

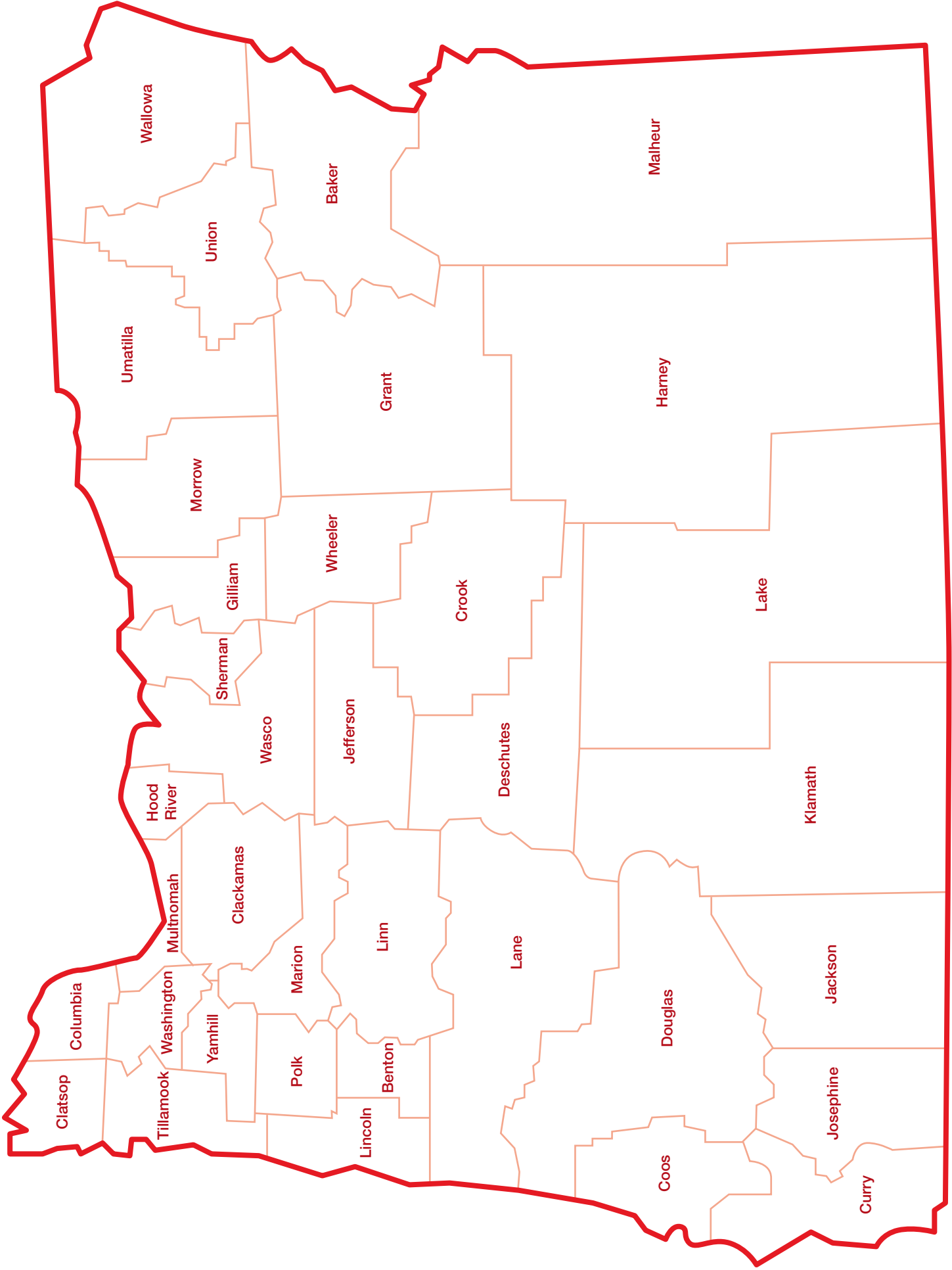
Oregon Vital Statistics Annual Report 2010

Volume 1

- Natality
- Induced termination of pregnancy
- Teen pregnancy

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PUBLIC HEALTH DIVISION
Center for Public Health Practice
Center for Health Statistics



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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, 2010		
Population	3,844,195	The population increased 20,730, or 0.5 percent over 2009.
Live Births	Residents	The number of births decreased by 1,592. The crude rate decreased by 4.0 percent, while the fertility rate decreased by 3.2 percent.
Number	45,596	
Crude Rate	11.9	
Fertility Rate	60.0	
Marriages	Occurrences	The number of marriages decreased by 172. The rate decreased by 1.5 percent.
Number	25,067	
Crude Rate	6.5	
Divorces	Occurrences	The number of divorces increased by 364. The rate increased by 2.6 percent.
Number	15,312	
Crude Rate	4.0	
Domestic Partnerships	Occurrences	The number of domestic partnerships decreased by 123, a decrease of 17.2 percent from 2009.
Number	593	
Dissolutions of Domestic Partnership	Occurrences	The number of dissolutions of domestic partnership increased by 42.
Number	79	
Unmarried Mothers	Residents	The number of unmarried mothers giving birth decreased by 440. The proportion of births which were to unmarried mothers increased by 0.7 percent.
Number	16,173	
Ratio	355.5	
Low Birthweight Infants	Residents	The number of low birthweight infants increased by 599. The rate remained unchanged from 2009.
Number	2,873	
Rate	63.0	
Induced Abortions	Occurrences	The number of reported abortions decreased by 811, a decrease of 7.5 percent from 2009. The abortion ratio decreased 3.9 percent.
Number	9,990	
Ratio	217.6	
<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., 1945-2010

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

See footnotes at end of table.

Table 1-1. Live Births, Births to Unmarried Mothers, Marriages, and Divorces, U.S., 1945-2010 — Continued

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

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

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

The source for data is: Births: Preliminary Data for 2010.
National Vital Statistics Reports, Vol. 60, No. 2, November 17, 2011

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

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

TABLE 1-2. Population, Live Births and Births to Unmarried Mothers, Marriages, and Divorces, Oregon, 1910, 1915, 1920, 1925, 1930, 1935-2010

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, 1935-2010 — Continued

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

* 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, 2010**

County	Estimated Population July 1, 2010	Live Births		Births to Unmarried Mothers		Marriages		Divorces	
		No.	Rate ¹	No.	Ratio ²	No.	Rate ¹	No.	Rate ¹
Total	3,844,195	45,596	11.9	16,173	355.5	25,070	6.5	15,318	4.0
Baker	16,440	165	§ 10.0	66	400.0	125	7.6	68	4.1
Benton	87,000	727	§ 8.4	169	§ 232.8	417	§ 4.8	239	§ 2.7
Clackamas	381,775	3,869	§ 10.1	1,105	§ 285.9	2,554	6.7	1,325	§ 3.5
Clatsop	37,860	413	10.9	177	§ 428.6	637	§ 16.8	135	3.6
Columbia	48,620	491	§ 10.1	163	332.0	271	§ 5.6	234	§ 4.8
Coos	62,930	656	§ 10.4	287	§ 437.5	432	6.9	295	§ 4.7
Crook	27,280	181	§ 6.6	69	383.3	125	§ 4.6	116	4.3
Curry	21,160	180	§ 8.5	54	482.1	151	7.1	67	3.2
Deschutes	172,050	1,709	§ 9.9	549	§ 321.8	1,088	6.3	838	4.9
Douglas	105,240	1,049	§ 10.0	467	§ 446.5	686	6.5	537	5.1
Gilliam	1,885	21	11.1	7	333.3	9	4.8	10	5.3
Grant	7,510	59	§ 7.9	21	355.9	44	5.9	27	3.6
Harney	7,720	88	11.4	37	420.5	40	5.2	35	§ 4.5
Hood River	21,850	278	12.7	73	§ 262.6	315	§ 14.4	77	3.5
Jackson	207,745	2,341	§ 11.3	943	§ 403.2	1,335	6.4	936	4.5
Jefferson	22,865	280	12.2	149	§ 532.1	145	6.3	78	3.4
Josephine	83,600	793	§ 9.5	358	§ 452.6	447	§ 5.3	404	§ 4.8
Klamath	66,475	803	12.1	379	§ 473.2	397	6.0	301	§ 4.5
Lake	7,570	70	§ 9.2	25	357.1	37	4.9	41	5.4
Lane	348,550	3,495	§ 10.0	1,337	§ 383.1	2,011	§ 5.8	1,401	4.0
Lincoln	44,620	443	§ 9.9	247	§ 557.6	715	§ 16.0	210	§ 4.7
Linn	111,355	1,456	§ 13.1	525	360.8	753	6.8	552	§ 5.0
Malheur	31,865	477	§ 15.0	239	§ 501.0	176	§ 5.5	71	2.2
Marion	320,640	4,604	§ 14.4	1,966	§ 427.3	2,255	§ 7.0	1,253	3.9
Morrow	12,595	163	12.9	66	404.9	56	§ 4.4	48	3.8
Multnomah	730,140	9,610	§ 13.2	3,229	§ 336.1	5,313	§ 7.3	2,669	§ 3.7
Polk	69,145	911	§ 13.2	296	324.9	428	6.2	257	3.7
Sherman	1,825	16	8.8	1	§ 62.5	9	4.9	1	§ 0.5
Tillamook	26,170	245	§ 9.4	92	375.5	313	§ 12.0	79	§ 3.0
Umatilla	72,720	1,107	§ 15.2	526	§ 475.6	392	§ 5.4	331	§ 4.6
Union	25,495	281	11.0	107	380.8	158	6.2	95	3.7
Wallowa	7,085	61	§ 8.6	17	278.7	69	§ 9.7	23	3.2
Wasco	24,280	298	12.3	130	§ 436.2	214	§ 8.8	115	4.7
Washington ...	532,620	7,113	§ 13.4	1,877	§ 264.0	2,319	§ 4.4	2,075	3.9
Wheeler	1,590	15	9.4	5	333.3	21	§ 13.2	5	3.1
Yamhill	95,925	1,127	11.7	414	367.3	613	6.4	370	3.9

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

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

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

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

TABLE 1-4. Population and Births by City of Residence, Oregon, 2010

City of Residence	Estimated Population July 1, 2010	Births	
		Number	Rate
Albany (Linn, Benton)	49,530	733	14.8
Ashland (Jackson)	21,460	129	6.0
Astoria (Clatsop)	10,110	122	12.1
Baker City (Baker)	10,160	109	10.7
Beaverton (Washington)	87,440	1,888	21.6
Bend (Deschutes)	83,125	981	11.8
Canby (Clackamas)	15,230	238	15.6
Central Point (Jackson)	17,205	287	16.7
Coos Bay (Coos)	16,685	245	14.7
Cornelius (Washington)	11,020	206	18.7
Corvallis (Benton)	55,370	475	8.6
Dallas (Polk)	15,555	178	11.4
Eugene (Lane)	157,845	1,567	9.9
Forest Grove (Washington)	21,770	274	12.6
Gladstone (Clackamas)	12,215	95	7.8
Grants Pass (Josephine)	33,225	456	13.7
Gresham (Multnomah)	101,595	1,096	10.8
Happy Valley (Clackamas)	11,865	272	22.9
Hermiston (Umatilla)	16,380	363	22.2
Hillsboro (Washington)	91,215	1,303	14.3
Keizer (Marion)	36,295	482	13.3
Klamath Falls (Klamath)	21,480	418	19.5
La Grande (Union)	13,085	177	13.5
Lake Oswego (Clackamas, Multnomah, Washington)	36,845	289	7.8
Lebanon (Linn)	15,600	253	16.2
McMinnville (Yamhill)	32,930	411	12.5
Medford (Jackson)	77,485	1,129	14.6
Milwaukie (Clackamas)	20,930	573	27.4
Newberg (Yamhill)	23,570	297	12.6
Newport (Lincoln)	10,605	128	12.1
Ontario (Malheur)	11,440	272	23.8
Oregon City (Clackamas)	30,995	438	14.1
Pendleton (Umatilla)	17,545	228	13.0
Portland (Clackamas, Multnomah, Washington)	583,835	8,585	14.7
Prinville (Crook)	10,370	123	11.9
Redmond (Deschutes)	25,945	412	15.9
Roseburg (Douglas)	21,790	384	17.6
Salem (Marion, Polk)	157,460	2,749	17.5
Sherwood (Washington)	16,705	246	14.7
Springfield (Lane)	58,575	880	15.0
St. Helens (Columbia)	12,715	157	12.3
The Dalles (Wasco)	13,430	198	14.7
Tigard (Washington)	47,595	654	13.7
Troutdale (Multnomah)	15,595	231	14.8
Tualatin (Clackamas, Washington)	26,160	305	11.7
West Linn (Clackamas)	24,455	210	8.6
Wilsonville (Clackamas, Washington)	18,095	201	11.1
Woodburn (Marion)	23,150	469	20.3

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, 1980-2010

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

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, 2010**

County	Total	Domestic Partnerships	
		Male-Male	Female-Female
Total	593	154	439
Baker	-	-	-
Benton	8	2	6
Clackamas	32	7	25
Clatsop	4	-	4
Columbia	6	2	4
Coos	1	1	-
Crook	-	-	-
Curry	-	-	-
Deschutes	11	1	10
Douglas	5	2	3
Gilliam	-	-	-
Grant	-	-	-
Harney	-	-	-
Hood River	1	-	1
Jackson	16	5	11
Jefferson	-	-	-
Josephine	5	-	5
Klamath	6	2	4
Lake	-	-	-
Lane	37	11	26
Lincoln	8	-	8
Linn	16	3	13
Malheur	1	-	1
Marion	44	4	40
Morrow	-	-	-
Multnomah	273	89	184
Polk	6	1	5
Sherman	-	-	-
Tillamook	-	-	-
Umatilla	4	-	4
Union	-	-	-
Wallowa	-	-	1
Wasco	2	-	2
Washington	95	22	73
Wheeler	-	-	-
Yamhill	11	2	9

- Quantity is zero.

SECTION 2: NATALITY

Natality

In 2010, Oregon recorded **45,596 resident births**, 1,592 fewer than in 2009. The **crude birth rate** (the number of babies born divided by the total state population) was 11.9 per 1,000 population. (See Table 1-2.) Oregon's crude birth rate peaked in 1947 at 25.4 per 1,000 population. Since 1980, Oregon's rates have held in the mid-teens, ranging from a high of 16.4 in 1980 to the current low of 11.9. 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 2010, Oregon's rate was 8.5 percent lower than the national rate (11.9 vs. 13.0). (See Figure 2-1.)

Oregon's **fertility rate** decreased from 62.0 in 2009 to 60.0 per 1,000 women aged 15–44 in 2010. (See sidebar 2-A, 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 for women in the 40–44 age group (4.3 %). The largest percentage decrease was among women aged 15–19 (13.8 %). (See Table 2-2, Figure 2-2.)

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

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

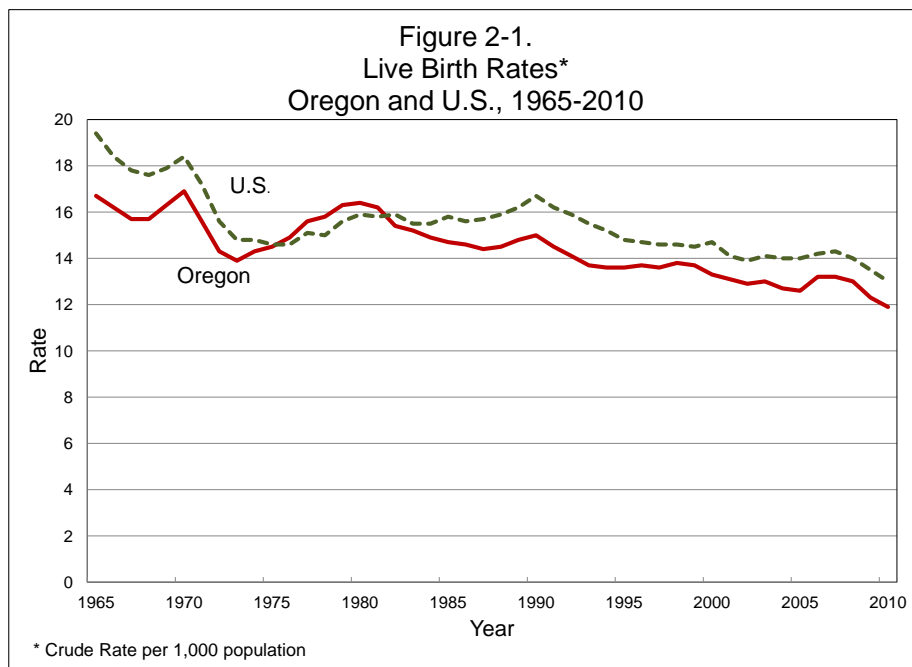
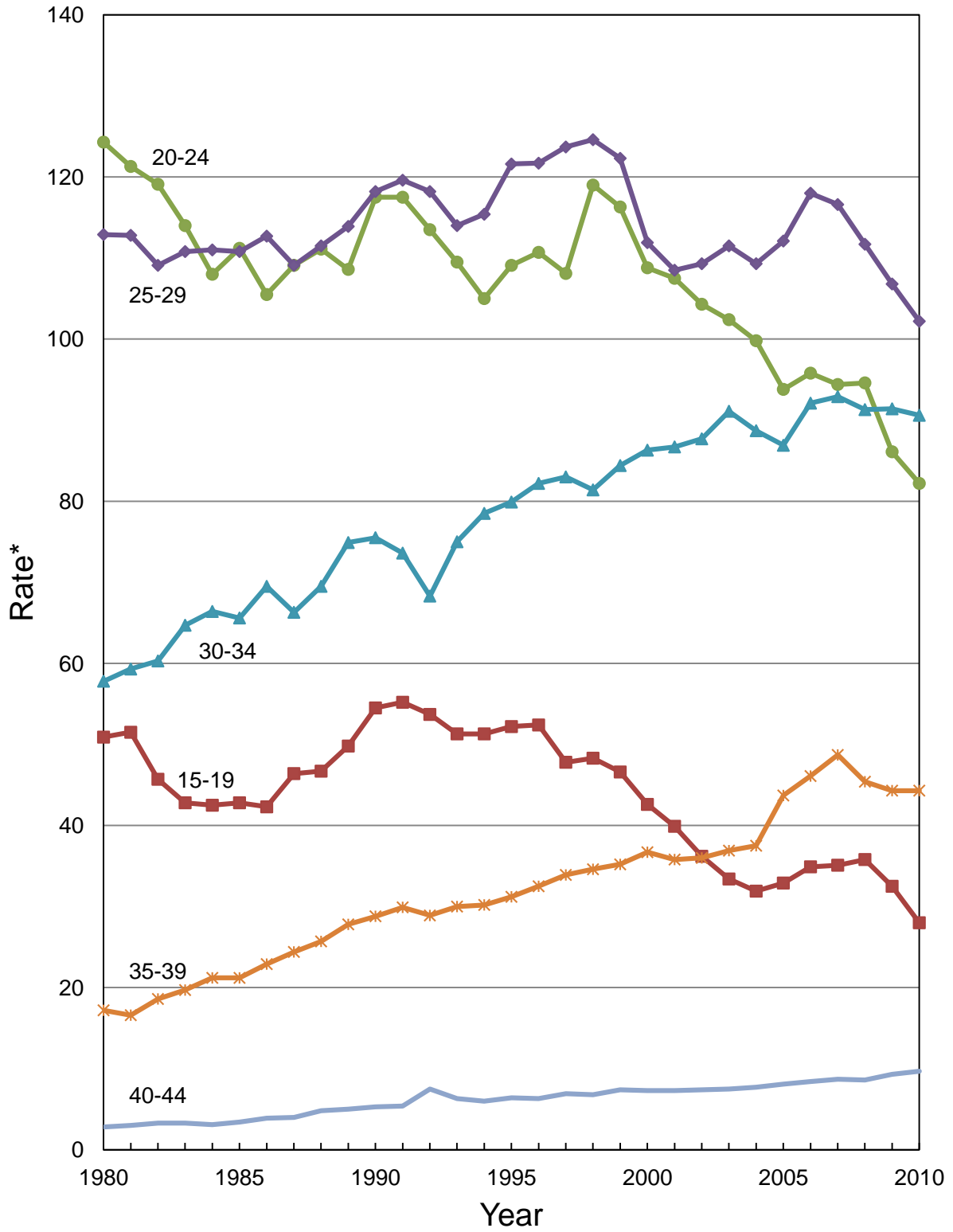


Figure 2-2.
Age-specific Birth Rates,
Oregon Residents, 1980-2010



*Rate per 1,000 females

The youngest female to give birth in 2010 was 10 years old and the oldest was 54. Mother's median age for all births was 28 and the mean age was 28.0. The median age at first birth was 25 and the mean age was 25.9. The **rate of first birth** decreased slightly from the previous year to 24.4 first births per 1,000 women aged 15–44, slightly lower than the 2010 national rate of 27.7. The proportion of first births among total births has been stable for the past decade. In 2000, 40.1 percent of births were first births while in 2010, 40.7 percent were first births.

Father's mean age for births was 30.7 years and the median age was 30. The **birth rate per 1,000 men** ages 15–54 was 42.7 in 2010 for Oregon resident births. Information on the father was missing from 8.7 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 2009 was 47.9 per 1,000 men.

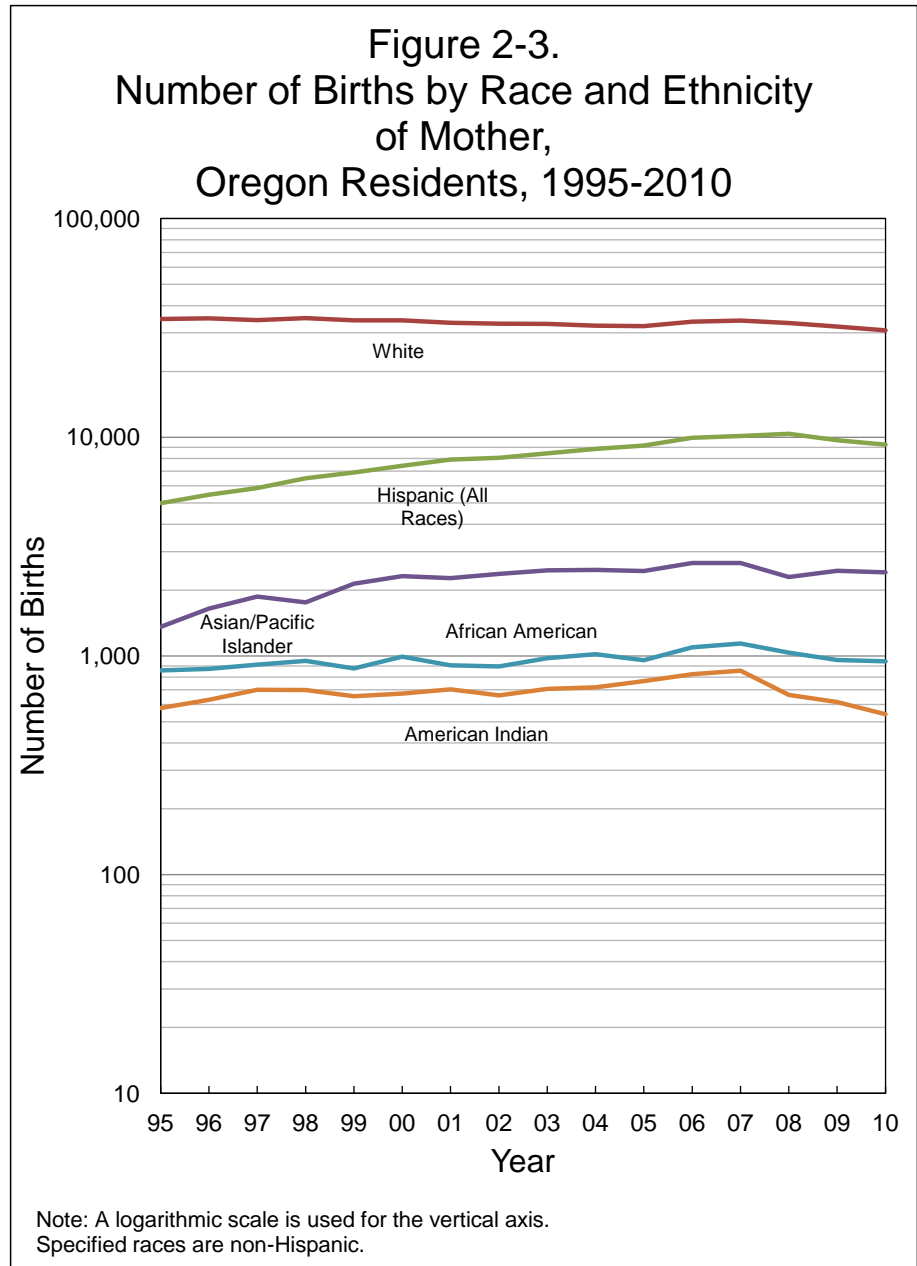
Demographics

Maternal race/ethnicity

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

Since 1989, the number of births to women of Hispanic ethnicity has 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 regardless of Hispanicity.



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

Marital status of mother

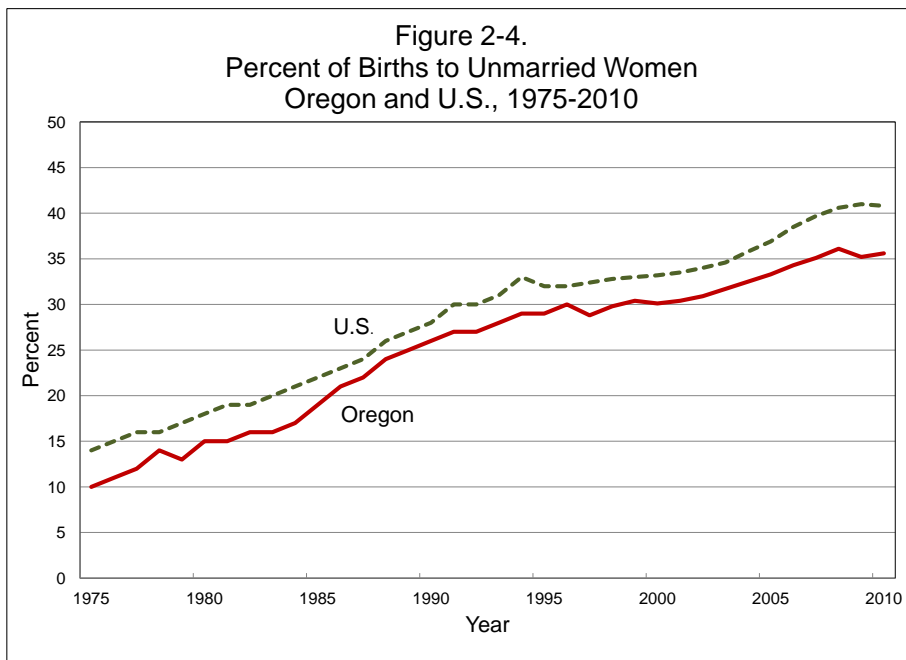
Unmarried women as a group have historically poorer birth outcomes than married women. They generally have a greater proportion of babies with lower birthweight and lower Apgar scores than do their married counterparts. Infants born to unmarried mothers are more likely to require neonatal intensive care, have congenital anomalies or die before age 1. In Oregon, the ratio of births to unmarried mothers in 2010 was 3.5 times higher than in 1975, and 5.6 times higher than in 1965. (See Table 1-2 and

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

In 2010, 35.6 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 2010 was 12.9 percent lower than the U.S. rate. (See Figure 2-4.)

Among women giving birth in 2010, the percentage of women who were unmarried varied widely by ethnic and racial group (see sidebar 2-B, page 2-6). Non-Hispanic American Indian women had the highest percentage of non-marital births (62.4 %), closely followed by non-Hispanic African American women (60.3 %), and non-Hispanic Hawaiian/Pacific Islanders (52.3 %). Non-Hispanic Asian women had the lowest percentage of unmarried mothers (13.4 %). (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 2010 were unmarried (84.2 %), compared to 56.8 percent for women aged 20–24 and 29.7 percent for women aged 25–29. The percentage of unmarried women was lowest for mothers aged 30–34 (18.8 %) and



Race/Ethnicity	Unmarried
Total	35.5
Non-Hispanic	
African American	60.3
American Indian	62.4
White	31.1
Asian	13.4
Multiple Races	49.8
Hispanic	48.7

35-39 (17.6 %), while 19.8 percent of mothers aged 40-44 were unmarried. (See Table 2-3.) Thirteen of Oregon's 36 counties had proportions of non-marital births significantly higher than the state average. (See Table 2-9.) Among counties with statistically significant differences, Lincoln had the highest percentage (55.8 %) followed by Jefferson (53.2 %) and Malheur (50.1 %). (See Technical Notes - Formulas, Appendix B for information on statistical significance.) Six Oregon counties had percentages of non-marital births significantly lower than the state average. Sherman County had the lowest percentage of non-marital births (6.2 %). 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 2010 had at least a high school diploma or GED (81.1 %) and 26.9 percent had a bachelor's degree or higher. The racial/ethnic groups with the highest percentages of high school completion are non-Hispanic Asian (92.0 %) and non-

Years of Education	No First Trimester Care (%)
8th Grade or Less	41.6
9th to 12th Grade, No Diploma	41.2
High School Graduate or GED	33.7
Some College, No Degree	25.6
Associates Degree	19.9
Bachelors Degree	14.8
Masters Degree	11.8
Doctorate or Professional Degree	12.8

Hispanic White (90.0 %) mothers. Hispanic mothers had the lowest percentage of completion of at least 12 years of education (49.7 %). (See Table 2-13.)

Maternal lifestyle and health characteristics

Tobacco

Oregon Benchmark for the Year 2010

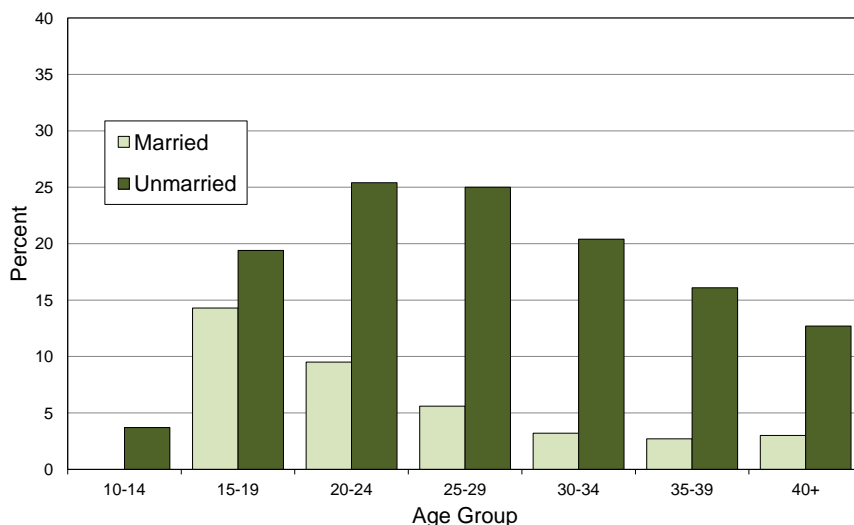
Percentage of infants whose mothers did not use tobacco during pregnancy (self-reported).

Year 2010 target:	98.0 %
2010:	86.8 %

Year	Percentage
1990	22.4
1995	17.9
2000	13.5
2001	12.8
2002	12.6
2003	12.0
2004	12.6
2005	12.4
2006	12.3
2007	11.7
2008	11.8
2009	11.3
2010	11.3

Women who smoke when pregnant have a far higher incidence of low birthweight babies than nonsmokers. Low birthweight infants are more likely to experience serious health problems, including increased rates of infant mortality. Women who smoked had a low birthweight rate of 96.2 per 1,000 live births, compared to 58.6 per 1,000 among women who did not smoke. One of nine mothers (11.3 %) reported using tobacco during pregnancy, which is the lowest rate seen in more than 20 years. (See sidebar 2-D.) The percentage of mothers who reported smoking during pregnancy decreased with age among married women. For unmarried women, smoking rates rose and

Figure 2-5.
Percentage of Mothers Who Smoked During Pregnancy by Age and Marital Status, Oregon Residents, 2010



Women who smoked had a low birthweight rate of 96.2 per 1,000.

fell with age, peaking in the early 20s. The percentage of tobacco use among unmarried women was nearly four times that of married women (22.7 % vs. 5.1 %). The highest percentage of tobacco use during pregnancy in 2010 was among unmarried mothers aged 20–24 and unmarried mothers aged 25–29 (25.4 % and 25.0 % respectively). There was very little smoking reported for the youngest mothers aged 10-14. The lowest percentage of smokers was reported for married mothers aged 35–39 (2.7 %) and 40 or older (3.0 %). (See Figure 2-5, page 2-7.)

