15.4	16.6
Repeat Cesarean	9.4	9.1	11.9	8.1	10.6	12.7	10.2	10.6	10.9
Multiple Births	3.1	3.1	4.0	3.1	2.8	3.4	2.3	1.2	2.1
Tobacco Use	11.8	12.7	15.0	21.7	4.0	6.6	3.4	6.4	3.4
Overweight/Obese ³	47.3	47.7	54.9	55.8	24.1	61.7	54.8	56.4	55.9
All Births - Infant									
Preterm Births ⁴	7.9	7.7	11.8	10.2	7.8	10.8	8.5	7.3	7.7
Very Low Birthweight ⁵	1.0	1.0	2.3	1.2	1.0	1.3	1.2	0.8	1.1
Low Birthweight ⁶	6.1	5.9	11.1	7.7	7.6	7.2	6.4	3.7	5.8
Fetal Macrosomia ⁷	10.7	11.1	5.8	10.0	5.9	10.2	10.0	10.6	10.1
5 Minute Apgar < 7	3.0	3.0	3.8	4.5	1.9	3.2	2.5	3.7	2.2
Mothers Born in the U.S.									
Total Births	37,917	34,977	1,073	1,438	721	224	826	140	3,457
First Trimester Care	73.1	74.0	59.1	62.3	73.2	59.5	62.0	64.7	61.4
Inadequate Care ²	6.3	5.9	11.6	10.9	6.4	12.7	9.8	11.9	9.6
No Prenatal Care	1.0	1.0	2.7	1.5	0.7	1.8	1.3	4.4	1.1
Out-Of-Hospital Birth ..	3.4	3.6	0.8	1.3	2.6	0.9	3.0	10.0	1.6
Primary Cesarean	20.1	20.1	22.5	20.9	22.3	17.0	20.0	15.7	18.7
Repeat Cesarean	8.8	8.8	11.3	7.7	7.8	8.5	6.3	5.0	8.6
Multiple Births	3.3	3.3	3.4	3.1	3.2	2.7	3.4	2.1	2.9
Tobacco Use	14.9	15.0	18.8	22.4	9.6	11.7	9.5	10.9	9.4
Overweight/Obese ³	47.8	47.2	59.6	55.9	38.7	57.5	54.8	48.3	55.9
Infants of Mothers Born in the U.S.									
Preterm Births ⁴	8.1	7.9	12.0	10.1	10.0	9.8	8.4	6.5	8.5
Very Low Birthweight ⁵	1.0	1.0	2.3	1.1	1.0	0.9	1.0	0.7	1.1
Low Birthweight ⁶	6.2	6.0	11.6	7.6	9.2	5.4	6.9	4.3	6.6
Fetal Macrosomia ⁷	11.0	11.2	5.4	10.0	7.6	8.5	9.2	8.6	10.3
5 Minute Apgar < 7	3.3	3.2	3.9	4.5	2.9	2.7	2.7	5.8	2.5

See footnotes at end of table.

TABLE 2-25. Selected Medical or Health Characteristics by Mother's Race (Percents), Oregon Resident Births, 2008 (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	11,200	6,951	286	59	1,854	248	1,846	106	6,909
First Trimester Care	60.6	59.0	57.6	56.9	75.8	19.9	57.3	59.6	56.7
Inadequate Care ²	9.3	9.0	14.2	1.7	5.5	39.8	9.6	10.1	9.2
No Prenatal Care	1.1	1.1	1.4	—	0.5	6.1	0.9	3.0	1.2
Out-Of-Hospital Birth ..	1.1	1.3	1.4	1.7	0.6	0.4	1.0	1.9	0.6
Primary Cesarean	17.2	15.2	25.5	23.7	23.0	19.8	17.7	15.1	15.6
Repeat Cesarean	11.4	10.7	14.3	16.9	11.7	16.5	11.9	17.9	12.1
Multiple Births	2.2	2.0	6.3	3.4	2.6	4.0	1.8	—	1.7
Tobacco Use	1.4	1.6	0.7	5.1	1.9	2.0	0.7	1.0	0.5
Overweight/Obese ³	45.8	49.9	37.3	55.2	18.4	65.6	54.8	65.7	55.9
Infants of Mothers Born Outside the U.S.									
Preterm Births ⁴	7.3	6.8	11.2	13.6	6.9	11.7	8.5	8.5	7.3
Very Low Birthweight ⁵	1.1	1.0	2.1	3.4	1.0	1.6	1.2	0.9	1.1
Low Birthweight ⁶	5.7	5.1	9.1	10.2	7.0	8.9	6.1	2.8	5.4
Fetal Macrosomia ⁷	9.6	10.6	7.4	8.5	5.2	11.7	10.4	13.2	9.9
5 Minute Apgar < 7	2.0	1.9	3.5	3.4	1.5	3.6	2.4	0.9	2.0

— 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, 2008

Medical Risk Factor of Mother	Total Births ¹	Non-Hispanic Single Mentioned Race							Hispanic ²
		White	African American	American Indian	Asian	Hawaiian/Pacific Islander	Other/NS	Multiple Races	
Total Births	49,117	33,271	1,034	663	2,161	333	135	1,145	10,366
Diabetes-Chronic	354	204	15	5	14	4	-	12	100
Diabetes-Gestational	2,435	1,337	49	33	211	26	3	52	724
Hypertension-Chronic	661	462	25	13	24	11	-	20	105
Hypertension-Gestational	2,293	1,618	59	35	63	20	3	75	420
Eclampsia	320	197	10	1	8	7	-	12	85
Previous Preterm Infant ³	1,264	817	35	26	46	19	2	36	283
Previous Poor Pregnancy Outcome ⁴	693	442	18	12	17	7	1	16	180
Vaginal Bleeding	642	432	11	8	31	5	2	11	142
Infertility Treatment	330	272	2	1	23	-	-	8	24
Previous Cesarean Delivery ...	5,295	3,292	150	68	266	52	6	108	1,353

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

**TABLE 2-26. Mothers with Selected Medical Risk Factors by Race of Mother, Oregon Residents, 2008
(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
Total Births	49,117	41,928	1,359	1,497	2,575	472	2,672	246	10,366
Diabetes-Chronic	354	297	19	12	19	6	17	1	100
Diabetes-Gestational	2,435	1,880	63	72	239	31	215	12	724
Hypertension-Chronic	661	565	28	26	32	13	20	1	105
Hypertension-Gestational	2,293	1,980	75	93	87	30	121	7	420
Eclampsia	320	264	11	12	12	7	29	1	85
Previous Preterm Infant ³	1,264	1,033	45	51	59	24	97	7	283
Previous Poor Pregnancy Outcome ⁴	693	577	20	26	21	11	59	2	180
Vaginal Bleeding	642	515	13	20	34	7	70	2	142
Infertility Treatment	330	301	2	4	30	-	4	-	24
Previous Cesarean Delivery ...	5,295	4,410	191	139	305	67	297	27	1,353

- 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, 2008**

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	49,492	48,061	38,359	1,710	7,820	158	14
Baker	147	140	140	—	—	—	—
Benton	1,099	1,058	668	—	389	1	—
Clackamas	4,835	4,743	3,075	96	1,566	5	1
Clatsop	522	512	448	2	57	4	1
Columbia	11	—	—	—	—	—	—
Coos	719	699	391	135	169	4	—
Crook	140	136	136	—	—	—	—
Curry	40	38	8	9	21	—	—
Deschutes	2,198	2,116	1,887	115	114	—	—
Douglas	981	973	710	—	263	—	—
Gilliam	—	—	—	—	—	—	—
Grant	53	50	50	—	—	—	—
Harney	65	63	63	—	—	—	—
Hood River	390	377	351	5	19	2	—
Jackson	2,602	2,558	2,031	314	211	2	—
Jefferson	255	248	247	—	—	1	—
Josephine	862	842	809	1	30	2	—
Klamath	889	889	753	7	129	—	—
Lake	60	60	35	25	—	—	—
Lane	4,084	3,847	3,421	—	411	12	3
Lincoln	404	363	239	92	32	—	—
Linn	981	953	918	34	—	1	—
Malheur	694	688	205	253	227	3	—
Marion	5,666	5,600	4,750	—	811	34	5
Morrow	3	—	—	—	—	—	—
Multnomah	11,027	10,652	8,243	507	1,857	43	2
Polk	14	—	—	—	—	—	—
Sherman	1	—	—	—	—	—	—
Tillamook	164	160	160	—	—	—	—
Umatilla	866	858	844	—	—	13	1
Union	316	300	300	—	—	—	—
Wallowa	61	60	60	—	—	—	—
Wasco	327	321	211	102	2	6	—
Washington	7,689	7,493	6,318	13	1,138	23	1
Wheeler	1	—	—	—	—	—	—
Yamhill	1,326	1,264	888	—	374	2	—

— 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, 2008 (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	1,431	6	184	170	766	191	15	99
Baker	7	-	-	-	7	-	-	-
Benton	41	-	-	1	33	3	1	3
Clackamas	92	-	9	16	27	16	-	24
Clatsop	10	-	-	-	4	4	-	2
Columbia	11	-	-	1	2	6	1	1
Coos	20	-	-	-	1	17	-	2
Crook	4	-	-	-	-	4	-	-
Curry	2	-	-	-	-	-	-	2
Deschutes	82	-	-	-	59	20	-	3
Douglas	8	1	-	-	3	2	-	2
Gilliam	-	-	-	-	-	-	-	-
Grant	3	-	-	-	3	-	-	-
Harney	2	-	-	-	1	-	-	1
Hood River	13	-	-	2	7	4	-	-
Jackson	44	-	4	-	30	6	-	4
Jefferson	7	-	-	-	-	5	1	1
Josephine	20	-	-	-	14	2	1	3
Klamath	-	-	-	-	-	-	-	-
Lake	-	-	-	-	-	-	-	-
Lane	237	-	108	-	84	38	3	4
Lincoln	41	-	-	-	40	-	-	1
Linn	28	1	-	-	20	4	-	3
Malheur	6	-	-	-	2	3	1	-
Marion	66	-	7	5	32	11	3	8
Morrow	3	-	-	-	1	2	-	-
Multnomah	375	1	30	125	175	27	4	13
Polk	14	-	2	-	10	2	-	-
Sherman	1	-	-	-	1	-	-	-
Tillamook	4	-	-	-	4	-	-	-
Umatilla	8	-	-	-	3	2	-	3
Union	16	-	-	-	14	1	-	1
Wallowa	1	-	-	-	1	-	-	-
Wasco	6	1	-	-	4	-	-	1
Washington	196	2	2	17	150	10	-	15
Wheeler	1	-	-	-	1	-	-	-
Yamhill	62	-	22	3	33	2	-	2

- 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, 2008**

Characteristics	Total Births	Vaginal	Vaginal after Previous C-section	Primary C-section	Repeat C-section
Day of Birth					
All Births	49,117	34,241	683	9,564	4,612
Sunday	5,079	77.7	1.5	16.5	4.3
Monday	7,380	67.1	1.2	20.9	10.8
Tuesday	7,776	67.3	1.4	20.0	11.1
Wednesday	7,691	68.2	1.4	20.0	10.3
Thursday	7,619	68.5	1.4	19.6	10.5
Friday	7,822	66.9	1.4	20.3	11.4
Saturday	5,750	76.7	1.4	17.4	4.4
Mother's Age					
<15	38	78.9	—	21.1	—
15-19	4,474	79.5	0.3	18.4	1.8
20-24	11,986	74.9	0.8	17.7	6.7
25-29	14,274	70.7	1.4	18.2	9.7
30-34	11,471	66.2	1.9	20.4	11.4
35-39	5,693	59.3	2.3	23.5	14.8
40-44	1,101	52.6	3.2	27.8	16.3
45+	75	32.0	4.0	34.7	29.3
N.S.	5	40.0	—	—	40.0
Single Mention Race/Ethnicity					
White	33,271	70.1	1.2	20.0	8.7
African American	1,034	61.6	2.1	23.9	12.4
American Indian	663	70.9	1.2	18.9	9.0
Asian	2,161	64.7	1.3	23.0	11.0
Hawaiian/Pacific Islander	333	66.1	2.1	18.3	13.5
Other/Unknown	135	80.0	0.7	15.6	3.7
Multiple Races	1,145	69.5	1.0	21.0	8.4
Hispanic	10,366	70.3	2.1	16.6	10.9
Payment Source					
Medicaid/OHP*	19,993	71.1	1.3	17.8	9.8
Private Insurance	26,204	68.1	1.3	21.3	9.3
Self-Pay	1,553	79.8	3.0	12.0	5.2
Other Coverage	1,115	69.6	3.5	16.1	10.8
Unknown Mention	252	64.7	2.4	18.3	11.1
Body Mass Index in kg/m²					
Underweight (< 18.5)	1,632	77.5	0.9	16.0	5.6
Normal (18.5 - 24.9)	23,676	74.5	1.3	17.1	7.2
Overweight (25.0 - 29.9)	11,918	68.9	1.6	19.5	9.9
Obese (> 30.0)	10,830	58.6	1.3	25.7	14.3
Unknown	1,061	73.9	3.1	13.9	8.1

— Quantity is zero.

* Oregon Health Plan.

TABLE 2-29. Age of Mother by Birthweight, Oregon Resident Births, 2008

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	49,117	38	4,474	11,986	14,274	11,471	5,693	1,101	75	5
Low Birthweight										
Total Low Birthweight ...	2,980	2	330	714	780	643	394	100	17	-
499 & Less	40	-	5	8	10	9	7	1	-	-
500-999	178	1	23	42	38	41	25	6	2	-
1000-1499	283	-	34	72	62	59	44	11	1	-
1500-1999	553	-	69	129	131	121	80	18	5	-
2000-2499	1,926	1	199	463	539	413	238	64	9	-
Birthweight Greater Than 2499 grams										
2500-2999	7,224	11	803	1,910	2,014	1,522	783	167	12	2
3000-3499	18,519	15	1,782	4,763	5,366	4,209	2,010	356	17	1
3500-3999	15,148	7	1,244	3,503	4,538	3,677	1,817	339	22	1
4000-4499	4,462	3	285	938	1,340	1,197	574	118	7	-
4500-4999	688	-	26	139	204	194	106	19	-	-
5000 & Over	88	-	3	16	32	26	9	2	-	-
Unknown	8	-	1	3	-	3	-	-	-	1
Column Percent										
1499 & less	1.0	2.6	1.4	1.0	0.8	1.0	1.3	1.6	4.0	-
1500-2499	5.0	2.6	6.0	4.9	4.7	4.7	5.6	7.4	18.7	-
2500-4499	92.4	94.7	92.0	92.7	92.9	92.5	91.1	89.0	77.3	100.0
4500 & over	1.6	-	0.6	1.3	1.6	1.9	2.0	1.8	-	-

- Quantity is zero.

N.S. = Not Stated.

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, 2008

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	17,686	38	3,730	6,517	4,179	2,061	920	229	12	–
Low Birthweight										
Total Low Birthweight ...	1,221	2	287	421	260	152	76	21	2	–
499 & Less	16	–	5	5	4	2	–	–	–	–
500-999	78	1	18	25	16	10	6	2	–	–
1000-1499	118	–	29	38	22	19	8	2	–	–
1500-1999	237	–	65	73	45	30	20	4	–	–
2000-2499	772	1	170	280	173	91	42	13	2	–
Birthweight Greater Than 2499 grams										
2500-2999	2,975	11	675	1,120	641	330	154	42	2	–
3000-3499	6,927	15	1,487	2,579	1,626	796	340	83	1	–
3500-3999	5,026	7	1,014	1,869	1,251	568	255	56	6	–
4000-4499	1,307	3	241	446	342	177	77	20	1	–
4500-4999	200	–	22	71	49	34	17	7	–	–
5000 & Over	26	–	3	8	10	4	1	–	–	–
Unknown	4	–	1	3	–	–	–	–	–	–
Column Percent										
1499 & less	1.2	2.6	1.4	1.0	1.0	1.5	1.5	1.7	–	–
1500-2499	5.7	2.6	6.3	5.4	5.2	5.9	6.7	7.4	16.7	–
2500-4499	91.8	94.7	91.6	92.3	92.4	90.8	89.8	87.8	83.3	–
4500 & over	1.3	–	0.7	1.2	1.4	1.8	2.0	3.1	–	–

– Quantity is zero.

N.S. = Not Stated.

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, 2008

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	49,117	40	178	283	553	1,926	7,224	18,519	15,148	4,462	688	88	8
Non-Hispanic Single Mention Race													
Total Non-Hispanic	38,742	33	130	227	432	1,557	5,606	14,444	12,113	3,573	556	65	6
White	33,271	28	109	182	361	1,242	4,588	12,312	10,635	3,250	498	61	5
African American	1,034	2	7	15	16	72	216	393	252	54	6	-	1
American Indian	663	-	4	6	8	31	105	251	197	56	5	-	-
Asian	2,161	1	3	14	20	119	461	878	553	88	21	3	-
Hawaiian/Pacific Islander	333	1	2	1	3	16	56	130	88	24	12	-	-
Other/Unknown	135	1	-	-	2	3	20	51	44	12	2	-	-
Multiple Races	1,145	-	5	9	22	74	160	429	344	89	12	1	-
Hispanic Single Mention Race													
Total Hispanic	10,366	7	48	56	121	368	1,616	4,073	3,031	889	132	23	2
White	7,470	5	35	33	85	260	1,146	2,929	2,225	636	101	13	2
African American	46	-	1	1	1	3	12	12	12	4	-	-	-
American Indian	137	-	-	4	1	3	27	48	36	14	1	3	-
Asian	44	-	-	-	-	2	8	16	12	5	1	-	-
Hawaiian/Pacific Islander	22	-	-	-	-	1	6	12	3	-	-	-	-
Other/Unknown	2,516	2	12	15	31	94	396	998	715	218	28	7	-
Multiple Races	131	-	-	3	3	5	21	58	28	12	1	-	-
Multiple Mention Race and Ethnicity													
White	41,928	33	149	227	468	1,576	5,993	15,696	13,214	3,978	612	75	7
African American	1,359	2	9	20	21	99	282	519	327	72	7	-	1
American Indian	1,497	-	6	12	22	76	232	563	437	130	15	4	-
Asian	2,575	1	5	20	30	139	516	1,038	675	124	24	3	-
Hawaiian/Pacific Islander	472	1	3	2	6	22	84	180	126	35	13	-	-
Other	2,672	2	14	15	34	105	412	1,039	783	226	34	8	-
Unknown	246	1	-	1	2	5	47	101	63	22	3	1	-
Hispanic	10,366	7	48	56	121	368	1,616	4,073	3,031	889	132	23	2

- Quantity is zero.

TABLE 2-32. Low Birthweight Infants by County of Residence, Oregon, 2008

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 ²	49,117	2,980	501	2,479	60.7	10.2	50.5
Baker	193	20	6	14	§ 103.6	§ 31.1	72.5
Benton	734	35	6	29	47.7	8.2	39.5
Clackamas	4,208	249	39	210	59.2	9.3	49.9
Clatsop	452	23	4	19	51.0	8.9	42.1
Columbia	553	42	5	37	75.9	9.0	66.9
Coos	660	51	7	44	77.3	10.6	66.7
Crook	222	10	—	10	45.0	—	45.0
Curry	140	8	3	5	57.1	21.4	35.7
Deschutes	1,944	124	17	107	63.8	8.7	55.0
Douglas	1,147	67	12	55	58.4	10.5	48.0
Gilliam	16	1	—	1	62.5	—	62.5
Grant	62	4	—	4	64.5	—	64.5
Harney	75	2	—	2	26.7	—	26.7
Hood River	297	20	2	18	67.3	6.7	60.6
Jackson	2,444	128	22	106	52.4	9.0	43.4
Jefferson	377	26	7	19	69.0	18.6	50.4
Josephine	911	52	12	40	57.1	13.2	43.9
Klamath	846	73	11	62	§ 86.3	13.0	§ 73.3
Lake	75	5	—	5	66.7	—	66.7
Lane	3,784	220	36	184	58.2	9.5	48.6
Lincoln	471	20	5	15	42.5	10.6	31.8
Linn	1,468	107	22	85	72.9	15.0	57.9
Malheur	542	23	—	23	42.4	—	42.4
Marion	5,013	283	42	241	56.5	8.4	48.1
Morrow	159	6	—	6	37.7	—	37.7
Multnomah	10,289	699	125	574	§ 67.9	12.2	§ 55.8
Polk	951	49	10	39	51.5	10.5	41.0
Sherman	17	2	—	2	117.6	—	117.6
Tillamook	263	16	3	13	60.8	11.4	49.4
Umatilla	1,112	74	8	66	66.5	7.2	59.4
Union	330	23	2	21	69.7	6.1	63.6
Wallowa	67	9	2	7	134.3	29.9	104.5
Wasco	293	15	4	11	51.2	13.7	37.5
Washington	7,729	431	72	359	55.8	9.3	46.5
Wheeler	8	*	*	*	*	*	*
Yamhill	1,262	63	17	46	49.9	13.5	36.5

— Quantity is zero.

