

Oregon Vital Statistics Annual Report 2013

Volume 1

- Natality
- Induced termination of pregnancy
- Teen pregnancy



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

Oregon
Vital Statistics
Annual Report
2013

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Published November 2014

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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 more important than it has ever been.

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 — as well as a variety of year-to-date preliminary data on deaths, births, abortions and teen pregnancy — is available at the Center for Health Statistics (CHS) website:

<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 simultaneously transmits the records to the county and state registrar.

Abortions are treated differently. The providers of induced abortions 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 the 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 registrars. 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, 2013		
Population	3,919,020	The population increased 35,285, or 0.9% over 2012.
Live births	Residents	The number of births increased by 77. The crude rate decreased by 0.9%, while the fertility rate decreased by 0.3%.
Number	45,136	
Crude rate	11.5	
Fertility rate	58.6	
Marriages	Occurrences	The number of marriages decreased by 690. The rate decreased by 3.0%.
Number	24,951	
Crude rate	6.4	
Divorces	Occurrences	The number of divorces decreased by 567. The rate decreased by 5.3%.
Number	14,274	
Crude rate	3.6	
Domestic partnerships	Occurrences	The number of domestic partnerships decreased by 96.
Number	538	
Dissolutions of domestic partnership	Occurrences	The number of dissolutions of domestic partnership decreased by 1.
Number	125	
Unmarried mothers	Residents	The number of unmarried mothers giving birth increased by 223. The proportion of births to unmarried mothers increased by 1.5%.
Number	16,046	
Ratio	356.5	
Low birthweight infants	Residents	The number of low birthweight infants increased by 67. The rate increased by 2.1%.
Number	2,845	
Rate	63.0	
Induced abortions	Occurrences	The number of reported abortions decreased by 729, a decrease of 8.1% from 2012. The abortion ratio decreased 8.1%.
Number	8,287	
Ratio	181.8	
<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., 1945-2013

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., 1945-2013 — Continued

Year	Live births		Births to unmarried mothers		Marriages		Divorces	
	Number	Rate ¹	Number	Ratio ²	Number	Rate ¹	Number	Rate ¹
1985	3,760,561	15.8	828,174	202.2	2,425,000	10.2	1,187,000	5.0
1986	3,756,547	15.6	878,477	233.9	2,400,000	10.0	1,159,000	4.8
1987	3,809,394	15.7	933,013	243.7	2,421,000	9.9	1,157,000	4.8
1988	3,909,510	15.9	1,005,299	257.1	2,389,000	9.7	1,183,000	4.8
1989	4,040,958	16.2	1,094,169	270.8	2,404,000	9.7	1,163,000	4.7
1990	4,158,212	16.7	1,165,384	280.3	2,448,000	9.8	1,175,000	4.7
1991	4,110,907	16.2	1,213,769	295.3	2,371,000	9.4	1,187,000	4.7
1992	4,065,014	15.9	1,244,876	300.0	2,362,000	9.2	1,215,000	4.7
1993	4,000,240	15.5	1,240,172	310.0	2,334,000	9.0	1,187,000	4.6
1994	3,952,767	15.2	1,289,592	326.3	2,362,000	9.1	1,191,000	4.6
1995	3,899,589	14.8	1,253,976	322.0	2,336,000	8.9	1,169,000	4.4
1996	3,891,494	14.7	1,260,306	324.0	2,344,000	8.8	1,150,000	4.3
1997	3,880,894	14.5	1,257,444	324.0	2,384,000	8.9	1,163,000	4.3
1998	3,941,553	14.6	1,293,567	328.0	2,256,000	8.3	1,135,000	4.2
1999	3,959,417	14.5	1,308,560	330.0	2,358,000	8.6	not available	4.1
2000	4,058,814	14.7	1,347,043	332.0	2,329,000	8.2	944,000	4.0
2001	4,025,933	14.1	1,349,249	335.1	2,345,000	8.2	940,000	4.0
2002	4,021,726	13.9	1,365,966	339.6	2,254,000	7.9	955,000	3.9
2003	4,089,950	14.1	1,415,995	346.0	2,224,000	7.5	927,000	3.8
2004	4,112,052	14.0	1,470,189	358.0	2,279,000	7.8	879,000	3.7
2005	4,138,349	14.0	1,527,034	369.0	2,249,000	7.6	847,000	3.6
2006	4,265,555	14.2	1,641,946	385.0	2,193,000	7.4	872,000	3.7
2007	4,317,119	14.3	1,714,643	397.0	2,205,000	7.3	856,000	3.6
2008	4,247,694	14.0	1,726,566	406.0	2,162,000	7.1	844,000	3.5
2009	4,131,019	13.5	1,693,850	410.0	2,077,000	6.8	840,000	3.5
2010	4,000,279	13.0	1,633,785	408.0	2,096,000	6.8	872,000	3.6
2011	3,953,590	12.7	1,607,773	406.7	2,118,000	6.8	877,000	3.6
2012	3,952,841	12.6	1,609,619	407.2	not available	NA	not available	NA
2013*	3,957,577	12.5	1,605,643	405.7	not available	NA	not available	NA

* Provisional data.