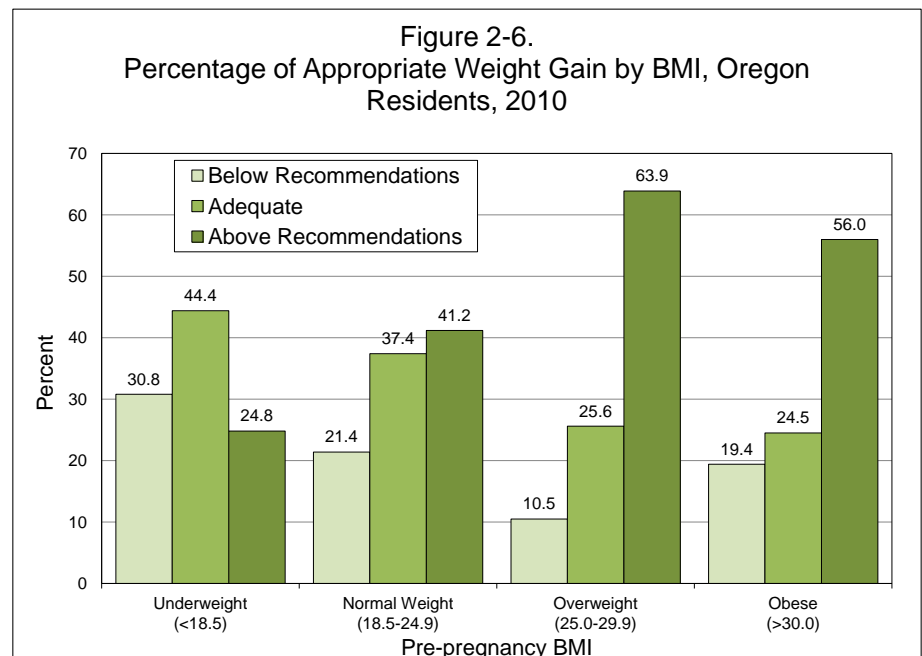
Smoking prevalence as reported on birth certificates also varied among racial and ethnic groups. In 2010, non-Hispanic American Indian women (22.6 %) and non-Hispanic women reporting multiple races (21.6 %) had the highest reported proportions for smoking during pregnancy, while non-Hispanic Asian women (1.9 %) and Hispanic women (3.8 %) 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 birthweight and the chance of a baby being born prematurely. High maternal weight gain is associated with higher infant birthweight and cesarean delivery. Excessive weight during pregnancy is often accompanied by chronic disease and is a health risk factor for both the mother and child.

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

Figure 2-6. Percentage of Appropriate Weight Gain by BMI, Oregon Residents, 2010



Oregon began collecting data on mothers' pre-pregnancy weight, weight at delivery and height on birth certificates in 2008. The availability of this new data allows Body-Mass-Index (BMI) to be calculated and provides a better picture of pre-pregnancy BMI and gestational weight gain of Oregon mothers. In 2009, the Institute of Medicine (IOM) revised its guidelines for weight gain during pregnancy, which express ideal weight gain in pregnancy as a range for each category of pre-pregnancy BMI. (See sidebar 2-E, page 2-8.) Many Oregon mothers exceeded these recommendations. In 2010, 49.2 percent of women gained more weight than the IOM guidelines recommend. Additionally, 48.3 percent of Oregon women entered pregnancy overweight or obese and also had the highest percentage of weight gain above the guidelines (63.9 % and 56.0 % respectively). (See Figure 2-6.) Women starting pregnancy underweight had the highest percentage of weight gain below the IOM recommendations (30.8 %) and had the highest percentage of low birthweight infants (10.6%).

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 2010, the most frequently reported medical risk factors were previous cesarean delivery (13.0 %), gestational diabetes (6.3 %), and pregnancy-associated hypertension (5.4 %). (See Table 2-23 and Table 2-26.)

Medical services utilization

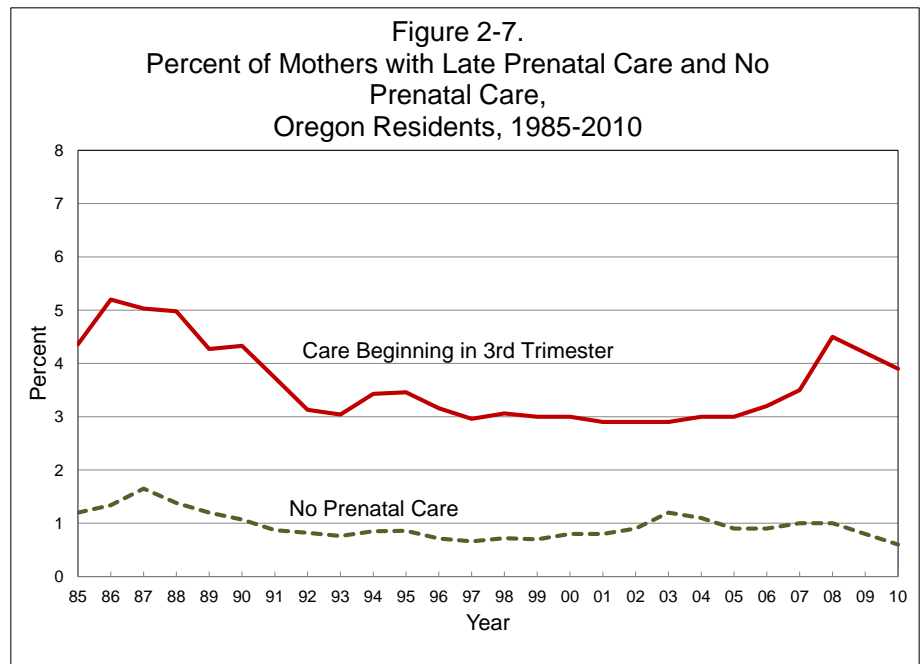
Prenatal care

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>90.0 %</i>
<i>2010:</i>	<i>73.1 %</i>

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



prenatal care. The two ways Oregon measures prenatal care are: 1) “inadequate prenatal care,” defined as no care until the third trimester or fewer than five total prenatal visits; or 2) “first trimester care,” defined as care beginning in the first three months of pregnancy, regardless of the number of total prenatal visits. First trimester care has been adopted as an Oregon Benchmark with a goal to ensure that by 2010 at least 90 percent of women begin prenatal care within the first three months of their pregnancies.

Overall, 73.1 percent of women who gave birth during 2010 received early prenatal care, which is slightly higher than the 2008 national number of 71.0 percent. (See Table 2-17; Table 1-5.) Moreover, this is 2.7 percent higher than the 2009 rate of 71.2 percent.

In 2010, 5.5 percent of women giving birth received inadequate prenatal care and 26.9 percent received no first trimester care. The percentage of low birthweight infants was much higher for women who received inadequate prenatal care, 12.8 percent, compared to 5.9 percent of children born to mothers who received adequate prenatal care. The percentage of mothers who received no prenatal care was about the same as previous years (0.6 %). Mothers who initiated care in the third trimester decreased in 2010 from 4.2 percent in 2009 to 3.9 percent. (See Figure 2-7.) Age, marital status, education and race/ethnicity continue to show important differences in accessing prenatal care. (See Tables 2-17, 2-18, 2-19 and 2-21.)

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

Year	Intensive	Adequate	Intermediate	Inadequate
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
2009	32.4	40.1	12.5	14.1
2010	35.5	40.1	10.9	12.9

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

Birth attendant and place of delivery

Hospital births. Hospitals are the most frequent place of birth with 96.6 percent of Oregon occurrence births. Most in-hospital births (78.3 %) were delivered by medical doctors; certified nurse midwives delivered 16.4 percent of hospital births; 5.0 percent were by osteopathic doctors; and 0.3 percent by other licensed medical professionals. (See Table 2-27.)

Out-of-hospital births. In 2010, 3.4 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 2010, Oregon’s proportion of out-of-hospital births was triple the 2009 U.S. percentage (1.1 %). As in past years, the majority of out-of-hospital births occurred in the mother’s home (61.0 %). Of those home births, 95.7 percent were planned home births, while the remaining 4.3

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

¹ Rate per 1,000 births

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

percent were not intended to occur at home. Freestanding birthing centers accounted for 522 births, nearly one-third of out-of-hospital births. Outcomes generally have been positive for out-of-hospital births. In 2010, 19 infants born out-of-hospital in Oregon had low birthweights (1.2 %). For births that occurred in a birthing facility or were planned homebirths, only 0.7 percent of out-of-hospital births were low birthweight. Eight infants (0.5 %) were reported to have a congenital anomaly, which is lower than the percentage for in-hospital births (0.7 %).

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

A major shift during the past few decades has been the increasing prevalence of births attended by certified nurse midwives (CNMs). In 2010, 16.4 percent of hospital deliveries were CNM-attended, a slight increase from 2008 (16.3 %) and more than two-and-a-half times the proportion in 1989 (6.5 %). This is more than twice the national proportion of births attended by CNMs (7.4 %). In addition, CNMs delivered approximately one in eight out-of-hospital births (13.9 %). Licensed direct entry midwives (LDMs) were predominant in out-of-hospital births, delivering over one-half (60.4 %) of those births in 2010. Other midwives delivered an additional 7.2 percent of the out-of-hospital births. Naturopathic physicians delivered approximately one in ten out-of-hospital births (9.1 %). Non-medical attendants delivered 129 babies, 8.2 percent of the out-of-hospital births. (See Table 2-27.)

Method of delivery

In 2010, the rate of cesarean delivery was 29.4 percent, well below the 2010 U.S. rate of 32.8 percent. The rate for vaginal delivery after a previous cesarean was only

1.9 percent, while repeat cesarean was 11.1 percent. The majority of births (68.8 %) continue to be vaginal deliveries without prior cesarean. (See Table 2-28.) However, the number of vaginal deliveries (without prior cesarean) has declined 0.3 percent from 2009 and 2.5 percent from 2005. Cesarean rates were relatively unchanged from 2009 (29.4 %) but have increased 4.2 percent since 2005 (28.2 %).

Infant health characteristics

Period of gestation

Preterm births (born prior to completion of 37 weeks gestation) comprised 7.9 percent of total births in 2010, much lower than the U.S. rate in 2010 (12.0 %). (See Table 2-25.) Similar to national trends, proportions of preterm births are higher for non-Hispanic African Americans (10.4 %) and non-Hispanic Hawaiian/Pacific Islander women (12.3 %). White non-Hispanic women had the lowest proportion of preterm births (7.7 %). (See Table 2-25.)

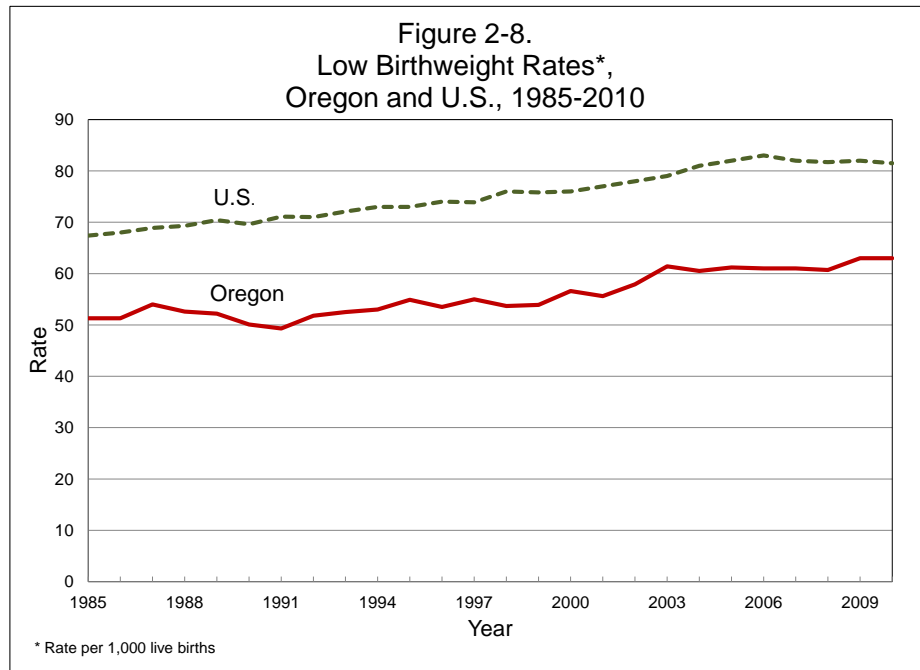
Low birthweight

National Healthy People 2010 Objective

Percentage of live births resulting in low birthweight infants.

<i>Year 2010 Target:</i>	<i>5.0 %</i>
<i>2010:</i>	<i>6.3 %</i>

Of the thousands of infants born each year, not all thrive and become healthy adults. Low birthweight is the major predictor of infant death, which is a fundamental measure of the health of a population. Infants with low birthweight are more likely to need extensive medical treatment and to have lifelong disabling conditions. (For more information, see the Oregon Vital Statistics Annual Report 2010, 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 2010, there were 2,873 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 2010, the percentage of low birthweight births in Oregon remained above this objective at 6.3 percent, or 63.0 per 1,000 live births. This



rate is unchanged from the 2009 rate. 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 2-8.) Nevertheless, Oregon's low birthweight rates are typically 25 percent lower than national rates and in 2010, Oregon's rate was 22.7 percent lower than the 2010 national rate (63.0 vs. 81.5 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 (78.5 %) compared to the state average of 73.1 percent. (See Table 2-17.) Nevertheless, women ages 35–39 continue to have a higher percentage of low birthweight babies, 7.2 percent compared to 6.3 percent for all births. (See Table 2-24.)

High birthweight

Birthweight is an important factor in the health of a newborn. Excessive birthweight, or fetal macrosomia, is a health risk factor for both the mother and child and is commonly defined as birthweight greater than 4,000 grams (8 pounds, 13 ounces).

Among Oregon residents in 2010, the prevalence of fetal macrosomia at 4,000 grams was 10.4 percent. (See Tables 2-24 and 2-25). As maternal age increases, the risk of fetal macrosomia also tends to increase (see Table 2-24). The percentage of infants born weighing more than 4,000 grams is 13.7 percent greater in women 35 and older (11.8 %) than the state average and 81.1 percent higher than among women younger than 20 (6.5 %).

In 2010, the prevalence of macrosomia was highest among non-Hispanic American Indian women (Table 2-25). The lowest rates of macrosomia were found in African American women and Asian women, though the low percentage of macrosomia among African American women is likely related to the higher proportion of preterm births in that group.

Apgar scores

The Apgar score is composed of measurements of five infant characteristics: heart rate, respiratory effort, muscle tone, reflex irritability and color. Each characteristic is rated 0–2 and the score totaled. Scores below 7, five minutes after birth, indicate poor to intermediate health at birth. In Oregon during 2010, 2.7 percent of infants had Apgar scores below 7, nearly twice the 2009 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 admission to the Neonatal Intensive Care Unit. (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 3.4 percent of births in Oregon during 2010 were multiple births, the proportion varied widely by age, race and ethnicity. During 2010, mothers aged 45 and older had the highest percentage of multiple births. The percentage of multiple births for each age group ranged from 1.0 percent for mothers aged 15–19 to 25.6 percent of births to mothers aged 45 and

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

* Data not available

Among Oregon resident births in 2010, the biggest baby born was 14 lbs 4 oz.

older. The percentage of multiple births generally increased with each five-year age group. (See Table 2-24.) Non-Hispanic American Indian women had the highest percentage of multiple births (4.4 %). The next highest percentage of multiple births was among non-Hispanic Asian and Hawaiian/Pacific Islander women (4.2 %). (See Table 2-25.)

Infertility treatment

Many fertility treatments increase a woman's chance of having twins, triplets, or other multiples. Multiples are at higher risk for prematurity and low birthweight. During 2010, mothers aged 45 and older had the highest rate of infertility treatment (388.9 per 1,000 births). (See Table 2-23).

Source of payment

Primary source of payment for delivery is noted on Oregon birth certificates under five categories: 1) public insurance (Medicaid/Oregon Health Plan), 2) private insurance, 3) self-pay (no insurance), 4) Indian Health Services, and, 5) other and unknown payment source. Private insurance companies paid for the majority of deliveries in Oregon (50.9 %), down from 52.3 percent in 2009 (see sidebar 2-J). Medicaid programs (e.g., the Oregon Health Plan) paid for more than two-fifths of Oregon resident births (45.1 %). 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
2009	52.3	2.5	42.3
2010	50.9	2.4	45.1

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

TABLE 2-1. Oregon Resident Births by Age Group of Mother, Selected Years 1955-1990, 1995-2010

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	36,353	41	0.1	6,027	17.0	14,587	41.3	9,778	27.7	3,373	9.5	1,195	3.4	324	0.9	27	0.1	1		
1975	33,352	57	0.2	5,206	15.6	12,716	38.1	10,718	32.1	3,576	10.7	888	2.7	167	0.5	9	0.0	5		
1980	43,091	71	0.2	5,658	13.1	14,912	34.6	14,297	33.2	6,499	15.1	1,456	3.4	185	0.4	11	0.0	2		
1985	39,419	42	0.1	4,136	10.5	11,815	30.0	12,782	32.4	8,017	20.3	2,333	5.9	281	0.7	10	0.0	3		
1990	42,830	76	0.2	5,080	11.9	11,523	26.9	12,974	30.3	8,961	20.9	3,607	8.4	585	1.4	13	0.0	11		
1995	42,715	104	0.2	5,437	12.7	11,054	25.9	11,950	28.0	9,216	21.6	4,059	9.5	848	2.0	43	0.1	4		
1996	43,645	91	0.2	5,676	13.0	11,268	25.8	12,286	28.1	9,202	21.1	4,232	9.7	847	1.9	39	0.1	4		
1997	43,765	104	0.2	5,344	12.2	11,367	26.0	12,594	28.8	9,018	20.6	4,356	10.0	940	2.1	46	0.1	7		
1998	45,228	95	0.2	5,565	12.3	11,855	26.2	12,850	28.4	9,303	20.6	4,560	10.1	942	2.1	46	0.1	12		
1999	45,193	86	0.2	5,491	12.2	11,896	26.3	12,603	27.9	9,459	20.9	4,575	10.1	1,015	2.2	65	0.1	3		
2000	45,786	66	0.1	5,090	11.1	12,265	26.8	12,680	27.7	9,943	21.7	4,669	10.2	1,007	2.2	61	0.1	5		
2001	45,318	66	0.1	4,819	10.6	12,244	27.0	12,408	27.4	10,093	22.3	4,605	10.2	1,008	2.2	67	0.1	8		
2002	45,190	51	0.1	4,410	9.8	11,997	26.6	12,634	28.0	10,320	22.8	4,674	10.3	1,036	2.3	61	0.1	7		
2003	45,935	47	0.1	4,116	9.0	11,901	25.9	13,033	28.4	10,840	23.6	4,842	10.5	1,067	2.3	80	0.2	9		
2004	45,660	55	0.1	3,980	8.7	11,769	25.8	12,959	28.4	10,704	23.4	4,994	10.9	1,102	2.4	87	0.2	10		
2005	45,905	52	0.1	3,992	8.7	11,644	25.4	13,381	29.1	10,432	22.7	5,276	11.5	1,051	2.3	75	0.2	2		
2006	48,684	45	0.1	4,263	8.8	12,176	25.0	14,298	29.4	11,184	23.0	5,534	11.4	1,084	2.2	95	0.2	5		
2007	49,373	50	0.1	4,328	8.8	12,259	24.8	14,319	29.0	11,396	23.1	5,795	11.7	1,114	2.3	102	0.2	10		
2008	49,117	38	0.1	4,474	9.1	11,986	24.4	14,274	29.1	11,471	23.4	5,693	11.6	1,101	2.2	75	0.2	5		
2009	47,188	39	0.1	4,074	8.6	10,877	23.1	13,831	29.3	11,551	24.5	5,572	11.8	1,165	2.5	76	0.2	3		
2010	45,596	27	0.1	3,511	7.7	10,325	22.6	13,381	29.3	11,480	25.2	5,580	12.2	1,202	2.6	90	0.2	0		

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

TABLE 2-2. Age Specific Birth Rates, Fertility Rates and Total Fertility Rates, Oregon, 1940, 1950, 1960, 1970, 1975-2010

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

*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, 1980-2010

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

TABLE 2-4. Age of Mother by Live Birth Order, Oregon Resident Births, 2010

Live Birth Order	Total Births	Age of Mother								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	45,596	27	3,511	10,325	13,381	11,480	5,580	1,202	90	–
First	18,549	27	2,966	5,321	4,945	3,579	1,404	288	19	–
Second	14,481	–	493	3,508	4,495	3,796	1,822	348	19	–
Third	7,276	–	48	1,143	2,477	2,260	1,099	226	23	–
Fourth	3,196	–	4	285	998	1,123	636	137	13	–
Fifth	1,212	–	–	58	323	444	301	81	5	–
Sixth	459	–	–	7	93	165	146	45	3	–
Seventh	225	–	–	2	34	52	95	40	2	–
Eighth	94	–	–	1	13	36	32	11	1	–
Ninth+	104	–	–	–	3	25	45	26	5	–

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

Table 2-5. Total Pregnancies¹ by Type of Outcome and Age Group, Oregon Residents, 2010

Type of Outcome	Total	Age Group								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	55,767	61	4,965	13,561	15,886	13,067	6,528	1,519	131	49
Live Births	45,596	27	3,511	10,325	13,381	11,480	5,580	1,202	90	–
Percent	81.8	44.3	70.7	76.1	84.2	87.9	85.5	79.1	68.7	–
Fetal Deaths	181	–	18	36	45	43	35	3	1	–
Percent	0.3	–	0.4	0.3	0.3	0.3	0.5	0.2	0.8	–
Induced Abortions ..	9,990	34	1,436	3,200	2,460	1,544	913	314	40	49
Percent	17.9	55.7	28.9	23.6	15.5	11.8	14.0	20.7	30.5	100.0

– 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, 2010

County of Residence	All Ages	Age Groups							
		10-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	54,874	4,900	13,342	15,632	12,921	6,410	1,495	128	46
Baker	177	16	49	65	33	9	4	1	—
Benton	915	57	210	228	237	143	38	1	1
Clackamas	4,629	351	995	1,353	1,167	600	152	11	—
Clatsop	497	43	147	153	98	39	13	3	1
Columbia	579	65	146	163	134	50	20	1	—
Coos	762	96	240	216	148	52	8	2	—
Crook	206	25	54	60	45	18	4	—	—
Curry	194	21	48	54	47	16	5	2	1
Deschutes	1,998	174	437	582	490	242	67	5	1
Douglas	1,230	156	385	385	191	87	23	3	—
Gilliam	22	*	*	*	*	*	*	*	*
Grant	67	*	*	*	*	*	*	*	*
Harney	92	*	*	*	*	*	*	*	*
Hood River	313	26	64	76	84	55	7	—	1
Jackson	2,861	274	883	814	594	218	70	3	5
Jefferson	310	57	104	76	52	15	6	—	—
Josephine	928	120	282	264	175	72	14	—	1
Klamath	902	131	307	233	137	83	11	—	—
Lake	74	*	*	*	*	*	*	*	*
Lane	4,427	376	1,197	1,291	1,019	423	106	11	4
Lincoln	535	58	157	155	110	35	17	3	—
Linn	1,639	165	476	542	286	144	24	1	1
Malheur	516	76	160	142	85	39	12	2	—
Marion	5,286	629	1,452	1,547	1,041	481	116	12	8
Morrow	184	22	42	48	44	23	4	—	1
Multnomah	12,555	906	2,642	3,260	3,299	1,953	445	38	12
Polk	1,023	91	288	301	236	90	16	1	—
Sherman	18	*	*	*	*	*	*	*	*
Tillamook	287	28	89	89	54	20	6	—	1
Umatilla	1,281	174	381	346	233	122	23	2	—
Union	315	35	104	106	48	18	4	—	—
Wallowa	66	*	*	*	*	*	*	*	*
Wasco	333	33	99	91	63	37	9	1	—
Washington	8,325	526	1,467	2,488	2,405	1,180	232	20	7
Wheeler	16	*	*	*	*	*	*	*	*
Yamhill	1,277	129	320	389	296	111	27	5	—
Unknown	35	4	10	9	3	7	1	—	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, 1975-2010

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

* 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, 2010

County of Residence	Total Births	Non-Hispanic Single Mention Race							Hispanic ⁴
		White	Black	AI/AN ¹	Asian	NH/PI ²	Other/NS ³	Multiple Races	
Total	45,596	30,849	944	541	2,076	333	94	1,363	9,237
Baker	165	149	—	2	1	—	—	4	8
Benton	727	545	3	5	61	3	3	23	84
Clackamas	3,869	2,943	36	20	153	21	10	93	564
Clatsop	413	327	—	3	5	1	1	11	65
Columbia	491	424	1	8	6	2	3	22	24
Coos	656	528	1	18	13	1	—	41	53
Crook	181	159	—	3	1	—	—	2	16
Curry	180	141	2	9	1	—	2	7	18
Deschutes	1,709	1,421	2	11	20	1	2	26	222
Douglas	1,049	908	2	21	13	2	—	32	66
Gilliam	21	17	—	—	—	1	—	—	3
Grant	59	54	1	1	1	—	—	—	1
Harney	88	75	—	3	—	—	—	2	7
Hood River	278	140	—	1	3	—	—	5	129
Jackson	2,341	1,747	12	31	26	7	2	56	448
Jefferson	280	104	1	69	1	—	—	15	85
Josephine	793	671	—	9	9	—	—	32	72
Klamath	803	567	7	29	9	—	1	32	156
Lake	70	60	—	1	1	—	—	3	5
Lane	3,495	2,679	25	42	96	13	6	152	455
Lincoln	443	307	1	19	4	—	1	20	91
Linn	1,456	1,175	1	21	26	1	—	57	170
Malheur	477	224	2	2	4	—	1	7	237
Marion	4,604	2,455	31	33	89	81	10	86	1,813
Morrow	163	74	—	—	2	—	1	2	84
Multnomah	9,610	6,094	684	69	665	126	15	338	1,589
Polk	911	651	4	20	10	6	—	29	190
Sherman	16	13	—	—	—	—	—	—	3
Tillamook	245	176	1	2	3	3	1	4	55
Umatilla	1,107	628	2	30	11	4	12	19	401
Union	281	232	—	2	4	7	1	5	23
Wallowa	61	55	—	1	—	1	1	—	3
Wasco	298	199	—	7	3	1	—	6	82
Washington ...	7,113	4,094	119	34	817	50	21	207	1,752
Wheeler	15	12	—	1	—	—	—	—	2
Yamhill	1,127	800	6	14	18	1	—	25	261
Unknown	1	1	—	—	—	—	—	—	—

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

TABLE 2-8. Ethnicity, Race and County of Residence of Mother, Oregon Resident Births, 2010 (Continued)

County of Residence	Total Births	Multiple Mention Race and Ethnicity							
		White	Black	AI/ AN ¹	Asian	NH/ PI ²	Other	NS ³	Hispanic ⁴
Total	45,596	38,946	1,324	1,511	2,574	507	2,267	370	9,237
Baker	165	157	1	5	1	—	5	—	8
Benton	727	610	6	12	75	7	44	5	84
Clackamas	3,869	3,410	58	82	198	34	138	83	564
Clatsop	413	376	—	13	9	4	24	3	65
Columbia	491	467	5	24	10	3	6	2	24
Coos	656	608	12	54	22	5	6	2	53
Crook	181	172	—	6	1	—	5	—	16
Curry	180	158	2	14	4	2	6	2	18
Deschutes	1,709	1,619	11	31	30	15	40	7	222
Douglas	1,049	992	7	49	23	5	15	1	66
Gilliam	21	19	—	1	—	1	—	—	3
Grant	59	56	1	1	1	—	—	—	1
Harney	88	81	—	7	—	—	—	2	7
Hood River	278	272	—	3	7	—	1	—	129
Jackson	2,341	2,045	27	82	42	15	164	56	448
Jefferson	280	157	1	93	2	4	21	21	85
Josephine	793	741	3	37	16	7	36	—	72
Klamath	803	655	15	63	16	1	95	5	156
Lake	70	68	1	3	1	—	1	—	5
Lane	3,495	3,016	62	160	151	28	255	40	455
Lincoln	443	379	1	41	7	—	38	2	91
Linn	1,456	1,321	5	67	41	8	74	6	170
Malheur	477	460	5	9	7	—	7	2	237
Marion	4,604	3,606	55	112	105	84	757	33	1,813
Morrow	163	148	—	2	2	—	12	2	84
Multnomah	9,610	7,744	845	259	794	164	218	46	1,589
Polk	911	755	8	44	18	7	125	4	190
Sherman	16	16	—	—	—	—	—	—	3
Tillamook	245	233	2	3	4	6	—	1	55
Umatilla	1,107	967	5	51	18	5	86	6	401
Union	281	249	1	5	8	12	11	5	23
Wallowa	61	58	—	2	—	1	1	—	3
Wasco	298	285	—	13	4	1	2	—	82
Washington ...	7,113	5,957	175	131	934	85	60	31	1,752
Wheeler	15	14	—	1	—	—	—	—	2
Yamhill	1,127	1,074	10	31	23	3	14	3	261
Unknown	1	1	—	—	—	—	—	—	—

— Quantity is zero.

¹ Includes American Indian & Alaskan Native.

² Includes Native Hawaiian & Pacific Islander.

³ NS indicates race not stated.

⁴ Includes any race.

**TABLE 2-9. Births to Unmarried Mothers,
Oregon Residents, 2010**

County of Residence	Total Births	Number Unmarried	Percent Unmarried ¹
Total	45,596	16,173	35.5
Baker	165	66	40.0
Benton	727	169	§ 23.3
Clackamas	3,869	1,105	§ 28.6
Clatsop	413	177	§ 42.9
Columbia	491	163	33.2
Coos	656	287	§ 43.8
Crook	181	69	38.3
Curry	180	54	48.2
Deschutes	1,709	549	§ 32.2
Douglas	1,049	467	§ 44.6
Gilliam	21	7	33.3
Grant	59	21	35.6
Harney	88	37	42.0
Hood River	278	73	§ 26.3
Jackson	2,341	943	§ 40.3
Jefferson	280	149	§ 53.2
Josephine	793	358	§ 45.3
Klamath	803	379	§ 47.3
Lake	70	25	35.7
Lane	3,495	1,337	§ 38.3
Lincoln	443	247	§ 55.8
Linn	1,456	525	36.1
Malheur	477	239	§ 50.1
Marion	4,604	1,966	§ 42.7
Morrow	163	66	40.5
Multnomah	9,610	3,229	§ 33.6
Polk	911	296	32.5
Sherman	16	1	§ 6.2
Tillamook	245	92	37.6
Umatilla	1,107	526	§ 47.6
Union	281	107	38.1
Wallowa	61	17	27.9
Wasco	298	130	§ 43.6
Washington	7,113	1,877	§ 26.4
Wheeler	15	5	33.3
Yamhill	1,127	414	36.7
Unknown	1	1	—

— Quantity is zero.

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

§ Percent unmarried is significantly different from the state.