¹ All rates are per 1,000 births.

² Total includes three births with unknown county of residence.

§ 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, 2008

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	49,117	682	2,842	8,508	13,056	12,089	10,642	1,298
White	33,271	463	1,713	5,156	8,651	8,592	7,855	841
African American	1,034	29	83	207	234	229	218	34
American Indian	663	11	45	118	143	153	177	16
Asian	2,161	6	81	432	718	553	315	56
Hawaiian/Pacific Islander	333	6	28	62	60	70	97	10
Other/Unknown	135	1	8	20	19	29	38	20
Multiple Races	1,145	18	61	182	262	270	321	31
Hispanic	10,366	148	823	2,330	2,967	2,193	1,618	287
Under 37 Weeks								
Total Births	3,878	71	348	870	1,027	745	715	102
White	2,570	42	196	529	679	524	534	66
African American	121	7	8	33	28	23	17	5
American Indian	67	1	8	17	13	19	9	—
Asian	161	1	8	42	57	26	20	7
Hawaiian/Pacific Islander	34	2	3	9	7	4	9	—
Other/Unknown	6	—	—	—	1	3	—	2
Multiple Races	117	1	8	25	30	16	36	1
Hispanic	802	17	117	215	212	130	90	21
37 - 39 Weeks								
Total Births	27,314	404	1,663	4,897	7,464	6,717	5,557	612
White	18,410	273	1,011	2,980	4,967	4,709	4,090	380
African American	554	15	55	110	108	135	114	17
American Indian	389	6	28	76	79	99	89	12
Asian	1,302	3	54	253	435	339	188	30
Hawaiian/Pacific Islander	185	2	20	31	33	42	52	5
Other/Unknown	70	1	5	11	13	13	17	10
Multiple Races	638	10	37	98	151	161	162	19
Hispanic	5,760	94	453	1,337	1,676	1,219	844	137
40 Weeks and Over								
Total Births	17,883	206	825	2,737	4,561	4,620	4,367	567
White	12,265	147	504	1,646	3,001	3,354	3,229	384
African American	359	7	20	64	98	71	87	12
American Indian	206	4	9	25	51	35	79	3
Asian	696	2	18	137	226	187	107	19
Hawaiian/Pacific Islander	114	2	5	22	20	24	36	5
Other/Unknown	58	—	2	9	5	13	21	8
Multiple Races	387	7	16	58	81	93	122	10
Hispanic	3,795	37	251	776	1,079	843	684	125

— 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, 2008

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	8.4	9.5	8.1	6.1	4.9	4.7	6.1
White	5.8	6.9	9.0	7.7	6.0	4.8	4.5	6.1
African American	10.8	27.6	13.3	14.0	9.4	9.2	7.8	11.8
American Indian	7.4	9.1	8.9	13.6	5.6	10.5	1.7	6.2
Asian	7.3	—	11.1	8.8	8.4	4.5	6.3	8.9
Hawaiian/Pacific Islander	6.9	16.7	7.1	11.3	8.3	5.7	4.1	—
Other/Unknown	4.4	—	—	—	10.5	6.9	2.6	5.0
Multiple Races	9.6	11.1	9.8	14.8	11.1	5.6	9.3	3.2
Hispanic	5.8	8.8	10.2	7.4	4.9	4.6	4.3	5.6
Under 37 Weeks								
Total Births	52.8	62.0	58.7	57.1	51.0	51.9	47.8	49.0
White	51.4	57.1	57.4	55.0	51.3	50.8	45.9	53.0
African American	63.6	100.0	75.0	63.6	57.1	65.2	58.8	40.0
American Indian	52.2	100.0	37.5	47.1	53.8	68.4	33.3	—
Asian	58.4	—	62.5	59.5	57.9	57.7	65.0	42.9
Hawaiian/Pacific Islander	44.1	50.0	66.7	44.4	57.1	25.0	33.3	—
Other/Unknown	66.7	—	—	—	100.0	66.7	—	50.0
Multiple Races	65.8	100.0	62.5	76.0	66.7	62.5	61.1	—
Hispanic	52.8	58.8	60.3	60.0	44.3	50.0	51.1	42.9
37 - 39 Weeks								
Total Births	3.1	3.0	3.7	3.5	3.3	2.9	2.5	3.8
White	3.0	2.6	3.7	3.1	3.2	2.9	2.5	3.4
African American	5.6	6.7	9.1	7.3	4.6	3.0	5.3	11.8
American Indian	3.3	—	3.6	10.5	1.3	3.0	—	—
Asian	4.3	—	7.4	4.7	5.5	2.4	3.2	6.7
Hawaiian/Pacific Islander	4.3	—	—	9.7	3.0	7.1	1.9	—
Other/Unknown	1.4	—	—	—	7.7	—	—	—
Multiple Races	4.4	10.0	2.7	8.2	4.0	2.5	4.3	5.3
Hispanic	2.8	3.2	2.9	3.1	3.0	2.7	2.3	3.6
40 Weeks and Over								
Total Births	0.5	0.5	0.7	0.6	0.4	0.4	0.4	0.7
White	0.4	0.7	1.0	0.7	0.4	0.3	0.3	0.5
African American	1.1	—	—	—	1.0	2.8	1.1	—
American Indian	0.5	—	—	—	—	—	—	33.3
Asian	1.0	—	—	0.7	1.3	1.1	0.9	—
Hawaiian/Pacific Islander	—	—	—	—	—	—	—	—
Other/Unknown	1.7	—	—	—	—	—	4.8	—
Multiple Races	1.3	—	—	—	3.7	1.1	0.8	—
Hispanic	0.3	—	0.4	0.4	0.1	0.2	0.6	0.8

— 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, 2008

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	49,117	38	4,474	11,986	14,274	11,471	5,693	1,101	75	5
Immediate Ventilation	2,046	4	260	546	539	407	226	56	8	-
Ventilator > 6 hrs.	368	1	45	88	97	82	46	9	-	-
Admission to NICU	3,219	2	305	739	839	727	471	117	19	-
Surfactant Therapy	86	-	13	25	21	18	8	1	-	-
Antibiotics	554	-	90	162	138	96	59	9	-	-
Seizures	20	-	1	7	5	6	1	-	-	-
No Condition Noted	43,759	33	3,898	10,682	12,852	10,307	4,999	932	52	4

- 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, 2008

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	49,117	33,271	1,034	663	2,161	333	1,280	10,366
Immediate Ventilation	2,046	1,442	47	40	48	24	84	360
Ventilator > 6 hrs.	368	251	4	4	6	3	13	87
Admission to NICU	3,219	2,156	107	49	127	42	112	626
Surfactant Therapy	86	66	–	3	–	1	2	14
Antibiotics	554	375	6	12	12	13	19	117
Seizures	20	12	–	1	1	–	1	5
No Condition Noted	43,759	29,609	898	577	1,982	280	1,092	9,315
Multiple Mention Race								
Immediate Ventilation	2,046	1,739	66	104	69	35	144	360
Ventilator > 6 hrs.	368	315	7	14	11	3	40	87
Admission to NICU	3,219	2,684	142	130	166	55	202	626
Surfactant Therapy	86	76	2	5	1	1	6	14
Antibiotics	554	468	14	27	20	17	44	117
Seizures	20	17	1	2	2	–	1	5
No Condition Noted	43,759	37,434	1,174	1,271	2,340	398	2,518	9,315

– 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, 2008**

Reported Congenital Anomaly	All Ages	Age of Mother					
		<20	20-24	25-29	30-34	35-39	40+
Total Births ¹	49,117	4,512	11,986	14,274	11,471	5,693	1,176
No Congenital Anomaly Reported	48,173	4,400	11,776	14,031	11,271	5,564	1,127
Anencephalus	4	—	3	1	—	—	—
Spina Bifida	7	2	—	3	—	1	1
Heart Disease	40	2	14	8	8	7	1
Hypospadias	59	4	9	18	17	8	3
Hernia	9	—	2	5	2	—	—
Omphalocele	7	2	2	1	1	1	—
Gastroschisis	20	9	9	—	1	1	—
Limb Reduction Defect	12	2	2	3	2	3	—
Cleft Lip	42	4	8	14	5	10	1
Cleft Palate Alone	16	—	7	2	3	3	1
Down Syndrome	37	5	2	3	9	11	7
Chromosomal Disorder	34	1	8	5	7	9	4

— Quantity is zero.

¹ Total births include five births where mother's age was not stated. No congenital anomalies were reported for those births.
NOTE: More than one type of malformation may be reported for a given birth.

Table 2-38. Most Frequently Used Baby Names, Oregon Occurrence, 2008

Boys			Girls		
Rank	Name	Count	Rank	Name	Count
1	Ethan.....	232	1	Olivia.....	246
2	Alexander.....	229	2	Emma.....	237
3	Jacob.....	206	3	Ava.....	202
4	Aiden.....	205	4	Isabella.....	198
4	Logan.....	205	5	Emily.....	190
6	Benjamin.....	202	6	Sophia.....	186
7	Noah.....	195	7	Abigail.....	184
8	Wyatt.....	187	8	Madison.....	178
9	Andrew.....	185	9	Elizabeth.....	139
10	Daniel.....	183	10	Ella.....	137
11	William.....	178	11	Grace.....	133
12	Samuel.....	176	12	Addison.....	132
13	David.....	171	12	Chloe.....	132
14	Michael.....	170	14	Natalie.....	127
15	Gabriel.....	165	15	Lily.....	124
16	Isaac.....	163	16	Hannah.....	123
17	James.....	162	17	Samantha.....	117
18	Elijah.....	158	18	Lillian.....	116
19	Anthony.....	152	18	Taylor.....	116
19	Mason.....	152	20	Alexis.....	106
21	Gavin.....	149	21	Mia.....	99
21	Joseph.....	149	22	Amelia.....	98
23	Joshua.....	144	22	Hailey.....	98
24	Angel.....	139	24	Audrey.....	97
24	Evan.....	139	25	Alyssa.....	95
24	Tyler.....	139	26	Nevaeh.....	88
27	Matthew.....	136	27	Brooklyn.....	85
27	Nathan.....	136	28	Sarah.....	84
29	Jack.....	134	29	Evelyn.....	82
29	Jackson.....	134	30	Ashley.....	79
Total Boys' Names: 4,618			Total Girls' Names: 6,432		

Total 2008 Oregon Occurrence Births: 49,492

SECTION 3: INDUCED TERMINATION OF PREGNANCY

Induced Termination of Pregnancy

Current trends

During 2008, 10,610 induced terminations of pregnancy occurred in Oregon. This total represents a 10.7 percent decrease from 2007 and a decrease of 32.6 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 11.3 and 12.6 percent from 1992 to the present. In 2008, 1,244 patients (11.7 %) 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

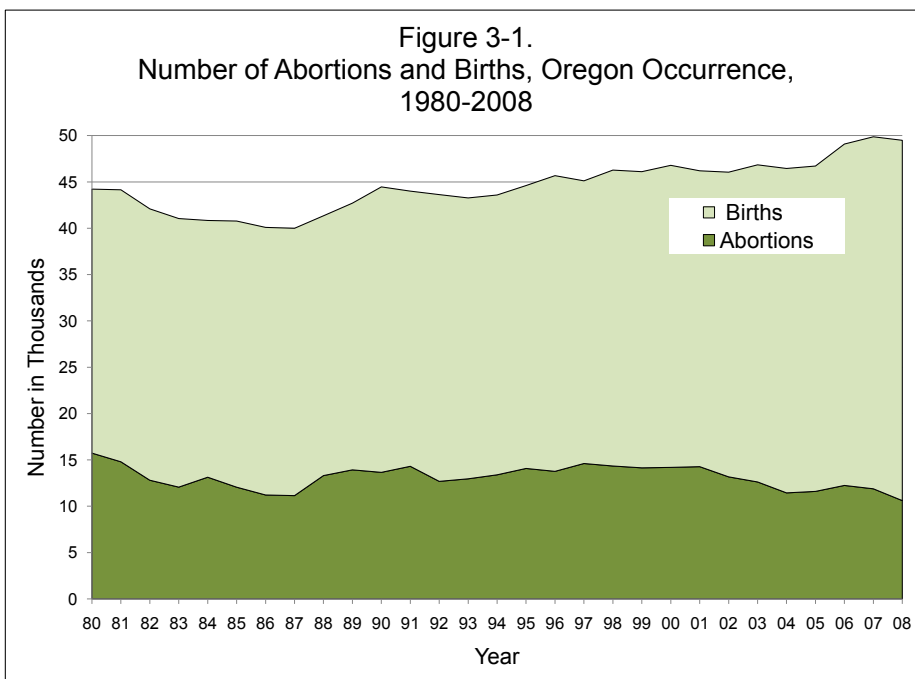
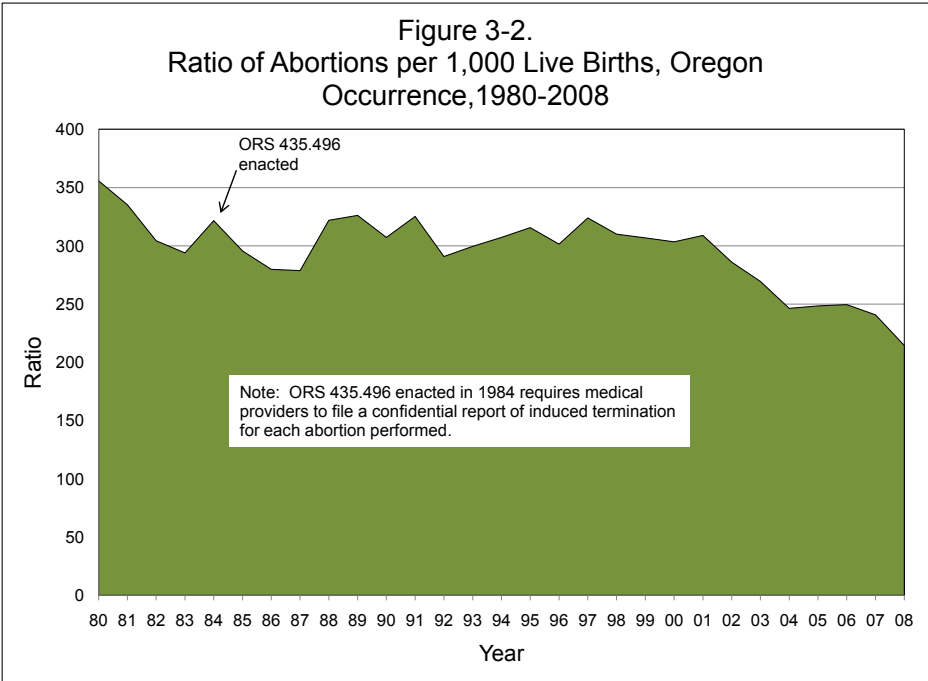


Table 3-A. Comparison of Oregon and U.S. Abortion Ratios, 1972-2008		
Year	U.S. Abortion Ratio ¹	Oregon's Abortion Ratio ² as Percent Difference from U.S.
1972	180	+23%
1973	196	+19%
1974	242	+9%
1975	**	**
1976	312	+13%
1977	**	**
1978	347	-2%
1979	**	**
1980	359	-1%
1981	**	**
1982	354	-14%
1983	**	**
1984	364	-12%
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 Estimated Number of Abortions per 1,000 Live Births
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
**** Data not available**

15–44 to 16.0 per 1,000 in 2008.¹ In 2008, the Oregon rate decreased to 13.8 per 1,000 women aged 15–44, a 12.1 percent decrease from 2007, and 45.0 percent lower than the record high of 1980 (25.1 per 1,000). During the past 20 years, Oregon’s abortion rate has steadily declined— from the current low of 13.8 per 1,000 women aged 15–44 in 2008, to a high of 21.4 in 1991.



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 2008, there were 214.4 abortions per 1,000 occurrence births. This represents an 11.8 percent decrease from 2007 and a 40.3 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 vs. Wade legalized abortion. (See sidebar 3-A.) In the

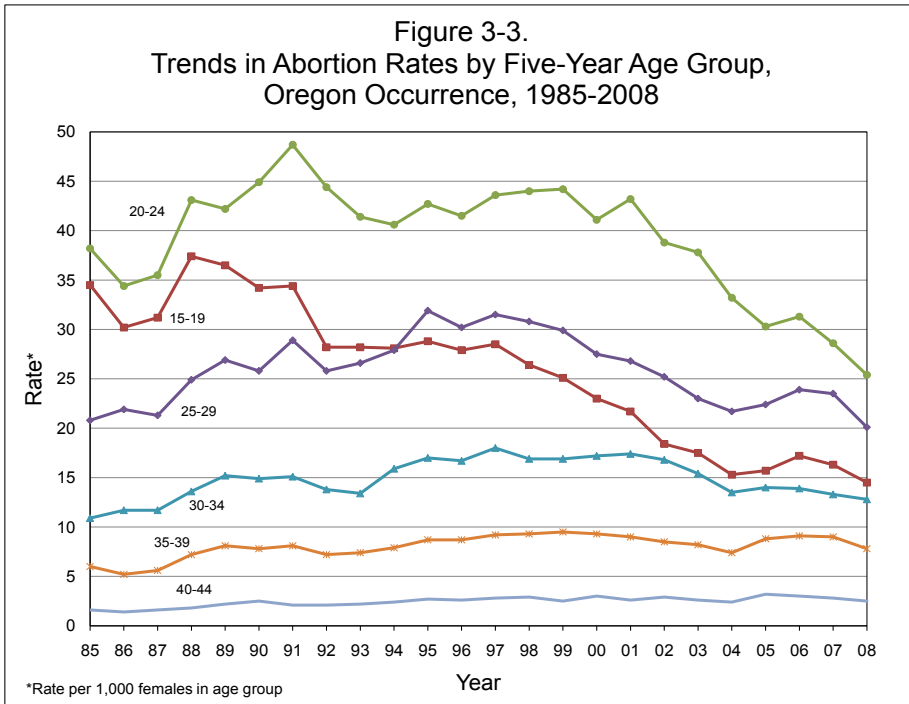


Table 3-B. Abortion Rates by Age and Percentage Distribution, Oregon Occurrence ¹ , 2008		
Age	Rate ²	%
<15	0.2	0.3
15-19	14.5	17.2
20-24	25.4	30.4
25-29	20.1	24.3
30-34	12.8	15.2
35-39	7.8	9.3
40-44	2.5	3.0
45-49	0.2	0.3
15-44	13.8	99.4

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

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).