¹ Rate per 1,000 population for live births, marriages and divorces.² Ratio per 1,000 live births for births to unmarried mothers.

The source for data is: Births: Preliminary Data for 2013.
National Vital Statistics Reports, Vol. 63, No. 2, May 29, 2014

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, selected years 1910-1940, 1945-2013

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
1940	1,093,000	17,522	16.0	-	-	5,998	5.5	3,543	3.2
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
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

See footnotes at end of table.

TABLE 1-2. Population, live births and births to unmarried mothers, marriages, and divorces, Oregon, selected years 1910-1940, 1945-2013 — Continued

Year*	Population	Live births		Births to unmarried mothers		Marriages		Divorces	
		Number	Rate ¹	Number	Ratio ²	Number	Rate ¹	Number	Rate ¹
1978	2,472,000	38,964	15.8	5,279	135.5	21,055	8.5	16,965	6.9
1979	2,544,000	41,564	16.3	5,599	134.7	22,063	8.7	17,584	6.9
1980	2,633,105	43,091	16.4	6,360	147.6	23,004	8.7	17,762	6.7
1981	2,660,435	42,974	16.2	6,384	148.6	22,904	8.6	17,697	6.7
1982	2,656,185	41,012	15.4	6,484	158.1	24,186	9.1	16,792	6.3
1983	2,634,993	39,949	15.2	6,467	161.9	23,346	8.9	16,173	6.1
1984	2,660,000	39,536	14.9	6,861	173.5	23,074	8.7	15,631	5.9
1985	2,675,800	39,419	14.7	7,385	187.3	22,408	8.4	15,736	5.9
1986	2,659,500	38,850	14.6	7,999	205.9	22,015	8.3	15,774	5.9
1987	2,690,000	38,674	14.4	8,659	223.9	22,301	8.3	15,602	5.8
1988	2,741,000	39,850	14.5	9,377	235.3	23,407	8.5	15,188	5.5
1989	2,791,000	41,223	14.8	10,437	253.2	23,908	8.6	15,083	5.4
1990	2,847,000	42,830	15.0	11,024	257.4	25,348	8.9	15,734	5.5
1991	2,930,000	42,458	14.5	11,312	266.4	24,934	8.5	15,839	5.4
1992	2,979,000	41,941	14.1	11,310	269.7	24,866	8.3	16,067	5.4
1993	3,038,000	41,566	13.7	11,719	281.9	24,856	8.2	16,345	5.4
1994	3,082,000	41,832	13.6	12,007	287.0	25,194	8.2	15,844	5.1
1995	3,132,000	42,715	13.6	12,350	289.1	25,292	8.1	15,289	4.9
1996	3,181,000	43,645	13.7	12,944	296.6	25,815	8.1	14,944	4.7
1997	3,217,000	43,765	13.6	12,606	288.0	26,074	8.1	14,864	4.6
1998	3,267,550	45,228	13.8	13,451	297.6	25,424	7.8	15,234	4.7
1999	3,300,800	45,193	13.7	13,738	304.0	25,876	7.8	15,647	4.7
2000	3,436,750	45,786	13.3	13,778	301.0	25,926	7.5	16,579	4.8
2001	3,471,700	45,318	13.1	13,733	304.0	25,990	7.5	16,559	4.8
2002	3,504,700	45,190	12.9	13,962	309.5	24,979	7.1	16,146	4.6
2003	3,541,500	45,935	13.0	14,553	317.4	25,565	7.2	15,359	4.3
2004	3,582,600	45,660	12.7	14,824	325.3	25,789	7.2	14,611	4.1
2005	3,631,440	45,905	12.6	15,254	332.8	26,471	7.3	15,033	4.1
2006	3,690,505	48,684	13.2	16,675	343.3	26,715	7.2	14,915	4.0
2007	3,745,455	49,373	13.2	17,311	350.8	26,664	7.1	14,921	4.0
2008	3,791,075	49,117	13.0	17,686	360.7	26,139	6.9	14,809	3.9
2009	3,823,465	47,188	12.3	16,613	352.9	25,239	6.6	14,948	3.9
2010	3,844,195	45,596	11.9	16,173	355.5	25,067	6.5	15,312	4.0
2011	3,857,625	45,136	11.7	15,971	354.5	25,530	6.6	14,823	3.8
2012	3,883,735	45,059	11.6	15,823	351.3	25,641	6.6	14,841	3.8
2013	3,919,020	45,136	11.5	16,046	356.5	24,951	6.4	14,274	3.6