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

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

TABLE 2-10. Age of Mother and County of Residence, Oregon Resident Births, 2010

County of Residence	Total Births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	45,596	27	3,511	10,325	13,381	11,480	5,580	1,202	90	-
Baker	165	-	15	44	62	31	9	3	1	-
Benton	727	1	38	126	188	218	128	27	1	-
Clackamas	3,869	-	235	758	1,180	1,055	511	123	7	-
Clatsop	413	-	32	123	126	88	33	9	2	-
Columbia	491	-	45	118	144	125	41	17	1	-
Coos	656	-	73	206	194	128	47	6	2	-
Crook	181	-	21	44	57	40	15	4	-	-
Curry	180	-	18	45	53	44	15	3	2	-
Deschutes	1,709	1	121	348	521	452	213	50	3	-
Douglas	1,049	-	110	337	339	163	79	19	2	-
Gilliam	21	-	1	7	5	4	4	-	-	-
Grant	59	-	8	19	20	5	3	4	-	-
Harney	88	-	8	26	30	15	5	4	-	-
Hood River	278	1	18	51	68	81	52	7	-	-
Jackson	2,341	-	205	688	701	516	176	54	1	-
Jefferson	280	1	47	95	71	48	13	5	-	-
Josephine	793	-	84	246	241	155	59	8	-	-
Klamath	803	2	111	269	214	125	74	8	-	-
Lake	70	-	5	26	19	15	5	-	-	-
Lane	3,495	5	257	854	1,075	862	357	79	6	-
Lincoln	443	-	48	129	129	97	28	11	1	-
Linn	1,456	2	122	412	498	269	131	22	-	-
Malheur	477	-	71	143	138	75	37	12	1	-
Marion	4,604	4	498	1,225	1,398	943	427	102	7	-
Morrow	163	-	20	39	42	36	22	4	-	-
Multnomah	9,610	5	553	1,711	2,449	2,819	1,683	360	30	-
Polk	911	2	63	248	279	221	83	14	1	-
Sherman	16	-	-	6	3	4	3	-	-	-
Tillamook	245	1	20	78	81	45	16	4	-	-
Umatilla	1,107	-	139	326	314	200	106	20	2	-
Union	281	-	27	94	99	41	16	4	-	-
Wallowa	61	-	3	15	19	21	2	1	-	-
Wasco	298	-	28	84	87	59	31	8	1	-
Washington	7,113	2	365	1,111	2,176	2,203	1,053	187	16	-
Wheeler	15	-	2	2	7	1	3	-	-	-
Yamhill	1,127	-	100	271	354	276	100	23	3	-
Unknown	1	-	-	1	-	-	-	-	-	-

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

TABLE 2-11. Unmarried Mothers by Age of Mother and County of Residence, Oregon Resident Births, 2010

County of Residence	Total Births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	16,173	27	2,949	5,844	3,965	2,151	979	237	21	-
Baker	66	-	13	23	20	3	5	2	-	-
Benton	169	1	29	64	40	19	9	6	1	-
Clackamas	1,105	-	195	383	304	136	69	17	1	-
Clatsop	177	-	25	66	38	28	12	7	1	-
Columbia	163	-	37	62	36	19	6	2	1	-
Coos	287	-	58	124	64	27	13	1	-	-
Crook	69	-	18	22	19	7	3	-	-	-
Curry	54	-	9	16	14	9	6	-	-	-
Deschutes	549	1	97	208	142	64	27	10	-	-
Douglas	467	-	95	192	110	48	19	3	-	-
Gilliam	7	-	1	2	2	1	1	-	-	-
Grant	21	-	6	6	6	1	1	1	-	-
Harney	37	-	7	19	7	1	2	1	-	-
Hood River	73	1	10	24	16	17	4	1	-	-
Jackson	943	-	174	377	220	117	42	13	-	-
Jefferson	149	1	42	58	27	17	4	-	-	-
Josephine	358	-	71	148	83	38	17	1	-	-
Klamath	379	2	94	162	68	26	22	5	-	-
Lake	25	-	3	12	5	5	-	-	-	-
Lane	1,337	5	221	486	317	212	81	15	-	-
Lincoln	247	-	40	87	62	45	8	5	-	-
Linn	525	2	100	214	135	44	26	4	-	-
Malheur	239	-	64	85	46	27	14	2	1	-
Marion	1,966	4	417	727	476	218	98	22	4	-
Morrow	66	-	15	18	18	9	5	1	-	-
Multnomah	3,229	5	471	1,007	851	541	282	65	7	-
Polk	296	2	52	132	55	38	15	2	-	-
Sherman	1	-	-	-	-	1	-	-	-	-
Tillamook	92	1	17	45	20	7	1	1	-	-
Umatilla	526	-	118	206	108	65	20	8	1	-
Union	107	-	22	45	26	9	5	-	-	-
Wallowa	17	-	3	3	6	4	1	-	-	-
Wasco	130	-	21	48	33	15	8	4	1	-
Washington	1,877	2	316	607	491	295	131	32	3	-
Wheeler	5	-	1	2	2	-	-	-	-	-
Yamhill	414	-	87	163	98	38	22	6	-	-
Unknown	1	-	-	1	-	-	-	-	-	-

- 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, 2010

Region & Selected Country of Mother's Birth	Total	Continent of Father's Birth					
		North & Central America	South America	Europe	Asia	Africa	Other & Unknown
Total	45,596	37,442	119	1,063	1,621	368	4,983
Carribean	57	46	1	2	–	1	7
Central America	5,646	5,047	5	7	10	4	573
El Salvador	86	72	2	2	–	–	10
Guatemala	173	153	–	–	1	1	18
Mexico	5,312	4,759	3	5	8	3	534
East Africa	207	4	–	–	1	187	15
Ethiopia	61	1	–	–	–	53	7
Somalia	113	–	–	–	1	109	3
East Asia	589	279	4	7	280	1	18
China	227	53	–	2	161	–	11
Japan	136	102	1	1	30	–	2
South Korea	162	94	2	3	59	–	4
Taiwan	51	24	1	1	24	1	–
East Europe	731	136	1	529	38	1	26
Moldavia	50	–	–	42	6	–	2
Romania	103	25	–	70	1	–	7
Russia	182	40	–	126	10	1	5
Ukraine	328	30	1	267	20	–	10
Eurasia	88	7	–	35	42	–	4
Oceania	234	51	1	4	4	1	173
Australia & New Zealand	35	24	1	3	3	–	4
Micronesia	181	23	–	1	–	1	156
Middle East	169	40	1	12	101	9	6
Saudi Arabia	49	10	–	1	37	–	1
North America	35,851	30,999	73	380	323	86	3,990
Canada	188	174	–	5	2	1	6
United States	35,663	30,825	73	375	321	85	3,984
North Africa	36	2	–	1	1	31	1
North Europe	130	101	–	21	3	2	3
United Kingdom	82	69	–	8	2	1	2
South America	148	105	28	7	3	1	4
Brazil	36	28	4	1	2	1	–
Southeast Asia	796	324	3	7	414	3	45
Laos	50	17	–	1	28	–	4
Philippines	230	155	2	4	54	1	14
Thailand	87	49	–	–	31	1	6
Vietnam	329	72	1	–	240	–	16
South Asia	427	39	–	1	382	–	5
India	362	30	–	1	328	–	3
South Europe	64	33	–	19	7	–	5
West Europe	202	159	1	23	4	–	15
Germany	161	131	1	13	3	–	13
Other & Unknown Countries	221	70	1	8	8	41	93

– Quantity is zero.

TABLE 2-13. Race, Ethnicity, and Place of Birth of Mother by Selected Demographic Characteristics (Percent), Oregon Resident Births, 2010

Characteristic of Mother	Total	Single Mention Race						Hispanic ¹	
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ NS ¹		Multiple Races
Total	45,596	30,849	944	541	2,076	333	94	1,363	9,237
Ratio of Males to Females ³	1,050	1,063	979	1,011	1,051	1,043	1,238	1,025	1,023
All Births									
All Births	45,596	30,849	944	541	2,076	333	94	1,363	9,237
Age 10-19	7.8	6.2	11.1	13.1	1.7	6.9	3.2	10.6	13.3
4 or more Live Births	11.6	9.6	18.5	15.3	5.0	21.3	11.7	9.9	18.6
Unmarried Mothers	35.5	31.1	60.3	62.4	13.4	52.3	36.0	49.8	48.7
Less than 12 Years Education	18.9	10.0	26.1	25.7	8.0	27.0	18.6	16.6	50.3
Mothers Born in the United States									
Total Born in the U.S.	35,663	29,091	645	535	354	99	62	1,274	3,467
Age 10-19	8.5	6.4	15.2	13.1	7.1	15.2	4.8	11.2	22.7
4 or more Live Births	9.7	9.3	14.0	15.5	5.1	13.1	6.5	10.0	12.1
Unmarried Mothers	36.5	32.3	77.7	62.8	27.4	43.4	33.9	51.2	55.7
Less than 12 Years Education	12.3	10.0	20.5	25.8	6.5	10.1	10.9	16.9	27.4
Mothers Born Outside the United States									
Total Born Outside of the U.S.	9,933	1,758	299	6	1,722	234	32	89	5,770
Age 10-19	5.3	3.1	2.3	16.7	0.6	3.4	-	2.2	7.6
4 or more Live Births	18.3	15.2	28.4	-	5.0	24.8	21.9	9.0	22.5
Unmarried Mothers	32.0	10.4	22.7	33.3	10.5	56.0	40.0	29.2	44.4
Less than 12 Years Education	42.7	9.6	38.4	16.7	8.3	34.2	32.3	12.4	64.1

- Quantity is zero.

TABLE 2-13. Race, Ethnicity, and Place of Birth of Mother by Selected Demographic Characteristics (Percent), Oregon Resident Births, 2010 (Continued)

Characteristic of Mother	Total	Multiple Mention Race and Ethnicity							
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic ¹
Total	45,596	38,946	1,324	1,511	2,574	507	2,267	370	9,237
Ratio of Males to Females ³	1,050	1,051	1,028	988	1,049	1,028	1,035	1,126	1,023
All Births									
All Births	45,596	38,946	1,324	1,511	2,574	507	2,267	370	9,237
Age 10-19	7.8	7.5	11.5	13.2	3.3	8.9	14.3	13.8	13.3
4 or more Live Births	11.6	11.2	16.6	13.8	5.5	18.5	18.1	12.4	18.6
Unmarried Mothers	35.5	34.6	61.7	59.5	17.6	49.7	49.7	40.9	48.7
Less than 12 Years Education	18.9	16.9	23.9	24.3	8.6	23.1	54.8	42.7	50.3
Mothers Born in the United States									
Total Born in the U.S.	35,663	32,962	994	1,473	753	251	763	204	3,467
Age 10-19	8.5	7.7	14.5	13.4	9.4	14.7	27.7	18.6	22.7
4 or more Live Births	9.7	9.5	13.0	13.8	6.0	12.7	11.8	9.8	12.1
Unmarried Mothers	36.5	34.7	74.1	59.9	33.2	43.8	59.2	41.6	55.7
Less than 12 Years Education	12.3	11.5	19.5	23.8	8.8	12.0	31.5	25.5	27.4
Mothers Born Outside the United States									
Total Born Outside of the U.S.	9,933	5,984	330	38	1,821	256	1,504	166	5,770
Age 10-19	5.3	6.2	2.4	5.3	0.7	3.1	7.6	7.8	7.6
4 or more Live Births	18.3	20.8	27.6	10.5	5.3	24.2	21.3	15.7	22.5
Unmarried Mothers	32.0	34.2	24.2	42.1	11.2	55.5	44.9	40.0	44.4
Less than 12 Years Education	42.7	46.9	37.3	40.5	8.5	34.1	66.6	58.8	64.1

⁻ 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, 2010

Characteristics	Total	Private Insurance	Self-Pay	Medicaid- /OHP*	Other	Unknown
Mother's Age and Marital Status						
Total	45,596	23,106	1,093	20,463	712	222
Married	29,246	19,323	770	8,474	539	140
Unmarried	16,173	3,667	311	11,965	150	80
Less Than 18	996	233	16	726	16	5
Married	72	10	1	58	3	—
Unmarried	923	223	15	668	12	5
18-24	12,867	3,313	243	8,969	297	45
Married	4,924	1,864	127	2,712	207	14
Unmarried	7,897	1,426	114	6,246	81	30
25-34	24,861	14,772	636	9,001	322	130
Married	18,659	13,154	477	4,668	266	94
Unmarried	6,116	1,561	150	4,324	45	36
35+	6,872	4,788	198	1,767	77	42
Married	5,591	4,295	165	1,036	63	32
Unmarried	1,237	457	32	727	12	9
First Trimester Care						
Total	33,126	19,367	554	12,569	487	149
Married	22,992	16,562	428	5,509	385	108
Unmarried	10,001	2,704	120	7,047	89	41
Percent	73.1	84.2	51.4	61.9	68.5	69.3
Married	79.0	86.1	56.1	65.4	71.6	78.8
Unmarried	62.3	74.2	39.5	59.4	59.3	53.2
Inadequate Prenatal Care						
Total	2,445	571	205	1,588	60	21
Married	1,089	386	111	549	37	6
Unmarried	1,345	183	92	1,035	21	14
Percent	5.5	2.5	19.2	7.9	8.5	9.9
Married	3.8	2.0	14.7	6.6	6.9	4.4
Unmarried	8.5	5.1	30.5	8.8	14.1	18.2
Tobacco Use						
Percent	11.3	4.4	7.4	19.5	11.4	7.8
Alcohol Use						
Percent	0.8	0.8	1.4	0.7	1.0	1.0
Low Birthweight						
Percent	6.3	5.7	6.2	6.9	7.7	9.2

— Quantity is zero.

* OHP = Oregon Health Plan.

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

**TABLE 2-15. Reported Use of Tobacco,
by Mother's Age and County of Residence, Oregon Births, 2010**

County of Residence	Total Births	Tobacco Use								
		Number	%	Tobacco Use by Age of Mother						
				<20	20-24	25-29	30-34	35-39	40+	N.S.
Total	45,596	5,115	11.3	646	1,893	1,503	729	280	64	—
Baker	165	55	33.3	8	22	19	3	1	2	—
Benton	727	59	8.1	11	19	16	6	7	—	—
Clackamas	3,869	350	9.1	33	115	114	62	21	5	—
Clatsop	413	69	16.9	12	24	21	9	2	1	—
Columbia	491	97	19.9	14	32	30	18	2	1	—
Coos	656	154	23.5	20	68	38	16	11	1	—
Crook	181	31	17.2	6	11	11	2	1	—	—
Curry	180	16	14.4	3	4	5	2	2	—	—
Deschutes	1,709	150	8.8	17	58	47	19	8	1	—
Douglas	1,049	260	25.0	30	114	79	28	5	4	—
Gilliam	21	—	—	—	—	—	—	—	—	—
Grant	59	7	12.3	1	4	2	—	—	—	—
Harney	88	17	19.5	2	8	4	2	—	1	—
Hood River	278	16	5.8	2	8	3	3	—	—	—
Jackson	2,341	343	14.8	50	145	94	39	12	3	—
Jefferson	280	37	13.4	1	21	10	5	—	—	—
Josephine	793	186	23.5	39	65	47	24	11	—	—
Klamath	803	164	20.6	21	74	39	14	14	2	—
Lake	70	14	20.0	2	7	3	2	—	—	—
Lane	3,495	501	14.5	65	178	141	86	24	7	—
Lincoln	443	97	21.9	12	38	28	16	2	1	—
Linn	1,456	264	18.2	42	105	74	28	13	2	—
Malheur	477	43	9.0	8	15	11	5	3	1	—
Marion	4,604	531	11.6	77	199	152	68	28	7	—
Morrow	163	18	11.0	2	4	7	4	1	—	—
Multnomah	9,610	770	8.1	74	224	244	150	62	16	—
Polk	911	119	13.1	12	47	29	22	7	2	—
Sherman	16	4	25.0	—	3	—	1	—	—	—
Tillamook	245	52	21.5	7	20	16	7	1	1	—
Umatilla	1,107	130	11.8	15	63	34	14	3	1	—
Union	281	58	20.7	10	25	17	3	3	—	—
Wallowa	61	4	6.6	—	—	2	2	—	—	—
Wasco	298	50	16.8	4	22	11	9	4	—	—
Washington	7,113	300	4.3	32	91	103	46	25	3	—
Wheeler	15	2	14.3	—	—	2	—	—	—	—
Yamhill	1,127	147	13.1	14	60	50	14	7	2	—

— Quantity is zero.

N.S. = Not Stated.

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

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

TABLE 2-16. Maternal Risk Factors by County of Residence, Oregon, 2010

County of Residence	Live Births	Inadequate Care ¹	Minority Race/Ethnicity ²	Age < 18	Age >=35	4+ Live Births	<12 Years Educ.	Unmarried	Tobacco Use
Total	45,596	5.5	32.2	2.2	15.1	11.6	18.9	35.5	11.3
Baker	165	5.5	9.1	1.8	7.9	17.0	18.3	40.0	33.3
Benton	727	4.1	25.0	1.5	21.5	8.7	9.7	23.3	8.1
Clackamas	3,869	6.9	23.7	1.5	16.6	10.5	12.3	28.6	9.1
Clatsop	413	4.9	20.8	1.5	10.7	12.6	21.4	42.9	16.9
Columbia	491	4.2	13.4	2.2	12.0	12.8	15.1	33.2	19.9
Coos	656	7.3	19.4	1.1	8.4	11.7	20.0	43.8	23.5
Crook	181	4.4	12.2	2.8	10.5	8.8	16.6	38.3	17.2
Curry	180	4.4	21.7	2.8	11.1	12.2	16.8	48.2	14.4
Deschutes	1,709	3.2	16.8	2.1	15.6	9.3	14.3	32.2	8.8
Douglas	1,049	3.5	13.0	2.6	9.5	14.0	16.8	44.6	25.0
Gilliam	21	4.8	19.0	4.8	19.0	9.5	9.5	33.3	—
Grant	59	8.5	6.8	—	11.9	13.6	6.8	35.6	12.3
Harney	88	6.0	13.6	3.4	10.2	13.6	12.6	42.0	19.5
Hood River	278	1.5	49.6	1.8	21.2	11.2	27.7	26.3	5.8
Jackson	2,341	5.7	25.3	2.3	9.9	11.7	21.8	40.3	14.8
Jefferson	280	7.6	62.1	3.9	6.4	21.4	29.0	53.2	13.4
Josephine	793	6.7	15.4	2.5	8.4	9.5	15.6	45.3	23.5
Klamath	803	5.5	29.5	3.5	10.2	12.2	21.7	47.3	20.6
Lake	70	7.2	14.3	1.4	7.1	10.0	8.6	35.7	20.0
Lane	3,495	5.3	22.8	2.0	12.6	10.0	15.0	38.3	14.5
Lincoln	443	4.3	30.7	2.0	9.0	8.6	24.8	55.8	21.9
Linn	1,456	4.3	19.1	2.6	10.5	11.5	18.0	36.1	18.2
Malheur	477	12.8	53.0	4.4	10.5	19.9	35.8	50.1	9.0
Marion	4,604	5.6	46.7	3.6	11.6	16.3	29.8	42.7	11.6
Morrow	163	13.5	54.6	1.8	16.0	22.1	36.8	40.5	11.0
Multnomah	9,610	6.6	36.6	1.7	21.6	10.4	17.5	33.6	8.1
Polk	911	6.2	28.4	2.5	10.8	13.1	18.2	32.5	13.1
Sherman	16	6.2	18.8	—	18.8	25.0	12.5	6.2	25.0
Tillamook	245	5.3	28.2	2.0	8.2	12.2	18.4	37.6	21.5
Umatilla	1,107	9.7	43.3	3.6	11.6	17.7	30.6	47.6	11.8
Union	281	9.6	15.3	2.5	7.1	14.2	17.9	38.1	20.7
Wallowa	61	3.4	9.8	1.6	4.9	6.6	9.8	27.9	6.6
Wasco	298	5.1	33.2	1.7	13.4	14.4	21.8	43.6	16.8
Washington	7,113	3.0	42.4	1.6	17.7	9.6	16.4	26.4	4.3
Wheeler	15	—	20.0	—	20.0	26.7	26.7	33.3	14.3
Yamhill	1,127	3.4	29.0	3.3	11.2	11.4	23.2	36.7	13.1

— Quantity is zero.

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

² Includes nonwhite race and Hispanic ethnicity.

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, 2010**

Mother's Age	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	45,596	33,126	73.1	2,445	5.5
Less than 15	27	12	46.2	5	19.2
15-19	3,511	2,014	57.9	326	9.5
20-24	10,325	6,693	65.4	765	7.6
25-29	13,381	9,994	75.0	685	5.2
30-34	11,480	9,096	79.6	407	3.6
35-39	5,580	4,354	78.5	206	3.8
40-44	1,202	894	74.5	47	4.0
45+	90	69	76.7	4	4.7

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

WARNING: Rates and percentages based on less than 5 events are unreliable.
NOTE: Rates and percentages are calculated excluding missing and unknown values.

TABLE 2-18. Prenatal Care by Mother’s Race and Ethnicity, Oregon Residents, 2010

Mother’s Race/Ethnicity	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	45,596	33,126	73.1	2,445	5.5
Non-Hispanic Single Mention Race					
Total Non-Hispanic	36,200	27,096	75.3	1,814	5.1
White	30,849	23,438	76.5	1,390	4.6
African American	944	582	62.5	86	9.5
American Indian	541	355	66.0	45	8.5
Asian	2,076	1,602	77.4	93	4.5
Hawaiian/Pacific Islander	333	125	37.5	102	31.3
Other/Unknown	94	60	69.0	4	4.7
Multiple Races	1,363	934	68.8	94	7.0
Hispanic Single Mention Race					
Total Hispanic	9,237	5,931	64.5	615	6.8
White	6,606	4,248	64.7	407	6.3
African American	48	30	62.5	1	2.1
American Indian	120	72	60.0	18	15.5
Asian	40	24	60.0	2	5.3
Hawaiian/Pacific Islander	19	12	63.2	2	10.5
Other/Unknown	2,239	1,439	64.4	169	7.6
Multiple Races	165	106	65.0	16	9.9
Multiple Mention Race and Ethnicity					
White	38,946	28,703	74.2	1,901	5.0
African American	1,324	826	63.1	115	9.0
American Indian	1,511	990	65.9	130	8.7
Asian	2,574	1,964	76.6	119	4.7
Hawaiian/Pacific Islander	507	236	46.5	117	23.4
Other	2,267	1,475	65.2	175	7.8
Unknown	370	228	63.7	26	7.5
Hispanic	9,237	5,931	64.5	615	6.8

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, 2010**

Mother's Education	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	45,596	33,126	73.1	2,445	5.5
8th Grade or Less	2,402	1,398	58.4	196	8.3
9th to 12th Grade, No Diploma	6,191	3,610	58.8	620	10.2
High School Graduate or GED	10,560	6,947	66.3	723	7.0
Some College, No Degree	10,871	8,045	74.4	538	5.0
Associates Degree	3,092	2,461	80.1	113	3.7
Bachelors Degree	7,856	6,671	85.2	159	2.1
Masters Degree	3,450	3,031	88.2	60	1.8
Doctorate or Professional Degree ..	971	842	87.2	10	1.0
Unknown	203	121	62.7	26	14.2

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, 2010

County of Residence	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	45,596	33,126	73.1	2,445	5.5
Baker	165	119	72.1	9	5.5
Benton	727	572	79.4	29	4.1
Clackamas	3,869	2,801	73.2	257	§ 6.9
Clatsop	413	288	70.1	20	4.9
Columbia	491	378	77.9	20	4.2
Coos	656	478	72.9	48	7.3
Crook	181	132	73.3	8	4.4
Curry	180	131	72.8	8	4.4
Deschutes	1,709	1,365	§ 79.9	55	§ 3.2
Douglas	1,049	827	§ 79.1	36	§ 3.5
Gilliam	21	15	71.4	1	4.8
Grant	59	44	74.6	5	8.5
Harney	88	61	72.6	5	6.0
Hood River	278	219	79.3	4	§ 1.5
Jackson	2,341	1,687	72.3	132	5.7
Jefferson	280	194	69.5	21	7.6
Josephine	793	612	77.3	53	6.7
Klamath	803	517	§ 64.5	44	5.5
Lake	70	43	62.3	5	7.2
Lane	3,495	2,663	§ 76.4	183	5.3
Lincoln	443	317	71.7	19	4.3
Linn	1,456	1,130	§ 79.9	59	4.3
Malheur	477	241	§ 50.7	61	§ 12.8
Marion	4,604	3,076	§ 67.1	255	5.6
Morrow	163	81	§ 49.7	22	§ 13.5
Multnomah	9,610	6,707	§ 70.1	620	§ 6.6
Polk	911	673	74.5	56	6.2
Sherman	16	14	87.5	1	6.2
Tillamook	245	143	§ 58.6	13	5.3
Umatilla	1,107	680	§ 61.5	107	§ 9.7
Union	281	169	§ 60.1	27	§ 9.6
Wallowa	61	46	76.7	2	3.4
Wasco	298	246	83.1	15	5.1
Washington	7,113	5,581	§ 79.1	207	§ 3.0
Wheeler	15	7	46.7	–	–
Yamhill	1,127	868	77.5	38	§ 3.4

– Quantity is zero.

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

§ Rate is significantly different from the state rate.

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

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

**TABLE 2-21. Prenatal Care by Resident County
for Unmarried Mothers, Oregon Residents, 2010**

County of Residence	Total Births	First Trimester Care		Inadequate Prenatal Care ¹	
		Number	Percent	Number	Percent
Total	16,173	10,001	62.3	1,345	8.5
Baker	66	45	68.2	8	12.3
Benton	169	104	62.7	11	6.7
Clackamas	1,105	653	60.0	106	10.0
Clatsop	177	107	60.8	13	7.4
Columbia	163	115	71.9	13	8.2
Coos	287	185	64.5	34	11.8
Crook	69	44	64.7	4	5.9
Curry	54	36	66.7	2	3.7
Deschutes	549	375	68.4	32	5.9
Douglas	467	327	§ 70.2	25	§ 5.4
Gilliam	7	*	*	*	*
Grant	21	12	57.1	2	9.5
Harney	37	20	58.8	2	5.9
Hood River	73	45	61.6	—	—
Jackson	943	588	62.8	69	7.4
Jefferson	149	97	65.5	15	10.2
Josephine	358	252	70.4	30	8.4
Klamath	379	226	59.8	31	8.2
Lake	25	11	45.8	2	8.3
Lane	1,337	895	§ 67.3	105	7.9
Lincoln	247	165	67.1	13	5.3
Linn	525	368	§ 73.0	30	6.3
Malheur	239	93	§ 39.1	40	§ 16.8
Marion	1,966	1,154	58.8	153	7.9
Morrow	66	34	51.5	11	16.7
Multnomah	3,229	1,893	§ 59.1	359	§ 11.5
Polk	296	187	64.0	29	9.9
Sherman	1	*	*	*	*
Tillamook	92	50	54.9	3	3.3
Umatilla	526	288	§ 55.0	61	11.7
Union	107	56	52.3	17	§ 15.9
Wallowa	17	12	70.6	2	13.3
Wasco	130	96	75.0	9	7.0
Washington	1,877	1,190	64.0	93	§ 5.1
Wheeler	5	*	*	*	*
Yamhill	414	272	66.2	21	§ 5.1

— 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, 2010**

Birthweight (in grams)	Total Births	First Trimester Care		Inadequate Care ¹	
		Number	Percent	Number	Percent
Total	45,596	33,126	73.1	2,445	5.5
Low Birthweight					
Total Low Birthweight ...	2,873	2,045	71.8	313	11.1
499 & Less	42	28	70.0	22	55.0
500-999	184	131	72.8	57	31.7
1000-1499	254	178	70.4	49	19.4
1500-1999	548	387	70.9	62	11.5
2000-2499	1,845	1,321	72.3	123	6.8
Birthweight Greater Than 2499 grams					
2500-2999	6,998	4,925	70.8	422	6.2
3000-3499	17,061	12,383	73.0	843	5.0
3500-3999	13,935	10,252	74.0	637	4.7
4000-4499	4,015	3,004	75.2	190	4.8
4500-4999	629	470	75.4	36	5.8
5000 & Over	77	45	58.4	4	5.3
Unknown	8	2	66.7	—	—

— Quantity is zero.

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

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

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

TABLE 2-23. Rates¹ of Selected Medical Risk Factors by Age of Mother, Oregon Residents, 2010

Medical Risk Factor of Mother	Total Births ²	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Total Births	45,596	27	3,511	10,325	13,381	11,480	5,580	1,202	90
Diabetes-Chronic	8.1	—	2.6	4.0	6.2	9.8	18.1	16.6	22.2
Diabetes-Gestational	63.1	37.0	19.9	34.1	55.2	79.6	111.1	137.3	177.8
Hypertension-Chronic	14.6	—	3.1	10.0	12.3	16.6	26.5	36.6	77.8
Hypertension-Gestational	55.1	111.1	61.0	48.8	56.4	54.4	55.6	71.5	177.8
Eclampsia	7.7	—	11.4	7.9	6.0	7.4	8.8	11.6	—
Previous Preterm Infant ³	31.7	—	7.4	23.6	33.0	36.7	43.4	54.9	55.6
Previous Poor Pregnancy Outcome ⁴	24.8	—	8.5	17.2	22.7	27.4	41.9	53.2	66.7
Vaginal Bleeding	17.9	—	18.5	19.2	17.4	14.6	22.4	19.1	22.2
Infertility Treatment	17.7	—	0.3	2.1	9.5	23.4	44.6	86.5	388.9
Previous Cesarean Delivery ...	129.9	—	23.1	93.1	128.8	157.5	192.8	211.3	244.4

— 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, 2010

Characteristic	Total Births ¹	Age of Mother							
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
All Births - Mother									
Total Births	45,596	27	3,511	10,325	13,381	11,480	5,580	1,202	90
First Trimester Care	73.1	46.2	57.9	65.4	75.0	79.6	78.5	74.5	76.7
Inadequate Care ²	5.5	19.2	9.5	7.6	5.2	3.6	3.8	4.0	4.7
No Prenatal Care	0.6	3.8	0.8	0.8	0.7	0.4	0.5	0.2	1.2
Out-Of-Hospital Birth ..	3.4	3.7	0.8	1.9	3.6	4.6	4.6	4.7	1.1
Primary Cesarean	18.2	22.2	16.7	17.2	16.9	18.9	20.9	26.0	41.1
Repeat Cesarean	11.1	—	2.0	8.3	10.9	13.3	16.5	17.9	24.4
Multiple Births	3.4	—	1.0	2.6	2.8	4.0	5.1	7.6	25.6
Tobacco Use	11.3	3.7	18.5	18.5	11.4	6.4	5.1	5.0	5.6
Overweight/Obese ³	48.3	—	37.3	49.1	50.0	48.4	48.4	52.2	56.8
All Births - Infant									
Preterm Births ⁴	7.9	7.4	8.4	7.8	7.4	7.3	9.3	11.8	27.8
Very Low Birthweight ⁵	1.1	—	1.3	1.1	1.0	0.8	1.3	1.6	6.7
Low Birthweight ⁶	6.3	—	7.7	6.7	5.5	5.7	7.2	7.9	21.1
Fetal Macrosomia ⁷	10.4	—	6.5	8.6	10.7	12.0	11.8	12.1	5.6
5 Minute Apgar < 7	2.7	14.8	3.6	2.8	2.5	2.4	2.7	3.2	7.9
Mothers Born in the U.S.									
Total Births	35,663	23	2,992	8,443	10,558	8,776	3,969	853	49
First Trimester Care	75.3	50.0	60.0	67.0	77.9	82.4	81.1	78.6	83.7
Inadequate Care ²	5.0	18.2	9.0	7.0	4.6	3.2	3.1	3.1	4.2
No Prenatal Care	0.6	4.5	0.9	0.8	0.5	0.4	0.5	0.1	—
Out-Of-Hospital Birth ..	4.0	4.3	0.7	2.1	4.2	5.5	5.7	6.2	—
Primary Cesarean	18.7	21.7	16.9	17.8	17.6	19.1	21.6	25.8	36.7
Repeat Cesarean	10.6	—	1.9	8.2	10.6	12.6	16.1	17.5	26.5
Multiple Births	3.5	—	1.0	2.7	3.2	4.0	5.8	7.6	28.6
Tobacco Use	14.2	4.3	21.6	22.2	14.1	8.1	6.8	6.4	10.2
Overweight/Obese ³	48.4	—	37.7	50.3	50.5	48.1	47.2	50.4	63.3
Infants of Mothers Born in the U.S.									
Preterm Births ⁴	7.9	4.3	8.4	8.0	7.5	7.3	9.1	11.0	32.7
Very Low Birthweight ⁵	1.0	—	1.1	1.1	1.0	0.7	1.2	0.7	6.1
Low Birthweight ⁶	6.3	—	7.7	6.9	5.8	5.5	7.1	6.8	20.4
Fetal Macrosomia ⁷	10.7	—	6.7	8.7	11.1	12.6	12.4	13.1	4.1
5 Minute Apgar < 7	2.8	13.0	3.6	2.9	2.7	2.5	2.8	3.1	6.1

— 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, 2010 (Continued)

Characteristic	Total Births	Age of Mother							
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Mothers Born Outside the U.S.									
Total Births	9,933	4	519	1,882	2,823	2,704	1,611	349	41
First Trimester Care	65.2	25.0	46.0	58.2	64.4	70.7	72.2	64.5	68.3
Inadequate Care ²	7.1	25.0	12.0	10.0	7.4	4.9	5.3	6.2	5.3
No Prenatal Care	0.8	–	0.8	0.9	1.0	0.5	0.6	0.3	2.6
Out-Of-Hospital Birth ..	1.3	–	1.0	0.9	1.2	1.4	1.9	0.9	2.4
Primary Cesarean	16.8	25.0	15.6	14.6	14.1	18.2	19.2	26.6	46.3
Repeat Cesarean	13.1	–	2.3	8.7	12.2	15.5	17.6	18.9	22.0
Multiple Births	2.8	–	0.8	2.2	1.5	3.7	3.4	7.4	22.0
Tobacco Use	1.2	–	1.2	2.1	1.1	1.0	0.8	1.5	–
Overweight/Obese ³	47.9	–	35.1	43.7	48.4	49.5	51.4	56.7	48.7
Infants of Mothers Born Outside the U.S.									
Preterm Births ⁴	7.8	25.0	8.1	6.9	6.7	7.2	9.7	13.8	22.0
Very Low Birthweight ⁵	1.4	–	1.9	1.4	0.9	1.2	1.6	3.7	7.3
Low Birthweight ⁶	6.3	–	7.9	6.1	4.6	6.2	7.6	10.6	22.0
Fetal Macrosomia ⁷	9.1	–	5.8	7.9	8.8	10.0	10.2	9.7	7.3
5 Minute Apgar < 7	2.3	25.0	3.7	2.1	1.9	2.3	2.3	3.7	10.0

– Quantity is zero.