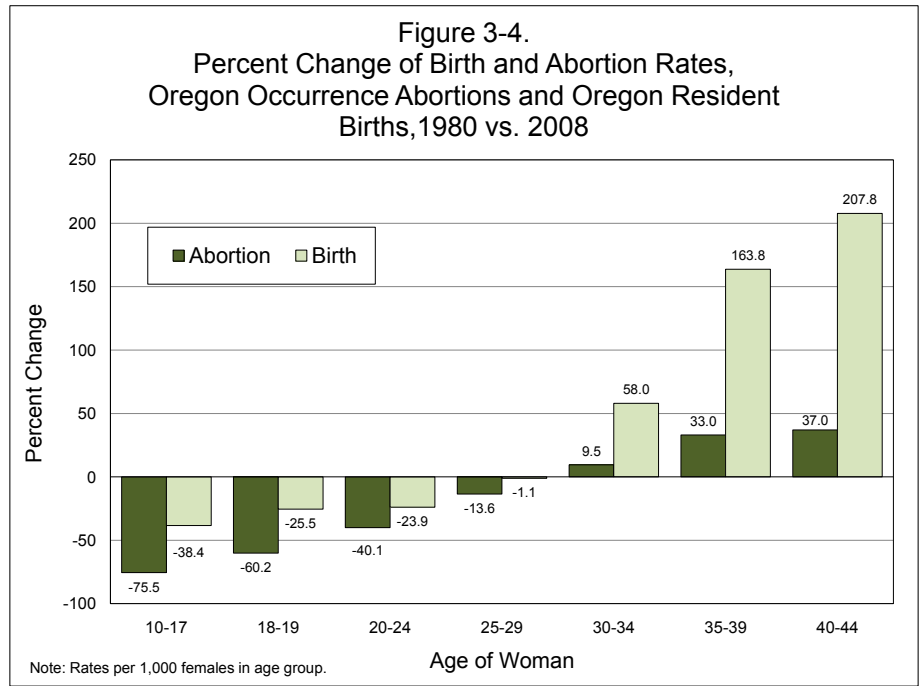
Abortion patients

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

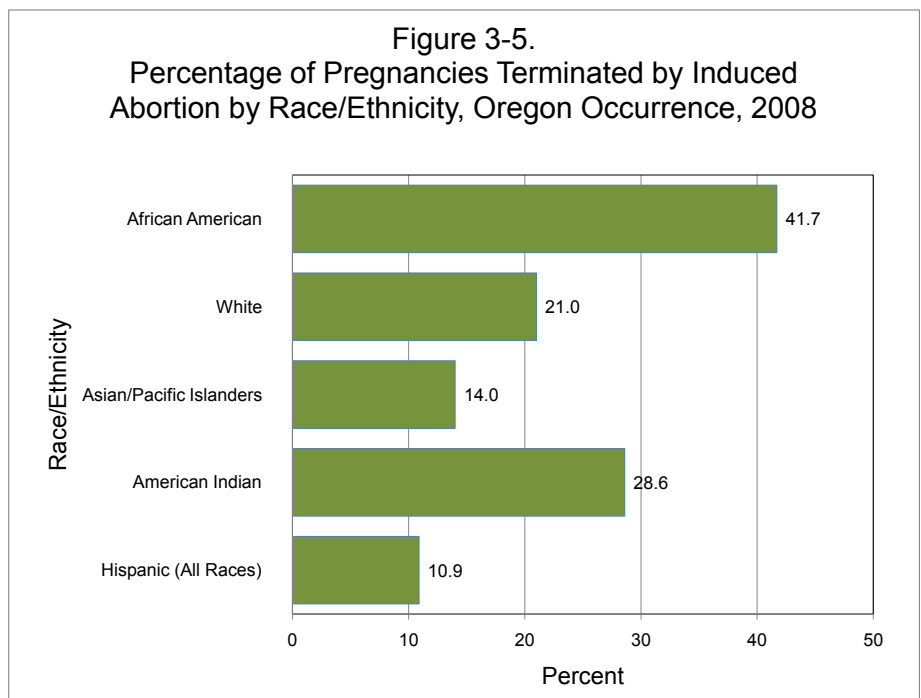
Age

There is wide variation in abortion rates among age groups (see sidebar 3-B): The highest rate in 2008 occurred among women aged 20–24 (25.4 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 2008 abortion rate among teens aged 10–17 was 75.5 percent lower than the rate in 1980 (when the statewide abortion rate was highest); the rate for 18- to 19-year-olds was 60.2 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 30 and older, both abortion rates and birth rates were markedly higher in 2008 than in 1980.



Race and ethnicity

Beginning in 2008, collection of race and ethnicity data on Oregon birth certificates changed to get 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 American Indian women had the highest percentages of terminated pregnancies in 2008 with 41.7 and 28.6 percent respectively. Because Oregon's demographic composition is predominantly white, white women obtained the majority of abortions by count in 2008, but had the third highest percentage of terminations overall at 21 percent. Asian and Pacific Island women followed at 14 percent. The lowest percent of terminated pregnancies was women of Hispanic ethnicity who terminated 10.9 percent of pregnancies in 2008 (See Figure 3-5.).

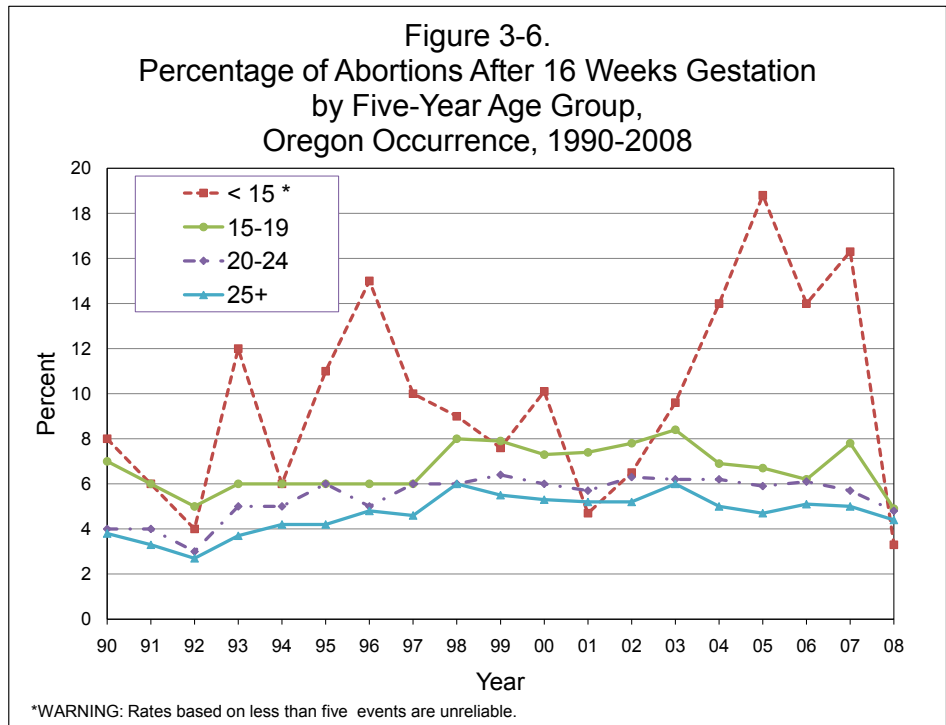
Contraceptive use

In the majority of abortions that occur in Oregon, the pregnancy is not a result of contraceptive failure. In 2008, based upon data obtained from abortion reports, 34.9 percent of women used some method of contraception to avoid pregnancy. (See Table 3-5.)

Medical procedures

More than 87 percent of abortions with known gestation were performed prior to the 13th week of pregnancy. About one in nearly 22 (4.6 %) induced terminations where gestation was known were performed after 16 weeks. Suction curettage was the procedure used in 52.9 percent of terminations prior to the 13th week where method was reported. Dilation and evacuation was the procedure in 91.6 percent of terminations occurring after 16 weeks gestation. Women aged 15–19 obtained nearly 47 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 decreased for women in all age groups in 2008. (See Figure 3-6.)

Complications at the time of the induced termination procedure were reported for 230 terminations (2.2% of abortion patients). Retained products (83 patients) and infection (36 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 2008. Service providers, conversely, were geographically concentrated. In 2008, abortions were reported in eight counties. The concentration was evident in the fact that 93.4 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, 1980-2008

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
Change 1998 - 2008	212	-6.1		3,924	0.4		-3,712	-6.5		-6.0	
% Change 1998 - 2008	0.4%	-7.2%		8.7%	0.6%		-26.1%	-31.8%		-26.5%	

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. 2008 population estimate: 758,505.

**Table 3-2. Live Births and Induced Abortions
Occurring in Oregon, 1970-2008**

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

* The increase in the 1980 figure 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 were performing abortions in previous years.

**The increase in the 1984 figure 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, 2008

Race/Ethnicity and Marital Status	Total	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	10,610	30	1,812	3,213	2,563	1,609	985	315	34	49
White	8,857	25	1,532	2,706	2,150	1,301	829	256	21	37
African American	741	5	160	239	187	94	38	11	3	4
American Indian	265	1	56	100	60	29	17	2	—	—
Chinese	99	—	9	14	28	26	11	9	2	—
Japanese	39	—	5	9	10	9	4	2	—	—
Hawaiian	59	—	12	17	12	11	4	3	—	—
Filipino	56	—	7	11	16	9	11	1	—	1
Other Asian/Pacific Islander ...	154	—	20	41	33	31	19	9	1	—
Other Non-white	17	—	4	2	5	3	3	—	—	—
Unknown	135	—	24	44	26	24	9	5	—	3
Hispanic	1,247	3	239	394	280	202	92	28	2	7
White	1,026	3	197	326	239	156	77	24	1	3
African American	40	—	13	10	5	7	4	—	—	1
American Indian	47	—	8	16	12	7	3	1	—	—
Chinese	11	—	3	2	2	4	—	—	—	—
Japanese	12	—	1	3	4	4	—	—	—	—
Hawaiian	5	—	1	1	1	2	—	—	—	—
Filipino	4	—	—	1	—	1	2	—	—	—
Other Asian/Pacific Islander	21	—	3	6	5	4	2	1	—	—
Other Non-white	9	—	2	2	2	2	1	—	—	—
Unknown	60	—	12	20	12	13	2	—	—	1
Non-Hispanic	9,306	27	1,567	2,802	2,270	1,393	889	287	32	39
White	7,804	22	1,331	2,371	1,906	1,138	750	232	20	34
African American	694	5	146	228	179	85	34	11	3	3
American Indian	216	1	47	83	48	22	14	1	—	—
Chinese	87	—	6	12	26	21	11	9	2	—
Japanese	27	—	4	6	6	5	4	2	—	—
Hawaiian	54	—	11	16	11	9	4	3	—	—
Filipino	52	—	7	10	16	8	9	1	—	1
Other Asian/Pacific Islander	131	—	17	35	27	26	17	8	1	—
Other Non-white	8	—	2	—	3	1	2	—	—	—
Unknown	62	—	10	20	11	10	6	5	—	—
Ethnicity Unknown	45	0	6	13	9	10	4	0	0	3
Marital Status										
Never Married	7,353	29	1,711	2,696	1,764	731	318	68	6	30
Now Married	1,574	—	30	232	389	435	346	121	14	7
Widowed	37	—	—	2	15	12	4	2	2	—
Divorced	880	—	2	97	188	269	218	97	8	1
Separated	395	—	12	82	131	89	63	15	2	1
Unknown	371	1	57	104	76	73	36	12	2	10

— 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, 2008

Method, Complications and Age of Patient	Total	Weeks Gestation						
		< 9	9-12	13-16	17-20	21-22	23+	Unk.
Total	10,610	6,714	2,540	686	323	90	78	179
Suction Curette	5,259	3,082	1,814	246	18	–	3	96
Medical (Non-surgical)	2,069	1,941	67	11	4	2	2	42
Dilation & Evacuation	3,228	1,668	653	423	296	86	68	34
Intra-uterine Instillation	4	3	1	–	–	–	–	–
Vaginal Prostaglandin	9	2	1	2	2	1	1	–
Sharp Curettage	4	2	–	1	–	–	1	–
Other	14	7	–	2	1	1	2	1
Unknown	23	9	4	1	2	–	1	6
Complications								
None	9,147	5,548	2,362	632	303	81	68	153
Hemorrhage	11	7	2	–	1	1	–	–
Infection	36	23	8	2	–	–	2	1
Cervical Laceration	1	–	1	–	–	–	–	–
Retained Products	83	58	15	4	4	–	–	2
Failure of First Method	38	36	–	–	–	–	–	2
Other	38	28	7	2	–	–	1	–
Multiple Complications	23	16	6	1	–	–	–	–
Age Groups								
< 15	30	13	9	6	1	–	–	1
15-19	1,812	1,006	531	157	56	13	20	29
20-24	3,213	1,965	816	223	108	24	23	54
25-29	2,563	1,657	592	147	71	27	19	50
30-34	1,609	1,092	338	90	46	13	6	24
35-39	985	690	183	51	28	10	9	14
40-44	315	226	63	7	12	2	1	4
45+	34	30	1	1	–	1	–	1
N.S.	49	35	7	4	1	–	–	2

– Quantity is zero.

TABLE 3-5. Contraceptive Use, Number of Previous Abortions, and Number of Living Children by Age of Patient, Oregon Occurrence, 2008

Contraceptive Used, Previous Abortions, and Number of Living Children	Total	Age Groups								N.S.
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	
Total	10,610	30	1,812	3,213	2,563	1,609	985	315	34	49
None Used	7,011	26	1,316	2,131	1,599	1,039	619	220	24	37
No Previous Abortion	4,067	26	1,100	1,306	759	458	278	101	15	24
One	1,640	-	163	525	437	278	171	56	4	6
Two	679	-	31	177	213	147	74	31	4	2
Three	326	-	9	67	100	83	52	13	1	1
Four or More	227	-	-	40	75	58	36	15	-	3
Pills Used	1,189	1	171	414	350	160	75	14	2	2
No Previous Abortion	659	1	132	243	166	70	35	9	2	1
One	306	-	30	107	95	46	25	2	-	1
Two	123	-	6	43	46	17	9	2	-	-
Three	51	-	2	13	20	12	3	1	-	-
Four or More	37	-	-	3	20	12	2	-	-	-
Condoms Used	1,809	3	286	514	441	290	202	60	5	8
No Previous Abortion	994	3	245	319	203	122	72	23	1	6
One	448	-	24	123	126	85	66	19	3	2
Two	205	-	8	51	64	37	31	14	-	-
Three	83	-	5	14	16	25	20	2	1	-
Four or More	61	-	1	2	28	16	12	2	-	-
Other Contraceptive	702	-	55	186	200	135	97	23	3	3
No Previous Abortion	338	-	47	92	90	51	45	8	2	3
One	187	-	4	50	59	45	22	6	1	-
Two	105	-	3	30	32	21	15	4	-	-
Three	36	-	1	8	8	8	8	3	-	-
Four or More	29	-	-	3	8	9	7	2	-	-
Contraceptive Use Unknown	22	-	2	4	7	5	-	3	-	1
No Previous Abortion	12	-	2	2	3	3	-	1	-	1
One	3	-	-	-	3	-	-	-	-	-
Two	3	-	-	-	-	1	-	2	-	-
Three	-	-	-	-	-	-	-	-	-	-
Four or More	1	-	-	-	1	-	-	-	-	-
Previous Abortions Unknown ...	31	-	7	6	8	3	5	1	-	1
Number of Living Children										
No Children	5,103	29	1,504	1,814	999	453	213	59	4	28
Total with Children	5,460	1	302	1,383	1,549	1,153	769	253	30	20
One	2,472	1	258	881	631	376	251	60	8	6
Two	1,827	-	39	389	584	409	282	100	15	9
Three	788	-	4	92	253	241	134	57	4	3
Four	257	-	1	19	59	84	73	17	2	2
Five or More	116	-	-	2	22	43	29	19	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, 2008

Place of Residence	Total	Age Groups								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	10,610	30	1,812	3,213	2,563	1,609	985	315	34	49
Baker	2	*	*	*	*	*	*	*	*	*
Benton	124	—	20	58	25	12	6	1	—	2
Clackamas	895	—	178	244	186	141	102	37	3	4
Clatsop	70	2	14	18	17	8	7	4	—	—
Columbia	86	1	22	27	20	10	3	3	—	—
Coos	37	—	6	16	5	5	3	1	1	—
Crook	19	—	6	3	5	2	—	3	—	—
Curry	5	*	*	*	*	*	*	*	*	*
Deschutes	359	1	55	98	81	63	46	14	1	—
Douglas	59	—	13	14	13	12	6	—	1	—
Gilliam	2	*	*	*	*	*	*	*	*	*
Grant	2	*	*	*	*	*	*	*	*	*
Harney	6	*	*	*	*	*	*	*	*	*
Hood River	41	—	5	8	12	7	5	4	—	—
Jackson	439	—	102	132	108	51	25	15	3	3
Jefferson	37	2	4	13	9	4	4	1	—	—
Josephine	117	—	23	30	19	26	16	3	—	—
Klamath	96	—	32	29	20	7	5	3	—	—
Lake	4	*	*	*	*	*	*	*	*	*
Lane	517	2	103	178	106	54	48	22	—	4
Lincoln	83	1	11	21	21	18	9	1	1	—
Linn	153	1	45	48	28	21	7	3	—	—
Malheur	2	*	*	*	*	*	*	*	*	*
Marion	852	4	196	294	183	106	47	17	2	3
Morrow	4	*	*	*	*	*	*	*	*	*
Multnomah	3,599	5	505	1,049	983	600	338	89	13	17
Polk	91	—	18	40	25	6	1	1	—	—
Sherman	1	*	*	*	*	*	*	*	*	*
Tillamook	37	—	6	8	9	9	4	—	—	1
Umatilla	19	—	5	4	4	1	4	1	—	—
Union	13	—	3	3	6	1	—	—	—	—
Wallowa	—	—	—	—	—	—	—	—	—	—
Wasco	39	2	8	9	10	3	4	2	1	—
Washington	1,358	4	180	425	324	217	151	46	4	7
Wheeler	2	*	*	*	*	*	*	*	*	*
Yamhill	180	1	19	63	47	23	19	6	—	2
Out of State	1,244	4	222	370	286	196	121	36	4	5
Not Stated	16	—	2	4	6	2	1	1	—	—

— 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, 2008

County of Residence	Total	County of Occurrence							
		Benton	Deschutes	Jackson	Lane	Marion	Multnomah	Washington	Yamhill
Total	10,610	22	403	623	513	718	7,491	677	157
Baker	2	*	*	*	*	*	*	*	*
Benton	124	9	—	1	9	54	37	5	9
Clackamas ..	895	—	—	—	3	8	830	50	3
Clatsop	70	—	—	—	1	—	63	5	1
Columbia	86	—	—	1	—	1	76	8	—
Coos	37	—	—	—	14	—	22	1	—
Crook	19	—	17	1	—	—	1	—	—
Curry	5	*	*	*	*	*	*	*	*
Deschutes ...	359	—	322	1	1	—	34	1	—
Douglas	59	—	1	2	32	—	24	—	—
Gilliam	2	*	*	*	*	*	*	*	*
Grant	2	*	*	*	*	*	*	*	*
Harney	6	*	*	*	*	*	*	*	*
Hood River ..	41	—	—	—	—	1	39	1	—
Jackson	439	—	2	408	14	—	15	—	—
Jefferson	37	—	23	6	—	1	7	—	—
Josephine ...	117	—	—	108	4	—	5	—	—
Klamath	96	—	12	67	8	1	6	1	—
Lake	4	*	*	*	*	*	*	*	*
Lane	517	—	2	1	395	19	85	8	6
Lincoln	83	1	1	—	6	23	35	5	12
Linn	153	8	—	—	7	62	68	4	4
Malheur	2	*	*	*	*	*	*	*	*
Marion	852	1	1	—	1	454	303	34	58
Morrow	4	*	*	*	*	*	*	*	*
Multnomah ..	3,599	—	2	1	5	8	3,449	120	11
Polk	91	2	—	—	1	49	26	1	12
Sherman	1	*	*	*	*	*	*	*	*
Tillamook	37	—	—	—	1	—	33	3	—
Umatilla	19	—	1	—	—	—	18	—	—
Union	13	—	—	—	—	—	12	1	—
Wallowa	—	—	—	—	—	—	—	—	—
Wasco	39	—	1	—	1	—	34	3	—
Washington	1,358	—	—	—	7	5	956	384	6
Wheeler	2	*	*	*	*	*	*	*	*
Yamhill	180	—	—	—	—	26	98	23	33
Out of State	1,244	1	7	22	—	3	1,193	16	2

— Quantity is zero.

* Detailed reporting of small numbers may breach confidentiality.

SECTION 4: TEEN PREGNANCY

Teen Pregnancy

Introduction

In 2008, 6,128 pregnancies occurred among Oregon females under the age of 20. Sixty-four pregnancies occurred among females under age 15. Thirty-eight girls aged 10 to 14 gave birth during 2008, 12 fewer than the previous year. (See Table 4-2.) The youngest female to give birth was 10 and the youngest female to obtain an abortion was 12.

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 to 17 and females aged 18 to 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 remained relatively unchanged from 2007.