* Complete listings for years 1908-1944 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. Marriages, domestic partnerships, divorces, and dissolutions of domestic partnerships by county of occurrence, Oregon, 2013

County	Estimated population July 1, 2013	Marriages		Domestic partnerships		Divorces		Domestic dissolutions	
		No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Total	3,919,020	24,951	6.4	538	0.1	14,274	3.6	125	—
Baker	16,280	126	7.7	—	—	71	4.4	—	—
Benton	87,725	400	4.6	9	0.1	231	2.6	1	—
Clackamas	386,080	2,803	7.3	32	0.1	1,396	3.6	5	—
Clatsop	37,270	505	13.5	2	0.1	118	3.2	1	—
Columbia	49,850	260	5.2	—	—	161	3.2	—	—
Coos	62,860	385	6.1	6	0.1	223	3.5	1	—
Crook	20,690	138	6.7	2	0.1	88	4.3	—	—
Curry	22,300	144	6.5	3	0.1	83	3.7	1	—
Deschutes	162,525	1,292	7.9	21	0.1	811	5.0	—	—
Douglas	108,850	665	6.1	6	0.1	484	4.4	1	—
Gilliam	1,945	7	3.6	—	—	5	2.6	—	—
Grant	7,435	33	4.4	—	—	21	2.8	—	—
Harney	7,260	50	6.9	—	—	13	1.8	—	—
Hood River	23,295	373	16.0	2	0.1	88	3.8	—	—
Jackson	206,310	1,272	6.2	29	0.1	827	4.0	4	—
Jefferson	22,040	132	6.0	1	—	66	3.0	—	—
Josephine	82,815	505	6.1	9	0.1	360	4.3	—	—
Klamath	66,810	362	5.4	3	—	260	3.9	2	—
Lake	7,940	37	4.7	—	—	23	2.9	—	—
Lane	356,125	1,906	5.4	41	0.1	1,371	3.8	19	0.1
Lincoln	46,560	713	15.3	6	0.1	167	3.6	1	—
Linn	118,665	716	6.0	13	0.1	494	4.2	8	0.1
Malheur	31,440	249	7.9	5	0.2	87	2.8	—	—
Marion	322,880	2,133	6.6	21	0.1	1,258	3.9	11	—
Morrow	11,425	60	5.3	—	—	28	2.5	—	—
Multnomah	756,530	5,144	6.8	247	0.3	2,649	3.5	42	0.1
Polk	77,065	440	5.7	9	0.1	201	2.6	2	—
Sherman	1,780	8	4.5	—	—	7	3.9	—	—
Tillamook	25,375	345	13.6	1	—	55	2.2	—	—
Umatilla	77,895	458	5.9	2	—	276	3.5	1	—
Union	26,325	139	5.3	2	0.1	66	2.5	—	—
Wallowa	7,045	75	10.6	—	—	21	3.0	—	—
Wasco	25,810	169	6.5	—	—	91	3.5	1	—
Washington ...	550,990	2,259	4.1	61	0.1	1,912	3.5	24	—
Wheeler	1,430	12	8.4	—	—	5	3.5	—	—
Yamhill	101,400	636	6.3	5	—	257	2.5	—	—

¹ Rate per 1,000 population for marriages, divorces, domestic partnerships and dissolutions.

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

— Quantity is zero.

TABLE 1-4. Population and births by city of residence, Oregon, 2013

City of residence	Estimated population July 1, 2013	Births	
		Number	Rate
Albany (Linn, Benton)	50,720	650	12.8
Ashland (Jackson)	20,295	118	5.8
Baker City (Baker)	9,890	132	13.3
Beaverton (Washington)	91,935	2,029	22.1
Bend (Deschutes)	78,280	1,011	12.9
Canby (Clackamas)	15,910	263	16.5
Central Point (Jackson)	17,315	298	17.2
Coos Bay (Coos)	16,160	222	13.7
Cornelius (Washington)	11,915	223	18.7
Corvallis (Benton)	55,345	426	7.7
Dallas (Polk)	14,800	168	11.4
Damascus (Clackamas)	10,595	101	9.5
Eugene (Lane)	159,580	1,586	9.9
Forest Grove (Washington)	22,340	290	13.0
Gladstone (Clackamas)	11,495	106	9.2
Grants Pass (Josephine)	34,855	495	14.2
Gresham (Multnomah)	106,180	1,054	9.9
Happy Valley (Clackamas)	15,575	302	19.4
Hermiston (Umatilla)	17,240	377	21.9
Hillsboro (Washington)	93,340	1,297	13.9
Keizer (Marion)	36,795	485	13.2
Klamath Falls (Klamath)	21,495	391	18.2
La Grande (Union)	13,125	201	15.3
Lake Oswego (Clackamas, Multnomah, Washington)	36,990	263	7.1
Lebanon (Linn)	15,690	284	18.1
McMinnville (Yamhill)	32,510	409	12.6
Medford (Jackson)	75,920	1,093	14.4
Milwaukie (Clackamas)	20,500	607	29.6
Newberg (Yamhill)	22,580	281	12.4
Newport (Lincoln)	10,160	110	10.8
Ontario (Malheur)	11,465	255	22.2
Oregon City (Clackamas)	33,390	508	15.2
Pendleton (Umatilla)	16,780	246	14.7
Portland (Clackamas, Multnomah, Washington)	592,120	8,483	14.3
Redmond (Deschutes)	26,590	427	16.1
Roseburg (Douglas)	22,275	379	17.0
Salem (Marion, Polk)	157,770	2,479	15.7
Sandy (Clackamas)	9,990	222	22.2
Sherwood (Washington)	18,575	242	13.0
Springfield (Lane)	59,990	903	15.1
St. Helens (Columbia)	12,865	164	12.7
The Dalles (Wasco)	14,440	209	14.5
Tigard (Washington)	49,135	720	14.7
Troutdale (Multnomah)	16,015	221	13.8
Tualatin (Clackamas, Washington)	26,510	317	12.0
West Linn (Clackamas)	25,425	207	8.1
Wilsonville (Clackamas, Washington)	20,550	250	12.2
Woodburn (Marion)	24,330	448	18.4