1 There were no births with unknown age of mother.

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

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

4 Born prior to 37 completed weeks of gestation.

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

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

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

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

TABLE 2-25. Selected Medical or Health Characteristics by Mother's Race (Percents), Oregon Resident Births, 2010

Characteristic	Total Births	Single Mention Race							Hispanic ¹
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ Unk.	Mult. Races	
All Births - Mother									
Total Births	45,596	30,849	944	541	2,076	333	94	1,363	9,237
First Trimester Care	73.1	76.5	62.5	66.0	77.4	37.5	69.0	68.8	64.5
Inadequate Care ²	5.5	4.6	9.5	8.5	4.5	31.3	4.7	7.0	6.8
No Prenatal Care	0.6	0.5	1.1	1.5	0.6	4.0	—	0.7	0.7
Out-Of-Hospital Birth ..	3.4	4.4	1.4	1.7	1.8	0.3	7.4	2.3	0.9
Primary Cesarean	18.2	18.5	19.9	18.7	22.6	25.5	22.3	21.3	15.3
Repeat Cesarean	11.1	10.5	12.4	12.2	11.6	16.5	12.8	11.2	12.8
Multiple Births	3.4	3.6	3.9	4.4	4.2	4.2	4.3	3.1	2.4
Tobacco Use	11.3	13.7	11.1	21.6	1.9	4.5	3.5	20.1	3.8
Overweight/Obese ³	48.3	46.1	57.6	61.0	21.5	68.1	43.5	53.0	58.8
All Births - Infant									
Preterm Births ⁴	7.9	7.7	10.4	10.0	8.6	12.3	10.9	8.1	7.9
Very Low Birthweight ⁵	1.1	0.9	2.3	1.1	1.5	3.0	1.1	1.6	1.1
Low Birthweight ⁶	6.3	6.0	10.9	7.4	7.8	11.1	7.6	6.8	6.1
Fetal Macrosomia ⁷	10.4	11.2	5.4	11.8	5.4	8.7	15.2	10.3	9.0
5 Minute Apgar < 7	2.7	2.8	4.0	3.7	2.7	2.4	3.4	3.4	2.0
Mothers Born in the U.S.									
Total Births	35,663	29,091	645	535	354	99	62	1,274	3,467
First Trimester Care	75.3	77.1	65.8	66.2	74.5	56.6	71.9	68.5	66.8
Inadequate Care ²	5.0	4.5	9.9	8.6	4.3	22.7	1.8	7.0	6.7
No Prenatal Care	0.6	0.5	1.1	1.5	0.9	1.0	—	0.7	0.8
Out-Of-Hospital Birth ..	4.0	4.4	1.7	1.7	3.1	1.0	9.7	2.3	1.5
Primary Cesarean	18.7	18.7	18.4	18.5	16.9	25.3	22.6	21.7	17.5
Repeat Cesarean	10.6	10.5	12.6	12.3	9.0	15.2	6.5	10.8	10.3
Multiple Births	3.5	3.6	3.1	4.1	3.4	4.0	6.7	3.1	3.2
Tobacco Use	14.2	14.4	16.2	21.6	4.8	6.1	3.6	20.8	9.3
Overweight/Obese ³	48.4	46.7	61.1	61.3	32.2	69.8	43.6	53.3	57.9
Infants of Mothers Born in the U.S.									
Preterm Births ⁴	7.9	7.7	11.9	10.1	8.8	9.1	13.3	8.2	8.4
Very Low Birthweight ⁵	1.0	0.9	2.8	1.1	0.8	3.0	—	1.5	1.0
Low Birthweight ⁶	6.3	6.0	12.4	7.3	7.1	8.1	10.0	6.4	7.2
Fetal Macrosomia ⁷	10.7	11.2	4.5	11.8	5.1	15.2	13.3	10.4	8.3
5 Minute Apgar < 7	2.8	2.8	4.0	3.8	2.0	3.0	1.7	3.3	2.3

— 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, 2010 (Continued)

Characteristic	Total Births	Single Mention Race							Hispanic ¹
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ Unk.	Mult. Races	
Mothers Born Outside the U.S.									
Total Births	9,933	1,758	299	6	1,722	234	32	89	5,770
First Trimester Care	65.2	65.8	55.6	50.0	78.0	29.5	63.3	73.0	63.2
Inadequate Care ²	7.1	6.5	8.7	–	4.6	34.9	10.0	6.8	6.8
No Prenatal Care	0.8	0.6	1.0	–	0.6	5.2	–	–	0.7
Out-Of-Hospital Birth ..	1.3	3.8	0.7	–	1.5	–	3.1	2.2	0.5
Primary Cesarean	16.8	16.6	23.1	33.3	23.8	25.6	21.9	14.6	14.0
Repeat Cesarean	13.1	9.3	12.0	–	12.1	17.1	25.0	15.7	14.3
Multiple Births	2.8	3.5	5.7	33.3	4.4	4.3	–	2.2	1.9
Tobacco Use	1.2	2.5	–	16.7	1.3	3.8	3.3	10.1	0.5
Overweight/Obese ³	47.9	36.4	49.8	33.3	19.2	67.4	43.3	48.9	59.3
Infants of Mothers Born Outside the U.S.									
Preterm Births ⁴	7.8	7.2	7.0	–	8.5	13.7	6.2	6.7	7.6
Very Low Birthweight ⁵	1.4	1.1	1.3	–	1.6	3.0	3.1	3.4	1.2
Low Birthweight ⁶	6.3	5.7	7.7	16.7	8.0	12.4	3.1	12.4	5.5
Fetal Macrosomia ⁷	9.1	11.7	7.4	16.7	5.5	6.0	18.8	9.0	9.4
5 Minute Apgar < 7	2.3	2.8	4.0	–	2.9	2.1	6.7	4.5	1.8

– 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, 2010**

Characteristic	Total Births	Multiple Mention Race and Ethnicity							
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic ¹
All Births - Mother									
Total Births	45,596	38,946	1,324	1,511	2,574	507	2,267	370	9,237
First Trimester Care	73.1	74.2	63.1	65.9	76.6	46.5	65.2	63.7	64.5
Inadequate Care ²	5.5	5.0	9.0	8.7	4.7	23.4	7.8	7.5	6.8
No Prenatal Care	0.6	0.5	1.0	1.0	0.6	2.8	1.0	1.4	0.7
Out-Of-Hospital Birth ..	3.4	3.7	1.4	1.7	2.0	1.0	1.3	4.6	0.9
Primary Cesarean	18.2	18.1	20.3	19.8	22.6	22.7	14.6	16.8	15.3
Repeat Cesarean	11.1	10.9	11.8	11.8	11.1	13.6	13.1	10.8	12.8
Multiple Births	3.4	3.3	4.5	4.2	3.8	2.8	2.5	1.6	2.4
Tobacco Use	11.3	12.3	14.5	22.4	3.4	8.3	3.7	3.8	3.8
Overweight/Obese ³	48.3	48.5	57.7	59.2	26.1	63.4	58.6	56.7	58.8
All Births - Infant									
Preterm Births ⁴	7.9	7.7	10.1	10.1	8.2	10.1	9.1	6.8	7.9
Very Low Birthweight ⁵	1.1	1.0	2.1	1.6	1.5	2.4	1.3	1.4	1.1
Low Birthweight ⁶	6.3	6.0	10.1	8.1	7.3	9.3	6.7	4.9	6.1
Fetal Macrosomia ⁷	10.4	10.8	5.7	11.8	6.4	9.3	8.6	9.6	9.0
5 Minute Apgar < 7	2.7	2.6	3.2	3.8	3.0	2.8	2.3	3.9	2.0
Mothers Born in the U.S.									
Total Births	35,663	32,962	994	1,473	753	251	763	204	3,467
First Trimester Care	75.3	76.0	65.3	65.9	73.9	62.5	65.7	67.5	66.8
Inadequate Care ²	5.0	4.7	9.2	8.8	4.9	13.3	6.3	9.6	6.7
No Prenatal Care	0.6	0.5	1.0	1.0	0.8	0.8	0.8	2.7	0.8
Out-Of-Hospital Birth ..	4.0	4.1	1.7	1.6	3.2	2.0	2.1	6.4	1.5
Primary Cesarean	18.7	18.7	19.4	20.0	21.0	21.1	16.4	17.6	17.5
Repeat Cesarean	10.6	10.6	11.7	11.9	8.4	10.8	9.3	8.3	10.3
Multiple Births	3.5	3.5	3.9	4.1	2.7	1.6	2.9	2.0	3.2
Tobacco Use	14.2	14.3	18.9	22.9	8.0	12.1	8.8	7.2	9.3
Overweight/Obese ³	48.4	47.8	60.3	59.3	39.0	61.4	57.4	54.3	57.9
Infants of Mothers Born in the U.S.									
Preterm Births ⁴	7.9	7.8	11.0	10.0	7.6	6.8	9.2	7.5	8.4
Very Low Birthweight ⁵	1.0	0.9	2.2	1.6	0.9	2.0	0.8	2.0	1.0
Low Birthweight ⁶	6.3	6.1	10.9	7.9	5.8	6.4	7.5	6.0	7.2
Fetal Macrosomia ⁷	10.7	10.9	5.3	11.7	8.0	12.4	8.3	10.0	8.3
5 Minute Apgar < 7	2.8	2.8	2.9	3.8	3.1	2.8	2.0	4.0	2.3

See footnotes at end of table.

TABLE 2-25. Selected Medical or Health Characteristics by Mother's Race (Percents), Oregon Resident Births, 2010 (Continued)

Characteristic	Total Births	Multiple Mention Race and Ethnicity							
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic ¹
Mothers Born Outside the U.S.									
Total Births	9,933	5,984	330	38	1,821	256	1,504	166	5,770
First Trimester Care	65.2	63.8	56.4	63.2	77.7	30.9	65.0	59.1	63.2
Inadequate Care ²	7.1	6.3	8.4	7.9	4.6	33.5	8.5	5.0	6.8
No Prenatal Care	0.8	0.6	0.9	2.6	0.6	4.8	1.1	–	0.7
Out-Of-Hospital Birth ..	1.3	1.4	0.6	2.6	1.5	–	0.9	2.4	0.5
Primary Cesarean	16.8	14.9	23.0	13.2	23.3	24.2	13.8	15.7	14.0
Repeat Cesarean	13.1	12.8	12.1	7.9	12.2	16.4	15.0	13.9	14.3
Multiple Births	2.8	2.2	6.4	5.3	4.2	3.9	2.3	1.2	1.9
Tobacco Use	1.2	1.1	1.2	5.3	1.5	4.7	1.1	–	0.5
Overweight/Obese ³	47.9	52.4	49.4	56.8	20.8	65.4	59.2	59.4	59.3
Infants of Mothers Born Outside the U.S.									
Preterm Births ⁴	7.8	7.2	7.6	13.2	8.5	13.3	9.1	6.0	7.6
Very Low Birthweight ⁵	1.4	1.2	1.8	2.6	1.8	2.7	1.5	0.6	1.2
Low Birthweight ⁶	6.3	5.5	7.9	15.8	7.9	12.1	6.3	3.6	5.5
Fetal Macrosomia ⁷	9.1	10.3	7.0	15.8	5.7	6.2	8.8	9.0	9.4
5 Minute Apgar < 7	2.3	2.0	3.9	2.6	3.0	2.7	2.5	3.6	1.8

– 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, 2010

Medical Risk Factor of Mother	Total Births ¹	Single Mention Race							Hispanic ²
		White	African American	American Indian	Asian	Hawaiian/Pacific Islander	Other/NS	Multiple Races	
Total Births	45,596	30,849	944	541	2,076	333	94	1,363	9,237
Diabetes-Chronic	368	195	8	6	14	11	-	16	117
Diabetes-Gestational	2,877	1,596	53	38	277	29	7	86	777
Hypertension-Chronic	667	466	21	7	18	4	4	24	119
Hypertension-Gestational	2,513	1,783	51	45	80	26	7	99	409
Eclampsia	350	226	3	5	10	5	-	14	87
Previous Preterm Infant ³	1,445	911	29	20	48	12	3	62	355
Previous Poor Pregnancy Outcome ⁴	1,130	673	33	11	43	5	1	46	314
Vaginal Bleeding	814	553	14	13	23	12	2	31	166
Infertility Treatment	302	229	1	5	26	1	1	8	30
Previous Cesarean Delivery ...	5,925	3,734	143	70	279	62	15	172	1,430

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

**TABLE 2-26. Mothers with Selected Medical Risk Factors by Race of Mother, Oregon Residents, 2010
(Continued)**

Medical Risk Factor of Mother	Total Births	Multiple Mention Race and Ethnicity							
		White	African American	American Indian	Asian	Hawaiian/Pacific Islander	Other	NS	Hispanic ²
Total Births	45,596	38,946	1,324	1,511	2,574	507	2,267	370	9,237
Diabetes-Chronic	368	288	11	20	20	18	41	1	117
Diabetes-Gestational	2,877	2,226	71	105	312	39	223	26	777
Hypertension-Chronic	667	573	35	22	28	12	31	7	119
Hypertension-Gestational	2,513	2,179	84	121	100	34	109	26	409
Eclampsia	350	308	6	13	14	7	21	1	87
Previous Preterm Infant ³	1,445	1,220	53	74	64	16	103	7	355
Previous Poor Pregnancy Outcome ⁴	1,130	971	47	42	59	13	56	7	314
Vaginal Bleeding	814	675	22	34	33	15	74	4	166
Infertility Treatment	302	258	3	8	31	3	7	1	30
Previous Cesarean Delivery ...	5,925	4,974	189	199	330	79	341	48	1,430

- 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, 2010

County of Occurrence	Total	Born in Hospital or on Arrival					
		Total Hospital Births	M.D.	D.O.	C.N.M.	Other Licensed Medical	Non-Medical
Total	45,904	44,330	34,707	2,211	7,257	147	8
Baker	130	120	119	—	—	1	—
Benton	1,099	1,051	678	—	368	5	—
Clackamas	4,342	4,252	2,707	46	1,499	—	—
Clatsop	478	473	379	2	83	9	—
Columbia	11	—	—	—	—	—	—
Coos	718	707	405	111	189	2	—
Crook	1	1	1	—	—	—	—
Curry	68	61	30	—	31	—	—
Deschutes	2,055	1,960	1,666	165	129	—	—
Douglas	879	864	661	—	203	—	—
Gilliam	—	—	—	—	—	—	—
Grant	51	44	44	—	—	—	—
Harney	58	56	56	—	—	—	—
Hood River	427	422	388	4	30	—	—
Jackson	2,454	2,394	1,764	386	239	5	—
Jefferson	181	174	173	—	—	1	—
Josephine	767	727	706	—	2	19	—
Klamath	835	832	654	4	174	—	—
Lake	67	65	42	23	—	—	—
Lane	3,765	3,557	3,194	1	348	13	1
Lincoln	385	361	244	101	16	—	—
Linn	949	908	770	138	—	—	—
Malheur	627	623	251	209	163	—	—
Marion	5,257	5,187	4,208	232	701	42	4
Morrow	3	1	1	—	—	—	—
Multnomah	10,453	9,916	7,564	651	1,670	28	3
Polk	9	—	—	—	—	—	—
Sherman	2	—	—	—	—	—	—
Tillamook	171	163	162	—	—	1	—
Umatilla	874	863	859	—	—	4	—
Union	268	256	183	71	—	2	—
Wallowa	57	52	52	—	—	—	—
Wasco	291	283	264	1	14	4	—
Washington	6,970	6,838	5,711	66	1,050	11	—
Wheeler	1	—	—	—	—	—	—
Yamhill	1,199	1,119	771	—	348	—	—

— 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, 2010 (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	1,574	1	219	143	951	114	17	129
Baker	10	—	—	—	10	—	—	—
Benton	48	—	—	—	47	1	—	—
Clackamas	90	—	10	18	25	8	1	28
Clatsop	5	—	—	—	3	2	—	—
Columbia	11	—	1	2	2	4	—	2
Coos	11	—	—	—	—	10	—	1
Crook	—	—	—	—	—	—	—	—
Curry	7	—	—	—	2	3	—	2
Deschutes	95	—	—	—	79	11	—	5
Douglas	15	—	1	—	10	2	—	2
Gilliam	—	—	—	—	—	—	—	—
Grant	7	—	—	—	7	—	—	—
Harney	2	—	—	—	1	—	—	1
Hood River	5	—	—	1	4	—	—	—
Jackson	60	—	2	—	50	4	—	4
Jefferson	7	—	—	—	3	1	—	3
Josephine	40	—	1	—	27	2	2	8
Klamath	3	—	—	—	3	—	—	—
Lake	2	—	—	—	—	—	—	2
Lane	208	—	83	1	91	22	2	9
Lincoln	24	—	—	—	22	—	1	1
Linn	41	—	—	—	36	1	1	3
Malheur	4	—	—	—	1	1	—	2
Marion	70	1	4	6	32	9	2	16
Morrow	2	—	—	—	1	—	—	1
Multnomah	537	—	93	98	307	17	3	19
Polk	9	—	1	—	6	1	—	1
Sherman	2	—	—	—	2	—	—	—
Tillamook	8	—	—	—	5	2	1	—
Umatilla	11	—	—	2	5	—	—	4
Union	12	—	—	1	10	1	—	—
Wallowa	5	—	—	—	3	—	1	1
Wasco	8	—	—	—	5	1	—	2
Washington	132	—	9	12	89	9	3	10
Wheeler	1	—	—	—	1	—	—	—
Yamhill	80	—	14	1	62	2	—	1

— Quantity is zero.

M.D. = Medical Doctor

D.O. = Doctor of Osteopathy

C.N.M. = Certified Nurse Midwife

N.D. = Naturopathic Doctor

L.D.M. = Licensed Direct Entry Midwife

TABLE 2-28. Delivery Method by Day of Birth, Mother's Age, Race/Ethnicity, and Payment Source (Percents), Oregon Resident Births, 2010

Characteristics	Total Births	Vaginal	Vaginal after Previous C-section	Primary C-section	Repeat C-section
Day of Birth					
All Births	45,596	31,348	853	8,320	5,072
Sunday	4,824	75.7	2.2	16.6	5.5
Monday	6,629	66.2	1.8	18.3	13.8
Tuesday	7,166	66.5	1.8	18.7	13.1
Wednesday	7,348	67.3	1.8	18.5	12.4
Thursday	7,079	69.1	1.8	18.6	10.5
Friday	7,446	65.3	2.1	19.1	13.5
Saturday	5,104	75.4	1.7	16.9	5.9
Mother's Age					
<15	27	77.8	—	22.2	—
15-19	3,511	80.9	0.3	16.7	2.0
20-24	10,325	73.5	1.0	17.2	8.3
25-29	13,381	70.2	2.0	16.9	10.9
30-34	11,480	65.3	2.5	18.9	13.3
35-39	5,580	59.8	2.7	20.9	16.5
40-44	1,202	52.8	3.2	26.0	17.9
45+	90	34.4	—	41.1	24.4
N.S.	—	—	—	—	—
Single Mention Race/Ethnicity					
White	30,849	69.4	1.6	18.5	10.5
African American	944	64.9	2.8	19.9	12.4
American Indian	541	68.4	0.7	18.7	12.2
Asian	2,076	64.0	1.8	22.6	11.6
Hawaiian/Pacific Islander	333	55.9	2.1	25.5	16.5
Other/Unknown	94	59.6	3.2	22.3	12.8
Multiple Races	1,363	66.1	1.5	21.3	11.2
Hispanic	9,237	69.2	2.7	15.3	12.8
Payment Source					
Medicaid/OHP*	20,463	69.5	2.0	16.6	12.0
Private Insurance	23,106	67.3	1.7	20.2	10.7
Self-Pay	1,093	85.0	3.0	7.0	5.0
Other Coverage	712	71.2	1.1	18.7	9.0
Unknown Mention	222	69.4	3.2	15.3	10.8
Body Mass Index in kg/m²					
Underweight (< 18.5)	1,457	78.5	1.1	14.0	6.4
Normal (18.5 - 24.9)	21,709	73.8	1.8	16.2	8.3
Overweight (25.0 - 29.9)	11,291	67.4	2.2	18.6	11.7
Obese (> 30.0)	10,355	58.1	1.8	23.0	17.1
Unknown	784	71.4	1.4	15.4	11.4

— Quantity is zero.
* Oregon Health Plan.

TABLE 2-29. Age of Mother by Birthweight, Oregon Resident Births, 2010

Birthweight (in grams)	Total Births	Age of Mother								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	45,596	27	3,511	10,325	13,381	11,480	5,580	1,202	90	–
Low Birthweight										
Total Low Birthweight ...	2,873	–	272	695	738	650	404	95	19	–
499 & Less	42	–	6	5	15	6	9	1	–	–
500-999	184	–	20	46	51	32	26	4	5	–
1000-1499	254	–	18	66	63	56	36	14	1	–
1500-1999	548	–	45	131	128	142	76	23	3	–
2000-2499	1,845	–	183	447	481	414	257	53	10	–
Birthweight Greater Than 2499 grams										
2500-2999	6,998	7	685	1,724	1,959	1,584	835	186	18	–
3000-3499	17,061	12	1,424	4,037	5,101	4,119	1,922	416	30	–
3500-3999	13,935	8	901	2,981	4,156	3,752	1,760	359	18	–
4000-4499	4,015	–	198	762	1,226	1,145	548	131	5	–
4500-4999	629	–	27	107	182	201	97	15	–	–
5000 & Over	77	–	4	17	17	26	13	–	–	–
Unknown	8	–	–	2	2	3	1	–	–	–
Column Percent										
1499 & less	1.1	–	1.3	1.1	1.0	0.8	1.3	1.6	6.7	–
1500-2499	5.2	–	6.5	5.6	4.6	4.8	6.0	6.3	14.4	–
2500-4499	92.1	100.0	91.4	92.1	93.0	92.4	90.8	90.8	78.9	–
4500 & over	1.5	–	0.9	1.2	1.5	2.0	2.0	1.2	–	–

– Quantity is zero.

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

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

TABLE 2-30. Age of Unmarried Mothers by Birthweight, Oregon Resident Births, 2010

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	16,173	27	2,949	5,844	3,965	2,151	979	237	21	–
Low Birthweight										
Total Low Birthweight ...	1,227	–	238	445	262	156	104	19	3	–
499 & Less	18	–	6	4	3	1	3	1	–	–
500-999	87	–	17	33	19	9	8	1	–	–
1000-1499	117	–	17	47	18	19	11	5	–	–
1500-1999	234	–	41	85	50	31	21	6	–	–
2000-2499	771	–	157	276	172	96	61	6	3	–
Birthweight Greater Than 2499 grams										
2500-2999	2,823	7	585	1,025	635	352	170	42	7	–
3000-3499	6,321	12	1,178	2,297	1,600	787	357	85	5	–
3500-3999	4,483	8	760	1,625	1,120	644	253	68	5	–
4000-4499	1,114	–	162	384	299	171	75	22	1	–
4500-4999	176	–	22	57	45	35	16	1	–	–
5000 & Over	26	–	4	10	4	5	3	–	–	–
Unknown	3	–	–	1	–	1	1	–	–	–
Column Percent										
1499 & less	1.4	–	1.4	1.4	1.0	1.3	2.2	3.0	–	–
1500-2499	6.2	–	6.7	6.2	5.6	5.9	8.4	5.1	14.3	–
2500-4499	91.2	100.0	91.0	91.2	92.2	90.9	87.4	91.6	85.7	–
4500 & over	1.2	–	0.9	1.1	1.2	1.8	1.9	0.4	–	–

– Quantity is zero.

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

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

TABLE 2-31. Race of Mother and Birthweight, Oregon Residents, 2010

Mother's Race/Ethnicity	Total Births	499 & Less	500-999	1000-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500-4999	5000 & Over	Unk.
Total Births	45,596	42	184	254	548	1,845	6,998	17,061	13,935	4,015	629	77	8
Non-Hispanic Single Mention Race													
Total Non-Hispanic	36,200	33	138	202	434	1,494	5,504	13,337	11,180	3,305	505	63	5
White	30,849	21	95	165	362	1,216	4,473	11,309	9,743	2,958	446	58	3
African American	944	4	10	8	16	65	203	345	242	43	7	1	-
American Indian	541	-	4	2	9	25	84	171	182	50	13	1	-
Asian	2,076	7	12	12	24	107	462	853	486	97	14	2	-
Hawaiian/Pacific Islander	333	1	4	5	9	18	52	121	94	23	5	1	-
Other/Unknown	94	-	1	-	1	5	14	31	26	12	2	-	2
Multiple Races	1,363	-	12	10	13	58	216	507	407	122	18	-	-
Hispanic Single Mention Race													
Total Hispanic	9,237	9	43	52	114	350	1,469	3,671	2,695	698	121	14	1
White	6,606	9	31	30	66	253	1,024	2,668	1,919	512	84	9	1
African American	48	-	-	1	1	3	10	17	11	5	-	-	-
American Indian	120	-	-	1	1	7	23	45	28	12	3	-	-
Asian	40	-	-	-	2	1	4	18	13	1	1	-	-
Hawaiian/Pacific Islander	19	-	1	-	-	-	3	9	3	3	-	-	-
Other/Unknown	2,239	-	9	18	41	76	379	858	669	155	30	4	-
Multiple Races	165	-	2	2	3	10	26	56	52	10	3	1	-

- Quantity is zero.

TABLE 2-31. Race of Mother and Birthweight, Oregon Residents, 2010 (Continued)

Mother's Race/Ethnicity	Total Births	499 & Less	500-999	1000-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500-4999	5000 & Over	Unk.
Total Births	45,596	42	184	254	548	1,845	6,998	17,061	13,935	4,015	629	77	8
Multiple Mention Race and Ethnicity													
White	38,946	30	140	205	441	1,532	5,733	14,533	12,112	3,600	548	68	4
African American	1,324	4	11	13	22	84	275	506	333	64	11	1	-
American Indian	1,511	-	13	11	22	76	234	497	480	146	30	2	-
Asian	2,574	7	17	15	28	121	540	1,055	627	141	21	2	-
Hawaiian/Pacific Islander	507	1	6	5	11	24	79	184	150	37	9	1	-
Other	2,267	-	12	17	41	82	394	857	668	164	28	4	-
Unknown	370	-	3	2	4	9	56	136	121	28	7	-	4
Hispanic	9,237	9	43	52	114	350	1,469	3,671	2,695	698	121	14	1

- Quantity is zero.

TABLE 2-32. Low Birthweight Infants by County of Residence, Oregon, 2010

County of Residence	Total Births	Low Birthweight Infants			Low Birthweight Rates ¹		
		Total Low Birthweight	Less than 1500 grams	1,500-2,499 grams	All Low Birthweight	Less than 1500 grams	1,500-2,499 grams
Total	45,596	2,873	480	2,393	63.0	10.5	52.5
Baker	165	15	2	13	90.9	12.1	78.8
Benton	727	39	6	33	53.6	8.3	45.4
Clackamas	3,869	250	48	202	64.6	12.4	52.2
Clatsop	413	30	6	24	72.6	14.5	58.1
Columbia	491	27	3	24	55.0	6.1	48.9
Coos	656	39	5	34	59.5	7.6	51.8
Crook	181	15	5	10	82.9	27.6	55.2
Curry	180	7	—	7	38.9	—	38.9
Deschutes	1,709	96	13	83	56.2	7.6	48.6
Douglas	1,049	86	10	76	§ 82.0	9.5	§ 72.4
Gilliam	21	—	—	—	—	—	—
Grant	59	3	—	3	50.8	—	50.8
Harney	88	8	1	7	90.9	11.4	79.5
Hood River	278	16	1	15	57.6	3.6	54.0
Jackson	2,341	158	29	129	67.6	12.4	55.2
Jefferson	280	16	2	14	57.1	7.1	50.0
Josephine	793	49	7	42	61.8	8.8	53.0
Klamath	803	73	11	62	§ 90.9	13.7	§ 77.2
Lake	70	8	2	6	114.3	28.6	85.7
Lane	3,495	224	29	195	64.1	8.3	55.8
Lincoln	443	24	4	20	54.2	9.0	45.1
Linn	1,456	94	17	77	64.6	11.7	52.9
Malheur	477	27	5	22	56.6	10.5	46.1
Marion	4,604	280	60	220	60.8	13.0	47.8
Morrow	163	8	3	5	49.1	18.4	30.7
Multnomah	9,610	636	105	531	66.2	10.9	55.3
Polk	911	59	16	43	64.8	17.6	47.2
Sherman	16	—	—	—	—	—	—
Tillamook	245	19	—	19	77.6	—	77.6
Umatilla	1,107	70	14	56	63.2	12.6	50.6
Union	281	24	5	19	85.4	17.8	67.6
Wallowa	61	1	—	1	16.4	—	16.4
Wasco	298	11	2	9	36.9	6.7	30.2
Washington	7,113	397	58	339	§ 55.8	8.2	47.7
Wheeler	15	2	—	2	133.3	—	133.3
Yamhill	1,127	62	11	51	55.0	9.8	45.3
Unknown	1	—	—	—	—	—	—

— Quantity is zero.

¹ All rates are per 1,000 births.

§ Rate is significantly different from the state rate.