Oregon females 15 to 17

Efforts to prevent teen pregnancies focus primarily on females aged 15 to 17. During 2008, 1,931 pregnancies were recorded for Oregon females aged 15 to 17, 29 more than in

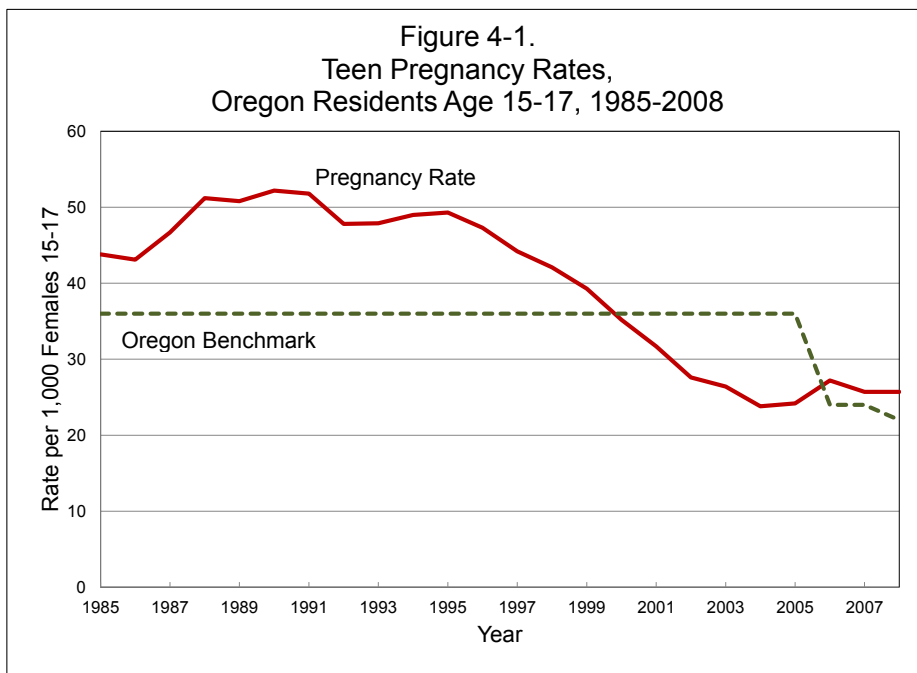


Table 4-A. Oregon Benchmark Teen Pregnancy Rates 15-17	
Year 2010 Goal: 22.0	
Year	Rate
1980	59.3
1981	56.8
1982	49.5
1983	45.5
1984	45.6
1985	43.8
1986	43.1
1987	46.7
1988	51.2
1989	50.8
1990	52.2
1991	51.8
1992	47.8
1993	47.9
1994	49.0
1995	49.3
1996	47.3
1997	44.2
1998	42.1
1999	39.3
2000	35.2
2001	31.7
2002	27.6
2003	26.4
2004	23.8
2005	24.2
2006	27.2
2007	25.7
2008	25.7

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

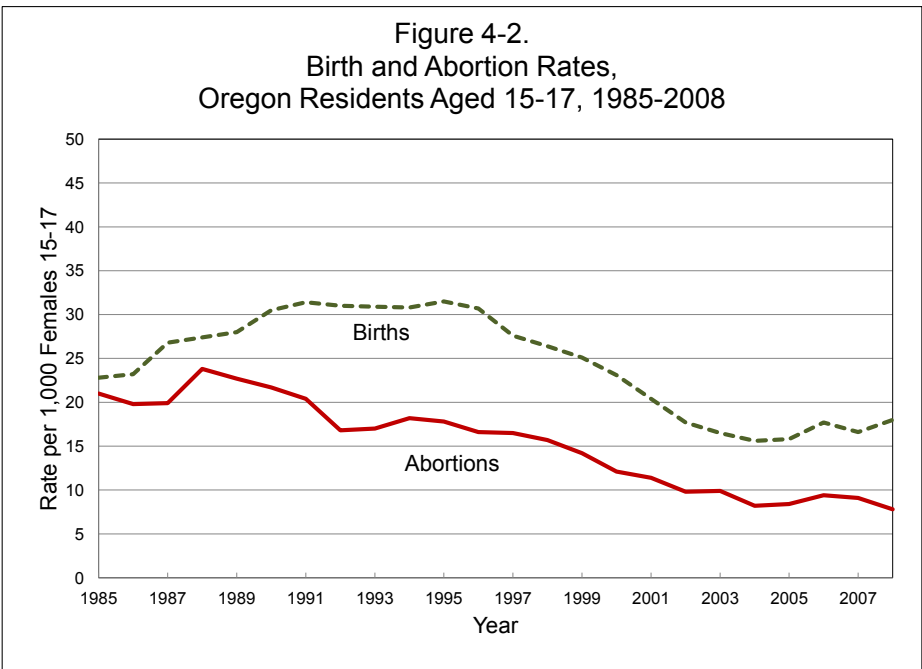
2007. (See Table 4-1.) In 2008, the statewide pregnancy rate among women aged 15 to 17 remained relatively unchanged from 25.7 in 2007. (See Table 4-1.) The teen pregnancy rate has increased slightly in recent years from its 2004 low of 23.8. Historically, the teen pregnancy rate has trended downward and the 2008 rate is 38.9 percent lower than it was in 1998. Pregnancy rates for teens aged 15 to 17 varied by county. Thirteen counties had rates significantly different than the state rate. (See Table 4-3.) The 2008 rate for teens 15–17 was 3.7 percent above the Oregon Benchmark goal for the year 2010 of 22 pregnancies per 1,000 females. (See Figure 4-1, page 4-1.)

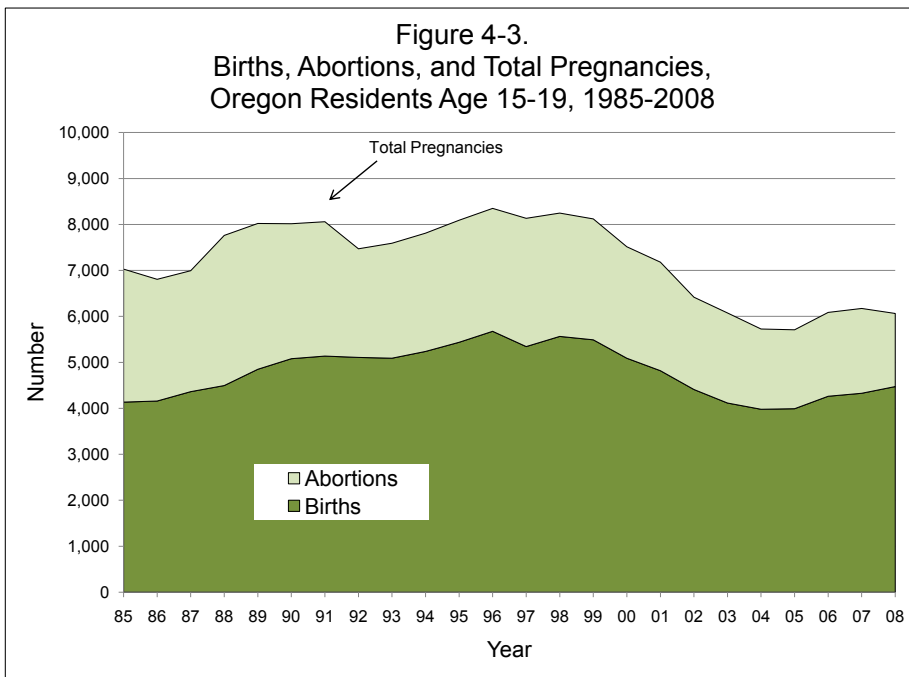
Births to teens 15 to 17

There were 1,349 births to Oregon teens aged 15 to 17 in 2008. More than 69 percent of the pregnancies among teens aged 15 to 17 resulted in a live birth, compared to 46 percent in 1980. (Table 4-1.) It was the mother’s first child in 92.7 percent of these births. (See Table 4-9.) The birth rate for females aged 15 to 17 was 18.0 per 1,000 females, an increase of 8.4 percent from the previous year. Of these, 53.4 percent had neither completed high school nor obtained a general equivalency diploma (GED). Among those who took their pregnancies to term, 83.5 percent were unmarried at the time of birth. (See Table 4-10.)

Abortion rates for Oregonians ages 15 to 17 decreased 14.3 % from 2007.

Figure 4-2.
Birth and Abortion Rates,
Oregon Residents Aged 15-17, 1985-2008





Abortion rates among teens 15 to 17

Abortion rates among teens decreased 14.3 percent from 2007. For females aged 15 to 17, the abortion rate was historically low in 2008 at 7.8 per 1,000. (See Table 4-5, Figure 4-1.) There were 582 abortions among Oregon females aged 15 to 17 reported during 2008, 92 fewer abortions than in 2007. Since the record high abortion rate recorded in 1980, the rate for females aged 15 to 17 has decreased by more than 75 percent (from 31.9 to 7.8 per 1,000 females).

Figures 4-3 and 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, 59 percent of the pregnancies resulted in a live birth in 2008. (See Table 4-2, Figure 4-4.)

Oregon females 18 to 19

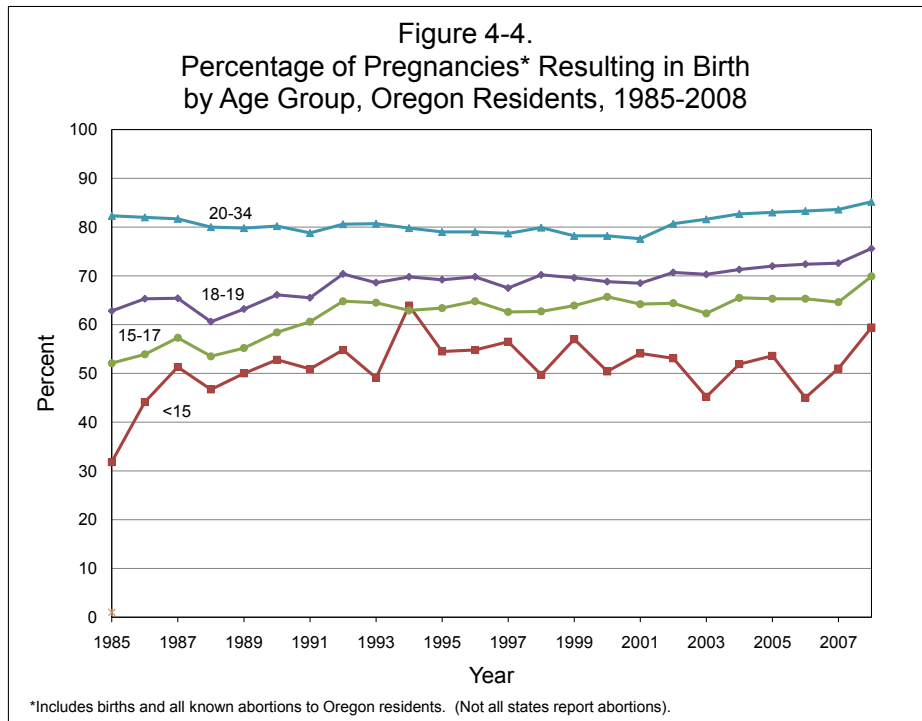
In 2008, the pregnancy rate for Oregonians aged 18 to 19 was 82.6 per 1,000 females, a 4.9 percent decrease from 2007. Comparisons with the 2007 figures show a slight decrease in the birth rate (1.0 %), while the abortion rate decreased 15.4 percent among women aged 18 to 19. (See Table 4-1.)

Of the 4,133 pregnancies among women aged 18 to 19, 75.6 percent (3,125) resulted in a live birth. (See Figure 4-4.) It was the first child for 80.5 percent of this group.

**Birth rates for
teens aged 18 to 19
decreased by 1.0%
from 2007.**

Table 4-B. Teen Birth Rates ¹			
Age	Oregon		U.S.
	2008	2007	2008
15-17	18.0	16.6	21.7
18-19	62.5	63.1	70.6
15-19	35.8	35.1	41.5

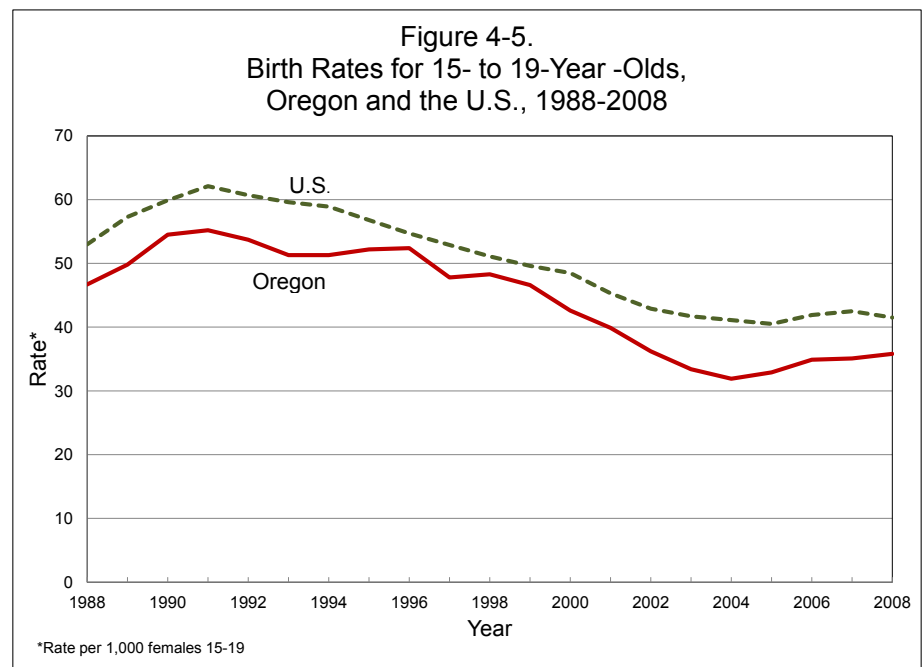
¹ All rates per 1,000 females.

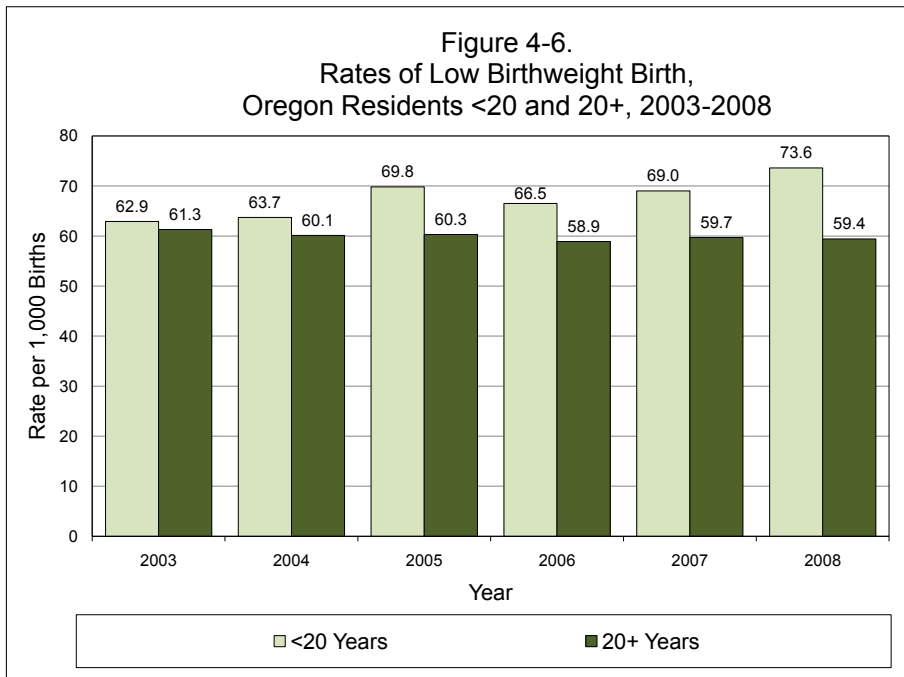


Oregon vs. U.S. birth rates

In Oregon, the birth rate among 15- to 19-year-olds (commonly used in historical and national comparisons) increased 2.0 percent in 2008 (35.8 vs. 35.1 per 1,000 females in 2007). (See Table 4-1.) The 2008 rate was 35.1 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.)

Oregon’s 2008 birth rate for 15- to 19-year-old teens was 13.7 percent below the national rate (35.8 vs. 41.5 per 1,000





females; see sidebar 4-C). 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 per 1,000 females in 1990 to 48.5 in 2008, a 43.6 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 (LBW) 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 LBW 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 2008, the LBW rate for teen mothers aged 15–19 was 73.8 per 1,000 births (Table 4-6), a 5.7 percent decrease

Table 4-C. Low Birthweight Rates ¹ by Race/ Ethnicity and Age, 2008		
Race/Ethnicity	Age	
	15-17	18-19
Rates		
Non-Hispanic White	80.5	64.6
Hispanic (All Races)	75.0	65.9
Non-Hispanic, Non-white	115.3	82.8
Percent Change, 2008 vs. 2007		
Non-Hispanic White	9.5	-14.0
Hispanic (All Races)	10.9	-1.9
Non-Hispanic, Non-white	15.3	-40.6

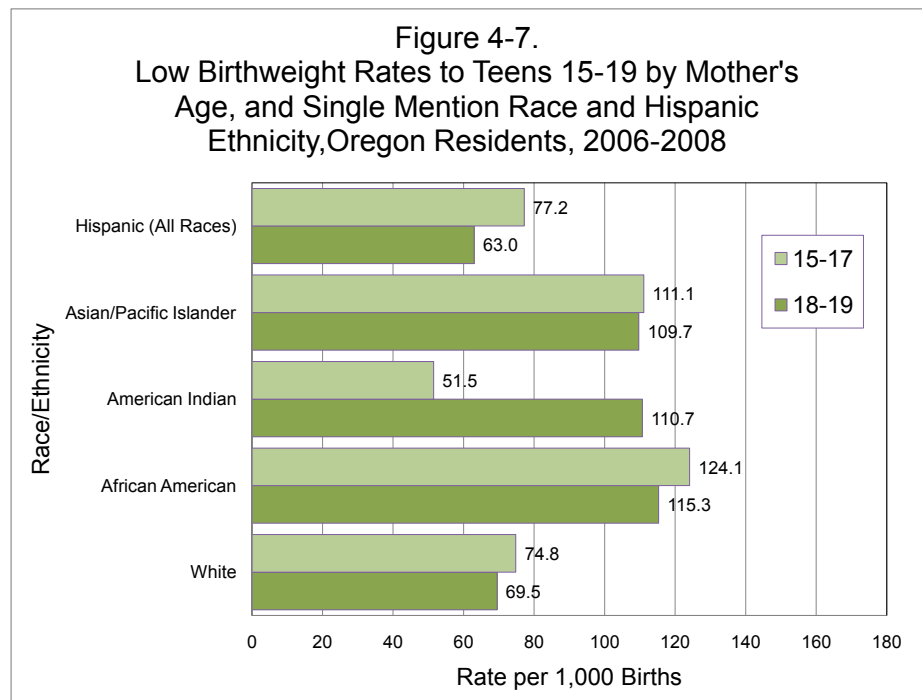
¹ All rates per 1,000 births

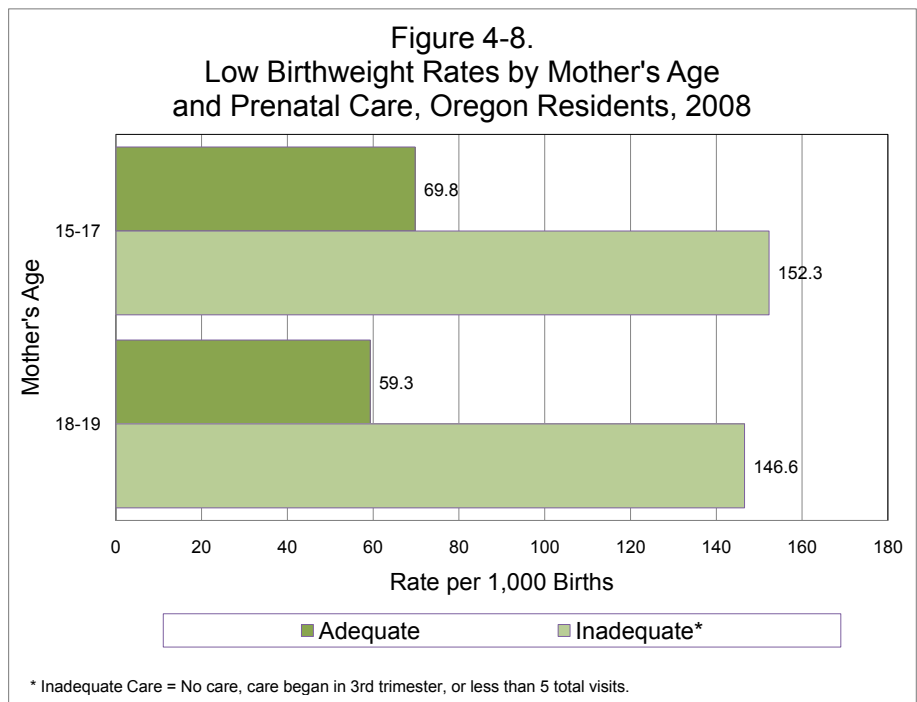
from 2007. For 15- to 17-year-olds, the rate (82.3 per 1,000) increased by 3.0 percent. The teen rate for low birthweight remained higher than for mothers aged 20 and older (59.4 per 1,000). (See Table 2-29.) The difference in the low birthweight rates between teen and older mothers has grown in recent 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 2008 for example, 39.8 percent of unmarried Hispanics aged 15–17 started prenatal care during their first trimester, compared to 63.4 percent of married non-Hispanic whites aged 18-19. (See Table 4-7.)

Low birthweight rates among teen mothers by racial/ethnic grouping are displayed in sidebar 4-C and Figure 4-7. Between 2007 and 2008, the rate of low birthweight infants for Hispanic teens aged 15–17 increased by 10.9 percent. The low birthweight rate for Hispanic teens aged 18-19 during this same period decreased by 1.9 percent. Among non-Hispanic, non-white groups, the low birthweight rate for teens aged 15–17 increased by 15.3 percent, while the rate for 18- to 19-year-olds decreased by 40.6 percent. (See sidebar 4-C.)





Prenatal care

Table 4-6 shows the association between inadequate prenatal care and frequency of low birthweight infants for teens who gave birth in 2008. 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 (148.6 vs. 62.4 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 69.8 vs. 152.3; for mothers 18–19, the rates were 59.3 vs. 146.6.

- **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 2010. Teens are further from this goal than any other age group. In 2008, only 52.1 percent of teen mothers started prenatal care during the first trimester, compared to 72.1 percent for women aged 20 and older (see sidebar). Only 45.2 percent of those 15 to 17 received first trimester prenatal care, a decrease from 54.8 percent in 2007. (See Table 4-10.)

Table 4-D. Oregon Benchmark: First Trimester Prenatal Care, 2008	
Year 2010 Goal: 90%	
All Women	70.2
All Teens	52.1
15-17 Years	45.2
18-19 Years	55.4
20+ Years	72.1

- **Inadequate prenatal care**

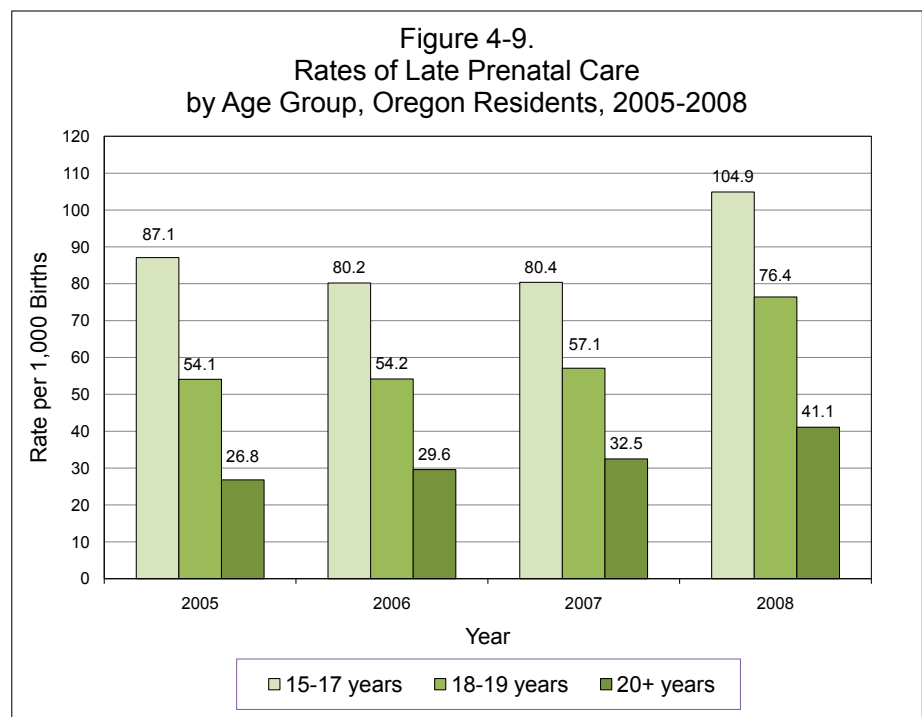
Inadequate prenatal care is defined as care beginning after the second trimester of pregnancy or involving fewer than five prenatal visits. By this measure, 14.9 percent of 15- to 17-year-old teens and 11.4 percent of 18- to 19-year-old teens received inadequate prenatal care in 2008. This compares with 6.4 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 14.7 percent in 2008, from 10.9 percent in 2007 to 12.5 percent.

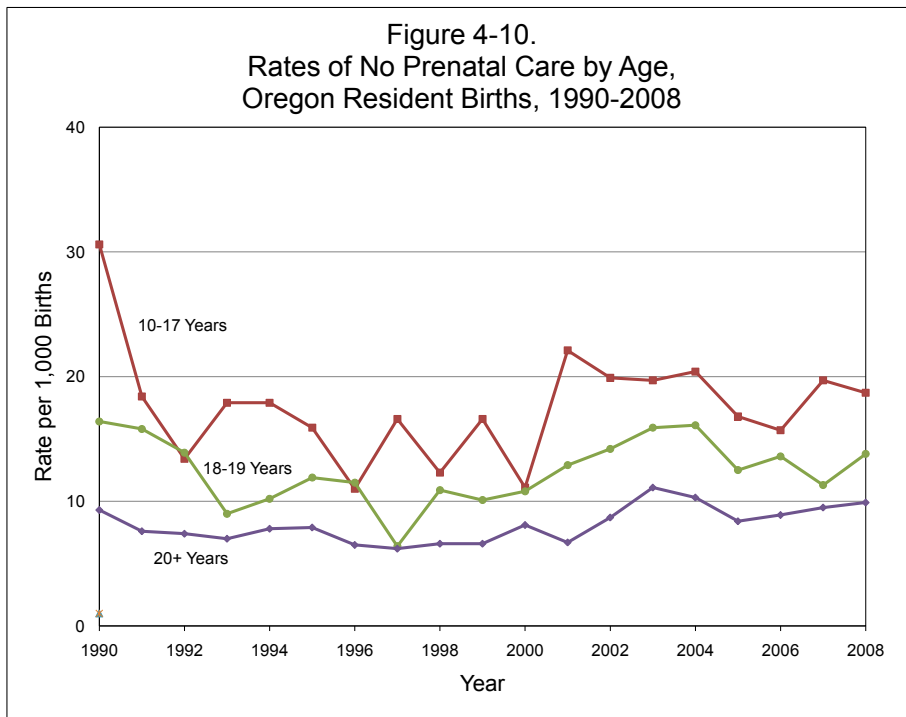
- **Late care and no prenatal care**

From 2007 to 2008, the proportion of teens aged 15–17 who began prenatal care during the third trimester increased 22.5 percent to 104.9 per 1,000 live births. (See Figure 4-9.) In 2008, 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 19.5 per 1,000 live births, about one-third higher than the rate of women aged 20 and older (10.0 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 2008, the low five-minute Apgar rate for newborns of mothers aged 15–17 was 39.3 per 1,000 births (Table 4-9), a 110 percent increase from 2007 (18.8 per 1,000). The low five-minute Apgar rate for infants born to women under age 20 was 30.9 percent higher than the rate for infants born to women 20 years or older (37.9 compared to 28.9 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-years-old. 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 to 19 who reported smoking during pregnancy in 2008 was nearly double the percentage reported by women aged 20 and older (19.4% vs. 11.1%). (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

	<20	20+
Nonsmokers	69.8	55.9
Smokers	88.4	84.1

¹ All Rates per 1,000 births

**Medicaid/OHP paid
for 73.4 % of births to
teens in 2008.**

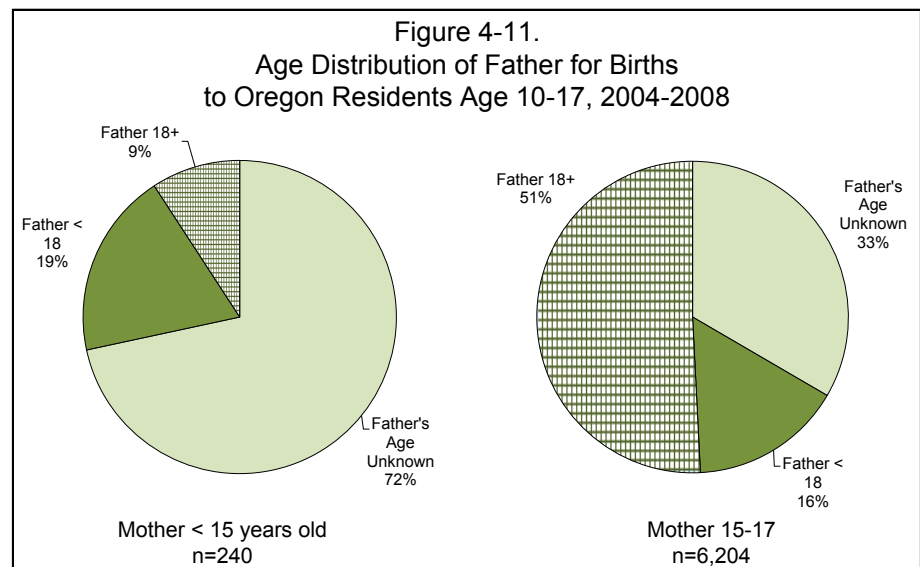
greatest difference between low birthweight rates by tobacco use (84.1 vs. 55.9 per 1,000 live births). This is due, in part, because the low birthweight rate for teen mothers is higher than for women aged 20 and older (see sidebar 4-E). Tobacco use remains one of the most important preventable causes of low birthweight infants for teen mothers.

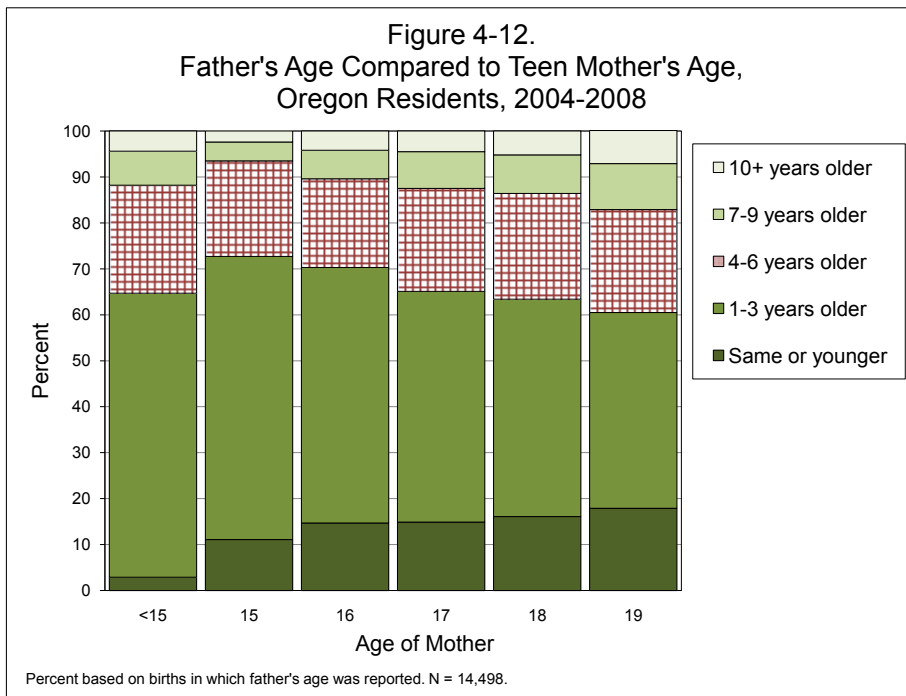
Source of payment

The percentage of teen mothers who utilized public funds to pay the costs associated with birth was nearly twice that of older mothers. In 2008, Medicaid/Oregon Health Plan paid for 73.4 percent of births to teens aged 15–19 and 37.6 percent of births to women aged 20 and older, where payor source was reported. (See Table 4-10.)

Age of father

For the period 2004 to 2008, 33.4 percent of birth records for babies born to teens aged 15 to 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 three-quarters (71.7 %) 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, 67.6 percent were younger than age 18 and 32.4 percent were aged 18 or older. Birth records for mothers aged 15 to 17 report father's age for 66.6 percent of births. Where the father's age was reported, 23.7 percent of fathers were under age 18 and 76.3 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 14.4 percent of the births for the 2004–2008 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 6.5 percent of births to 15-year-old mothers, to a high of 17.2 percent for 19-year-old teens. (See Figure 4-12.)

Endnote

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

TABLE 4-1. Oregon Pregnancies to Teens 15-19 Years, 1975-2008

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
Change Between 1998 and 2008	-1,054	-16.4	-1,130	-35.9	-2,184	-23.0	-523	-8.4	-568	-20.7
% Change Between 1998 and 2008	-35.3%	-38.9%	-21.5%	-30.3%	-26.5%	-32.2%	-27.9%	-31.9%	-15.4%	-24.9%
Change Between 2003 and 2008	-34	-0.7	23	-1.6	-11	-0.8	124	1.5	234	3.3
% Change Between 2003 and 2008	-1.7%	-2.5%	0.6%	-1.9%	-0.2%	-1.7%	10.1%	8.9%	8.1%	5.5%
Change Between 2007 and 2008	29	0.0	-138	-4.3	-109	-1.6	121	1.4	25	-0.6
% Change Between 2007 and 2008	1.5%	0.1%	-3.2%	-4.9%	-1.8%	-3.2%	9.9%	8.3%	0.8%	-1.0%

¹ Pregnancy estimates are based on the total number of births and abortions.
 See also footnote (2) on the next page regarding changes in estimating abortions.
 Percentage change calculations may vary due to computer rounding.
 All rates are per 1,000 females.
 NA = Not Available

TABLE 4-1. Oregon Pregnancies to Teens 15-19 Years, 1975-2008 (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
-1,091	-12.5	-531	-7.9	-562	-15.3	-1,093	-10.6		Change Between 1998 and 2008
-19.6%	-26.0%	-47.7%	-50.6%	-35.8%	-43.1%	-40.7%	-45.4%		% Change Between 1998 and 2008
358	2.4	-158	-2.1	-211	-4.9	-369	-3.2		Change Between 2003 and 2008
8.7%	7.1%	-21.4%	-21.7%	-17.3%	-19.4%	-18.8%	-20.1%		% Change Between 2003 and 2008
146	0.7	-92	-1.3	-163	-3.7	-255	-2.3		Change Between 2007 and 2008
3.4%	1.9%	-13.6%	-14.8%	-13.9%	-15.4%	-13.8%	-15.3%		% Change Between 2007 and 2008

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.

All rates are per 1,000 females.

NA = Not Available

TABLE 4-2. Oregon Pregnancies to Young Teens 10-17 Years, 1975-2008

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
Change Between 1998 and 2008	-127	-1,181	-7.2	-57	-580	-3.7	-70	-601	-3.5		
% Change Between 1998 and 2008	-66.5%	-37.2%	-41.8%	-60.0%	-29.5%	-35.0%	-72.9%	-49.7%	-53.0%		
Change Between 2003 and 2008	-40	-74	-0.5	-9	115	0.5	-31	-189	-1.0		
% Change Between 2003 and 2008	-38.5%	-3.6%	-4.7%	-19.1%	9.0%	7.7%	-54.4%	-23.7%	-24.4%		
Change Between 2007 and 2008	-34	-5	-0.1	12	109	0.6	-22	-114	-0.5		
% Change Between 2007 and 2008	-34.7%	-0.3%	-0.9%	-24.0%	8.5%	9.4%	-45.8%	-15.8%	-13.9%		

¹ Pregnancy estimates are based on the total number of births and abortions. See also footnote (2) below regarding changes in estimating abortions. Percentage change calculations may vary due to computer rounding.

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. 2008: 199,300.

TABLE 4-3. Pregnancy Rates of Teens by County of Residence, Oregon, 2008

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	58,490	64	1,931	4,133	6,064	10.0	25.7	82.6	48.5
Baker	197	—	6	15	21	7.9	20.0	75.0	42.0
Benton	859	—	13	47	60	§ 3.0	§ 5.5	§ 29.7	§ 15.2
Clackamas	5,100	2	129	293	422	§ 6.3	§ 16.7	§ 56.8	§ 32.7
Clatsop	521	2	18	42	60	10.4	23.5	82.0	46.9
Columbia	637	1	30	60	90	11.3	28.1	84.4	50.6
Coos	696	—	17	80	97	§ 5.4	§ 13.9	98.0	47.5
Crook	241	1	5	16	21	§ 3.7	§ 8.7	§ 41.7	§ 21.9
Curry	145	—	3	18	21	3.4	8.5	75.9	35.5
Deschutes	2,303	2	75	143	218	9.2	25.8	73.7	44.9
Douglas	1,205	1	42	116	158	8.2	21.4	88.5	48.2
Gilliam	18	*	*	*	*	*	*	*	*
Grant	66	*	*	*	*	*	*	*	*
Harney	81	*	*	*	*	*	*	*	*
Hood River	338	—	8	24	32	6.2	16.9	75.9	40.5
Jackson	2,883	3	114	246	360	10.8	27.2	88.1	51.6
Jefferson	414	2	28	50	78	§ 22.1	§ 56.2	§ 150.6	§ 94.0
Josephine	1,028	—	31	83	114	7.7	19.7	79.3	43.6
Klamath	942	—	60	104	164	§ 16.9	§ 45.4	§ 118.0	§ 74.4
Lake	79	*	*	*	*	*	*	*	*
Lane	4,299	3	131	325	456	§ 7.6	§ 18.0	67.1	§ 37.6
Lincoln	554	3	23	47	70	13.8	30.8	§ 94.4	56.2
Linn	1,621	2	61	137	198	10.2	26.6	89.7	51.8
Malheur	553	—	40	48	88	§ 22.0	§ 62.4	112.4	§ 82.4
Marion	5,864	10	267	512	779	§ 15.3	§ 40.6	§ 116.9	§ 71.1
Morrow	163	—	8	10	18	10.6	29.7	55.6	40.1
Multnomah	13,886	14	425	829	1,254	§ 12.9	§ 34.0	§ 99.6	§ 60.2
Polk	1,042	1	38	89	127	10.6	26.3	92.2	52.7
Sherman	18	*	*	*	*	*	*	*	*
Tillamook	300	—	9	30	39	8.4	20.3	101.7	52.8
Umatilla	1,131	3	61	110	171	§ 15.4	§ 40.3	§ 108.9	§ 67.7
Union	346	—	6	24	30	§ 4.2	§ 9.7	58.0	§ 29.0
Wallowa	67	*	*	*	*	*	*	*	*
Wasco	332	3	11	37	48	10.7	21.8	109.8	57.0
Washington	9,088	10	212	448	660	§ 7.6	§ 20.7	§ 65.5	§ 38.6
Wheeler	10	*	*	*	*	*	*	*	*
Yamhill	1,441	1	55	120	175	10.8	27.8	91.1	53.1

— Quantity is zero.
¹ All rates per 1,000 females.
² Total includes 22 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, 2008

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 ²	49,117	38	1,349	3,125	4,474	7.0	18.0	62.5	35.8
Baker	193	—	6	15	21	7.9	20.0	75.0	42.0
Benton	734	—	12	28	40	§ 2.7	§ 5.1	§ 17.7	§ 10.1
Clackamas	4,208	2	59	186	245	§ 2.9	§ 7.6	§ 36.0	§ 19.0
Clatsop	452	—	13	33	46	6.7	16.9	64.5	36.0
Columbia	553	—	22	47	69	8.0	20.6	66.1	38.8
Coos	660	—	16	75	91	5.0	13.1	§ 91.9	44.6
Crook	222	1	3	12	15	§ 2.5	§ 5.2	§ 31.2	§ 15.6
Curry	140	—	3	17	20	3.4	8.5	71.7	33.8
Deschutes	1,944	1	51	112	163	6.2	17.5	57.7	33.6
Douglas	1,147	1	37	109	146	7.2	18.8	83.2	44.6
Gilliam	16	—	—	1	1	—	—	45.5	18.2
Grant	62	—	—	6	6	—	—	60.6	24.2
Harney	75	—	—	5	5	—	—	46.7	18.7
Hood River	297	—	7	20	27	5.4	14.8	63.3	34.2
Jackson	2,444	3	74	184	258	7.1	17.7	65.9	37.0
Jefferson	377	—	25	49	74	§ 18.4	§ 50.2	§ 147.6	§ 89.2
Josephine	911	—	20	71	91	4.9	12.7	67.9	34.8
Klamath	846	—	42	90	132	§ 11.8	§ 31.8	§ 102.2	§ 59.9
Lake	75	—	1	9	10	2.8	6.8	91.8	40.8
Lane	3,784	1	95	259	354	5.5	§ 13.1	§ 53.5	§ 29.2
Lincoln	471	2	18	41	59	10.6	24.1	82.3	47.4
Linn	1,468	1	44	109	153	7.3	19.2	71.3	40.1
Malheur	542	—	40	48	88	§ 22.0	§ 62.4	§ 112.4	§ 82.4
Marion	5,013	6	192	390	582	§ 10.9	§ 29.2	§ 89.0	§ 53.1
Morrow	159	—	8	8	16	10.6	29.7	44.4	35.6
Multnomah	10,289	9	243	505	748	7.4	19.5	60.6	35.9
Polk	951	1	37	72	109	10.3	25.6	74.6	45.2
Sherman	17	—	2	—	2	19.4	48.8	—	29.4
Tillamook	263	—	7	26	33	6.5	15.8	88.1	44.7
Umatilla	1,112	3	61	105	166	§ 15.4	§ 40.3	§ 104.0	§ 65.8
Union	330	—	5	20	25	3.5	8.1	48.3	24.2
Wallowa	67	—	—	2	2	—	—	23.5	§ 9.4
Wasco	293	1	9	31	40	7.6	17.8	92.0	47.5
Washington	7,729	6	152	328	480	§ 5.4	§ 14.8	§ 47.9	§ 28.1
Wheeler	8	*	*	*	*	*	*	*	*
Yamhill	1,262	—	45	111	156	8.7	22.8	§ 84.3	§ 47.4

— Quantity is zero.