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, 2010

Period of Gestation ¹ and Race/Ethnicity ² of Mother	All Births ³	Mother's Weight Gain During Pregnancy						
		Weight Loss	1-10 pounds	11-20 pounds	21-30 pounds	31-40 pounds	41+ pounds	Not Stated
All Gestation Periods								
Total Births	45,596	629	2,534	7,158	12,346	11,620	10,066	1,243
White	30,849	404	1,548	4,299	8,224	8,260	7,342	772
African American	944	21	95	202	227	184	182	33
American Indian	541	16	45	73	133	110	144	20
Asian	2,076	11	66	343	665	596	351	44
Hawaiian/Pacific Islander	333	7	31	50	66	70	91	18
Other/Unknown	94	2	2	19	26	19	17	9
Multiple Races	1,363	27	81	156	343	324	398	34
Hispanic	9,237	138	658	1,995	2,616	2,028	1,506	296
Under 37 Weeks								
Total Births	3,604	86	313	777	936	706	692	94
White	2,379	47	174	460	616	532	492	58
African American	98	3	18	26	27	9	15	—
American Indian	54	—	12	11	11	8	12	—
Asian	178	4	10	44	54	36	24	6
Hawaiian/Pacific Islander	41	1	6	10	9	5	8	2
Other/Unknown	10	2	1	6	—	—	—	1
Multiple Races	111	2	14	23	25	12	34	1
Hispanic	727	27	78	195	194	103	105	25
37 - 39 Weeks								
Total Births	24,616	375	1,436	4,065	6,913	6,143	5,055	629
White	16,518	239	878	2,460	4,553	4,344	3,654	390
African American	476	13	45	107	109	87	99	16
American Indian	306	13	25	44	76	63	73	12
Asian	1,149	4	38	191	380	326	186	24
Hawaiian/Pacific Islander	160	4	18	23	21	36	51	7
Other/Unknown	44	—	—	7	18	9	7	3
Multiple Races	745	18	43	89	191	184	199	21
Hispanic	5,128	81	385	1,132	1,538	1,077	768	147
40 Weeks and Over								
Total Births	17,344	168	781	2,314	4,491	4,763	4,318	509
White	11,936	118	494	1,377	3,052	3,379	3,195	321
African American	370	5	32	69	91	88	68	17
American Indian	180	3	8	18	46	39	59	7
Asian	749	3	18	108	231	234	141	14
Hawaiian/Pacific Islander	131	2	7	17	36	29	32	8
Other/Unknown	38	—	1	6	8	10	10	3
Multiple Races	506	7	24	44	127	127	165	12
Hispanic	3,374	30	193	668	881	846	633	123

— 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, 2010

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	6.3	10.3	11.2	9.5	6.1	4.6	4.8	6.4
White	6.0	8.4	10.1	9.3	5.9	4.6	4.8	6.2
African American	10.9	14.3	24.2	15.3	11.0	4.9	5.5	6.1
American Indian	7.4	—	20.0	9.6	7.5	7.3	4.2	—
Asian	7.8	36.4	13.6	13.1	7.7	4.5	5.4	15.9
Hawaiian/Pacific Islander	11.1	14.3	12.9	18.0	12.1	5.7	8.8	16.7
Other/Unknown	7.8	50.0	—	16.7	—	9.1	—	—
Multiple Races	6.8	7.4	16.0	13.5	7.6	3.7	4.5	2.9
Hispanic	6.1	14.5	10.6	8.0	5.3	4.6	4.7	5.4
Under 37 Weeks								
Total Births	54.9	55.8	67.7	62.8	52.2	50.0	47.8	60.6
White	53.7	51.1	63.8	63.5	50.8	49.8	48.0	63.8
African American	72.4	100.0	88.9	80.8	63.0	55.6	60.0	—
American Indian	53.7	—	66.7	45.5	72.7	50.0	33.3	—
Asian	59.6	75.0	80.0	63.6	68.5	38.9	45.8	83.3
Hawaiian/Pacific Islander	65.9	100.0	66.7	70.0	44.4	80.0	75.0	50.0
Other/Unknown	60.0	50.0	—	66.7	—	—	—	—
Multiple Races	58.6	50.0	71.4	73.9	76.0	58.3	29.4	100.0
Hispanic	54.2	55.6	70.5	57.4	46.9	52.4	52.4	48.0
37 - 39 Weeks								
Total Births	3.4	4.3	4.7	4.3	3.5	2.8	2.8	2.9
White	3.3	3.8	4.6	4.1	3.7	2.4	2.9	2.1
African American	5.9	—	15.6	6.5	6.4	4.6	1.0	12.5
American Indian	3.3	—	4.0	2.3	2.6	6.3	2.7	—
Asian	4.5	25.0	2.6	7.9	3.2	4.0	4.3	8.3
Hawaiian/Pacific Islander	6.2	—	—	8.7	19.0	—	3.9	28.6
Other/Unknown	4.0	—	—	—	—	14.3	—	—
Multiple Races	3.5	5.6	7.0	3.4	3.7	2.2	4.0	—
Hispanic	3.2	6.2	3.9	3.8	3.0	3.4	1.8	2.7
40 Weeks and Over								
Total Births	0.4	0.6	0.4	0.9	0.3	0.3	0.2	0.6
White	0.3	0.8	0.6	0.6	0.3	0.2	0.3	0.9
African American	1.1	—	—	4.3	1.1	—	—	—
American Indian	0.6	—	—	5.6	—	—	—	—
Asian	0.5	—	—	1.9	0.9	—	—	—
Hawaiian/Pacific Islander	—	—	—	—	—	—	—	—
Other/Unknown	—	—	—	—	—	—	—	—
Multiple Races	0.4	—	—	2.3	—	0.8	—	—
Hispanic	0.3	—	—	0.7	—	0.4	0.2	—

— 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, 2010

Conditions of New Born	Total Births	Mother's Age							N.S.	
		<15	15-19	20-24	25-29	30-34	35-39	40-44		45+
Total Births	45,596	27	3,511	10,325	13,381	11,480	5,580	1,202	90	-
Immediate Ventilation	1,998	3	183	533	555	445	229	45	5	-
Ventilator > 6 hrs.	523	-	44	145	145	108	61	14	6	-
Admission to NICU	3,209	-	267	728	860	785	452	103	14	-
Surfactant Therapy	116	-	7	36	33	26	10	4	-	-
Antibiotics	907	-	104	246	244	184	105	23	1	-
Seizures	29	-	5	5	7	8	1	3	-	-
No Condition Noted	41,051	24	3,111	9,222	12,157	10,404	4,992	1,065	76	-

- 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, 2010

Conditions of New Born	Total Births ¹	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ NS ²	Hispanic ³
Single Mention Race								
Total Births	45,596	30,849	944	541	2,076	333	1,457	9,237
Immediate Ventilation	1,998	1,440	43	30	61	18	86	314
Ventilator > 6 hrs.	523	356	5	13	12	6	24	107
Admission to NICU	3,209	2,172	78	44	148	42	133	581
Surfactant Therapy	116	75	1	2	2	1	10	24
Antibiotics	907	610	10	8	24	13	43	197
Seizures	29	20	–	–	2	–	2	4
No Condition Noted	41,051	27,701	836	477	1,889	283	1,269	8,452
Multiple Mention Race								
Immediate Ventilation	1,998	1,725	60	95	86	31	113	314
Ventilator > 6 hrs.	523	439	11	31	20	9	50	107
Admission to NICU	3,209	2,686	124	140	187	56	204	581
Surfactant Therapy	116	95	3	7	5	2	14	24
Antibiotics	907	777	25	38	36	16	75	197
Seizures	29	27	–	2	2	–	–	4
No Condition Noted	41,051	35,094	1,164	1,308	2,333	435	2,365	8,452

– 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, 2010

Reported Congenital Anomaly	All Ages	Age of Mother					
		<20	20-24	25-29	30-34	35-39	40+
Total Births	45,596	3,538	10,325	13,381	11,480	5,580	1,292
No Congenital Anomaly Reported	45,293	3,509	10,258	13,304	11,410	5,531	1,281
Anencephalus	7	1	2	2	1	1	–
Spina Bifida	11	2	3	2	2	2	–
Heart Disease	77	4	16	27	18	10	2
Hypospadias	35	2	7	10	12	4	–
Hernia	8	–	3	2	1	2	–
Omphalocele	6	–	1	2	2	–	1
Gastroschisis	19	6	11	1	1	–	–
Limb Reduction Defect	15	–	5	5	4	–	1
Cleft Lip	40	3	9	15	5	7	1
Cleft Palate Alone	20	4	3	3	6	3	1
Down Syndrome	54	4	6	10	13	17	4
Chromosomal Disorder	30	2	3	4	7	9	5

– Quantity is zero.

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

Table 2-38. Most Frequently Used Baby Names, Oregon Occurrence, 2010

Boys			Girls		
Rank	Name	Count	Rank	Name	Count
1	Jacob.....	242	1	Sophia.....	240
2	Logan.....	201	2	Emma.....	227
3	Benjamin.....	200	2	Olivia.....	227
4	Mason.....	193	4	Isabella.....	216
4	Noah.....	193	5	Emily.....	167
6	Samuel.....	188	6	Abigail.....	162
7	Alexander.....	181	7	Ava.....	152
7	Ethan.....	181	8	Ella.....	134
9	William.....	180	9	Madison.....	129
10	Wyatt.....	170	10	Addison.....	120
11	Elijah.....	169	11	Samantha.....	119
12	Liam.....	163	12	Lily.....	118
13	Daniel.....	162	13	Elizabeth.....	116
13	David.....	162	14	Grace.....	111
15	James.....	154	15	Chloe.....	110
16	Gabriel.....	153	16	Mia.....	109
17	Jackson.....	152	16	Natalie.....	109
17	Michael.....	152	18	Alexis.....	103
19	Aiden.....	147	19	Evelyn.....	102
20	Isaac.....	143	19	Hannah.....	102
21	Anthony.....	135	21	Brooklyn.....	92
22	Andrew.....	134	22	Amelia.....	91
22	Henry.....	134	23	Audrey.....	87
22	Nathan.....	134	24	Hailey.....	86
22	Owen.....	134	25	Lillian.....	84
26	Hunter.....	129	25	Sofia.....	84
27	Jayden.....	128	27	Taylor.....	83
27	Landon.....	128	28	Avery.....	82
29	Gavin.....	124	29	Claire.....	78
30	Caleb.....	122	30	Zoe.....	75
Total Boys' Names: 4,548			Total Girls' Names: 6,308		

Total 2010 Oregon Occurrence Births: 45,904

SECTION 3: INDUCED TERMINATION OF PREGNANCY

Induced Termination of Pregnancy

Current trends

During 2010, 9,990 induced terminations of pregnancy occurred in Oregon. This total represents a 7.5 percent decrease from 2009 and a decrease of 36.5 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 10.5 and 12.6 percent from 1992 to the present. In 2010, 1,050 patients (10.5 %) were out-of-state residents. (See Table 3-6.) Oregonians who obtained out-of-state abortions are not included in this data. Because rate calculations use Oregon population numbers, these calculations substitute out-of-state residents for the unknown number of Oregonians who obtained an abortion in another state. (See Appendix B, Technical Notes section for a more extensive discussion of the completeness of abortion data.)

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

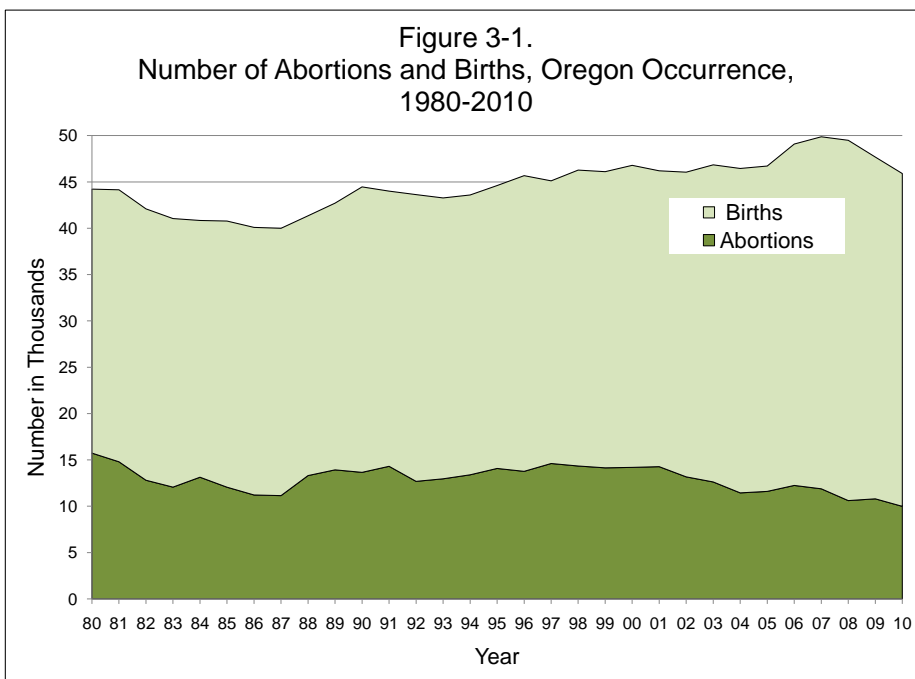
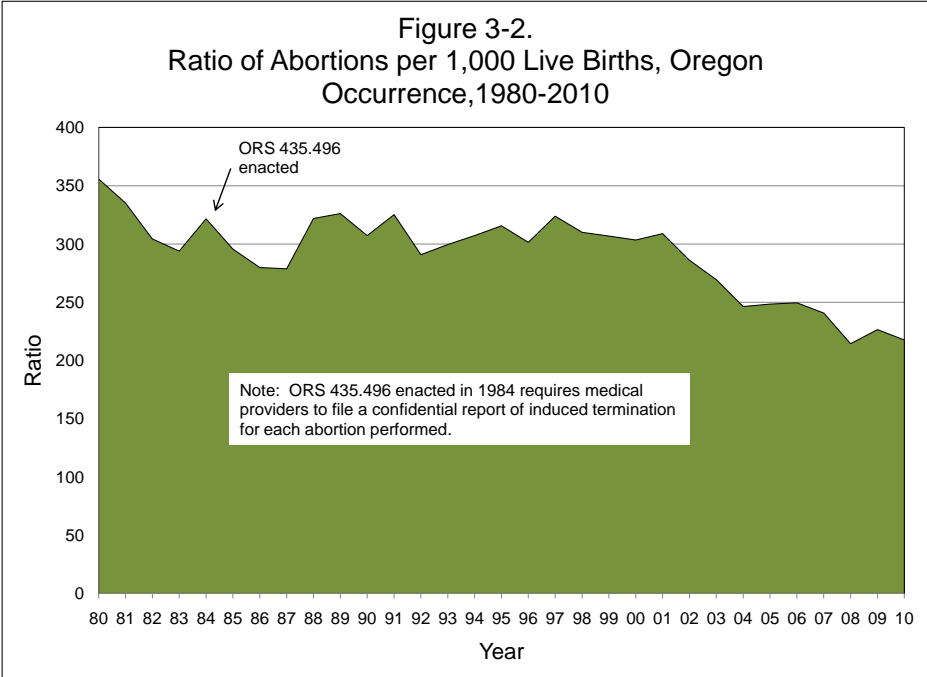


Table 3-A. Comparison of Oregon and U.S. Abortion Ratios, 1980-2008		
Year	U.S. Abortion Ratio ¹	Oregon's Abortion Ratio ² as Percent Difference from U.S.
1980	359	-1%
1985	354	-16%
1986	354	-21%
1987	356	-21%
1988	352	-9%
1989	346	-6%
1990	344	-11%
1991	338	-4%
1992	334	-13%
1993	333	-10%
1994	321	-4%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

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

15–44 to 16.0 per 1,000 in 2008, the most recent data available.¹ In 2010, the Oregon rate decreased to 13.1 per 1,000 women aged 15–44, a 7.5 percent decrease from 2009, and a 47.8 percent decrease from the record high seen in 1980 (25.1 per 1,000). During the past 20 years, Oregon’s abortion rate has generally declined— from a high of 21.4 in 1991, to the current low of 13.1 per 1,000 women aged 15–44.



Pregnancy outcomes

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

In 2010, there were 217.6 abortions per 1,000 occurrence births. This represents a 3.9 percent decrease from 2009 and a 38.8 percent decrease from 1980 when this ratio was 355.8 per 1,000 births. (See Table 3-2.)

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

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

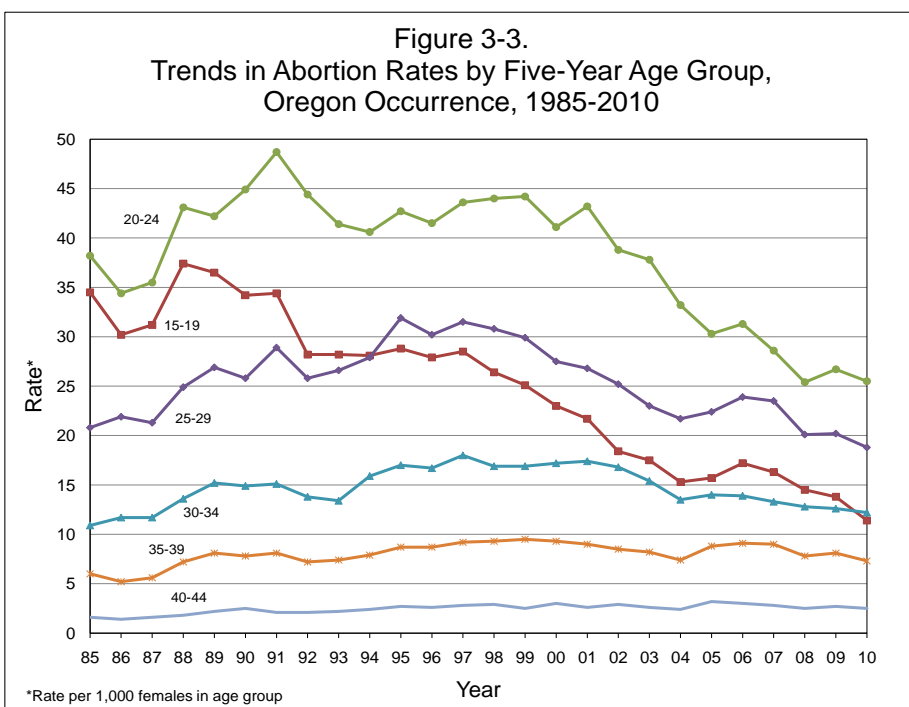
Abortion patients

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

Age

There is wide variation in abortion rates among age groups (see sidebar 3-B): The highest rate in 2010 occurred among women aged 20–24 (25.5 per 1,000). The lowest rates were among women 45–49, (0.3 per 1,000) and women under age 15 (0.3 per 1,000). (See Figure 3-3, sidebar 3-B.)

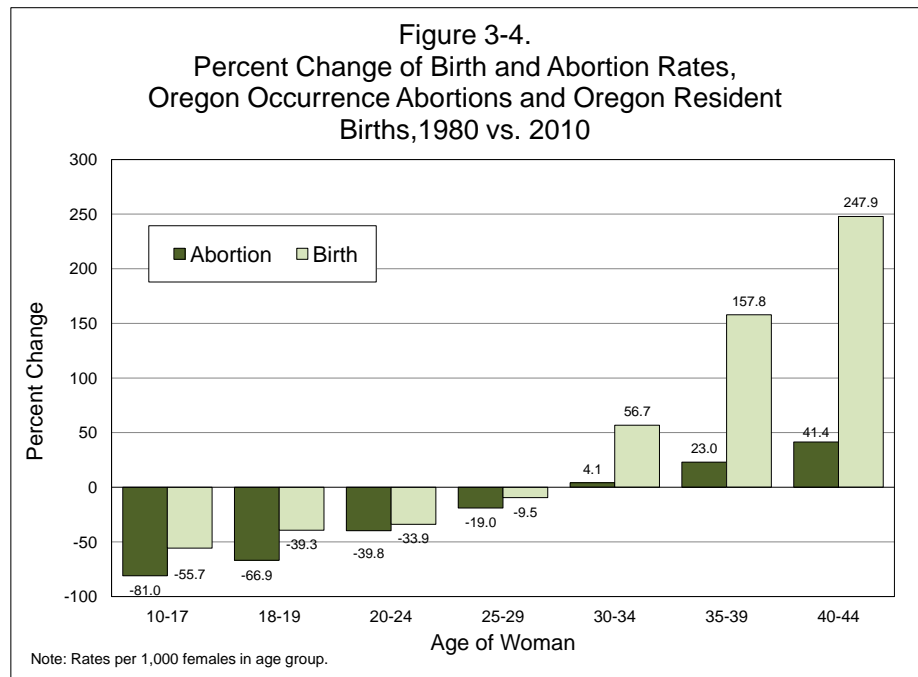
The 2010 abortion rate among teens aged 10–17 was 81.0 percent lower than the rate in 1980 (when the statewide



Age	Rate ²	%
<15	0.3	0.3
15-19	11.4	13.3
20-24	25.5	29.7
25-29	18.8	22.9
30-34	12.2	14.4
35-39	7.3	8.5
40-44	2.5	2.9
45-49	0.3	0.4
15-44	13.0	99.3

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

² Per 1,000 females in age group



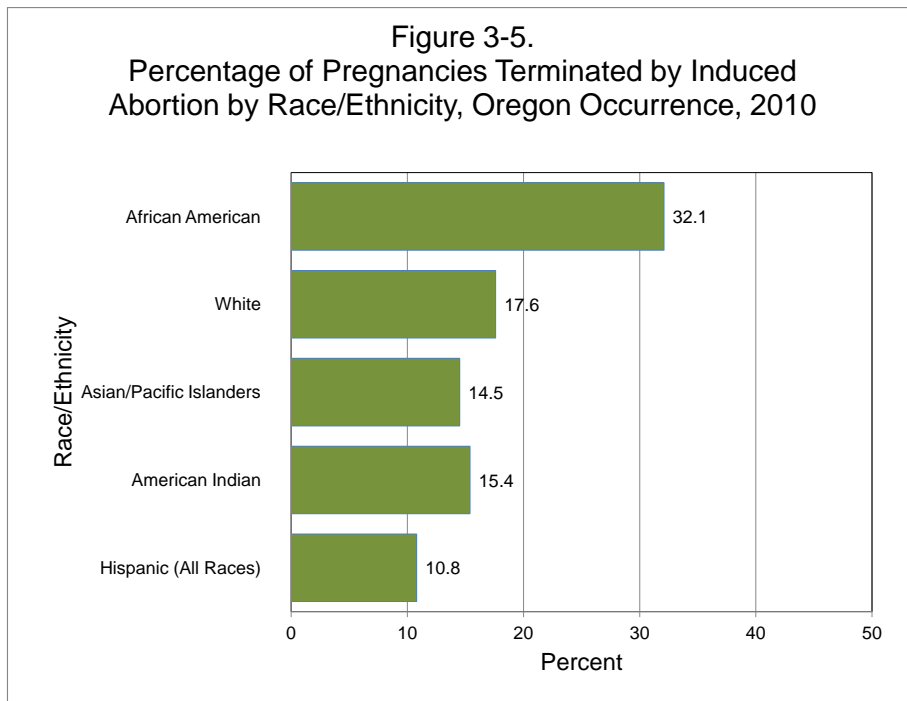
abortion rate was highest); the rate for 18- to 19-year-olds was 66.9 percent lower. (See Figure 3-4.) The absence of a corresponding increase in the birth rates among teens suggests success in avoiding unwanted pregnancy, rather than an increase in decisions to carry unwanted pregnancies to term. In contrast, among women age 35 and older, both abortion rates and birth rates were markedly higher in 2010 than in 1980.

Race and ethnicity

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

The frequency with which abortion procedures were used to terminate pregnancies varied among ethnic and racial groups. African American and White women had the highest percentages of terminated pregnancies in 2010 with 32.1 and 17.6 percent respectively. Because Oregon's demographic composition is predominantly White, White women obtained the majority of abortions by count in 2010, but had only the second highest percentage of

terminations overall, 45.2 percent lower than African American women. American Indian women accounted for the smallest abortion count; however, 15.4 percent of their pregnancies were terminated. Asian and Pacific Island women followed at 14.5 percent. The lowest percentage of terminated pregnancies was women of Hispanic ethnicity who terminated 10.8 percent of pregnancies in 2010 (See Figure 3-5.).



Contraceptive use

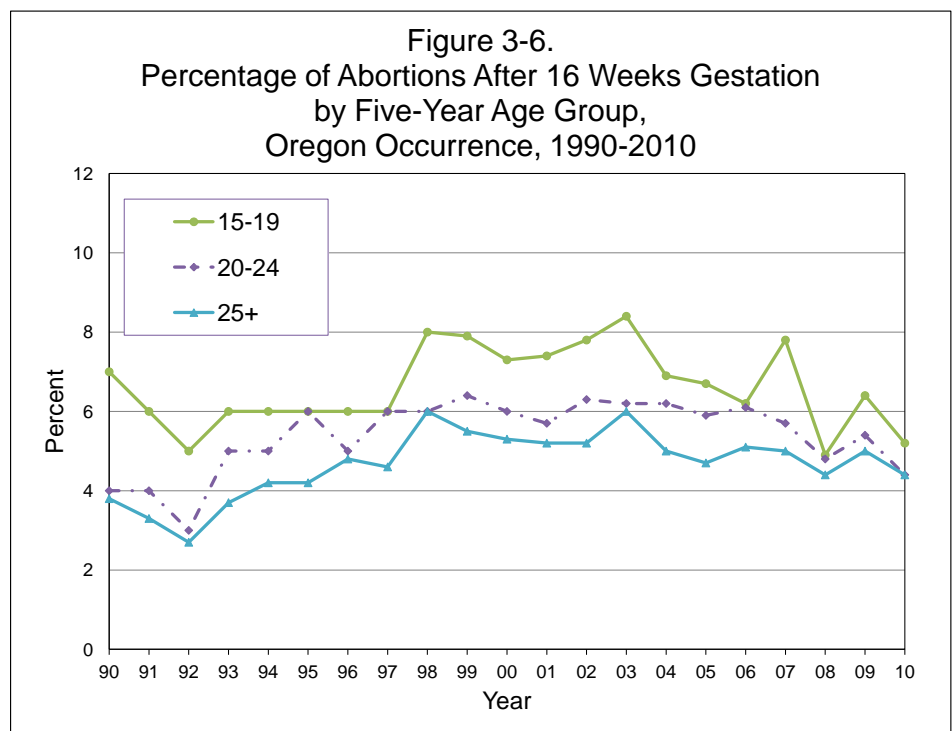
In the majority of abortions that occur in Oregon, the pregnancy is not a result of contraceptive failure. In 2010, based upon data obtained from abortion reports, 32.6 percent of women used some method of contraception to avoid pregnancy. (See Table 3-5.) Of the 67.4 percent of abortion patients who did not report using contraceptives, 46.4 percent had previously obtained an abortion.

Medical procedures

More than 88.1 percent of abortions with known gestation were performed prior to the 13th week of pregnancy. About one in nearly 20 (4.7%) induced terminations where gestation was known were performed after 16 weeks. Suction curettage was the procedure used in 55.2 percent of terminations prior to the 13th week where method was reported. Dilation and evacuation was the procedure in 89.6

percent of terminations occurring after 16 weeks gestation. Women aged 15–19 obtained 15 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 slightly for women in all age groups in 2010. (See Figure 3-6.)

Complications at the time of the induced termination procedure were reported for 240 terminations (3.1% of abortion patients). Retained products (88 patients) and failure of first method (41 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 2010. Service providers, conversely, were geographically concentrated. In 2010, abortions were reported in nine counties. The concentration was evident in the fact that 95.5 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, 1980-2010

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

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. 2010 population estimate: 757,905.

**Table 3-2. Live Births and Induced Abortions
Occurring in Oregon, 1970-2010**

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

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

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

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

TABLE 3-3. Induced Abortions by Race/Ethnicity, Marital Status and Age, Oregon Occurrence, 2010

Race/Ethnicity and Marital Status	Total	Age Groups								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	9,990	34	1,436	3,200	2,460	1,544	913	314	40	49
White	8,295	27	1,192	2,654	2,038	1,288	756	268	32	40
African American	626	6	100	218	181	73	41	4	1	2
American Indian	275	1	42	102	56	49	14	9	1	1
Chinese	117	—	9	32	30	18	18	9	—	1
Japanese	25	—	2	9	9	3	2	—	—	—
Hawaiian	28	—	3	10	9	3	2	—	1	—
Filipino	51	—	4	18	13	9	4	2	—	1
Other Asian/Pacific Islander ...	301	—	36	76	75	61	40	12	1	—
Other Non-white	12	—	2	6	2	—	2	—	—	—
Unknown	355	2	65	116	76	52	27	9	3	5
Hispanic	1,118	3	205	350	239	185	88	32	6	10
White	873	2	164	270	190	143	68	25	4	7
African American	25	—	3	7	10	1	3	1	—	—
American Indian	42	—	6	15	8	8	5	—	—	—
Chinese	7	—	—	6	—	—	1	—	—	—
Japanese	1	—	—	—	1	—	—	—	—	—
Hawaiian	4	—	—	—	1	1	1	—	1	—
Filipino	4	—	1	1	—	1	1	—	—	—
Other Asian/Pacific Islander	10	—	—	2	2	5	—	1	—	—
Other Non-white	3	—	1	2	—	—	—	—	—	—
Unknown	163	1	29	53	31	28	12	5	1	3
Non-Hispanic	8,778	30	1,218	2,824	2,196	1,342	817	280	33	38
White	7,371	24	1,019	2,371	1,836	1,134	686	241	27	33
African American	591	6	97	209	166	71	36	3	1	2
American Indian	230	1	36	85	48	40	9	9	1	1
Chinese	108	—	9	25	30	17	17	9	—	1
Japanese	24	—	2	9	8	3	2	—	—	—
Hawaiian	24	—	3	10	8	2	1	—	—	—
Filipino	46	—	3	17	12	8	3	2	—	1
Other Asian/Pacific Islander	289	—	36	74	72	56	39	11	1	—
Other Non-white	9	—	1	4	2	—	2	—	—	—
Unknown	169	1	32	55	39	22	13	4	2	1
Ethnicity Unknown	94	1	13	26	25	17	8	2	1	1
Marital Status										
Never Married	6,632	34	1,310	2,622	1,587	686	296	62	8	27
Now Married	1,420	—	31	194	393	393	272	119	14	4
Widowed	24	—	—	2	6	10	5	1	—	—
Divorced	757	—	2	46	154	235	219	89	9	3
Separated	397	—	3	76	120	116	52	27	3	—
Unknown	760	—	90	260	200	104	69	16	6	15

— Quantity is zero.

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

TABLE 3-4. Abortions in Relation to Length of Gestation by Method, Complications, and Age of Patient, Oregon Occurrence, 2010

Method, Complications and Age of Patient	Total	Weeks Gestation						
		< 9	9-12	13-16	17-20	21-22	23+	Unk.
Total	9,990	6,348	2,195	707	300	88	64	288
Suction Curette	5,236	3,115	1,592	323	14	4	1	187
Medical (Non-surgical)	1,971	1,845	50	5	7	3	4	57
Dilation & Evacuation	2,686	1,325	547	372	271	78	56	37
Intra-uterine Instillation	5	3	–	–	1	1	–	–
Vaginal Prostaglandin	8	1	1	–	3	2	1	–
Sharp Curettage	6	4	–	1	–	–	–	1
Other	55	44	1	3	4	–	2	1
Unknown	23	11	4	3	–	–	–	5
Complications								
None	7,395	4,229	1,930	630	262	78	54	212
Hemorrhage	7	5	2	–	–	–	–	–
Infection	16	12	4	–	–	–	–	–
Uterine Perforation	1	1	–	–	–	–	–	–
Retained Products	88	68	11	2	2	–	–	5
Failure of First Method	41	35	3	–	–	–	–	3
Other	74	48	19	2	1	–	–	4
Multiple Complications	13	12	1	–	–	–	–	–
Age Groups								
< 15	34	15	13	4	2	–	–	–
15-19	1,436	851	353	111	52	14	9	46
20-24	3,200	1,939	760	255	85	28	29	104
25-29	2,460	1,576	543	160	86	24	13	58
30-34	1,544	1,069	272	92	45	13	6	47
35-39	913	621	179	61	20	7	6	19
40-44	314	221	55	20	9	2	1	6
45+	40	26	10	2	–	–	–	2
N.S.	49	30	10	2	1	–	–	6

– Quantity is zero.

TABLE 3-5. Contraceptive Use, Number of Previous Abortions, and Number of Living Children by Age of Patient, Oregon Occurrence, 2010

Contraceptive Used, Previous Abortions, and Number of Living Children	Total	Age Groups								
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	9,990	34	1,436	3,200	2,460	1,544	913	314	40	49
None Used	6,710	30	1,034	2,174	1,612	991	586	215	29	39
No Previous Abortion	3,839	29	870	1,314	792	448	252	100	13	21
One	1,614	—	129	557	412	267	180	55	10	4
Two	695	—	22	191	226	141	69	34	3	9
Three	252	—	3	56	93	49	33	16	1	1
Four or More	236	—	3	32	75	73	43	8	1	1
Pills Used	1,026	1	143	377	260	151	73	17	2	2
No Previous Abortion	595	1	117	242	130	60	37	7	—	1
One	233	—	19	84	70	40	13	5	2	—
Two	100	—	2	30	31	23	11	2	—	1
Three	43	—	2	10	9	15	6	1	—	—
Four or More	41	—	—	3	20	10	6	2	—	—
Condoms Used	1,646	3	210	499	414	305	158	44	7	6
No Previous Abortion	862	3	171	304	196	110	49	23	3	3
One	422	—	35	128	103	92	52	9	2	1
Two	200	—	3	44	66	48	31	5	2	1
Three	82	—	1	11	29	25	12	4	—	—
Four or More	72	—	—	9	19	27	14	3	—	—
Other Contraceptive	720	—	59	187	211	115	102	41	3	2
No Previous Abortion	346	—	46	104	92	44	36	23	1	—
One	209	—	9	55	59	34	39	10	1	2
Two	91	—	2	18	33	21	13	3	1	—
Three	41	—	1	5	16	8	7	4	—	—
Four or More	24	—	—	4	7	6	6	1	—	—
Contraceptive Use Unknown	32	—	2	9	10	6	2	1	1	1
No Previous Abortion	15	—	1	6	3	4	—	1	—	—
One	6	—	—	2	3	1	—	—	—	—
Two	3	—	1	—	2	—	—	—	—	—
Three	2	—	—	—	1	—	1	—	—	—
Four or More	—	—	—	—	—	—	—	—	—	—
Previous Abortions Unknown ...	—	—	—	—	—	—	—	—	—	—
Number of Living Children										
No Children	4,780	33	1,176	1,852	1,024	402	217	51	6	19
Total with Children	5,147	—	251	1,328	1,422	1,132	691	261	34	28
One	2,314	—	229	849	595	376	190	55	9	11
Two	1,742	—	22	370	520	410	275	121	13	11
Three	734	—	—	96	214	237	130	47	7	3
Four	243	—	—	13	69	71	62	23	3	2
Five or More	114	—	—	—	24	38	34	15	2	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, 2010

Place of Residence	Total	Age Groups								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	9,990	34	1,436	3,200	2,460	1,544	913	314	40	49
Baker	3	*	*	*	*	*	*	*	*	*
Benton	187	—	18	83	40	19	15	11	—	1
Clackamas	752	4	111	231	173	111	89	29	4	—
Clatsop	83	1	9	24	27	10	6	4	1	1
Columbia	85	1	19	28	19	8	7	3	—	—
Coos	106	1	22	34	22	20	5	2	—	—
Crook	24	—	4	10	2	5	3	—	—	—
Curry	14	—	3	3	1	3	1	2	—	1
Deschutes	287	1	51	88	61	38	29	17	2	—
Douglas	181	1	45	48	46	28	8	4	1	—
Gilliam	1	*	*	*	*	*	*	*	*	*
Grant	4	*	*	*	*	*	*	*	*	*
Harney	4	*	*	*	*	*	*	*	*	*
Hood River	34	—	7	13	8	3	3	—	—	—
Jackson	520	1	68	195	113	78	42	16	2	5
Jefferson	29	—	9	8	5	4	2	1	—	—
Josephine	136	—	36	36	23	21	13	6	—	1
Klamath	99	1	17	38	19	12	9	3	—	—
Lake	4	*	*	*	*	*	*	*	*	*
Lane	929	—	113	343	216	156	65	27	5	4
Lincoln	92	—	10	28	26	13	7	6	2	—
Linn	183	1	40	64	44	17	13	2	1	1
Malheur	5	*	*	*	*	*	*	*	*	*
Marion	676	1	124	224	148	98	54	14	5	8
Morrow	7	*	*	*	*	*	*	*	*	*
Multnomah	2,905	10	332	918	803	472	268	84	7	11
Polk	112	—	26	40	22	15	7	2	—	—
Sherman	2	*	*	*	*	*	*	*	*	*
Tillamook	39	—	7	9	7	9	4	2	—	1
Umatilla	24	1	3	6	5	4	5	—	—	—
Union	9	*	*	*	*	*	*	*	*	*
Wallowa	—	—	—	—	—	—	—	—	—	—
Wasco	33	—	4	14	4	4	6	1	—	—
Washington	1,202	2	157	354	310	201	125	42	4	7
Wheeler	1	*	*	*	*	*	*	*	*	*
Yamhill	149	2	26	49	35	20	11	4	2	—
Out of State	1,050	6	164	298	266	164	112	32	3	5
Not Stated	19	—	1	5	5	3	2	—	—	3

— 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, 2010

County of Residence	Total	County of Occurrence							
		Benton	Deschutes	Jackson	Lane	Marion	Multnomah	Washington	Yamhill
Total	9,990	24	323	647	1,443	642	6,231	575	98
Baker	3	*	*	*	*	*	*	*	*
Benton	187	19	—	—	51	63	40	7	7
Clackamas ..	752	—	—	—	1	7	699	41	3
Clatsop	83	—	—	—	3	—	70	10	—
Columbia	85	—	—	—	—	—	77	8	—
Coos	106	—	—	2	86	—	18	—	—
Crook	24	—	16	1	3	1	3	—	—
Curry	14	—	—	4	9	—	1	—	—
Deschutes ...	287	—	255	1	8	1	22	—	—
Douglas	181	—	1	4	156	1	18	1	—
Gilliam	1	*	*	*	*	*	*	*	*
Grant	4	*	*	*	*	*	*	*	*
Harney	4	*	*	*	*	*	*	*	*
Hood River ..	34	—	—	—	—	—	32	2	—
Jackson	520	—	1	444	60	1	13	1	—
Jefferson	29	—	15	3	2	—	9	—	—
Josephine ...	136	—	2	100	28	1	4	1	—
Klamath	99	—	13	65	15	—	5	1	—
Lake	4	*	*	*	*	*	*	*	*
Lane	929	—	1	3	857	7	51	6	4
Lincoln	92	1	—	—	20	30	32	4	5
Linn	183	2	—	1	62	63	47	3	5
Malheur	5	*	*	*	*	*	*	*	*
Marion	676	—	—	—	10	372	246	15	33
Morrow	7	*	*	*	*	*	*	*	*
Multnomah ..	2,905	—	—	1	10	6	2,804	79	2
Polk	112	1	—	—	4	57	41	5	4
Sherman	2	*	*	*	*	*	*	*	*
Tillamook	39	—	—	—	4	2	29	3	1
Umatilla	24	—	—	—	—	—	24	—	—
Union	9	*	*	*	*	*	*	*	*
Wallowa	—	—	—	—	—	—	—	—	—
Wasco	33	—	1	—	1	—	30	1	—
Washington	1,202	1	—	—	33	4	805	353	4
Wheeler	1	*	*	*	*	*	*	*	*
Yamhill	149	—	—	—	—	23	83	15	28
Out of State	1,050	—	7	18	17	2	988	16	1
Not Stated ...	19	—	—	—	2	—	14	2	1

— Quantity is zero.