¹ All rates per 1,000 females.² Total includes three births where county of residence was unknown.

§ 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, 2008

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	9,373	26	582	1,008	1,590	3.1	7.8	20.1	12.7
Baker	4	*	*	*	*	*	*	*	*
Benton	125	—	1	19	20	§ 0.2	§ 0.4	§ 12.0	§ 5.1
Clackamas	892	—	70	107	177	3.3	9.0	20.7	13.7
Clatsop	69	2	5	9	14	3.6	6.5	17.6	10.9
Columbia	84	1	8	13	21	3.3	7.5	18.3	11.8
Coos	36	—	1	5	6	§ 0.3	§ 0.8	§ 6.1	§ 2.9
Crook	19	—	2	4	6	1.2	3.5	10.4	6.2
Curry	5	*	*	*	*	*	*	*	*
Deschutes	359	1	24	31	55	3.0	8.2	16.0	11.3
Douglas	58	—	5	7	12	§ 0.9	§ 2.5	§ 5.3	§ 3.7
Gilliam	2	*	*	*	*	*	*	*	*
Grant	4	*	*	*	*	*	*	*	*
Harney	6	*	*	*	*	*	*	*	*
Hood River	41	—	1	4	5	0.8	2.1	12.7	6.3
Jackson	439	—	40	62	102	3.7	9.5	22.2	14.6
Jefferson	37	2	3	1	4	3.7	6.0	§ 3.0	4.8
Josephine	117	—	11	12	23	2.7	7.0	11.5	8.8
Klamath	96	—	18	14	32	5.1	13.6	15.9	14.5
Lake	4	*	*	*	*	*	*	*	*
Lane	515	2	36	66	102	2.2	§ 5.0	§ 13.6	§ 8.4
Lincoln	83	1	5	6	11	3.2	6.7	12.0	8.8
Linn	153	1	17	28	45	2.9	7.4	18.3	11.8
Malheur	11	—	—	—	—	—	—	—	—
Marion	851	4	75	122	197	§ 4.4	§ 11.4	§ 27.8	§ 18.0
Morrow	4	*	*	*	*	*	*	*	*
Multnomah	3,597	5	182	324	506	§ 5.5	§ 14.6	38.9	§ 24.3
Polk	91	—	1	17	18	§ 0.3	§ 0.7	17.6	§ 7.5
Sherman	1	*	*	*	*	*	*	*	*
Tillamook	37	—	2	4	6	1.9	4.5	13.6	8.1
Umatilla	19	—	—	5	5	—	—	§ 5.0	§ 2.0
Union	16	—	1	4	5	0.7	1.6	9.7	§ 4.8
Wallowa	—	—	—	—	—	—	—	—	—
Wasco	39	2	2	6	8	3.1	4.0	17.8	9.5
Washington	1,359	4	60	120	180	§ 2.2	5.8	17.5	§ 10.5
Wheeler	2	*	*	*	*	*	*	*	*
Yamhill	179	1	10	9	19	2.1	5.1	§ 6.8	§ 5.8

— Quantity is zero.
¹ All rates per 1,000 females.
² Total includes 19 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, 2008

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	4,474	81	464	240	3,608	9	71
15-17	1,349	30	167	79	1,053	2	17
18-19	3,125	51	297	161	2,555	7	54
Non-Hispanic Single Mention Race							
White							
15-19	2,454	43	226	119	2,015	6	44
15-17	597	16	64	30	476	2	8
18-19	1,857	27	162	89	1,539	4	36
African American							
15-19	139	4	17	13	103	–	2
15-17	47	1	8	6	31	–	1
18-19	92	3	9	7	72	–	1
American Indian							
15-19	123	3	15	7	94	1	3
15-17	43	1	8	1	32	–	1
18-19	80	2	7	6	62	1	2
Asian							
15-19	33	2	3	1	27	–	–
15-17	8	–	1	1	6	–	–
18-19	25	2	2	–	21	–	–
Hawaiian/Pacific Islander							
15-19	18	1	10	1	6	–	–
15-17	3	–	3	–	–	–	–
18-19	15	1	7	1	6	–	–
Other/Unknown							
15-19	5	–	–	1	4	–	–
15-17	1	–	–	–	1	–	–
18-19	4	–	–	1	3	–	–
Multiple Races							
15-19	173	5	16	17	134	–	1
15-17	63	1	4	8	49	–	1
18-19	110	4	12	9	85	–	–
Hispanic Ethnicity							
Hispanic³							
15-19	1,528	23	177	81	1,224	2	21
15-17	587	11	79	33	458	–	6
18-19	941	12	98	48	766	2	15

– 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, 2008 (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	4,474	81	464	240	3,608	9	71
15-17	1,349	30	167	79	1,053	2	17
18-19	3,125	51	297	161	2,555	7	54
Multiple Mention Race and Ethnicity							
White							
15-19	3,711	64	358	196	3,021	7	64
15-17	1,080	24	122	63	854	2	14
18-19	2,631	40	236	133	2,167	5	50
African American							
15-19	215	8	23	20	161	—	3
15-17	77	3	10	8	54	—	2
18-19	138	5	13	12	107	—	1
American Indian							
15-19	262	6	31	16	205	1	3
15-17	99	3	14	6	75	—	1
18-19	163	3	17	10	130	1	2
Asian							
15-19	76	5	9	4	58	—	—
15-17	23	1	3	2	17	—	—
18-19	53	4	6	2	41	—	—
Hawaiian/Pacific Islander							
15-19	37	2	11	2	22	—	—
15-17	9	—	3	1	5	—	—
18-19	28	2	8	1	17	—	—
Other							
15-19	414	6	55	23	326	1	3
15-17	149	3	20	9	116	—	1
18-19	265	3	35	14	210	1	2
Unknown							
15-19	19	—	3	2	14	—	—
15-17	7	—	2	—	5	—	—
18-19	12	—	1	2	9	—	—
Hispanic³							
15-19	1,528	23	177	81	1,224	2	21
15-17	587	11	79	33	458	—	6
18-19	941	12	98	48	766	2	15

— Quantity is zero.

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

² Total includes 1 case with unknown birthweight and 1 case with 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, 2008

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 Births							
15-19	4,474	330	73.8	2,314	523.3	546	125.7
15-17	1,349	111	82.3	604	452.4	198	148.9
18-19	3,125	219	70.1	1,710	553.9	348	115.6
Non-Hispanic Single Mention Race							
White	2,454	168	68.5	1,401	578.9	270	114.5
15-17	597	48	80.5	315	534.8	81	138.0
Married	38	2	52.6	18	500.0	5	138.9
Unmarried	558	46	82.6	296	536.2	76	138.2
18-19	1,857	120	64.6	1,086	593.1	189	107.0
Married	337	15	44.5	211	633.6	31	96.1
Unmarried	1,517	105	69.2	875	584.9	158	109.5
African American	139	17	122.3	68	496.4	21	153.3
15-17	47	7	148.9	17	369.6	9	195.7
Married	—	—	—	—	—	—	—
Unmarried	47	7	148.9	17	369.6	9	195.7
18-19	92	10	108.7	51	560.4	12	131.9
Married	5	2	400.0	2	400.0	4	800.0
Unmarried	87	8	92.0	49	569.8	8	93.0
American Indian	123	11	89.4	56	462.8	18	151.3
15-17	43	2	46.5	13	302.3	9	214.3
Married	3	—	—	1	333.3	—	—
Unmarried	40	2	50.0	12	300.0	9	230.8
18-19	80	9	112.5	43	551.3	9	116.9
Married	14	1	71.4	9	642.9	2	142.9
Unmarried	66	8	121.2	34	531.2	7	111.1
Asian/Pacific Islander⁴	51	5	98.0	12	235.3	16	313.7
15-17	11	1	90.9	3	272.7	4	363.6
Married	1	—	—	1	1000.0	—	—
Unmarried	10	1	100.0	2	200.0	4	400.0
18-19	40	4	100.0	9	225.0	12	300.0
Married	9	—	—	2	222.2	—	—
Unmarried	31	4	129.0	7	225.8	12	387.1
Other/Multiple Races	178	23	129.2	79	446.3	21	118.6
15-17	64	9	140.6	27	428.6	5	79.4
Married	7	2	285.7	3	500.0	—	—
Unmarried	57	7	122.8	24	421.1	5	87.7
18-19	114	14	122.8	52	456.1	16	140.4
Married	15	1	66.7	7	466.7	2	133.3
Unmarried	99	13	131.3	45	454.5	14	141.4
Hispanic Ethnicity							
Hispanic⁵	1,528	106	69.4	697	460.1	200	133.5
15-17	587	44	75.0	229	392.8	90	154.9
Married	64	4	62.5	22	349.2	13	209.7
Unmarried	523	40	76.5	207	398.1	77	148.4
18-19	941	62	65.9	468	502.1	110	120.0
Married	245	16	65.3	118	483.6	25	106.6
Unmarried	694	46	66.3	349	508.7	85	125.2

— 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, 2008 (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 Births							
15-19	4,474	330	73.8	2,314	523.3	546	125.7
15-17	1,349	111	82.3	604	452.4	198	148.9
18-19	3,125	219	70.1	1,710	553.9	348	115.6
Multiple Mention Race/ Ethnicity							
White	3,711	267	72.0	1,970	537.7	423	117.7
15-17	1,080	89	82.5	502	470.0	147	138.2
Married	96	7	72.9	37	402.2	16	175.8
Unmarried	983	82	83.5	464	475.9	131	134.8
18-19	2,631	178	67.7	1,468	565.5	276	109.2
Married	535	26	48.6	308	581.1	49	94.3
Unmarried	2,091	152	72.7	1,159	562.1	227	113.3
African American	215	28	130.2	99	467.0	31	146.2
15-17	77	11	142.9	27	360.0	13	173.3
Married	1	—	—	—	—	—	—
Unmarried	76	11	144.7	27	360.0	13	173.3
18-19	138	17	123.2	72	525.5	18	131.4
Married	7	2	285.7	3	428.6	5	714.3
Unmarried	131	15	114.5	69	530.8	13	100.0
American Indian	262	23	87.8	126	484.6	37	143.4
15-17	99	9	90.9	39	393.9	17	173.5
Married	10	2	200.0	4	400.0	—	—
Unmarried	89	7	78.7	35	393.3	17	193.2
18-19	163	14	85.9	87	540.4	20	125.0
Married	27	2	74.1	16	592.6	2	74.1
Unmarried	136	12	88.2	71	529.9	18	135.3
Asian/Pacific Islander⁴	104	12	115.4	31	298.1	26	250.0
15-17	30	4	133.3	8	266.7	7	233.3
Married	2	—	—	1	500.0	—	—
Unmarried	28	4	142.9	7	250.0	7	250.0
18-19	74	8	108.1	23	310.8	19	256.8
Married	15	1	66.7	3	200.0	3	200.0
Unmarried	59	7	118.6	20	339.0	16	271.2
Other/Unknown	433	32	73.9	206	476.9	64	151.2
15-17	156	12	76.9	66	425.8	25	161.3
Married	13	1	76.9	6	461.5	2	153.8
Unmarried	143	11	76.9	60	422.5	23	162.0
18-19	277	20	72.2	140	505.4	39	145.5
Married	64	8	125.0	28	437.5	9	156.2
Unmarried	212	12	56.6	111	523.6	30	142.9
Hispanic⁵	1,528	106	69.4	697	460.1	200	133.5
15-17	587	44	75.0	229	392.8	90	154.9
Married	64	4	62.5	22	349.2	13	209.7
Unmarried	523	40	76.5	207	398.1	77	148.4
18-19	941	62	65.9	468	502.1	110	120.0
Married	245	16	65.3	118	483.6	25	106.6
Unmarried	694	46	66.3	349	508.7	85	125.2

— 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, 2008

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	4,474	35.8	330	73.8	2,314	523.3	546	124.3
Baker	21	42.0	4	190.5	12	571.4	3	142.9
Benton	40	§ 10.1	2	50.0	24	600.0	4	100.0
Clackamas	245	§ 19.0	19	77.6	138	592.3	19	82.3
Clatsop	46	36.0	3	65.2	22	488.9	3	66.7
Columbia	69	38.8	2	29.0	41	602.9	11	161.8
Coos	91	44.6	9	98.9	62	681.3	16	177.8
Crook	15	§ 15.6	—	—	7	500.0	3	214.3
Curry	20	33.8	3	150.0	7	388.9	5	294.1
Deschutes	163	33.6	15	92.0	97	595.1	13	79.8
Douglas	146	§ 44.6	9	61.6	99	§ 682.8	11	75.9
Gilliam	1	18.2	*	*	*	*	*	*
Grant	6	24.2	*	*	*	*	*	*
Harney	5	18.7	*	*	*	*	*	*
Hood River	27	34.2	—	—	17	629.6	—	—
Jackson	258	37.0	12	46.5	135	525.3	28	110.2
Jefferson	74	§ 89.2	6	81.1	32	438.4	13	178.1
Josephine	91	34.8	5	54.9	50	549.5	7	76.9
Klamath	132	§ 59.9	10	75.8	84	636.4	14	106.1
Lake	10	40.8	*	*	*	*	*	*
Lane	354	§ 29.2	27	76.3	212	602.3	40	114.6
Lincoln	59	47.4	5	84.7	29	500.0	5	87.7
Linn	153	40.1	9	58.8	83	553.3	17	114.1
Malheur	88	§ 82.4	4	45.5	31	352.3	14	159.1
Marion	582	§ 53.1	47	80.8	235	§ 406.6	81	140.6
Morrow	16	35.6	1	62.5	8	500.0	4	250.0
Multnomah	748	35.9	65	87.0	355	477.2	132	§ 178.4
Polk	109	§ 45.2	9	82.6	62	568.8	8	73.4
Sherman	2	29.4	*	*	*	*	*	*
Tillamook	33	§ 44.7	5	151.5	17	531.2	2	62.5
Umatilla	166	65.8	18	108.4	66	404.9	30	185.2
Union	25	24.2	1	40.0	13	520.0	4	160.0
Wallowa	2	§ 9.4	*	*	*	*	*	*
Wasco	40	47.5	3	75.0	30	789.5	—	—
Washington	480	§ 28.1	29	60.4	235	498.9	43	93.1
Wheeler	1	23.3	*	*	*	*	*	*
Yamhill	156	§ 47.4	8	51.3	97	625.8	11	71.0

— 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.

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

TABLE 4-9. Birth Outcomes of Infants by Age of Mother, Oregon Residents, 2008

Birth Outcomes	Total Births	Mother's Age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total Births	49,117	38	144	466	739	1,233	1,892	4,474	44,600	5
Birthweight¹										
1499 Grams or Less										
<28 Weeks	215	1	1	2	6	13	9	31	183	-
28-36 Weeks	276	-	2	4	7	4	12	29	247	-
37-41 Weeks	9	-	-	-	-	1	-	1	8	-
42+ Weeks	-	-	-	-	-	-	-	-	-	-
Unknown	1	-	-	-	-	1	-	1	-	-
1500-2499 Grams										
<28 Weeks	-	-	-	-	-	-	-	-	-	-
28-36 Weeks	1,555	1	6	24	23	44	73	170	1,384	-
37-41 Weeks	921	-	3	11	22	30	31	97	824	-
42+ Weeks	-	-	-	-	-	-	-	-	-	-
Unknown	3	-	-	-	-	-	1	1	2	-
2500+ Grams										
<28 Weeks	-	-	-	-	-	-	-	-	-	-
28-36 Weeks	1,829	2	2	23	17	36	54	132	1,695	-
37-41 Weeks	43,747	34	128	399	663	1,088	1,692	3,970	39,739	4
42+ Weeks	521	-	1	2	1	13	19	36	485	-
Unknown	32	-	1	-	-	3	1	5	27	-
5 Minute Apgar										
0-3	327	1	2	4	7	17	11	41	285	-
4-6	1,134	2	6	10	24	34	53	127	1,005	-
7-10	47,544	35	136	450	708	1,179	1,826	4,299	43,206	4
Not Stated	112	-	-	2	-	3	2	7	104	1
Tobacco Used										
Yes	5,751	2	12	63	138	246	401	860	4,889	-
No	42,820	36	130	396	594	979	1,470	3,569	39,213	2
Unknown	546	-	2	7	7	8	21	45	498	3
Alcohol Used										
Yes	75	-	-	-	-	3	-	3	72	-
No	9,880	7	30	85	121	254	375	865	9,008	-
Not Reported ²	37,437	31	109	364	593	929	1,454	3,449	33,953	4
Unknown	1,725	-	5	17	25	47	63	157	1,567	1
Birth Order										
1 st	20,348	38	144	451	656	1,045	1,471	3,767	16,540	3
2 nd	15,451	-	-	15	78	166	352	611	14,840	-
3 rd	7,764	-	-	-	4	19	61	84	7,678	2
4 th	3,361	-	-	-	1	2	8	11	3,350	-
5+	2,193	-	-	-	-	1	-	1	2,192	-
Prenatal Care										
No Care	512	-	4	9	13	18	25	69	442	1
Little or Late ³	2,837	10	25	66	81	125	180	477	2,350	-
Adequate ⁴	44,761	27	113	384	635	1,070	1,646	3,848	40,884	2
Unknown	1,007	1	2	7	10	20	41	80	924	2

- Quantity is zero.