* Detailed reporting of small numbers may breach confidentiality.

SECTION 4: TEEN PREGNANCY

Teen Pregnancy

Introduction

In 2010, 4,900 pregnancies occurred among Oregon females under the age of 20. Fifty-eight pregnancies occurred among females under age 15. Twenty-seven girls aged 10–14 gave birth during 2010, 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 13.

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

Pregnancy rates for Oregonians ages 15 to 17 decreased by 17.2% from 2009.

Oregon females 15 to 17

Efforts to prevent teen pregnancies focus primarily on females aged 15–17. During 2010, 1,406 pregnancies were

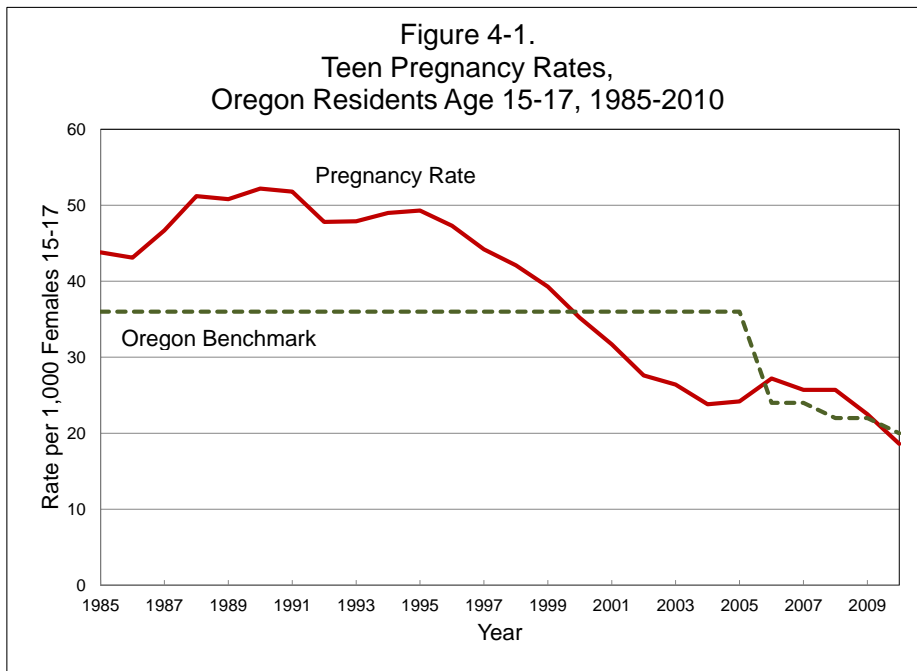


Table 4-A. Oregon Benchmark Teen Pregnancy Rates 15-17	
Year 2010 Goal: 20.0	
Year	Rate
1980	59.3
1985	43.8
1990	52.2
1991	51.8
1992	47.8
1993	47.9
1994	49.0
1995	49.3
1996	47.3
1997	44.2
1998	42.1
1999	39.3
2000	35.2
2001	31.7
2002	27.6
2003	26.4
2004	23.8
2005	24.2
2006	27.2
2007	25.7
2008	25.7
2009	22.5
2010	18.6

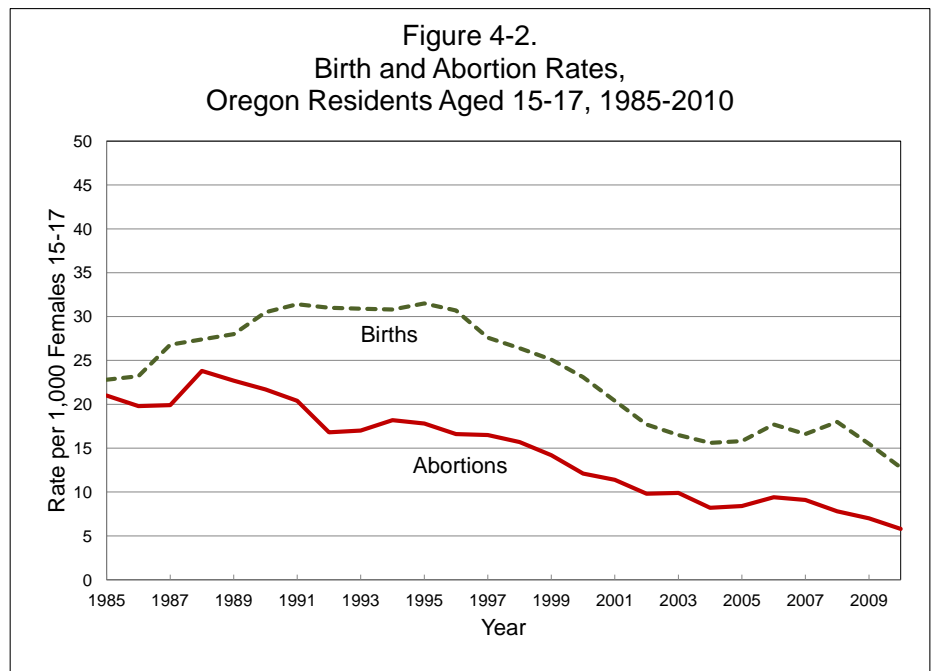
Pregnancy rate per 1,000 Oregon resident females ages 15-17.

recorded for Oregon females aged 15–17, 290 fewer than in 2009. (See Table 4-1.) In 2010, the statewide pregnancy rate among women aged 15–17 decreased 17.2 percent from 22.5 in 2009 to a current low of 18.6. (See Table 4-1.) Historically, the teen pregnancy rate has trended downward and the 2010 rate is 44.3 percent lower than it was in 2000. Pregnancy rates for teens aged 15–17 varied by county. Eight counties had rates significantly different than the state rate. (See Table 4-3.) The 2010 rate for teens 15–17 was 7.0 percent below the Oregon Benchmark goal for the year 2010 of 20 pregnancies per 1,000 females. (See Figure 4-1, page 4-1.)

Births to teens 15 to 17

There were 969 births to Oregon teens aged 15–17 in 2010. More than 68.9 percent of the pregnancies among teens aged 15–17 resulted in a live birth, compared to 46 percent in 1980. (Table 4-1.) It was the mother’s first child in 93.7 percent of these births. (See Table 4-9.) The birth rate for females aged 15–17 was 12.8 per 1,000 females, a decrease of 17.4 percent from the previous year. Of these, 85.7 percent had neither completed high school nor obtained a general equivalency diploma (GED). Among those who took their pregnancies to term, 92.6 percent were unmarried at the time of birth. (See Table 4-10.)

Figure 4-2.
Birth and Abortion Rates,
Oregon Residents Aged 15-17, 1985-2010

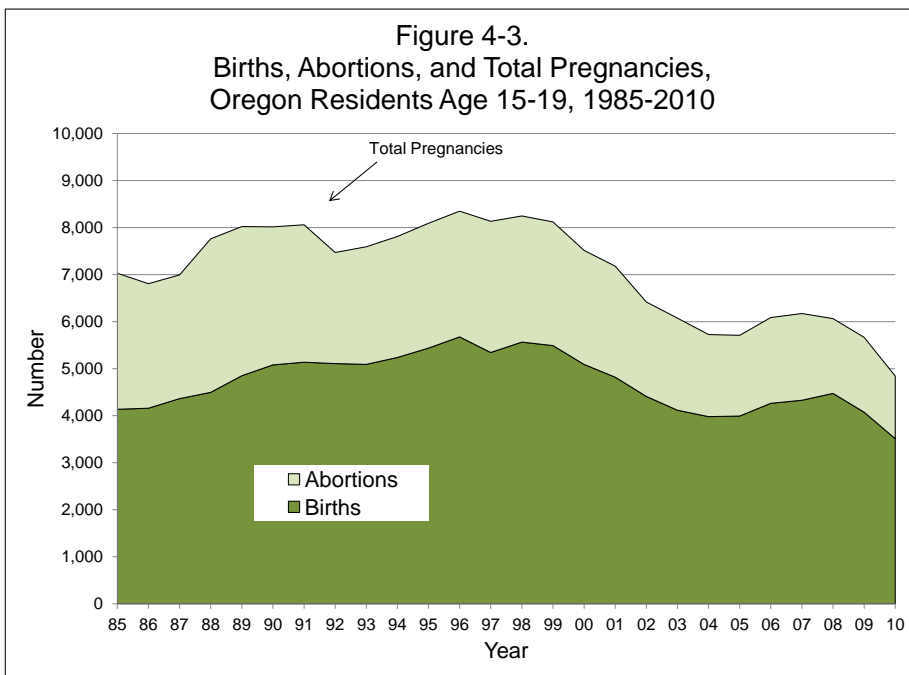


Abortion rates among teens 15 to 17

Abortion rates among teens decreased 17.2 percent from 2009. For females aged 15–17, the abortion rate was historically low in 2010 at 5.8 per 1,000. (See Table 4-5, Figure 4-2.) There were 437 abortions among Oregon females aged 15–17 reported during 2010, 90 fewer abortions than in 2009. Since the record high abortion rate recorded in 1980, the rate for females aged 15–17 has decreased by more than 81.8 percent (from 31.9 to 5.8 per 1,000 females).

Abortion rates for teens age 15 to 17 decreased 17.2% from 2009

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, 46.6 percent of the pregnancies resulted in a live birth in 2010. (See Table 4-2, Figure 4-4.)

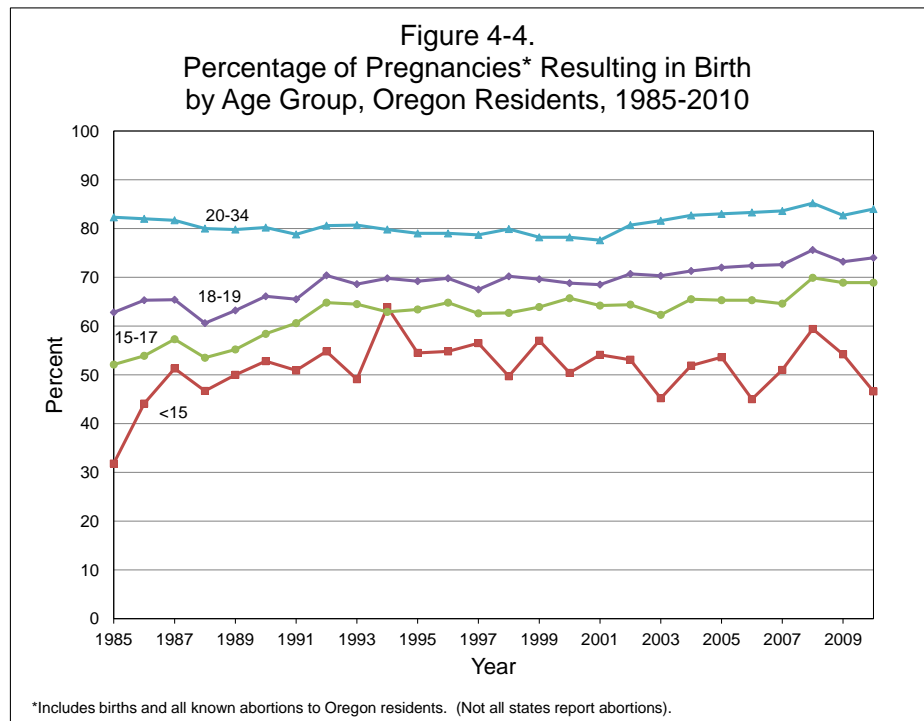


Birth rates for teens age 18 to 19 decreased by 12.3% from 2009

Oregon females 18 to 19

In 2010, the pregnancy rate for Oregonians aged 18–19 was 68.8 per 1,000 females, a 13.3 percent decrease from 2009. Comparisons with the 2009 figures show a decrease in the birth rate (12.3 %), while the abortion rate decreased 15.9 percent among women aged 18–19. (See Table 4-1.)

Of the 3,436 pregnancies among women aged 18–19, 74.0 percent (2,542) resulted in a live birth. (See Figure 4-4.) It was the first child for 81.0 percent of this group.



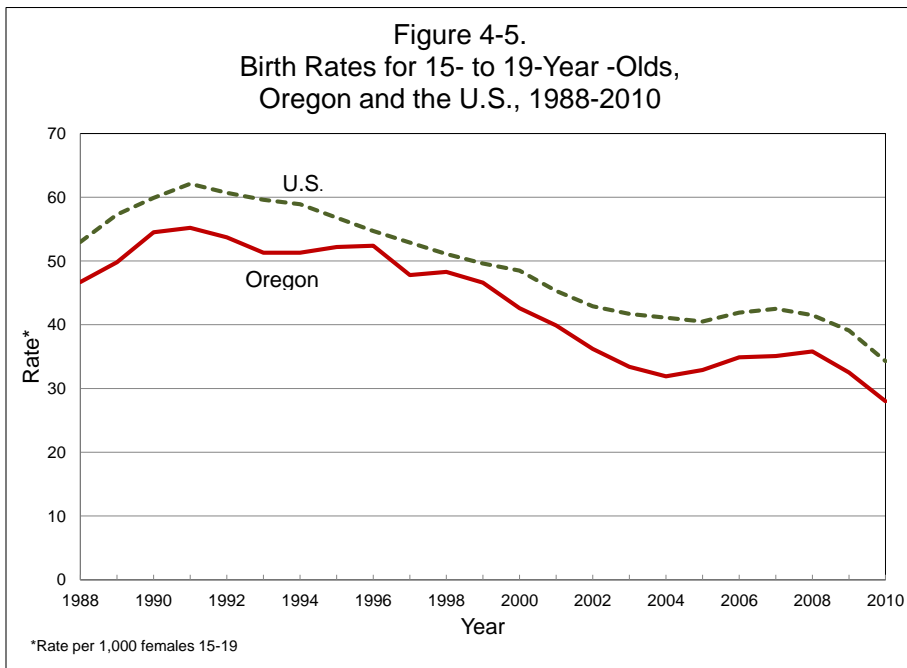
Oregon vs. U.S. birth rates

In Oregon, the birth rate among 15- to 19-year-olds (commonly used in historical and national comparisons) decreased 13.8 percent in 2010 (28.0 vs. 32.5 per 1,000 females in 2009). (See Table 4-1.) The 2010 rate was 49.3 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 2010 birth rate for 15- to 19-year-old teens was 28.4 percent below the national rate (28.0 vs. 39.1 per 1,000 females; see sidebar 4-B). Oregon’s lower teen birth rate may be attributable to the state’s demographic characteristics. Historically, African American and Hispanic populations

Age	Oregon		U.S.
	2010	2009	2009
15-17	12.8	15.5	20.1
18-19	50.9	58.0	66.2
15-19	28.0	32.5	39.1

¹ All rates per 1,000 females.



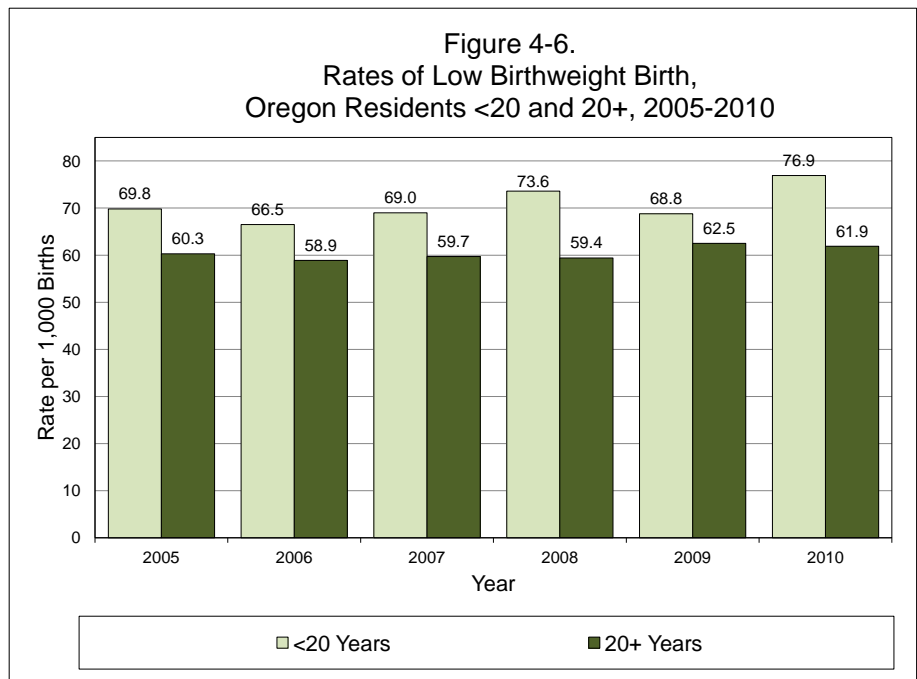
have had higher teen birth rates. Oregon's diversity is increasing. Between the 1990 and the 2000 census, the proportion of Hispanic residents doubled from 4 percent to 8 percent while the proportion of racial minorities was relatively unchanged.¹ Nevertheless, during this period, Oregon's teen pregnancy rate for 15- to 19-year-olds fell from 86.0 per 1,000 females in 1990 to 38.6 in 2010, a 55.1 percent decrease. (See Table 4-1.) (For further discussion of Oregon's demographic characteristics and teen pregnancy rates, see the Methodology section of Appendix B.)

Level of infant health

Low birthweight

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

In 2010, the low birthweight rate for teen mothers aged 15–19 was 77.5 per 1,000 births (Table 4-7), a 14.5 percent increase from 2009. For 15- to 17-year-olds, the rate (82.6 per 1,000) increased by 20.8 percent. The teen rate for low



birthweight remained higher than for mothers aged 20 and older (61.9 per 1,000). (See Table 2-29.) The difference in the low birthweight rates between teen and older mothers has increased in recent years. (See Figure 4-6.)

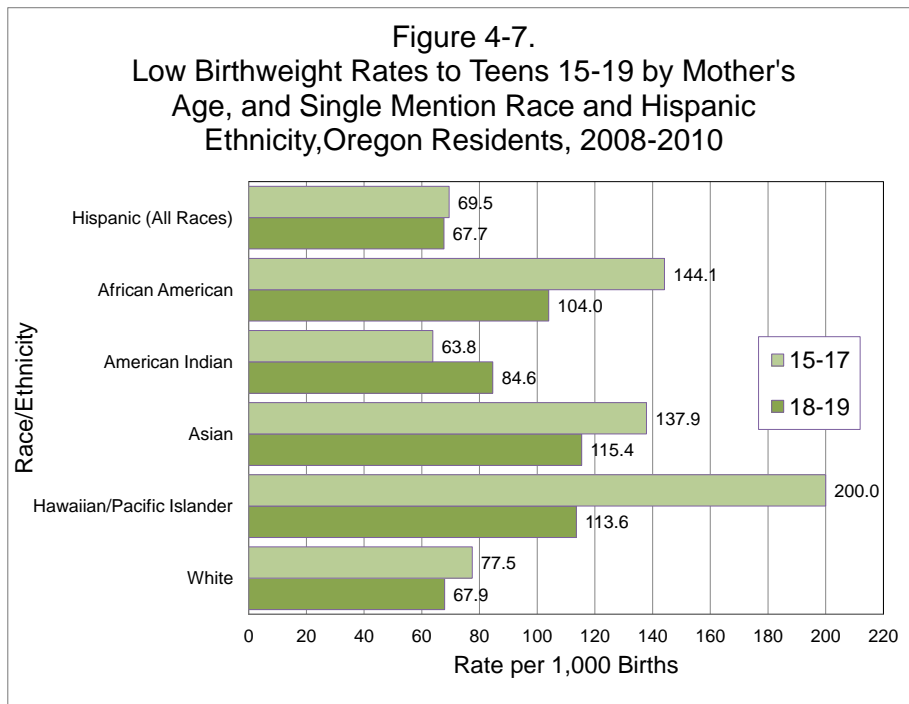
Race and ethnicity

Demographic factors such as race, ethnicity and marital status combine with age to influence the likelihood a teenager will receive early prenatal care. In 2010 for example, 49.5 percent of unmarried Hispanics aged 15–17 started prenatal care during their first trimester, compared to 60.5 percent of married non-Hispanic White women aged 18–19. (See Table 4-7.)

Low birthweight rates among teen mothers by racial/ethnic grouping are displayed in the sidebar and in Table 4-7. Between 2009 and 2010, the rate of low birthweight infants for Hispanic teens aged 15–17 increased by 12.5 percent. The low birthweight rate for Hispanic teens aged 18–19 during this same period decreased by 3.3 percent. Among non-Hispanic, non-White groups, the low birthweight rate for teens aged 15–17 increased by 101.9 percent, while the rate for 18- to 19-year-olds increased by 31.7 percent. (See sidebar 4-C.)

Race/Ethnicity	Age	
	15-17	18-19
Rates		
Non-Hispanic White	81.7	75.8
Hispanic (All Races)	70.3	67.5
Non-Hispanic, Non-white	135.1	95.6
Percent Change, 2010 vs. 2009		
Non-Hispanic White	15.7	17.2
Hispanic (All Races)	12.5	-3.3
Non-Hispanic, Non-white	101.9	31.7

¹ All rates per 1,000 births



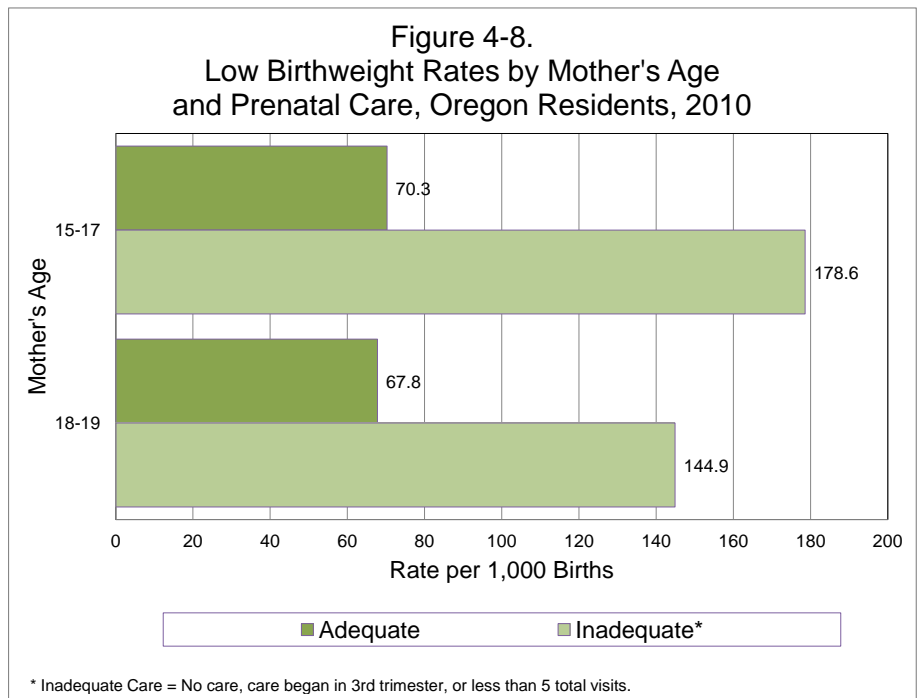
Prenatal care

Table 4-6 shows the association between inadequate prenatal care and frequency of low birthweight infants for teens who gave birth in 2010. 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 (156.4 vs. 68.5 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 70.3 vs. 178.6; for mothers 18–19, the rates were 67.8 vs. 144.9.

- **Early prenatal care**

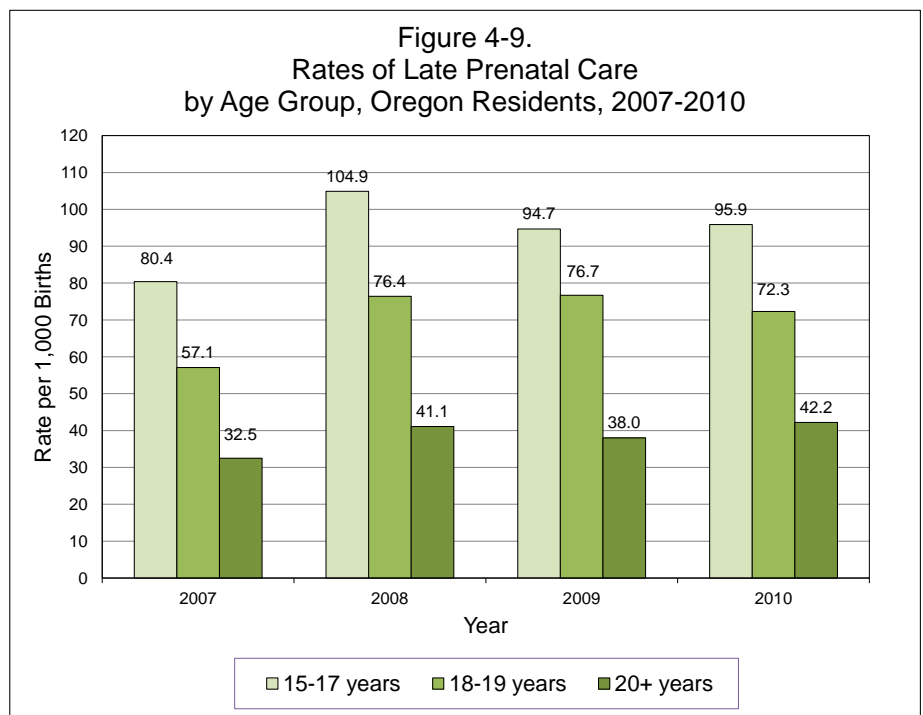
Prenatal care should begin within the first three months of pregnancy to allow early detection of complications and to ensure the health of both mother and infant. An Oregon Benchmark goal is 90 percent of pregnant women, regardless of age, will begin medical care during the first trimester of pregnancy by the year 2010. Teens are further from this goal than any other age group. In 2010, only 57.9 percent of teen mothers started prenatal care during the first trimester, compared to 74.4 percent for women aged 20 and older (see sidebar 4-D). Only 54.1 percent of those 15–17 received first trimester prenatal care, an increase from 49.9 percent in 2009. (See Table 4-10.)

Table 4-D. Oregon Benchmark: First Trimester Prenatal Care, 2010	
Year 2010 Goal: 90%	
All Women	73.1
All Teens	57.9
15-17 Years	54.1
18-19 Years	59.4
20+ Years	74.4



- **Inadequate prenatal care**

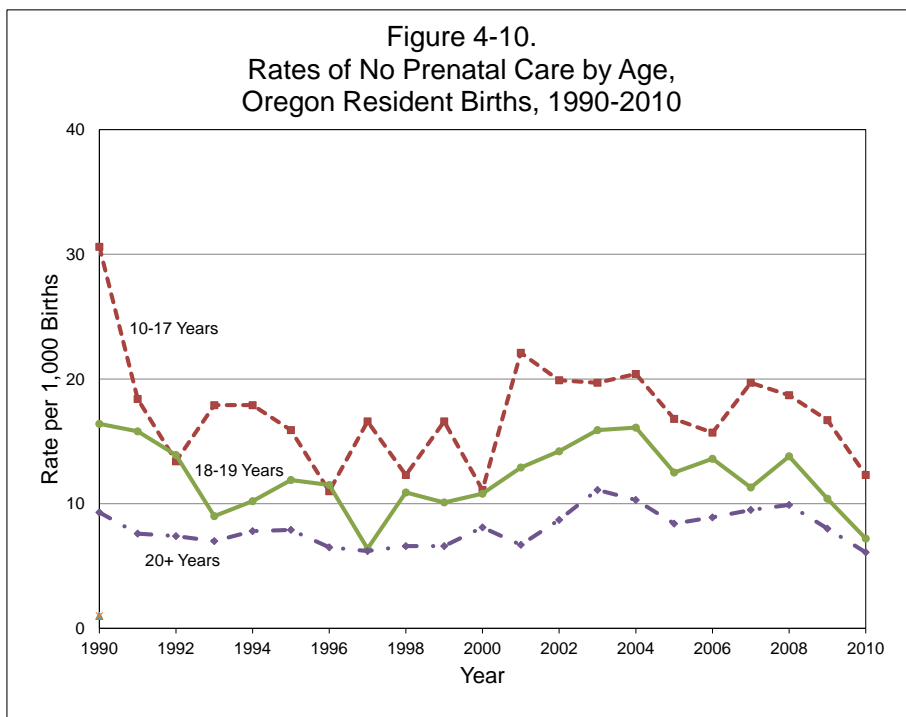
Inadequate prenatal care is defined as no prenatal care, care beginning after the second trimester of pregnancy or involving fewer than five prenatal visits. By this measure, 11.8 percent of 15- to 17-year-old teens and 8.6 percent of 18- to 19-year-old teens received inadequate prenatal care in 2010. This compares with



5.1 percent of women aged 20 or older who received inadequate care. (See Table 4-10.) The proportion of women under age 20 who received inadequate prenatal care decreased by 14.3 percent in 2010, from 11.2 percent in 2009 to 9.6 percent.

• **Late care and no prenatal care**

From 2009 to 2010, the proportion of teens aged 15–17 who began prenatal care during the third trimester increased 1.3 percent to 95.9 per 1,000 live births. (See Figure 4-9.) In 2010, 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 11.5 per 1,000 live births, more than twice the rate of women aged 20 and older (6.1 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 2010, the low five-minute Apgar rate for newborns of mothers aged 15–17 was 34.2 per 1,000 births (Table 4-9), a 2.8 percent decrease from 2009 (35.2 per 1,000). The low five-minute Apgar rate for infants born to women under age 20 was 37.3 percent higher than the rate for infants born to women 20 years or older (35.7 compared to 26.0 per 1,000).

Substance use during pregnancy

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

Tobacco

The percentage of teens aged 15–19 who reported smoking during pregnancy in 2010 was nearly double the percentage reported by women aged 20 and older (18.7 % vs. 10.7 %). (See Table 4-9.) Women who smoked during pregnancy had a higher number of low birthweight babies than nonsmokers. Mothers aged 20 or older show the greatest difference between low birthweight rates by tobacco use (95.8 vs. 57.6 per 1,000 live births). This is due, in part, because the low birthweight rate for teen mothers is higher than for women aged 20 and older (see sidebar 4-E). Tobacco use remains one of the most important preventable causes of low birthweight infants for teen mothers.

Alcohol

Teens aged 15–19 were slightly less likely to report the use of alcohol during pregnancy as were women aged 20 and older (6.8 per 1,000 births vs. 7.7 per 1,000 births).

	<20	20+
Nonsmokers	72.4	57.6
Smokers	99.1	95.8

¹ All Rates per 1,000 births

Source of payment

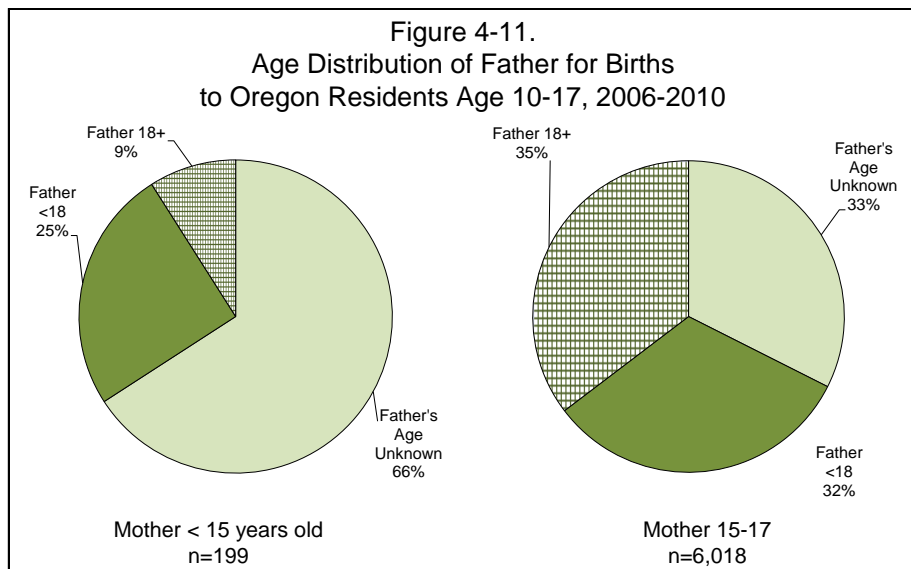
The percentage of teen mothers who utilized public funds to pay the costs associated with birth was nearly twice that of older mothers. In 2010, Medicaid/Oregon Health Plan paid for 77.8 percent of births to teens aged 15–19 and 42.6 percent of births to women aged 20 and older where payor source was reported. (See Table 4-10.)

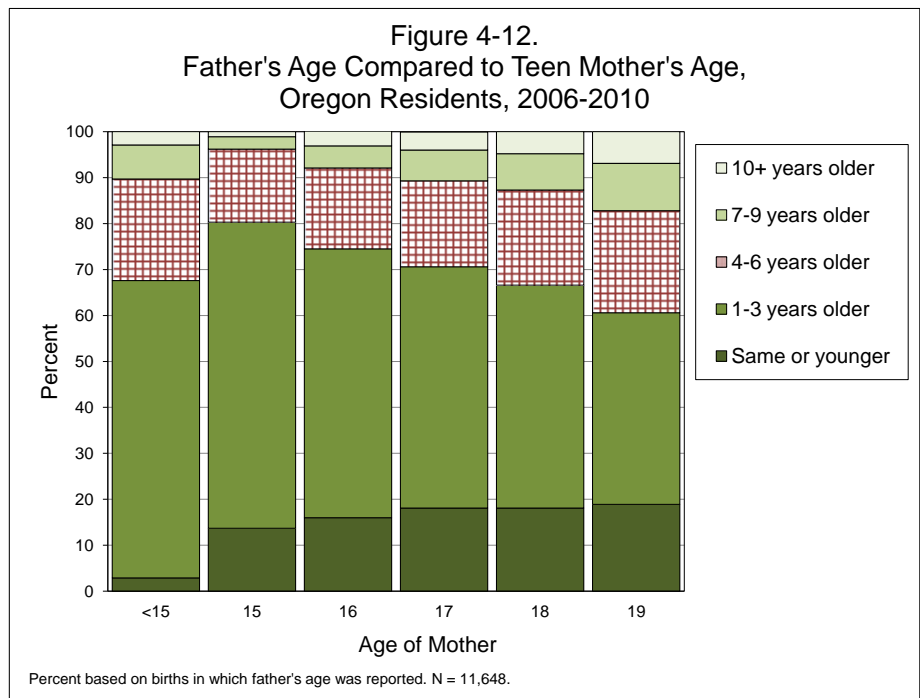
Medicaid/OHP paid for 77.8 percent of births to teens in 2010

Age of father

For the period 2006 to 2010, 32.4 percent of birth records for babies born to teens aged 15–17 did not indicate father’s age or the father was not identified on the birth certificate. (See Figure 4-11, Table 4-13.) Almost two-thirds (65.8 %) of the birth records where the mother was under age 15 did not list the father’s age. When the father’s age was reported for teen mothers under age 15, 73.5 percent were younger than age 18 and 26.5 percent were aged 18 or older. Birth records for mothers aged 15–17 report father’s age for 67.6 percent of births. Where the father’s age was reported, 27.4 percent of fathers were under age 18 and 72.6 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 12.4 percent of the births for the 2006–2010 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 3.8





percent of births to 15-year-old mothers, to a high of 17.2 percent for 19-year-old teens. (See Figure 4-12.)

End note

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

TABLE 4-1. Oregon Pregnancies to Teens 15-19 Years, 1975-2010

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

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

TABLE 4-1. Oregon Pregnancies to Teens 15-19 Years, 1975-2010 (Continued)

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

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

NA = Not Available

All rates are per 1,000 females.

TABLE 4-2. Oregon Pregnancies to Young Teens 10-17 Years, 1975-2010

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

¹ Pregnancy estimates are based on the total number of births and abortions. See also footnote (2) below regarding changes in estimating abortions.
² Abortion estimates are based on reports for Oregon residents whether occurring in Oregon or another state. For years prior to 1985 (and in 1986-1987) abortion estimates were based on Oregon occurrences only, but included abortions obtained by out-of-state residents. Because some neighboring states do not report abortions to the state of residence (especially California), this results in minimal estimates for both abortions and pregnancies.
³ Percentage of pregnancies resulting in a live birth.
 NA = Not Available
 Rates per 1,000 females 10-17 years of age. 2010: 199,159.

TABLE 4-3. Pregnancy Rates of Teens by County of Residence, Oregon, 2010

County of Residence	Total Pregnancies All Ages	Age				Pregnancy Rate ¹			
		<15	15-17	18-19	15-19	10-17	15-17	18-19	15-19
Total ²	54,874	58	1,406	3,436	4,842	7.3	18.6	69.3	38.6
Baker	177	–	4	12	16	5.6	14.6	66.3	35.2
Benton	915	1	12	44	56	§ 2.8	§ 5.1	§ 28.4	§ 14.4
Clackamas	4,629	4	98	249	347	§ 4.9	§ 12.7	§ 48.8	§ 27.1
Clatsop	497	1	9	33	42	5.3	12.0	66.4	33.7
Columbia	579	1	20	44	64	7.9	19.2	64.0	37.0
Coos	762	1	15	80	95	5.2	12.5	§ 100.8	§ 47.7
Crook	206	–	7	18	25	4.3	11.9	46.3	25.6
Curry	194	–	7	14	21	8.6	20.9	63.1	37.7
Deschutes	1,998	2	49	123	172	6.1	16.8	63.7	35.4
Douglas	1,230	1	39	116	155	7.9	20.6	§ 92.7	49.4
Gilliam	22	*	*	*	*	*	*	*	*
Grant	67	*	*	*	*	*	*	*	*
Harney	92	*	*	*	*	*	*	*	*
Hood River	313	1	6	19	25	5.5	12.3	59.2	31.0
Jackson	2,861	1	81	192	273	7.7	19.4	69.6	39.4
Jefferson	310	1	17	39	56	§ 13.4	§ 34.8	§ 120.4	§ 68.9
Josephine	928	–	35	85	120	9.0	23.1	84.8	§ 47.7
Klamath	902	3	31	97	128	9.8	23.9	§ 113.1	§ 59.4
Lake	74	*	*	*	*	*	*	*	*
Lane	4,427	5	98	273	371	§ 5.9	§ 13.7	§ 57.7	§ 31.2
Lincoln	535	–	12	46	58	6.8	17.1	§ 99.4	49.9
Linn	1,639	3	47	115	162	8.1	20.6	76.0	42.6
Malheur	516	–	22	54	76	12.0	§ 33.8	§ 125.6	§ 70.4
Marion	5,286	5	207	417	624	§ 11.5	§ 30.6	§ 93.2	§ 55.6
Morrow	184	–	3	19	22	4.0	11.1	106.1	48.9
Multnomah	12,555	15	270	621	891	8.2	21.0	73.0	§ 41.7
Polk	1,023	2	29	60	89	8.6	20.5	64.0	37.8
Sherman	18	*	*	*	*	*	*	*	*
Tillamook	287	1	7	20	27	8.2	16.7	71.9	38.6
Umatilla	1,281	1	51	122	173	§ 12.6	§ 33.2	§ 120.1	§ 67.8
Union	315	–	8	27	35	5.6	13.4	68.2	35.2
Wallowa	66	*	*	*	*	*	*	*	*
Wasco	333	1	5	27	32	4.6	10.1	82.3	38.8
Washington	8,325	4	164	358	522	§ 5.6	§ 15.2	§ 50.2	§ 29.2
Wheeler	16	*	*	*	*	*	*	*	*
Yamhill	1,277	2	45	82	127	9.2	23.1	63.5	39.1

– Quantity is zero.

¹ All rates per 1,000 females.

² Total includes 35 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, 2010

County of Residence	Total Births (All Ages)	Age				Birth Rate ¹			
		<15	15-17	18-19	15-19	10-17	15-17	18-19	15-19
Total	45,596	27	969	2,542	3,511	5.0	12.8	51.3	28.0
Baker	165	–	3	12	15	4.2	10.9	66.3	33.0
Benton	727	1	10	28	38	§ 2.4	§ 4.3	§ 18.1	§ 9.8
Clackamas	3,869	–	58	177	235	§ 2.8	§ 7.5	§ 34.7	§ 18.4
Clatsop	413	–	6	26	32	3.2	8.0	52.3	25.7
Columbia	491	–	11	34	45	4.1	10.6	49.4	26.0
Coos	656	–	7	66	73	2.3	§ 5.8	§ 83.1	36.6
Crook	181	–	5	16	21	3.1	8.5	41.1	21.5
Curry	180	–	5	13	18	6.2	14.9	58.6	32.3
Deschutes	1,709	1	35	86	121	4.3	12.0	44.5	24.9
Douglas	1,049	–	27	83	110	5.3	14.3	66.3	§ 35.0
Gilliam	21	–	1	–	1	16.1	33.3	–	20.4
Grant	59	–	–	8	8	–	–	83.3	33.2
Harney	88	–	3	5	8	9.0	20.1	50.5	32.3
Hood River	278	1	4	14	18	3.9	8.2	43.6	22.3
Jackson	2,341	–	54	151	205	5.1	13.0	54.7	29.6
Jefferson	280	1	10	37	47	8.2	20.4	§ 114.2	§ 57.8
Josephine	793	–	20	64	84	5.2	13.2	63.9	33.4
Klamath	803	2	26	85	111	§ 8.1	20.1	§ 99.1	§ 51.5
Lake	70	–	1	4	5	3.1	7.2	43.5	21.6
Lane	3,495	5	64	193	257	4.0	§ 9.0	§ 40.8	§ 21.6
Lincoln	443	–	9	39	48	5.1	12.9	§ 84.2	§ 41.3
Linn	1,456	2	36	86	122	6.2	15.7	56.8	32.1
Malheur	477	–	21	50	71	§ 11.5	§ 32.3	§ 116.3	§ 65.7
Marion	4,604	4	161	337	498	§ 8.9	§ 23.8	§ 75.4	§ 44.3
Morrow	163	–	3	17	20	4.0	11.1	§ 95.0	44.4
Multnomah	9,610	5	162	391	553	4.8	12.6	45.9	25.9
Polk	911	2	21	42	63	6.4	14.8	44.8	26.7
Sherman	16	–	–	–	–	–	–	–	–
Tillamook	245	1	4	16	20	5.1	9.5	57.6	28.6
Umatilla	1,107	–	40	99	139	§ 9.7	§ 26.1	§ 97.4	§ 54.5
Union	281	–	7	20	27	4.9	11.7	50.5	27.2
Wallowa	61	–	1	2	3	3.8	9.3	28.2	16.8
Wasco	298	–	5	23	28	3.9	10.1	70.1	34.0
Washington	7,113	2	112	253	365	§ 3.8	§ 10.4	§ 35.5	§ 20.4
Wheeler	15	–	–	2	2	–	–	142.9	57.1
Yamhill	1,127	–	37	63	100	7.2	19.0	48.8	30.8
Unknown	1	–	–	–	–	–	–	–	–

– Quantity is zero.

¹ All rates per 1,000 females.

§ Birth rate is significantly different from the state.

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

TABLE 4-5. Abortion Rates of Teens by County of Residence, Oregon, 2010

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	9,278	31	437	894	1,331	2.3	5.8	18.0	10.6
Baker	12	—	1	—	1	1.4	3.6	—	2.2
Benton	188	—	2	16	18	§ 0.4	§ 0.9	10.3	§ 4.6
Clackamas	760	4	40	72	112	2.1	5.2	14.1	§ 8.8
Clatsop	84	1	3	7	10	2.1	4.0	14.1	8.0
Columbia	88	1	9	10	19	3.8	8.7	14.5	11.0
Coos	106	1	8	14	22	2.9	6.7	17.6	11.0
Crook	25	—	2	2	4	1.2	3.4	5.1	4.1
Curry	14	—	2	1	3	2.5	6.0	4.5	5.4
Deschutes	289	1	14	37	51	1.8	4.8	19.2	10.5
Douglas	181	1	12	33	45	2.6	6.4	26.4	14.3
Gilliam	1	*	*	*	*	*	*	*	*
Grant	8	*	*	*	*	*	*	*	*
Harney	4	*	*	*	*	*	*	*	*
Hood River	35	—	2	5	7	1.6	4.1	15.6	8.7
Jackson	520	1	27	41	68	2.6	6.5	14.9	9.8
Jefferson	30	—	7	2	9	5.2	14.3	6.2	11.1
Josephine	135	—	15	21	36	3.9	9.9	21.0	14.3
Klamath	99	1	5	12	17	1.7	3.9	14.0	7.9
Lake	4	*	*	*	*	*	*	*	*
Lane	932	—	34	80	114	2.0	4.8	16.9	9.6
Lincoln	92	—	3	7	10	1.7	4.3	15.1	8.6
Linn	183	1	11	29	40	2.0	4.8	19.2	10.5
Malheur	39	—	1	4	5	0.5	1.5	9.3	4.6
Marion	682	1	46	80	126	2.5	6.8	17.9	11.2
Morrow	21	—	—	2	2	—	—	11.2	4.4
Multnomah	2,945	10	108	230	338	§ 3.4	§ 8.4	§ 27.0	§ 15.8
Polk	112	—	8	18	26	2.2	5.6	19.2	11.0
Sherman	2	*	*	*	*	*	*	*	*
Tillamook	42	—	3	4	7	3.1	7.1	14.4	10.0
Umatilla	174	1	11	23	34	2.9	7.2	22.6	13.3
Union	34	—	1	7	8	0.7	1.7	17.7	8.0
Wallowa	5	*	*	*	*	*	*	*	*
Wasco	35	1	—	4	4	0.8	—	12.2	4.9
Washington	1,212	2	52	105	157	1.8	4.8	§ 14.7	§ 8.8
Wheeler	1	*	*	*	*	*	*	*	*
Yamhill	150	2	8	19	27	2.0	4.1	14.7	8.3

— Quantity is zero.

¹ All rates per 1,000 females.

² Total includes 69 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, 2010

Race/Ethnicity and Age of Mother	Total Births	Adequacy of Prenatal Care					
		Inadequate ¹		Adequate		Not Stated	
		<2500 Grams	2500+ Grams	<2500 Grams	2500+ Grams	<2500 Grams	2500+ Grams
Total Births²							
15-19	3,511	51	275	213	2,898	8	66
15-17	969	20	92	59	780	1	17
18-19	2,542	31	183	154	2,118	7	49
Non-Hispanic Single Mention Race							
White							
15-19	1,906	22	151	119	1,570	6	38
15-17	416	7	36	26	337	1	9
18-19	1,490	15	115	93	1,233	5	29
African American							
15-19	105	3	9	9	79	–	5
15-17	32	1	4	5	20	–	2
18-19	73	2	5	4	59	–	3
American Indian							
15-19	71	–	4	6	59	–	2
15-17	17	–	1	3	13	–	–
18-19	54	–	3	3	46	–	2
Asian							
15-19	36	3	1	4	28	–	–
15-17	8	2	1	–	5	–	–
18-19	28	1	–	4	23	–	–
Hawaiian/Pacific Islander							
15-19	23	–	3	3	17	–	–
15-17	5	–	3	–	2	–	–
18-19	18	–	–	3	15	–	–
Other/Unknown							
15-19	3	–	–	–	3	–	–
15-17	1	–	–	–	1	–	–
18-19	2	–	–	–	2	–	–
Multiple Races							
15-19	145	2	8	11	121	–	3
15-17	48	1	4	3	39	–	1
18-19	97	1	4	8	82	–	2
Hispanic Ethnicity							
Hispanic³							
15-19	1,211	20	98	61	1,013	2	17
15-17	441	9	43	22	363	–	4
18-19	770	11	55	39	650	2	13

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

TABLE 4-6. Births to 15- to 19-year-old Teens by Race/Ethnicity, Adequacy of Prenatal Care, and Birthweight, Oregon Residents, 2010 (Continued)

Race/Ethnicity and Age of Mother	Total Births	Adequacy of Prenatal Care					
		Inadequate ¹		Adequate		Not Stated	
		<2500 Grams	2500+ Grams	<2500 Grams	2500+ Grams	<2500 Grams	2500+ Grams
Total Births²							
15-19	3,511	51	275	213	2,898	8	66
15-17	969	20	92	59	780	1	17
18-19	2,542	31	183	154	2,118	7	49
Multiple Mention Race and Ethnicity							
White							
15-19	2,896	38	232	172	2,391	7	56
15-17	760	13	71	42	619	1	14
18-19	2,136	25	161	130	1,772	6	42
African American							
15-19	152	3	9	14	119	—	7
15-17	46	1	4	5	33	—	3
18-19	106	2	5	9	86	—	4
American Indian							
15-19	197	3	16	12	161	—	5
15-17	66	1	5	6	54	—	—
18-19	131	2	11	6	107	—	5
Asian							
15-19	84	5	5	8	65	—	1
15-17	24	3	3	—	17	—	1
18-19	60	2	2	8	48	—	—
Hawaiian/Pacific Islander							
15-19	45	1	6	4	34	—	—
15-17	12	—	5	—	7	—	—
18-19	33	1	1	4	27	—	—
Other							
15-19	321	5	17	16	280	1	2
15-17	116	2	9	8	97	—	—
18-19	205	3	8	8	183	1	2
Unknown							
15-19	49	2	4	2	41	—	—
15-17	20	1	1	2	16	—	—
18-19	29	1	3	—	25	—	—
Hispanic³							
15-19	1,211	20	98	61	1,013	2	17
15-17	441	9	43	22	363	—	4
18-19	770	11	55	39	650	2	13

— Quantity is zero.

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

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

³ Hispanic ethnicity includes any race.

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

TABLE 4-7. Births to Teens 15-19 by Marital Status, Race/Ethnicity, and Age by Adequacy of Prenatal Care and Birthweight, Oregon Residents, 2010

Marital Status, Race/Ethnicity and Age of Mother	Total Births ¹	Low Weight Births		First Trimester Care		Inadequate Care ³	
		Number	Rate ²	Number	Rate ²	Number	Rate ²
Total Births¹							
15-19	3,511	272	77.5	2,014	579.4	326	94.9
15-17	969	80	82.6	519	541.2	112	117.8
18-19	2,542	192	75.5	1,495	594.0	214	86.1
Non-Hispanic Single Mention Race							
White	1,906	147	77.1	1,176	624.2	173	92.9
15-17	416	34	81.7	239	582.9	43	105.9
Married	31	2	64.5	20	666.7	2	66.7
Unmarried	384	32	83.3	218	575.2	41	109.3
18-19	1,490	113	75.8	937	635.7	130	89.3
Married	278	17	61.2	167	605.1	21	76.6
Unmarried	1,208	96	79.5	768	643.2	109	92.5
African American	105	12	114.3	64	615.4	12	120.0
15-17	32	6	187.5	21	656.2	5	166.7
Married	—	—	—	—	—	—	—
Unmarried	32	6	187.5	21	656.2	5	166.7
18-19	73	6	82.2	43	597.2	7	100.0
Married	4	—	—	2	500.0	—	—
Unmarried	69	6	87.0	41	602.9	7	106.1
American Indian	71	6	84.5	40	571.4	4	58.0
15-17	17	3	176.5	9	529.4	1	58.8
Married	1	—	—	—	—	—	—
Unmarried	16	3	187.5	9	562.5	1	62.5
18-19	54	3	55.6	31	584.9	3	57.7
Married	5	—	—	3	600.0	1	200.0
Unmarried	49	3	61.2	28	583.3	2	42.6
Asian/Pacific Islander⁴	59	10	169.5	22	372.9	7	118.6
15-17	13	2	153.8	1	76.9	6	461.5
Married	1	—	—	—	—	—	—
Unmarried	12	2	166.7	1	83.3	6	500.0
18-19	46	8	173.9	21	456.5	1	21.7
Married	6	—	—	5	833.3	—	—
Unmarried	39	7	179.5	15	384.6	1	25.6
Other/Multiple Races	148	13	87.8	83	564.6	10	69.0
15-17	49	4	81.6	25	520.8	5	104.2
Married	7	—	—	5	714.3	1	142.9
Unmarried	42	4	95.2	20	487.8	4	97.6
18-19	99	9	90.9	58	585.9	5	51.5
Married	18	1	55.6	12	666.7	1	55.6
Unmarried	80	8	100.0	46	575.0	4	51.3
Hispanic Ethnicity							
Hispanic⁵	1,211	83	68.5	623	518.3	118	99.0
15-17	441	31	70.3	224	510.3	52	119.0
Married	31	3	96.8	22	709.7	5	161.3
Unmarried	410	28	68.3	202	495.1	47	115.8
18-19	770	52	67.5	399	522.9	66	87.4
Married	169	10	59.2	96	578.3	13	79.3
Unmarried	600	42	70.0	303	508.4	52	88.1

— 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, 2010 (Continued)

Marital Status, Race/Ethnicity and Age of Mother	Total Births ¹	Low Weight Births		First Trimester Care		Inadequate Care ³	
		Number	Rate ²	Number	Rate ²	Number	Rate ²
Total Births¹							
15-19	3,511	272	77.5	2,014	579.4	326	94.9
15-17	969	80	82.6	519	541.2	112	117.8
18-19	2,542	192	75.5	1,495	594.0	214	86.1
Multiple Mention Race/ Ethnicity							
White	2,896	217	74.9	1,675	584.6	270	95.3
15-17	760	56	73.7	408	544.0	84	112.8
Married	56	4	71.4	37	685.2	5	92.6
Unmarried	703	52	74.0	370	532.4	79	114.5
18-19	2,136	161	75.4	1,267	599.1	186	89.1
Married	416	25	60.1	244	592.2	34	83.3
Unmarried	1,715	136	79.3	1,021	601.3	152	90.7
African American	152	17	111.8	90	600.0	12	82.8
15-17	46	6	130.4	28	622.2	5	116.3
Married	—	—	—	—	—	—	—
Unmarried	46	6	130.4	28	622.2	5	116.3
18-19	106	11	103.8	62	590.5	7	68.6
Married	6	—	—	2	333.3	—	—
Unmarried	100	11	110.0	60	606.1	7	72.9
American Indian	197	15	76.1	110	564.1	19	99.0
15-17	66	7	106.1	33	500.0	6	90.9
Married	9	—	—	6	666.7	1	111.1
Unmarried	57	7	122.8	27	473.7	5	87.7
18-19	131	8	61.1	77	596.9	13	103.2
Married	15	1	66.7	9	600.0	3	200.0
Unmarried	116	7	60.3	68	596.5	10	90.1
Asian/Pacific Islander⁴	114	16	140.4	46	403.5	15	132.7
15-17	30	3	100.0	7	233.3	10	344.8
Married	3	—	—	—	—	2	666.7
Unmarried	27	3	111.1	7	259.3	8	307.7
18-19	84	13	154.8	39	464.3	5	59.5
Married	15	—	—	10	666.7	1	66.7
Unmarried	67	12	179.1	28	417.9	4	59.7
Other/Unknown	370	26	70.3	217	589.7	28	76.3
15-17	136	13	95.6	75	551.5	13	95.6
Married	13	2	153.8	11	846.2	1	76.9
Unmarried	123	11	89.4	64	520.3	12	97.6
18-19	234	13	55.6	142	612.1	15	64.9
Married	53	3	56.6	33	634.6	2	38.5
Unmarried	180	10	55.6	109	608.9	12	67.4
Hispanic⁵	1,211	83	68.5	623	518.3	118	99.0
15-17	441	31	70.3	224	510.3	52	119.0
Married	31	3	96.8	22	709.7	5	161.3
Unmarried	410	28	68.3	202	495.1	47	115.8
18-19	770	52	67.5	399	522.9	66	87.4
Married	169	10	59.2	96	578.3	13	79.3
Unmarried	600	42	70.0	303	508.4	52	88.1

— 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, 2010

County of Residence	Total		Low Weight Births		First Trimester Care		Inadequate Care ¹	
	Number	Rate ²	Number	Rate ³	Number	Rate ³	Number	Rate ³
Total	3,511	28.0	272	77.5	2,014	579.4	326	94.9
Baker	15	33.0	2	133.3	10	666.7	—	—
Benton	38	§ 9.8	5	131.6	23	638.9	2	55.6
Clackamas	235	§ 18.4	16	68.1	118	508.6	36	§ 157.2
Clatsop	32	25.7	5	156.2	17	531.2	—	—
Columbia	45	26.0	2	44.4	32	711.1	3	68.2
Coos	73	36.6	8	109.6	42	575.3	9	123.3
Crook	21	21.5	2	95.2	13	619.0	—	—
Curry	18	32.3	1	55.6	10	555.6	1	55.6
Deschutes	121	24.9	12	99.2	74	611.6	13	107.4
Douglas	110	§ 35.0	11	100.0	79	718.2	11	100.9
Gilliam	1	20.4	*	*	*	*	*	*
Grant	8	33.2	*	*	*	*	*	*
Harney	8	32.3	*	*	*	*	*	*
Hood River	18	22.3	1	55.6	15	833.3	—	—
Jackson	205	29.6	16	78.0	120	588.2	15	73.9
Jefferson	47	§ 57.8	4	85.1	31	659.6	3	63.8
Josephine	84	33.4	3	35.7	57	678.6	9	107.1
Klamath	111	§ 51.5	10	90.1	54	490.9	8	72.7
Lake	5	21.6	*	*	*	*	*	*
Lane	257	§ 21.6	14	54.5	163	634.2	26	101.2
Lincoln	48	§ 41.3	4	83.3	32	680.9	2	42.6
Linn	122	32.1	9	73.8	81	723.2	11	102.8
Malheur	71	§ 65.7	2	28.2	34	478.9	10	140.8
Marion	498	§ 44.3	36	72.3	268	541.4	30	61.2
Morrow	20	44.4	3	150.0	9	450.0	3	150.0
Multnomah	553	25.9	53	95.8	285	521.0	67	126.7
Polk	63	26.7	7	111.1	42	677.4	5	80.6
Sherman	—	—	*	*	*	*	*	*
Tillamook	20	28.6	2	100.0	9	450.0	1	50.0
Umatilla	139	§ 54.5	9	64.7	70	507.2	16	115.9
Union	27	27.2	3	111.1	13	481.5	8	§ 296.3
Wallowa	3	16.8	*	*	*	*	*	*
Wasco	28	34.0	2	71.4	21	750.0	1	35.7
Washington	365	§ 20.4	23	63.0	211	582.9	25	70.0
Wheeler	2	57.1	*	*	*	*	*	*
Yamhill	100	30.8	6	60.0	64	653.1	9	91.8

— Quantity is zero.

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

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

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

§ Rate is significantly different from the state.

* Detailed reporting of small numbers may breach confidentiality.

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

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

TABLE 4-9. Birth Outcomes of Infants by Age of Mother, Oregon Residents, 2010

Birth Outcomes	Total Births	Mother's Age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total Births	45,596	27	128	278	563	979	1,563	3,511	42,058	–
Birthweight¹										
1499 Grams or Less										
<28 Weeks	207	–	2	1	8	8	9	28	179	–
28-36 Weeks	261	–	–	1	3	6	6	16	245	–
37-41 Weeks	9	–	–	–	–	–	–	–	9	–
42+ Weeks	–	–	–	–	–	–	–	–	–	–
Unknown	3	–	–	–	–	–	–	–	3	–
1500-2499 Grams										
<28 Weeks	1	–	–	–	–	–	–	–	1	–
28-36 Weeks	1,509	–	4	13	21	34	62	134	1,375	–
37-41 Weeks	880	–	3	8	16	27	40	94	786	–
42+ Weeks	2	–	–	–	–	–	–	–	2	–
Unknown	1	–	–	–	–	–	–	–	1	–
2500+ Grams										
<28 Weeks	–	–	–	–	–	–	–	–	–	–
28-36 Weeks	1,626	2	4	9	17	30	56	116	1,508	–
37-41 Weeks	40,498	25	114	241	487	865	1,382	3,089	37,384	–
42+ Weeks	568	–	1	3	11	9	8	32	536	–
Unknown	23	–	–	2	–	–	–	2	21	–
5 Minute Apgar										
0-3	309	1	–	5	6	17	15	43	265	–
4-6	911	3	3	6	13	20	40	82	826	–
7-10	44,236	23	125	267	541	938	1,502	3,373	40,840	–
Not Stated	140	–	–	–	3	4	6	13	127	–
Tobacco Used										
Yes	5,115	1	12	32	76	197	328	645	4,469	–
No	40,016	26	115	241	484	774	1,219	2,833	37,157	–
Unknown	465	–	1	5	3	8	16	33	432	–
Alcohol Used										
Yes	337	–	–	3	1	5	14	23	314	–
No	43,663	27	126	267	543	939	1,483	3,358	40,278	–
Not Reported	769	–	1	6	11	19	40	77	692	–
Unknown	827	–	1	2	8	16	26	53	774	–
Birth Order										
1 st	18,549	27	125	264	519	825	1,233	2,966	15,556	–
2 nd	14,481	–	3	14	43	146	287	493	13,988	–
3 rd	7,276	–	–	–	1	7	40	48	7,228	–
4 th	3,196	–	–	–	–	1	3	4	3,192	–
5+	2,094	–	–	–	–	–	–	–	2,094	–
Prenatal Care										
No Care	282	1	3	4	4	6	12	29	252	–
Little or Late ²	2,163	4	15	33	53	86	110	297	1,862	–
Adequate ³	42,347	21	108	237	494	857	1,415	3,111	39,215	–
Unknown	804	1	2	4	12	30	26	74	729	–

– Quantity is zero.

¹ The birthweight was unknown for eight infants.

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

³ Prenatal care began prior to the third trimester; patient made at least 5 visits to a medical provider.