1 The birthweight was unknown for eight infants.

2 Due to changes in the collection of data, 'Alcohol Use' was not reported for the majority of births.

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 5 visits to a medical provider.

TABLE 4-10. Demographic Characteristics of Mother by Age, Oregon Residents, 2008

Demographics of Mother	Total Births	Mother's Age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total Births	49,117	38	144	466	739	1,233	1,892	4,474	44,600	5
Ethnicity/Race¹										
White	33,271	11	57	185	355	703	1,154	2,454	30,804	2
African American	1,034	4	6	20	21	43	49	139	891	–
American Indian	663	–	8	10	25	30	50	123	540	–
Asian	2,161	1	2	3	3	6	19	33	2,127	–
Native Hawaiian/Pacific Islander	333	–	–	–	3	8	7	18	315	–
Other and Multiple Races ²	1,280	1	6	21	37	58	56	178	1,099	2
Total Hispanic	10,366	21	65	227	295	385	556	1,528	8,816	1
Marital Status										
Unmarried	17,686	38	144	437	654	1,044	1,451	3,730	13,918	–
Married	31,342	–	–	29	84	186	439	738	30,601	3
Unknown	89	–	–	–	1	3	2	6	81	2
Education										
8th grade or less	2,960	30	26	31	55	41	88	241	2,689	–
Some high school	7,386	7	116	408	528	570	639	2,261	5,117	1
High school graduate/GED	12,151	1	–	24	138	541	876	1,579	10,571	–
Some college	11,028	–	–	–	15	74	274	363	10,665	–
Associate's Degree	3,176	–	–	–	–	2	11	13	3,163	–
Bachelor's Degree	7,928	–	–	–	–	–	–	–	7,927	1
Postbaccalaureate	4,202	–	–	–	–	–	–	–	4,202	–
Unknown	286	–	2	3	3	5	4	17	266	3
Other Children Now Alive										
One	15,579	–	–	15	76	164	355	610	14,969	–
Two	7,746	–	–	–	4	18	56	78	7,666	2
Three	3,314	–	–	–	1	2	6	9	3,305	–
Four+	2,055	–	–	–	–	–	–	–	2,055	–
Unknown	130	–	1	–	2	4	4	11	116	3
Start of Prenatal Care										
1 st Trimester	34,143	8	56	200	348	661	1,049	2,314	31,820	1
2 nd Trimester	11,758	20	60	197	308	451	647	1,663	10,074	1
3 rd Trimester	2,199	9	22	55	63	88	148	376	1,814	–
No Care	512	–	4	9	13	18	25	69	442	1
Prenatal Care										
Inadequate ³	3,349	10	29	75	94	143	205	546	2,792	1
Adequate ⁴	44,761	27	113	384	635	1,070	1,646	3,848	40,884	2
Unknown	1,007	1	2	7	10	20	41	80	924	2
Source of Payment										
Medicaid/OHP*	19,993	28	105	326	526	917	1,397	3,271	16,693	1
Private Insurance	26,204	8	27	106	163	252	374	922	25,273	1
Self-Pay	1,553	1	7	23	28	35	50	143	1,408	1
Other Coverage	1,115	–	4	10	21	26	60	121	994	–
Unknown Mention	252	1	1	1	1	3	11	17	232	2

– 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, 2008 (revised)**

Demographics of Patient	Total ¹	Patient's Age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total Abortions	9,373	26	93	196	293	460	548	1,590	7,714	43
Ethnicity/Race										
Non-Hispanic White	6,793	18	59	133	203	351	404	1,150	5,596	29
Non-Hispanic African American	643	5	12	11	18	45	51	137	498	3
Non-Hispanic American Indian	205	1	4	5	7	14	17	47	157	–
Non-Hispanic Asian ²	269	–	1	5	6	8	8	28	240	1
Total Hispanic	1,150	3	19	35	54	45	65	218	923	6
Marital Status										
Unmarried	7,298	25	93	189	277	433	510	1,502	5,743	28
Married	1,727	–	–	2	5	9	18	34	1,686	7
Unknown	348	1	–	5	11	18	20	54	285	8
Education										
8 th Grade or Less	264	19	13	7	4	5	7	36	209	–
9 th Grade	229	6	47	48	6	10	5	116	105	2
10 th Grade	442	1	28	99	57	23	26	233	205	3
11 th Grade	701	–	1	31	150	84	69	335	363	3
12 th Grade	3,730	–	3	11	70	284	296	664	3,049	17
Some College	2,413	–	–	–	3	49	141	193	2,208	12
College/Postbaccalaureate	1,525	–	–	–	–	–	2	2	1,518	5
Unknown	69	–	1	–	3	5	2	11	57	1
Children Now Alive										
One	2,151	1	1	8	30	57	116	212	1,932	6
Two	1,609	–	–	–	1	5	29	35	1,565	9
Three	656	–	–	–	–	–	4	4	650	2
Four+	319	–	–	–	–	–	1	1	317	1
Unknown	43	–	1	–	1	1	2	5	37	1
Previous Abortions										
None	5,339	26	89	178	258	395	418	1,338	3,946	29
One	2,271	–	3	15	23	50	94	185	2,078	8
Two	942	–	–	1	10	7	20	38	902	2
Three+	723	–	–	–	1	5	10	16	704	3
Unknown	98	–	1	2	1	3	6	13	84	1
Gestation										
Eight Weeks or Less	5,941	10	48	107	162	246	324	887	5,013	31
9-12	2,284	9	33	54	87	142	153	469	1,801	5
13-16	609	6	4	15	30	44	44	137	462	4
17+	381	–	5	15	9	21	20	70	310	1
Unknown	158	1	3	5	5	7	7	27	128	2
Contraceptive Used (revised)										
None Used	6,148	22	75	150	217	324	389	1,155	4,938	33
Pills Used	1,039	1	7	10	28	42	62	149	888	1
Condom Used	1,610	3	11	30	41	77	85	244	1,356	7
Other	593	–	3	5	8	18	13	47	544	2
Medical Procedure										
Suction Curettage	4,863	12	52	108	157	244	311	872	3,956	23
Dilation & Evacuation	2,580	12	30	53	86	134	141	444	2,119	5
Medical (non-surgical)	1,881	2	11	34	47	79	90	261	1,604	14
Other Specified	29	–	–	–	2	2	4	8	21	–

– 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, 2008

Father's Age	Total	Mother's Age								
		<15	15	16	17	18	19	20-24	25+	N.S.
Total	49,117	38	144	466	739	1,233	1,892	11,986	32,614	5
<15	7	—	2	4	1	—	—	—	—	—
15	27	—	10	11	4	1	1	—	—	—
16	106	3	11	42	28	16	5	1	—	—
17	255	3	25	64	78	41	31	12	1	—
18	498	1	19	81	120	129	80	56	12	—
19	800	—	3	54	97	199	213	202	32	—
20	1,057	3	3	22	79	177	250	475	48	—
21	1,266	—	2	16	56	114	215	767	96	—
22	1,527	—	—	8	27	82	200	1,028	182	—
23	1,763	1	—	10	14	67	137	1,218	316	—
24	1,919	—	1	6	11	47	96	1,228	530	—
25+	35,441	—	—	9	54	105	344	5,508	29,419	2
N.S.	4,451	27	68	139	170	255	320	1,491	1,978	3

— Quantity is zero.

TABLE 4-13. Age of Father by Age of Mother, Oregon Residents, 2004-2008

Father's Age	Total	Mother's Age								
		<15	15	16	17	18	19	20-24	25+	N.S.
Total	238,739	240	746	1,983	3,475	5,819	9,014	59,834	157,596	32
<15	22	2	9	6	3	—	—	1	1	—
15	106	11	32	42	16	2	2	1	—	—
16	383	23	54	139	95	43	17	10	2	—
17	927	10	109	217	258	174	107	46	6	—
18	1,974	6	65	276	444	509	355	279	40	—
19	3,485	4	39	216	447	811	882	954	132	—
20	4,779	5	25	121	358	741	1,136	2,152	241	—
21	6,066	3	13	74	277	582	1,069	3,580	468	—
22	7,494	—	7	51	155	474	924	4,999	884	—
23	8,507	2	2	35	126	337	663	5,844	1,498	—
24	9,735	1	6	30	90	225	545	6,307	2,531	—
25+	172,052	1	9	68	220	613	1,657	27,616	141,865	3
N.S.	23,209	172	376	708	986	1,308	1,657	8,045	9,928	29

— 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, 1995-2008

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	108,966	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	115,314	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	59,732	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
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

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-1. Population Distribution by Age and Sex, Oregon, 1950, 1960, 1970, 1975, 1980, 1985, 1990, 1995-2008

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+
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	118,983	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

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, 2008

County	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	3,791,075	234,168	242,401	253,790	154,004	102,669	259,359	262,454	258,656	259,537	260,859	272,087	277,102	259,397	206,048	147,484	109,384	87,641	70,132	73,902
BAKER	16,455	825	842	976	629	419	798	782	808	1,002	1,075	1,218	1,359	1,277	1,101	924	773	629	477	541
BENTON	86,120	3,965	4,203	4,741	4,935	3,290	12,478	6,312	5,750	5,232	4,989	5,393	5,827	5,533	4,122	2,686	2,002	1,680	1,333	1,651
CLACKAMAS	376,660	23,002	23,869	27,039	15,943	10,629	25,190	25,464	23,811	24,399	26,013	28,577	29,680	27,484	21,509	14,623	9,758	7,348	5,934	6,390
CLATSOP	37,695	1,991	2,114	2,382	1,604	1,069	2,466	2,281	2,095	2,057	2,317	2,775	3,143	3,094	2,441	1,736	1,367	1,076	854	833
COLUMBIA	48,095	2,865	2,962	3,515	2,189	1,459	3,001	2,578	2,556	2,995	3,413	3,781	3,939	3,694	2,927	2,089	1,460	1,090	820	762
COOS	63,210	2,925	3,251	3,848	2,519	1,679	3,350	3,254	3,071	3,298	3,788	4,667	5,179	5,215	4,590	3,788	2,994	2,395	1,754	1,647
CROOK	26,845	1,664	1,642	2,017	1,172	782	1,729	1,781	1,638	1,638	1,634	1,767	1,896	1,845	1,643	1,240	1,006	757	531	461
CURRY	21,510	827	871	1,085	713	475	933	865	764	837	1,094	1,510	1,726	1,806	1,791	1,700	1,500	1,191	994	889
DESCHUTES	167,015	9,518	9,909	10,951	6,063	4,042	9,525	10,969	11,155	11,492	11,614	12,757	13,187	12,599	10,601	7,724	5,319	3,888	2,888	2,812
DOUGLAS	105,240	5,644	5,912	6,776	4,114	2,743	6,207	6,158	5,454	5,611	6,258	7,347	8,163	8,119	7,023	5,600	4,629	3,875	2,964	2,642
GILLIAM	1,885	82	97	111	75	50	91	93	86	99	118	148	170	153	122	101	89	73	64	63
GRANT	7,530	392	387	495	327	218	360	410	348	387	456	575	637	625	538	427	334	250	173	193
HARNEY	7,705	408	428	492	340	227	454	381	347	399	501	631	658	599	499	405	334	253	175	173
HOOD RIVER	21,625	1,504	1,549	1,555	930	620	1,275	1,294	1,351	1,496	1,527	1,645	1,682	1,432	1,050	748	580	489	397	499
JACKSON	205,305	12,123	12,167	13,535	8,407	5,605	13,874	12,851	12,125	11,940	12,540	14,154	15,252	15,165	12,729	9,449	7,231	6,110	4,933	5,116
JEFFERSON	22,450	1,663	1,675	1,759	1,020	680	1,364	1,342	1,312	1,386	1,464	1,516	1,451	1,421	1,260	1,076	830	575	359	296
JOSEPHINE	83,290	4,277	4,375	5,165	3,299	2,200	4,594	4,416	4,010	4,261	4,857	5,698	6,487	6,752	6,093	4,842	3,812	3,214	2,507	2,453
KLAMATH	66,180	4,150	4,324	4,629	2,845	1,897	4,379	4,121	3,928	3,974	4,111	4,508	4,628	4,640	4,003	3,045	2,435	1,939	1,410	1,215
LAKE	7,585	391	395	458	316	211	373	410	381	411	448	559	646	618	522	433	346	277	204	185
LANE	345,880	18,348	19,427	21,151	14,719	9,813	30,029	24,039	22,871	22,147	21,959	23,559	25,127	24,875	19,712	14,015	10,608	8,738	7,232	7,511
LINCOLN	44,715	2,069	2,209	2,486	1,556	1,037	2,230	2,155	2,223	2,464	2,795	3,254	3,743	4,024	3,455	2,635	2,195	1,794	1,281	1,109
LINN	110,185	7,145	7,345	7,902	4,648	3,099	6,750	6,898	6,593	6,775	7,126	7,661	7,858	7,526	6,396	4,877	3,643	2,969	2,411	2,564
MALHEUR	31,675	1,962	2,292	2,373	1,344	896	1,972	2,258	2,271	2,099	2,160	2,154	2,085	1,901	1,531	1,217	941	794	649	779
MARION	314,865	22,392	23,215	23,317	13,449	8,966	22,497	23,865	22,182	21,251	21,029	21,114	20,604	18,758	15,085	10,946	8,212	6,675	5,491	5,816
MORROW	12,485	948	928	1,066	561	374	816	847	800	804	798	898	890	781	612	457	344	254	167	141
MULTNOMAH	717,880	44,858	45,813	43,472	25,412	16,941	46,962	56,272	59,912	59,775	55,569	53,736	52,815	47,476	34,459	22,521	16,137	13,004	10,986	11,761
POLK	68,235	4,278	4,202	4,544	3,064	2,042	5,606	5,116	4,324	3,719	3,975	4,338	4,713	4,650	3,719	2,678	2,067	1,763	1,448	1,989
SHERMAN	1,845	79	90	119	80	53	102	69	63	78	108	154	164	153	128	103	84	80	70	67
TILLAMOOK	26,060	1,141	1,245	1,447	961	640	1,375	1,563	1,301	1,261	1,510	1,847	2,135	2,206	2,001	1,657	1,282	1,027	756	704
UMATILLA	72,380	4,789	5,005	5,441	3,167	2,111	4,798	4,965	4,621	4,709	4,920	5,125	5,085	4,652	3,626	2,703	2,097	1,682	1,409	1,473
UNION	25,360	1,544	1,624	1,638	1,244	829	2,442	1,513	1,368	1,341	1,361	1,526	1,761	1,777	1,463	1,126	907	711	532	651
WALLOWA	7,115	317	323	414	286	190	409	352	278	308	351	499	642	702	544	413	333	285	221	249
WASCO	24,170	1,490	1,565	1,729	1,007	671	1,303	1,358	1,310	1,330	1,470	1,694	1,854	1,863	1,557	1,134	907	745	601	590
WASHINGTON	519,925	38,419	39,833	38,500	20,948	13,965	32,517	37,791	40,749	42,372	40,893	38,364	35,169	30,123	22,533	14,982	10,376	7,975	6,526	7,890
WHEELER	1,575	64	66	86	63	42	43	56	57	75	101	113	114	125	123	130	106	88	65	58
YAMHILL	94,325	6,109	6,247	6,578	4,057	2,704	7,068	7,574	6,741	6,115	6,516	6,824	6,633	5,744	4,538	3,257	2,344	1,945	1,581	1,748

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, 2008 (Continued)

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	1,890,189	120,054	124,243	129,545	78,950	52,633	132,637	134,635	133,035	134,056	133,088	135,603	136,260	128,042	101,457	71,392	51,441	38,824	28,619	25,676
BAKER	8,226	423	436	513	329	219	417	418	411	502	525	577	690	653	532	468	380	322	217	196
BENTON	42,619	2,035	2,154	2,372	2,565	1,710	6,106	3,392	3,144	2,666	2,389	2,494	2,771	2,763	2,017	1,269	929	731	544	569
CLACKAMAS	186,561	11,791	12,195	13,867	8,203	5,469	13,095	13,278	11,980	12,037	12,709	13,930	14,357	13,364	10,780	7,260	4,638	3,202	2,334	2,071
CLATSOP	18,725	1,022	1,099	1,218	837	558	1,324	1,232	1,066	1,010	1,135	1,340	1,507	1,546	1,229	820	648	481	353	302
COLUMBIA	24,199	1,469	1,536	1,827	1,122	748	1,546	1,256	1,208	1,425	1,664	1,872	2,042	1,896	1,499	1,119	788	534	366	283
COOS	30,924	1,499	1,639	1,897	1,295	863	1,729	1,675	1,571	1,688	1,888	2,224	2,416	2,493	2,176	1,818	1,483	1,141	792	637
CROOK	13,475	854	809	989	596	398	956	960	813	802	791	858	936	921	825	655	512	372	254	173
CURRY	10,502	424	455	553	358	239	465	416	365	411	559	699	827	854	793	802	769	624	478	410
DESCHUTES	83,506	4,876	4,963	5,466	3,153	2,102	5,032	5,670	5,840	5,864	5,716	6,132	6,284	6,216	5,203	3,890	2,705	1,915	1,327	1,151
DOUGLAS	51,770	2,893	3,030	3,476	2,149	1,433	3,205	3,095	2,690	2,701	2,937	3,473	3,921	4,039	3,502	2,687	2,243	1,864	1,368	1,066
GILLIAM	966	42	59	72	42	28	50	49	36	47	59	78	84	83	64	44	44	34	28	26
GRANT	3,765	201	190	254	177	118	190	209	145	166	226	272	321	334	290	215	164	130	81	82
HARNEY	3,967	209	240	279	180	120	249	202	156	180	269	338	355	306	262	210	151	120	81	63
HOOD RIVER	10,851	771	785	744	455	304	627	709	720	760	803	836	865	757	540	365	269	221	152	168
JACKSON	99,729	6,219	6,278	6,921	4,219	2,812	6,980	6,289	5,850	5,781	5,995	6,609	7,205	7,470	6,227	4,601	3,477	2,785	2,094	1,917
JEFFERSON	11,402	853	827	898	523	348	718	707	633	702	765	794	719	712	623	519	437	307	182	134
JOSEPHINE	40,491	2,193	2,239	2,683	1,730	1,153	2,388	2,196	1,904	2,048	2,288	2,645	3,051	3,196	2,873	2,314	1,874	1,581	1,155	981
KLAMATH	33,323	2,127	2,220	2,405	1,523	1,016	2,374	2,187	1,991	1,945	1,982	2,203	2,226	2,309	2,049	1,533	1,218	908	625	481
LAKE	3,834	201	218	242	169	113	189	198	181	189	217	266	313	322	279	225	181	140	112	79
LANE	170,249	9,406	9,959	10,826	7,451	4,967	14,842	12,194	11,935	11,421	10,946	11,380	12,021	12,225	9,686	6,777	4,953	3,754	2,844	2,663
LINCOLN	21,547	1,062	1,203	1,354	809	539	1,137	1,151	1,154	1,224	1,334	1,487	1,710	1,862	1,560	1,196	989	809	547	418
LINN	54,417	3,663	3,741	4,047	2,356	1,571	3,463	3,513	3,254	3,406	3,520	3,776	3,943	3,688	3,149	2,358	1,692	1,336	1,009	934
MALHEUR	17,851	1,006	1,140	1,197	703	469	1,037	1,419	1,518	1,393	1,399	1,375	1,262	1,062	820	648	461	374	288	282
MARION	160,762	11,481	11,922	11,799	6,878	4,585	11,973	12,947	12,258	11,765	11,513	11,053	10,266	9,257	7,319	5,140	3,676	2,782	2,150	1,998
MORROW	6,532	486	476	579	292	194	427	454	427	403	392	481	468	414	318	241	192	146	85	58
MULTNOMAH	357,487	22,996	23,473	22,037	12,922	8,615	23,585	27,795	30,131	31,291	29,280	27,803	26,650	23,693	17,086	10,574	7,057	5,190	3,910	3,399
POLK	33,122	2,193	2,153	2,312	1,617	1,078	2,873	2,439	2,087	1,835	1,894	2,049	2,212	2,246	1,849	1,323	955	752	602	655
SHERMAN	945	41	42	58	39	26	54	37	33	46	46	83	85	81	65	53	49	45	36	36
TILLAMOOK	13,356	585	666	819	518	345	737	905	726	669	811	939	1,060	1,073	937	796	623	508	374	265
UMATILLA	37,848	2,455	2,546	2,802	1,653	1,102	2,534	2,792	2,555	2,547	2,707	2,797	2,727	2,455	1,917	1,392	986	754	582	545
UNION	12,309	791	821	822	623	415	1,226	744	658	675	609	671	848	877	725	576	437	337	240	213
WALLOWA	3,634	163	184	239	159	106	208	192	133	135	155	228	316	380	284	218	171	146	108	111
WASCO	12,003	765	822	925	502	334	654	699	649	652	710	811	946	936	778	580	425	309	266	239
WASHINGTON	259,978	19,696	20,541	19,617	10,686	7,124	16,659	19,362	21,055	22,242	21,243	19,337	17,342	14,518	10,801	7,019	4,702	3,270	2,356	2,410
WHEELER	795	33	35	52	37	25	24	21	25	36	46	51	50	60	68	70	48	48	37	28
YAMHILL	48,518	3,132	3,147	3,387	2,081	1,387	3,564	3,833	3,733	3,401	3,568	3,643	3,466	2,983	2,332	1,620	1,115	850	643	633