TABLE 4-10. Demographic Characteristics of Mother by Age, Oregon Residents, 2010

Demographics of Mother	Total Births	Mother's Age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total Births	45,596	27	128	278	563	979	1,563	3,511	42,058	–
Ethnicity/Race¹										
White	30,849	12	49	106	261	554	936	1,906	28,931	–
African American	944	–	5	9	18	32	41	105	839	–
American Indian	541	–	–	4	13	17	37	71	470	–
Asian	2,076	–	2	2	4	7	21	36	2,040	–
Native Hawaiian/Pacific Islander	333	–	–	1	4	6	12	23	310	–
Other and Multiple Races ²	1,414	–	8	14	27	33	66	148	1,266	–
Total Hispanic	9,237	14	64	142	235	326	444	1,211	8,012	–
Marital Status										
Unmarried	16,173	27	127	266	503	849	1,204	2,949	13,197	–
Married	29,321	–	1	12	59	127	355	554	28,767	–
Unknown	102	–	–	–	1	3	4	8	94	–
Education										
8th grade or less	2,402	16	24	21	33	43	47	168	2,218	–
Some high school	6,191	11	102	243	393	441	467	1,646	4,534	–
High school graduate/GED	10,560	–	1	12	125	411	763	1,312	9,248	–
Some college	10,871	–	–	–	10	79	277	366	10,505	–
Associate's Degree	3,092	–	–	–	–	2	5	7	3,085	–
Bachelor's Degree	7,856	–	–	–	–	–	1	1	7,855	–
Postbaccalaureate	4,421	–	–	–	–	–	–	–	4,421	–
Unknown	203	–	1	2	2	3	3	11	192	–
Birth Order										
1 st	18,549	27	125	264	519	825	1,233	2,966	15,556	–
2 nd	14,481	–	3	14	43	146	287	493	13,988	–
3 rd	7,276	–	–	–	1	7	40	48	7,228	–
4 th	3,196	–	–	–	–	1	3	4	3,192	–
5+	2,094	–	–	–	–	–	–	–	2,094	–
Unknown	–	–	–	–	–	–	–	–	–	–
Start of Prenatal Care										
1 st Trimester	33,126	12	56	133	330	548	947	2,014	31,100	–
2 nd Trimester	10,146	9	56	110	182	341	499	1,188	8,949	–
3 rd Trimester	1,761	4	12	29	40	70	94	245	1,512	–
No Care	282	1	3	4	4	6	12	29	252	–
Prenatal Care										
Inadequate ³	2,445	5	18	37	57	92	122	326	2,114	–
Adequate ⁴	42,347	21	108	237	494	857	1,415	3,111	39,215	–
Unknown	804	1	2	4	12	30	26	74	729	–
Source of Payment										
Medicaid/OHP*	20,463	19	103	208	396	748	1,263	2,718	17,726	–
Private Insurance	23,106	7	20	58	148	196	236	658	22,441	–
Self-Pay	1,093	1	3	4	8	13	17	45	1,047	–
Other Coverage	712	–	1	6	9	18	38	72	640	–
Unknown Mention	222	–	1	2	2	4	9	18	204	–

– 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, 2010 (revised)

Demographics of Patient	Total ¹	Patient's Age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total Abortions	9,278	31	73	128	236	387	507	1,331	7,870	46
Ethnicity/Race										
Non-Hispanic White	6,756	21	51	92	173	266	351	933	5,773	29
Non-Hispanic African American	524	4	2	6	13	31	36	88	430	2
Non-Hispanic American Indian	215	1	2	3	8	6	14	33	180	1
Non-Hispanic Asian ²	430	–	1	5	5	15	20	46	382	2
Total Hispanic	1,113	3	15	18	36	58	66	193	905	12
Marital Status										
Unmarried	6,626	29	69	111	213	337	436	1,166	5,403	28
Married	1,659	–	1	2	1	8	23	35	1,620	4
Unknown	993	2	3	15	22	42	48	130	847	14
Education										
8 th Grade or Less	270	24	17	4	4	5	10	40	204	2
9 th Grade	179	4	35	27	7	7	7	83	91	1
10 th Grade	350	–	16	62	41	19	19	157	191	2
11 th Grade	636	–	1	19	108	65	57	250	384	2
12 th Grade	3,501	–	1	10	60	222	278	571	2,909	21
Some College	2,511	–	–	1	5	37	112	155	2,346	10
College/Postbaccalaureate	1,416	–	–	–	–	3	5	8	1,402	6
Unknown	415	3	3	5	11	29	19	67	343	2
Children Now Alive										
One	2,074	–	1	6	23	57	118	205	1,858	11
Two	1,543	–	–	–	1	9	12	22	1,512	9
Three	646	–	–	–	–	–	–	–	643	3
Four+	316	–	–	–	–	–	–	–	313	3
Unknown	332	3	3	7	7	25	15	57	270	2
Previous Abortions										
None	5,261	30	72	120	217	304	403	1,116	4,089	26
One	2,260	–	–	7	17	66	81	171	2,083	6
Two	975	–	–	–	2	11	12	25	941	9
Three+	687	–	1	–	–	2	6	9	676	2
Unknown	95	1	–	1	–	4	5	10	81	3
Gestation										
Eight Weeks or Less	5,904	11	34	65	141	230	308	778	5,085	30
9-12	2,074	13	24	48	59	83	132	346	1,706	9
13-16	643	4	4	7	20	42	26	99	539	1
17+	389	3	6	6	10	19	25	66	319	1
Unknown	267	–	5	2	6	13	16	42	220	5
Contraceptive Used (revised)										
None Used	5,983	25	57	87	157	256	356	913	5,008	37
Pills Used	923	1	1	7	30	33	56	127	793	2
Condom Used	1,496	3	12	26	30	62	58	188	1,300	5
Other	648	–	–	2	11	13	24	50	597	1
Medical Procedure										
Suction Curettage	5,076	14	46	78	137	204	278	743	4,290	29
Dilation & Evacuation	2,181	14	17	29	47	104	134	331	1,831	5
Medical (non-surgical)	1,928	3	10	20	49	78	92	249	1,666	10
Other Specified	69	–	–	1	2	1	2	6	62	1

– 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, 2010

Father's Age	Total	Mother's Age								
		<15	15	16	17	18	19	20-24	25+	N.S.
Total	45,596	27	128	278	563	979	1,563	10,325	31,733	—
<15	6	1	5	—	—	—	—	—	—	—
15	21	—	9	6	3	3	—	—	—	—
16	86	5	17	28	23	10	2	—	1	—
17	203	4	18	42	55	42	26	12	4	—
18	380	—	16	36	86	99	87	54	2	—
19	622	—	3	27	83	155	167	166	21	—
20	881	—	—	14	62	128	223	404	50	—
21	1,069	—	3	12	32	94	206	638	84	—
22	1,310	—	—	6	19	60	173	906	146	—
23	1,406	—	—	3	14	53	95	996	245	—
24	1,657	—	1	4	14	34	78	1,063	463	—
25+	33,985	—	—	4	24	90	238	4,758	28,871	—
N.S.	3,970	17	56	96	148	211	268	1,328	1,846	—

— Quantity is zero.

TABLE 4-13. Age of Father by Age of Mother, Oregon Residents, 2006-2010

Father's Age	Total	Mother's Age								
		<15	15	16	17	18	19	20-24	25+	N.S.
Total	239,958	199	730	1,872	3,416	5,767	8,865	57,623	161,463	23
<15	26	2	12	7	2	–	–	1	2	–
15	119	10	39	41	22	5	2	–	–	–
16	430	21	67	146	121	52	16	6	1	–
17	1,069	17	106	248	305	199	117	65	12	–
18	2,109	5	74	258	492	559	396	280	45	–
19	3,587	2	31	203	466	847	959	942	137	–
20	4,808	5	19	102	346	789	1,133	2,153	261	–
21	5,970	3	9	73	235	549	1,079	3,552	470	–
22	7,203	–	3	38	129	410	915	4,868	840	–
23	8,115	2	1	25	101	306	600	5,628	1,452	–
24	9,302	–	6	25	68	216	513	5,970	2,504	–
25+	174,843	1	4	47	195	571	1,553	26,615	145,854	3
N.S.	22,377	131	359	659	934	1,264	1,582	7,543	9,885	20

– 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, 1995-2010

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

Table A-1. Population Distribution by Age and Sex, Oregon, 1950, 1960, 1970, 1975, 1980, 1985, 1990, 1995-2010

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

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, 2010

County	Total Population (Both Sexes)																			
	All Ages	0-4	5-9	10-14	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
OREGON	3,823,465	234,264	242,941	252,279	154,594	102,328	257,279	268,905	260,018	260,600	254,360	264,346	274,059	270,212	229,225	166,234	116,226	87,471	69,697	79,158
BAKER	16,440	833	813	920	579	383	787	871	800	975	1,032	1,138	1,346	1,335	1,144	971	814	631	497	570
BENTON	87,000	3,884	4,163	4,590	4,827	3,195	12,452	6,448	5,841	5,482	4,789	5,061	5,575	5,885	4,720	3,134	2,086	1,712	1,335	1,821
CLACKAMAS	381,775	24,132	23,080	26,540	15,885	10,514	25,470	27,546	24,438	24,059	24,537	27,068	29,118	28,095	23,618	17,018	10,630	7,340	5,811	6,874
CLATSOP	37,860	1,960	2,088	2,329	1,561	1,033	2,373	2,458	2,128	2,042	2,101	2,657	2,980	3,304	2,723	1,900	1,420	1,074	851	877
COLUMBIA	48,620	3,006	2,838	3,385	2,141	1,417	3,101	2,849	2,451	2,846	3,212	3,647	3,914	3,857	3,188	2,415	1,586	1,113	833	822
COOS	62,930	2,805	3,236	3,667	2,439	1,614	3,271	3,464	3,047	3,183	3,452	4,351	5,077	5,325	4,911	4,067	3,141	2,389	1,785	1,708
CROOK	27,280	1,816	1,551	1,996	1,187	786	1,727	1,941	1,677	1,668	1,584	1,659	1,912	1,813	1,785	1,305	1,070	761	562	480
CURRY	21,160	817	827	983	669	443	937	947	755	762	952	1,372	1,680	1,803	1,826	1,771	1,545	1,167	908	997
DESCHUTES	172,050	9,812	9,889	10,859	6,051	4,005	9,462	11,638	11,427	11,832	11,388	12,392	13,389	13,310	12,049	8,772	5,833	3,920	2,962	3,061
DOUGLAS	105,240	5,733	5,731	6,536	3,958	2,620	6,039	6,612	5,587	5,390	5,824	6,828	8,005	8,265	7,567	5,998	4,722	3,928	3,030	2,867
GILLIAM	1,885	76	99	101	72	48	92	104	83	94	108	132	177	163	135	101	96	72	61	73
GRANT	7,510	420	352	450	322	213	345	477	335	376	404	537	624	640	570	456	355	259	181	193
HARNEY	7,720	395	423	444	324	215	480	416	330	374	440	606	675	626	544	427	354	276	182	189
HOOD RIVER	21,850	1,445	1,583	1,503	930	616	1,281	1,315	1,302	1,489	1,472	1,592	1,712	1,591	1,166	845	588	496	394	531
JACKSON	207,745	12,675	11,943	13,186	8,351	5,527	13,761	13,605	12,394	11,960	11,851	13,470	14,809	15,520	14,032	10,684	7,528	6,086	4,876	5,487
JEFFERSON	22,865	1,670	1,698	1,719	1,011	669	1,436	1,392	1,294	1,359	1,422	1,536	1,479	1,454	1,357	1,132	920	601	408	308
JOSEPHINE	83,600	4,483	4,182	4,916	3,202	2,120	4,652	4,847	4,008	4,105	4,511	5,376	6,302	6,879	6,514	5,336	3,897	3,214	2,432	2,625
KLAMATH	66,475	4,173	4,286	4,497	2,806	1,857	4,413	4,276	3,958	3,999	3,878	4,349	4,445	4,696	4,344	3,304	2,505	1,970	1,435	1,286
LAKE	7,570	387	397	413	298	197	381	458	370	419	405	509	633	644	552	457	360	280	207	202
LANE	348,550	18,359	19,043	20,846	14,467	9,576	29,647	24,420	23,038	22,468	21,112	22,512	24,007	25,755	22,133	15,789	11,340	8,652	7,223	8,162
LINCOLN	44,620	2,017	2,179	2,380	1,474	976	2,158	2,296	2,198	2,407	2,626	3,047	3,563	4,124	3,819	2,824	2,214	1,837	1,288	1,192
LINN	111,355	7,258	7,241	7,885	4,642	3,073	6,711	7,172	6,587	6,647	6,803	7,449	7,766	7,757	6,887	5,477	3,880	2,959	2,408	2,755
MALHEUR	31,865	1,768	2,288	2,348	1,364	903	1,881	2,172	2,437	2,078	2,115	2,170	2,071	2,045	1,625	1,335	985	778	668	834
MARION	320,640	22,099	23,413	23,632	13,753	9,103	22,007	24,590	22,805	21,355	20,759	20,934	20,737	19,542	16,750	12,283	8,691	6,621	5,382	6,184
MORROW	12,595	1,019	855	1,052	578	383	776	904	791	829	757	843	916	811	655	489	355	261	171	151
MULTNOMAH	730,140	43,373	47,767	44,107	26,050	17,243	46,076	54,811	58,768	61,133	56,355	53,314	52,501	50,354	39,693	25,785	17,288	12,654	10,647	12,221
POLK	69,145	4,478	4,150	4,447	2,993	1,981	5,497	5,271	4,877	3,637	3,771	4,135	4,499	4,838	4,106	3,030	2,124	1,790	1,397	2,124
SHERMAN	1,825	80	81	110	70	46	105	76	60	70	90	143	168	160	136	112	88	72	80	78
TILLAMOOK	26,170	1,070	1,253	1,306	946	626	1,327	1,724	1,369	1,203	1,379	1,730	2,094	2,259	2,183	1,797	1,338	999	799	768
UMATILLA	72,720	4,723	4,846	5,326	3,224	2,134	4,626	5,098	4,586	4,641	4,685	5,068	5,008	4,929	3,954	2,936	2,257	1,653	1,418	1,608
UNION	25,495	1,551	1,648	1,631	1,192	789	2,433	1,610	1,379	1,381	1,264	1,407	1,631	1,832	1,600	1,231	950	746	544	675
WALLOWA	7,085	334	293	387	249	165	420	433	268	307	289	447	569	767	586	446	342	280	231	272
WASCO	24,280	1,513	1,519	1,728	1,000	662	1,295	1,389	1,328	1,295	1,374	1,582	1,838	1,869	1,755	1,234	949	741	581	627
WASHINGTON	532,620	37,908	40,896	39,519	21,889	14,489	33,032	37,431	39,773	42,698	41,217	38,493	35,972	31,710	25,540	17,458	11,396	8,136	6,457	8,606
WHEELER	1,590	72	58	87	56	37	44	61	55	67	102	117	105	132	113	140	113	90	72	68
YAMHILL	95,925	6,121	6,232	6,457	4,034	2,670	6,783	7,782	7,477	5,968	6,299	6,674	6,763	6,126	4,946	3,774	2,468	1,912	1,578	1,862

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, 2010

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	1,907,023	119,877	124,756	128,586	79,128	52,376	131,630	137,945	133,304	134,776	130,976	132,766	134,433	132,948	113,164	80,525	55,185	39,069	28,865	28,029
BAKER	8,258	426	421	485	305	202	413	468	411	483	505	535	674	693	556	488	413	326	242	212
BENTON	43,020	1,987	2,140	2,292	2,487	1,646	6,160	3,385	3,283	2,811	2,293	2,309	2,596	2,920	2,331	1,472	971	749	549	637
CLACKAMAS	188,976	12,349	11,813	13,578	8,183	5,417	13,246	14,440	12,290	11,753	11,945	13,154	14,006	13,547	11,832	8,532	5,125	2,229	2,299	2,237
CLATSOP	18,835	1,003	1,088	1,195	811	537	1,286	1,345	1,093	991	1,024	1,281	1,413	1,636	1,386	902	671	489	355	326
COLUMBIA	24,551	1,538	1,474	1,766	1,102	729	1,594	1,393	1,126	1,328	1,546	1,808	2,025	2,013	1,641	1,312	889	569	383	316
COOS	30,740	1,435	1,634	1,794	1,240	821	1,701	1,779	1,557	1,626	1,732	2,071	2,330	2,503	2,323	1,930	1,577	1,168	831	690
CROOK	13,740	929	767	961	600	397	956	1,076	830	805	764	800	939	905	901	694	567	381	281	188
CURRY	10,337	418	433	504	334	221	465	451	352	368	486	645	775	858	791	813	804	633	491	496
DESCHUTES	86,161	5,021	4,959	5,364	3,131	2,073	5,039	6,059	5,953	6,094	5,597	5,948	6,301	6,499	5,952	4,407	3,045	1,984	1,419	1,317
DOUGLAS	51,755	2,934	2,942	3,349	2,069	1,369	3,139	3,319	2,724	2,565	2,698	3,184	3,800	4,081	3,804	2,886	2,299	1,930	1,449	1,216
GILLIAM	976	39	60	68	42	28	50	56	34	41	55	69	90	86	74	44	46	35	27	32
GRANT	3,772	215	173	227	177	117	185	243	139	148	197	257	307	349	314	235	176	138	90	86
HARNEY	4,013	202	237	260	175	116	263	227	147	159	233	337	366	329	284	227	163	128	88	71
HOOD RIVER	10,996	739	804	714	444	294	628	711	714	752	778	826	877	853	611	415	275	225	155	179
JACKSON	100,516	6,486	6,178	6,750	4,182	2,768	6,869	6,638	5,850	5,708	5,616	6,232	6,858	7,572	6,902	5,185	3,672	2,812	2,114	2,124
JEFFERSON	11,666	854	840	863	522	345	752	743	623	671	755	814	743	720	680	545	490	336	219	150
JOSEPHINE	40,534	2,294	2,144	2,548	1,689	1,118	2,431	2,417	1,867	1,929	2,111	2,455	2,912	3,215	3,044	2,526	1,936	1,618	1,170	1,112
KLAMATH	33,607	2,135	2,204	2,335	1,510	999	2,425	2,302	2,009	1,942	1,855	2,113	2,131	2,309	2,247	1,682	1,275	948	651	534
LAKE	3,848	198	220	225	159	105	197	217	172	188	192	243	301	336	300	243	193	148	118	94
LANE	171,247	9,395	9,780	10,658	7,321	4,846	14,574	12,246	12,004	11,654	10,576	10,873	11,358	12,537	10,924	7,627	5,350	3,734	2,849	2,942
LINCOLN	21,384	1,032	1,190	1,325	774	513	1,099	1,225	1,156	1,189	1,250	1,374	1,584	1,870	1,700	1,251	997	827	565	463
LINN	54,951	3,714	3,695	4,023	2,356	1,560	3,423	3,667	3,221	3,301	3,379	3,656	3,895	3,814	3,377	2,661	1,813	1,337	1,029	1,030
MALHEUR	18,458	905	1,141	1,168	714	473	997	1,371	1,720	1,447	1,451	1,457	1,323	1,186	892	726	500	369	308	310
MARION	164,620	11,308	12,047	11,953	6,996	4,631	11,732	13,518	12,727	12,067	11,623	11,241	10,388	9,613	8,146	5,739	3,894	2,740	2,102	2,153
MORROW	6,660	521	438	571	308	204	402	491	425	420	368	453	495	432	350	259	205	157	95	65
MULTNOMAH	363,595	22,195	24,518	22,329	13,192	8,732	23,113	26,865	29,128	31,961	30,133	28,016	26,677	25,156	19,766	12,141	7,529	4,978	3,725	3,442
POLK	33,408	2,291	2,130	2,259	1,576	1,043	2,854	2,492	2,286	1,778	1,791	1,927	2,084	2,298	2,044	1,504	996	761	583	711
SHERMAN	948	41	38	51	34	23	54	42	31	33	37	73	93	83	71	57	53	44	44	46
TILLAMOOK	13,535	548	672	749	525	348	712	1,013	790	645	750	901	1,034	1,101	1,015	852	660	502	414	304
UMATILLA	38,468	2,417	2,469	2,731	1,689	1,118	2,454	2,891	2,603	2,538	2,628	2,845	2,737	2,646	2,124	1,544	1,085	740	600	610
UNION	12,329	793	835	813	594	393	1,213	789	652	683	571	589	769	902	794	632	472	355	255	225
WALLOWA	3,660	171	168	232	142	94	217	232	132	128	125	198	277	417	316	236	182	146	119	129
WASCO	12,082	774	800	932	505	334	638	717	655	626	661	751	929	959	878	636	457	306	256	269
WASHINGTON	266,172	19,398	21,127	20,162	11,126	7,364	16,919	19,174	20,464	22,489	21,696	19,619	17,725	15,228	12,157	8,144	5,162	3,332	2,298	2,585
WHEELER	808	37	31	53	35	23	25	24	21	33	45	52	45	61	62	78	53	49	45	36
YAMHILL	49,712	3,132	3,145	3,298	2,082	1,378	3,407	3,921	4,115	3,421	3,512	3,663	3,574	3,219	2,575	1,898	1,190	844	646	691

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, 2010

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	1,907,023	114,387	118,185	123,693	75,466	49,952	125,649	130,960	126,715	125,824	123,384	131,580	139,625	137,264	116,060	85,709	61,041	48,402	40,833	51,129
BAKER	8,182	407	391	435	274	181	375	403	389	493	527	603	673	642	588	483	401	305	255	359
BENTON	43,980	1,896	2,024	2,298	2,340	1,549	6,292	3,063	2,558	2,671	2,497	2,752	2,979	2,964	2,389	1,662	1,114	962	787	1,184
CLACKAMAS	192,799	11,783	11,267	12,962	7,702	5,098	12,224	13,106	12,148	12,306	12,592	13,914	15,112	14,548	11,786	8,486	5,505	4,111	3,512	4,637
CLATSOP	19,025	957	1,000	1,134	750	497	1,088	1,114	1,035	1,050	1,077	1,376	1,567	1,667	1,337	997	749	585	496	551
COLUMBIA	24,069	1,468	1,364	1,619	1,039	688	1,507	1,456	1,325	1,519	1,666	1,839	1,889	1,844	1,547	1,103	697	544	450	506
COOS	32,190	1,370	1,602	1,873	1,199	794	1,570	1,684	1,490	1,557	1,720	2,281	2,747	2,822	2,588	2,137	1,564	1,221	954	1,017
CROOK	13,540	887	784	1,035	588	389	771	865	847	863	820	859	973	909	884	611	503	380	281	291
CURRY	10,823	399	394	478	335	222	472	496	404	394	466	727	905	945	1,034	958	741	534	417	501
DESCHUTES	85,889	4,791	4,930	5,494	2,920	1,932	4,423	5,579	5,474	5,738	5,792	6,445	7,087	6,811	6,097	4,365	2,789	1,936	1,543	1,744
DOUGLAS	53,485	2,799	2,789	3,187	1,889	1,251	2,900	3,294	2,864	2,825	3,126	3,645	4,205	4,184	3,763	3,112	2,423	1,998	1,581	1,650
GILLIAM	909	37	39	32	30	20	42	48	49	53	53	63	87	76	61	57	50	37	34	42
GRANT	3,738	205	179	223	145	96	160	234	196	228	207	280	317	291	257	221	179	122	91	107
HARNEY	3,707	193	185	185	149	99	217	190	183	214	207	269	309	297	259	200	191	148	93	118
HOOD RIVER	10,854	705	779	789	486	321	653	603	587	737	693	767	835	738	556	430	313	271	240	352
JACKSON	107,229	6,189	5,765	6,436	4,169	2,760	6,891	6,967	6,544	6,252	6,235	7,238	7,951	7,948	7,130	5,499	3,856	3,274	2,762	3,364
JEFFERSON	11,199	815	857	856	489	324	684	649	671	688	667	723	736	734	678	587	430	265	189	158
JOSEPHINE	43,066	2,189	2,037	2,368	1,513	1,002	2,221	2,430	2,141	2,176	2,400	2,921	3,390	3,665	3,470	2,811	1,961	1,595	1,263	1,513
KLAMATH	32,868	2,038	2,081	2,161	1,296	858	1,988	1,975	1,948	2,057	2,023	2,236	2,313	2,387	2,097	1,621	1,229	1,022	784	753
LAKE	3,722	189	177	188	139	92	184	241	197	230	213	266	332	307	251	215	167	133	90	108
LANE	177,303	8,964	9,263	10,188	7,146	4,730	15,073	12,174	11,034	10,814	10,536	11,640	12,649	13,217	11,209	8,162	5,990	4,918	4,375	5,220
LINCOLN	23,236	985	990	1,055	700	463	1,059	1,071	1,042	1,218	1,377	1,673	1,979	2,253	2,119	1,573	1,217	1,010	723	729
LINN	56,404	3,544	3,545	3,861	2,286	1,513	3,288	3,505	3,366	3,346	3,425	3,793	3,871	3,943	3,510	2,815	2,066	1,622	1,379	1,726
MALHEUR	13,407	863	1,148	1,179	650	430	885	801	717	631	663	712	748	859	733	610	485	409	360	524
MARION	156,020	10,790	11,366	11,679	6,757	4,472	10,274	11,072	10,078	9,288	9,136	9,693	10,348	9,928	8,603	6,544	4,797	3,882	3,280	4,030
MORROW	5,935	498	416	481	271	179	374	413	366	409	389	391	421	378	305	229	150	103	77	86
MULTNOMAH	366,545	21,178	23,249	21,778	12,858	8,511	22,964	27,946	29,639	29,172	26,222	25,298	25,825	25,198	19,927	13,644	9,759	7,677	6,923	8,779
POLK	35,737	2,186	2,020	2,188	1,418	938	2,644	2,779	2,591	1,860	1,981	2,208	2,414	2,540	2,062	1,525	1,128	1,028	813	1,413
SHERMAN	877	39	42	59	36	24	51	34	28	37	53	69	75	77	65	55	36	29	36	32
TILLAMOOK	12,635	523	582	557	420	278	615	711	579	558	629	829	1,060	1,158	1,168	945	678	497	385	463
UMATILLA	34,252	2,306	2,377	2,595	1,535	1,016	2,172	2,207	1,983	2,103	2,057	2,224	2,270	2,283	1,830	1,392	1,171	913	818	998
UNION	13,166	757	814	818	598	396	1,220	821	728	698	693	818	862	930	806	599	478	391	289	450
WALLOWA	3,425	163	125	155	108	71	203	201	136	179	165	249	293	350	270	210	160	133	111	143
WASCO	12,198	739	719	796	496	328	657	672	673	668	713	830	910	910	878	598	492	435	325	358
WASHINGTON	266,448	18,510	19,769	19,357	10,764	7,125	16,113	18,256	19,308	20,209	19,521	18,873	18,247	16,482	13,383	9,313	6,234	4,804	4,158	6,021
WHEELER	782	35	28	34	21	14	19	37	34	35	57	65	61	70	51	62	60	41	27	32
YAMHILL	46,213	2,989	3,087	3,158	1,952	1,292	3,376	3,861	3,362	2,547	2,787	3,012	3,189	2,907	2,370	1,875	1,278	1,068	932	1,172

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

APPENDIX B: TECHNICAL NOTES

Appendix B: Technical notes - definitions

Births

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

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

Deaths

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

**Medical personnel -
abbreviations used in tables**

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

Endnote

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

Appendix B: Technical notes - methodology

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

— Samuel Johnson

Induced termination of pregnancy

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

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

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

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

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

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

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

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

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 factors such as deaths and migration have not altered the composition of the female population in Oregon—that is, the women who left the state displayed the same characteristics as those who have moved into Oregon. It also assumes patients with a history of previous abortions do not report the current procedure as a first abortion.

Teen pregnancy

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

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

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

Demographics

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

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

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

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

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

—Alfred North Whitehead

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

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

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

Step 1: Finding the correct number

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

Which event or events are appropriate?

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

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

Who should be counted?

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

Occurrence data:

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

Residence data:

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

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

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

Step 2: Making the number meaningful with rates and ratios

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

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

Here is an example:

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

the 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

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

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

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

Changes in measurement

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

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

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

Taking age, sex, and race into account

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

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

To the right is an example.

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 Statistic’s are available for data users who need assistance.

Endnote

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

Appendix B: Technical notes - formulas

GENERAL:

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

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

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

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

PREGNANCY:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DEATHS:

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

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

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

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

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

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

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

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

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

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

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

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

MARRIAGE AND DIVORCE:

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

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

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

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

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

CALCULATING CONFIDENCE INTERVALS FOR RATES:

Confidence limits for rates based on less than 100 events

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

Lower Limit = R x L

Upper Limit = R x U

where:

R = the rate

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

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

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

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

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

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

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

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

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

Confidence limits for rates based on 100 or more events

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

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

where:

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

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

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

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

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

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

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

DETERMINING STATISTICAL SIGNIFICANCE FOR RATES:

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

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

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

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

Baker County teen pregnancy rate for age 10-17

Lower Limit = 6.7

Upper Limit = 22.7

Jackson County teen pregnancy rate for age 10-17

Lower Limit = 11.5

Upper Limit = 16.0

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

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

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

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

where:

R_1 = the first rate

R_2 = the second rate

N_1 = the first number

N_2 = the second number

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

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

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

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

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

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

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

$$1.96 \sqrt{0.194}$$

$$= 1.96 \times .44$$

$$= 0.86$$

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

CALCULATING RATES ADJUSTED FOR SEX/AGE/RACE:

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

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

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

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

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

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

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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- **SAMPLE**

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

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

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

INFORMATION FOR MEDICAL AND HEALTH USE ONLY

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

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

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

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

SAMPLE

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

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

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

MAIL TO:

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

(Continued on back)

45-113 (01-07)

OREGON DEPARTMENT OF HUMAN SERVICES
CENTER FOR HEALTH STATISTICS 136-

Local File Number _____ State File Number _____

APPLICATION, LICENSE, AND RECORD OF MARRIAGE

LOCAL OFFICIAL COUNTY _____ **LICENSE EFFECTIVE ON OR AFTER** _____

GROOM

1. GROOM'S NAME First Middle Last

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

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

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

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

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

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

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: _____

SIGNATURES

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

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

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

LOCAL OFFICIAL TO MARRY

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

25. LICENSE EXPIRES (Month, Day, Year)

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

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

OREGON

CEREMONY

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

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

32. WITNESS NAME 33. WITNESS NAME

LOCAL OFFICIAL

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

APPLICANT - DO NOT WRITE BETWEEN THESE LINES - OFFICIAL USE ONLY

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)		40. RACE - OPTIONAL. American Indian, Black, White, etc. (Specify below)	41. EDUCATION (Specify below highest grade completed)	
	By Death, Divorce, Dissolution or Annulment (Specify below)	Date (Month, Day, Year)		Elementary/Secondary (0-12)	College (1-4 or 5+)
38a.	39a.	39b.	40a.	41a.	
38b.	39c.	39d.	40b.	41b.	

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)



136-

State file number:

Record of Dissolution of Marriage or Annulment

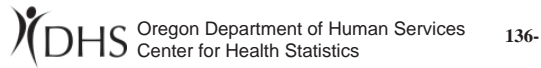
Case number: _____

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		
	11. Partner B – Legal name: First Middle Last		
	12. Surname at birth (if different than current legal name):		13. Other legal surnames used:
	14. Birthplace (state or foreign country):		15. Date of birth (month, day, year):
16. Age (18 or older):		17. Sex:	
18. Current status (never married, widowed, divorced):		19a. Resident county:	
19b. Resident state:			
19c. Mailing address: Number and street City or town State Country ZIP code			
20. Partner B legal name taken after domestic partnership: First Middle Last			
Signatures/notaries	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: _____		
Signatures/notaries	I acknowledge that: I am entering into a domestic partnership with the party listed above (Partner A); I am at least 18 years of age; I and/or my partner reside in Oregon; and am otherwise capable to enter into this relationship. I declare the information and representations contained herein are true, correct and contain no material omissions of fact to the best of my knowledge and belief. I consent to the jurisdiction of the circuit courts of Oregon for the purpose of an action to obtain a judgment of dissolution or annulment of the domestic partnership or for legal separation of the partners in the domestic partnership, or for any other proceeding related to the partners' rights and obligations, even if one or both partners cease to reside in or to maintain a domicile in this state.		
	Signature Partner B (current name) _____ Date _____ State of _____ county of _____. This instrument was acknowledged before me on _____ (date), by _____ (name(s) of person(s)). Signature of notarial officer: _____ Seal: My commission expires: _____		
Local Official	County of filing:		Signature of county official at county of filing:
	Date registered at county:		Name of issuing official (print):

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

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



136-

RECORD OF DISSOLUTION OF DECLARATION OF REGISTERED DOMESTIC PARTNERSHIP

	Local file number		State file number	
PARTNER A	1. Partner A — Legal name: <i>(First, middle, last, suffix)</i>		2. Other legal surnames used:	
	3. Date of birth: <i>(Month, day, year)</i>	4. Birthplace: <i>(State, territory or foreign country)</i>		
	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	
ATTORNEY	15a. Name of petitioner's attorney:		15b. Address: <i>(Street and number, city or town, state, ZIP code)</i>	
	16a. Name of respondent's attorney:		16b. Address: <i>(Street and number, city or town, state, ZIP code)</i>	
DECREE	17. Declaration of domestic partnership of above named persons was dissolved on: <i>(Month, day, year)</i>		18. Type of decree:	19. Date decree becomes effective: <i>(Month, day, year)</i>
	20. Number of children under 18 whose physical custody was awarded to: <input type="checkbox"/> Partner A <input type="checkbox"/> Partner B <input type="checkbox"/> Joint <input type="checkbox"/> Other <input type="checkbox"/> No children		21. County of decree:	22. Title of court:
	23. Signature of court official:		24. Title of court official:	25. Date signed: <i>(Month, day, year)</i>

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

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.

Do you want Oregon's most

Up-to-date info

available from the

Center for Health Statistics?

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

Check out our **Web site**

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

Are you looking for a specific table or report?

Vital Reports Data

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

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

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

Survey Data

Adult Behavior Risk Survey - BRFSS

Oregon Healthy Teens Survey - OHT

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

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

Oregon Health Authority

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

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