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, 2008 (Continued)

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	1,900,886	114,115	118,158	124,246	75,054	50,036	126,722	127,819	125,621	125,482	127,771	136,485	140,842	131,355	104,591	76,092	57,943	48,816	41,513	48,226
BAKER	8,229	402	406	463	300	200	381	364	397	501	550	641	670	624	569	456	393	307	260	345
BENTON	43,501	1,930	2,049	2,368	2,370	1,580	6,372	2,919	2,605	2,567	2,600	2,899	3,057	2,770	2,105	1,417	1,073	949	789	1,083
CLACKAMAS	190,099	11,210	11,674	13,172	7,740	5,160	12,094	12,186	11,831	12,362	13,303	14,647	15,323	14,120	10,729	7,363	5,120	4,146	3,600	4,319
CLATSOP	18,970	970	1,015	1,165	767	512	1,141	1,049	1,029	1,047	1,183	1,435	1,637	1,547	1,211	916	719	595	501	531
COLUMBIA	23,896	1,396	1,426	1,687	1,066	711	1,455	1,322	1,348	1,570	1,749	1,910	1,897	1,798	1,429	969	673	556	454	479
COOS	32,286	1,426	1,612	1,951	1,224	816	1,621	1,579	1,499	1,610	1,901	2,443	2,763	2,722	2,414	1,970	1,510	1,254	961	1,011
CROOK	13,370	810	833	1,028	576	384	773	822	826	836	843	909	961	924	819	585	494	385	277	288
CURRY	11,008	403	416	532	355	237	468	449	399	426	535	811	899	952	997	898	730	567	456	479
DESCHUTES	83,509	4,642	4,946	5,485	2,910	1,940	4,493	5,299	5,315	5,628	5,898	6,626	6,902	6,383	5,398	3,834	2,614	1,973	1,561	1,661
DOUGLAS	53,470	2,751	2,882	3,300	1,965	1,310	3,003	3,063	2,764	2,911	3,321	3,873	4,242	4,080	3,522	2,913	2,387	2,012	1,596	1,576
GILLIAM	919	40	38	39	33	22	41	44	51	52	59	70	86	70	58	57	45	39	36	37
GRANT	3,765	191	197	241	149	99	170	201	203	221	230	303	316	290	248	212	169	120	92	111
HARNEY	3,738	199	188	214	160	107	205	179	191	219	233	293	303	293	237	196	184	134	94	110
HOOD RIVER	10,774	733	764	812	474	316	647	585	632	737	724	810	817	675	510	383	311	268	245	331
JACKSON	105,576	5,904	5,889	6,614	4,189	2,792	6,894	6,562	6,275	6,159	6,545	7,546	8,047	7,695	6,502	4,848	3,754	3,325	2,838	3,199
JEFFERSON	11,048	810	848	861	498	332	646	635	679	684	699	722	733	709	637	556	393	268	176	162
JOSEPHINE	42,799	2,084	2,136	2,482	1,570	1,046	2,205	2,220	2,106	2,213	2,569	3,053	3,435	3,556	3,220	2,528	1,938	1,633	1,352	1,452
KLAMATH	32,857	2,023	2,103	2,224	1,322	881	2,005	1,933	1,937	2,029	2,128	2,305	2,402	2,331	1,954	1,512	1,217	1,031	785	734
LAKE	3,751	190	176	216	147	98	184	212	200	222	231	294	332	296	244	208	165	137	93	106
LANE	175,631	8,942	9,468	10,325	7,268	4,845	15,187	11,845	10,937	10,726	11,013	12,179	13,106	12,651	10,026	7,238	5,656	4,963	4,388	4,848
LINCOLN	23,168	1,008	1,006	1,131	747	498	1,093	1,004	1,070	1,240	1,461	1,768	2,033	2,162	1,895	1,439	1,205	984	734	691
LINN	55,768	3,482	3,603	3,855	2,292	1,528	3,287	3,384	3,339	3,369	3,607	3,885	3,915	3,837	3,247	2,519	1,951	1,633	1,403	1,630
MALHEUR	13,824	956	1,152	1,176	641	427	934	839	753	706	760	779	823	839	711	569	480	420	361	497
MARION	154,103	10,911	11,293	11,518	6,571	4,381	10,524	10,918	9,924	9,486	9,516	10,060	10,338	9,502	7,765	5,807	4,536	3,893	3,341	3,818
MORROW	5,953	463	453	487	269	180	389	393	372	401	406	417	422	366	293	216	151	108	81	84
MULTNOMAH	360,393	21,862	22,340	21,435	12,490	8,327	23,377	28,476	29,781	28,484	26,289	25,933	26,164	23,783	17,373	11,948	9,080	7,814	7,075	8,362
POLK	35,113	2,085	2,049	2,232	1,447	965	2,733	2,677	2,237	1,884	2,081	2,289	2,502	2,405	1,870	1,355	1,112	1,011	846	1,334
SHERMAN	900	39	47	62	41	27	49	32	30	41	63	71	79	72	64	50	35	35	34	31
TILLAMOOK	12,704	555	580	629	443	295	638	658	575	591	700	908	1,075	1,133	1,065	860	659	519	382	439
UMATILLA	34,532	2,334	2,460	2,639	1,514	1,010	2,264	2,174	2,067	2,162	2,213	2,328	2,358	2,197	1,709	1,311	1,111	928	827	928
UNION	13,051	753	803	816	621	414	1,216	788	710	666	752	855	914	900	738	551	469	374	293	438
WALLOWA	3,481	154	138	175	127	85	202	161	145	172	196	271	325	322	260	195	163	138	113	138
WASCO	12,167	726	743	804	505	337	649	659	661	678	760	883	908	917	779	555	482	436	335	351
WASHINGTON	259,947	18,724	19,291	18,883	10,263	6,842	15,858	18,430	19,694	20,130	19,650	19,027	17,827	15,605	11,732	7,963	5,674	4,706	4,170	5,480
WHEELER	780	31	32	34	26	17	19	35	32	39	55	62	64	65	56	60	58	39	28	30
YAMHILL	45,807	2,978	3,100	3,191	1,976	1,317	3,504	3,741	3,008	2,714	2,948	3,181	3,167	2,762	2,206	1,638	1,229	1,095	938	1,115

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, the National Center for Health Statistics (NCHS) method of distributing births where age of father was not stated in the same proportion as births where age of father was stated within each 5-year age interval of mother was used to facilitate national comparisons. NCHS uses this procedure to avoid distortion in rates that would result if the relationship between age of mother and age of father were disregarded.

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:

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

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 that 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 that 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, 1990		
Race/Ethnicity	Birth Rate ¹	
	U.S.	Oregon
TOTAL*	59.9	54.8
Non-hispanic whites	42.5	50.6

¹ All rates per 1,000 females.
* 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 number of people
who could have died

a number chosen by vital
statisticians to improve the
ease of comparison

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

The overall rate of 8.1 is 2.5 times higher than the state rate for the same time period (5.6). Yet, for some years the rate is 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:

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

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.

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.

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.

	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

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 Statistics 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.

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APPENDIX D: SAMPLE FORMS

Appendix D: Sample forms

OREGON DEPARTMENT OF HUMAN SERVICES CENTER FOR HEALTH STATISTICS

136-

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

		Local File Number		State File Number	
CHILD	1. CHILD — NAME	First	Middle	Last	2. SEX
	3a. TIME OF BIRTH	4a. FACILITY — NAME (If not in hospital or clinic, give address)			4b. CITY, TOWN OR LOCATION OF BIRTH
CERTIFIER	5a. I certify that this child was born alive at the place and time and on the date stated above.	5b. DATE SIGNED (Month, Day, Year)			5c. CERTIFIER — NAME AND TITLE (Type or print)
	SIGNATURE				
MOTHER	5d. NAME AND TITLE OF ATTENDANT AT BIRTH IF OTHER THAN CERTIFIER (Type or print)	5e. ATTENDANT MAILING ADDRESS (Street, city or town, state, zip)			
	6a. DATE FILED BY REGISTRAR	6b. REGISTRAR — SIGNATURE			
FATHER	7a. MOTHER — NAME	First	Middle	Last	7b. MAIDEN SURNAME
	7c. DATE OF BIRTH	7d. STATE OF BIRTH (If not in U.S.A., name country)			
INFORMANT	8a. RESIDENCE — STATE	8b. COUNTY	8c. CITY, TOWN, OR LOCATION		8d. STREET AND NUMBER
	8e. INSIDE CITY LIMITS (Yes or no)	8f. ZIP CODE	9. MOTHER'S MAILING ADDRESS AND ZIP CODE (If same as above leave blank)		
	10a. FATHER — NAME	First	Middle	Last	10b. DATE OF BIRTH
					10c. STATE OF BIRTH (If not in U.S.A., name country)
	11. 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)				

		MOTHER		FATHER	
INFORMATION FOR MEDICAL AND HEALTH USE ONLY		SSN		SSN	
12. Shall abstract of birth certificate be made available for publication or business contact lists? (Check one)		<input type="checkbox"/> No <input type="checkbox"/> Yes		STATE USE ONLY	
13. Social Security Number Requested?		<input type="checkbox"/> No <input type="checkbox"/> Yes		a. _____ b. _____ c. _____ d. _____	
14. OF HISPANIC ORIGIN? (Specify No or Yes) (If yes, specify Cuban, Mexican, Puerto Rican, etc.)		15. RACE — (e.g. White, Black, American Indian, etc.) (Specify below)		16. EDUCATION (Highest grade completed) Elementary or Secondary (0-12) College (1-4 or 5+)	
14a. <input type="checkbox"/> No <input type="checkbox"/> Yes		15a. _____		17. MOTHER MARRIED? (At birth, conception, or any time between) (Yes or no)	
14b. <input type="checkbox"/> No <input type="checkbox"/> Yes		15b. _____		18. HAS A CLOSE RELATIVE OF THIS NEWBORN HAD A HEREDITARY HEARING LOSS THAT EXISTED SINCE CHILDHOOD?	
Specify		Specify		<input type="checkbox"/> No <input type="checkbox"/> Yes	
21. PREGNANCY HISTORY		21c. DATE OF LAST LIVE BIRTH (Month, Year)		21e. DATE OF LAST OTHER TERMINATION (Month, Year)	
21a. Now living Number _____ None <input type="checkbox"/>		21b. Now dead Number _____ None <input type="checkbox"/>		21d. _____	
23. DATE OF LAST NORMAL MENSES BEGAN (Month, Day, Year)		24a. PLURALITY — Single, twin, triplet, etc. (Specify)		24b. IF NOT SINGLE BIRTH — Born first, second, third, etc. (Specify)	
25. MONTH OF PREGNANCY PRENATAL CARE BEGAN First, second, etc. (Specify)		26. PRENATAL VISITS — Total number (If none, so state)		22. CLINICAL ESTIMATE OF GESTATION (Weeks)	
27. SITE — PRENATAL CARE (Check all that apply)		28. PRIMARY INSURANCE COVERAGE OF THIS DELIVERY (Check all that apply)			
<input type="checkbox"/> Private Clinic/Office <input type="checkbox"/> Co. Health Dept. <input type="checkbox"/> Other Pub. Clinic <input type="checkbox"/> Other Site		<input type="checkbox"/> Private Ins. <input type="checkbox"/> No Ins. <input type="checkbox"/> Medicaid (Oregon Health Plan) <input type="checkbox"/> Other Public Ins.			
29. AT TIME OF THIS REPORT WAS NEWBORN ALIVE?		30. NEWBORN REQUIRED INTENSIVE CARE?		31. NEWBORN TRANSFERRED FOR MEDICAL NEED? (If Yes, enter name of facility transferred to)	
<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> No <input type="checkbox"/> Yes	
32. MONTHS MOTHER ON WIC PROGRAM? (0-3)					
33. MEDICAL FACTORS FOR THIS PREGNANCY (Check all that apply)		35. OTHER FACTORS FOR THIS PREGNANCY (Complete all items)		39. METHOD OF DELIVERY (Check all that apply)	
01 <input type="checkbox"/> Anemia (Hct. <30/Hgb<10).....		a. Tobacco use during pregnancy..... <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>		01 <input type="checkbox"/> Vaginal.....	
02 <input type="checkbox"/> Cardiac disease.....		b. Average number cigarettes per day.....		02 <input type="checkbox"/> Vaginal birth after previous C-section.....	
03 <input type="checkbox"/> Acute or chronic lung disease.....		c. Alcohol use during pregnancy..... <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>		03 <input type="checkbox"/> Primary C-section.....	
04 <input type="checkbox"/> Diabetes (Chronic).....		d. Average number drinks per week.....		04 <input type="checkbox"/> Repeat C-section.....	
05 <input type="checkbox"/> Diabetes (Gestational).....		e. Weight gained during pregnancy..... lbs.		05 <input type="checkbox"/> Forceps.....	
06 <input type="checkbox"/> Genital herpes.....		f. History available..... <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>		06 <input type="checkbox"/> Vacuum.....	
07 <input type="checkbox"/> Hydramnios/Oligohydramnios.....		g. Other (Specify).....			
08 <input type="checkbox"/> Hemoglobinopathy.....					
09 <input type="checkbox"/> Hypertension, chronic.....					
10 <input type="checkbox"/> Hypertension, pregnancy associated.....					
11 <input type="checkbox"/> Eclampsia.....					
12 <input type="checkbox"/> Incompetent cervix.....					
13 <input type="checkbox"/> Previous infant 4000 + grams.....					
14 <input type="checkbox"/> Previous preterm or small for gestational age infant.....					
15 <input type="checkbox"/> Renal disease.....					
16 <input type="checkbox"/> Rh sensitization.....					
17 <input type="checkbox"/> Uterine bleeding.....					
18 <input type="checkbox"/> No history available.....					
19 <input type="checkbox"/> None.....					
20 <input type="checkbox"/> Other (Specify).....					
34. COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply)		36. ANTENATAL PROCEDURES (Check all that apply)		40. CONGENITAL ANOMALIES OF NEWBORN (Check all that apply)	
01 <input type="checkbox"/> Febrile (>100° F. or 38° C.).....		01 <input type="checkbox"/> Amniocentesis.....		01 <input type="checkbox"/> Anencephalus.....	
02 <input type="checkbox"/> Meconium, moderate/heavy.....		02 <input type="checkbox"/> Tocolytic.....		02 <input type="checkbox"/> Spina bifida/Meningocele.....	
03 <input type="checkbox"/> Premature rupture of membrane (>12 hours).....		03 <input type="checkbox"/> Ultrasound.....		03 <input type="checkbox"/> Hydrocephalus.....	
04 <input type="checkbox"/> Abruptio placenta.....		04 <input type="checkbox"/> No history available.....		04 <input type="checkbox"/> Microcephalus.....	
05 <input type="checkbox"/> Placenta Previa.....		00 <input type="checkbox"/> None.....		05 <input type="checkbox"/> Other central nervous system anomalies..... (Specify).....	
06 <input type="checkbox"/> Other excessive bleeding.....		05 <input type="checkbox"/> Other (Specify).....		06 <input type="checkbox"/> Heart malformations.....	
07 <input type="checkbox"/> Seizures during labor.....				07 <input type="checkbox"/> Other circulatory/respiratory anomalies..... (Specify).....	
08 <input type="checkbox"/> Precipitous labor (<3 hours).....		37. INTRAPARTUM PROCEDURES (Check all that apply)		08 <input type="checkbox"/> Rectal atresia/stenosis.....	
09 <input type="checkbox"/> Prolonged labor (>20 hours).....		01 <input type="checkbox"/> Electronic fetal monitoring.....		09 <input type="checkbox"/> Tracheo-esophageal fistula/Esoophageal atresia.....	
10 <input type="checkbox"/> Dysfunctional labor.....		02 <input type="checkbox"/> Induction of labor.....		10 <input type="checkbox"/> Omphalocele/Gastrochisis.....	
11 <input type="checkbox"/> Breech/Malpresentation.....		03 <input type="checkbox"/> Stimulation of labor.....		11 <input type="checkbox"/> Other gastrointestinal anomalies..... (Specify).....	
12 <input type="checkbox"/> Cephalopelvic disproportion.....		00 <input type="checkbox"/> None.....		12 <input type="checkbox"/> Malformed genitalia.....	
13 <input type="checkbox"/> Cord prolapse.....		04 <input type="checkbox"/> Other (Specify).....		13 <input type="checkbox"/> Renal agenesis.....	
14 <input type="checkbox"/> Anesthetic complications.....				14 <input type="checkbox"/> Other urogenital anomalies..... (Specify).....	
15 <input type="checkbox"/> Fetal distress.....		38. CONDITIONS OF THE NEWBORN (Check all that apply)		15 <input type="checkbox"/> Cleft lip/palate.....	
16 <input type="checkbox"/> None.....		01 <input type="checkbox"/> Anemia (Hct. < 39/Hgb. <13).....		16 <input type="checkbox"/> Polydactyl/Syndactyl/Adactyl.....	
17 <input type="checkbox"/> Other (Specify).....		02 <input type="checkbox"/> Birth injury.....		17 <input type="checkbox"/> Club foot.....	
		03 <input type="checkbox"/> Fetal alcohol syndrome.....		18 <input type="checkbox"/> Diaphragmatic hernia.....	
		04 <input type="checkbox"/> Hyaline membrane disease/RDS.....		19 <input type="checkbox"/> Other musculoskeletal/integumental anomalies..... (Specify).....	
		05 <input type="checkbox"/> Meconium aspiration syndrome.....			
		06 <input type="checkbox"/> Assisted ventilation (<30 min.).....		20 <input type="checkbox"/> Down Syndrome.....	
		07 <input type="checkbox"/> Assisted ventilation (≥30 min.).....		21 <input type="checkbox"/> Other chromosomal anomalies..... (Specify).....	
		08 <input type="checkbox"/> Seizures.....		00 <input type="checkbox"/> None apparent.....	
		09 <input type="checkbox"/> None apparent.....		01 <input type="checkbox"/> Other (Specify).....	
		00 <input type="checkbox"/> Other (Specify).....			

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-

TYPE/PRINT IN PERMANENT BLACK INK. 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 _____

CEREMONY

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

30b. COUNTY **OREGON**

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) _____		
Decree	18. Type of decree: <input type="checkbox"/> Dissolution of marriage <input type="checkbox"/> Annulment		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	28a.	28b.	29a.	29b.	30a.
	28c.	28d.	29c.	29d.	30b.
Wife	31a.	31b.	31c.	31d.	

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		

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.



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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>			
	5. Residence or legal address: Street and number		5a. City, town:	5b. County:	5c. State:	
PARTNER B	6. Partner B — Legal name: <i>(First, middle, last, suffix)</i>		7. Other legal surnames used:			
	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:	
DECLARATION	11. Date declaration of domestic partnership filed: <i>(Month, day, year)</i>		11a. County or state in which filed:			
	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>			
ATTORNEY	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:	
DECREE	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.

PARTNER A	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>	Date: <i>(Month, day, year)</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>
	26a.	27a.	27b.	28a.	29a.	30a.
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.

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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

Office of Disease Prevention and Epidemiology

Center for Health Statistics

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