Selected cities of 9,800 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, 1980-2013

Year	Low birthweight	First trimester care	No care	Inadequate care ¹	Third trimester care	Less than five visits
1980	50.4	780.8	5.5	58.0	35.2	41.4
1981	48.5	775.6	8.9	63.1	38.6	43.0
1982	49.2	769.3	11.2	70.3	41.0	48.0
1983	50.0	775.3	11.3	66.5	38.5	44.9
1984	51.5	771.5	11.0	68.2	41.1	46.2
1985	51.3	752.0	12.1	72.9	43.7	47.5
1986	51.3	738.7	11.7	83.3	52.1	54.6
1987	54.0	736.8	16.5	86.2	50.3	58.5
1988	52.6	738.8	13.8	83.6	49.9	54.7
1989	52.2	750.7	12.0	73.2	42.9	48.7
1990	50.1	757.1	10.7	70.0	43.4	45.1
1991	49.2	768.2	8.7	61.0	37.4	38.6
1992	51.8	787.0	8.2	52.6	31.4	34.0
1993	52.5	794.6	7.6	51.7	30.4	33.8
1994	53.0	790.9	8.5	57.8	34.3	36.4
1995	54.9	787.7	8.6	58.4	34.7	38.2
1996	53.5	799.3	7.1	53.7	31.7	34.8
1997	55.0	811.2	6.7	50.0	29.6	32.3
1998	53.7	807.2	7.2	53.5	30.7	35.3
1999	53.9	809.9	7.3	53.7	29.6	35.7
2000	56.6	812.8	8.5	55.9	29.8	36.6
2001	55.6	815.2	8.0	50.5	28.7	33.1
2002	57.9	816.4	9.4	52.2	28.6	35.7
2003	61.6	810.7	11.7	55.5	28.6	38.4
2004	60.6	804.3	10.9	57.9	30.3	41.0
2005	61.2	810.0	8.9	58.3	30.1	40.8
2006	61.0	792.3	9.3	61.5	32.6	42.3
2007	61.0	783.9	9.9	64.3	35.4	43.4
2008*	60.7	702.4	10.5	69.6	45.2	39.2
2009	63.0	712.1	8.5	62.0	41.9	31.7
2010	63.0	731.0	6.2	54.6	38.9	26.9
2011	61.4	750.6	7.1	54.2	38.0	25.4
2012	61.7	743.3	6.5	52.3	36.7	25.9
2013	63.0	778.3	6.5	56.7	36.4	29.9

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, 2013**

County	Total	Domestic partnerships	
		Male-Male	Female-Female
Total	538	175	363
Baker	-	-	-
Benton	9	2	7
Clackamas	32	11	21
Clatsop	2	1	1
Columbia	-	-	-
Coos	6	1	5
Crook	2	-	2
Curry	3	1	2
Deschutes	21	7	14
Douglas	6	3	3
Gilliam	-	-	-
Grant	-	-	-
Harney	-	-	-
Hood River	2	1	1
Jackson	29	6	23
Jefferson	1	1	-
Josephine	9	2	7
Klamath	3	-	3
Lake	-	-	-
Lane	41	12	29
Lincoln	6	-	6
Linn	13	3	10
Malheur	5	1	4
Marion	21	8	13
Morrow	-	-	-
Multnomah	247	95	152
Polk	9	2	7
Sherman	-	-	-
Tillamook	1	-	1
Umatilla	2	-	2
Union	2	2	-
Wallowa	-	-	-
Wasco	-	-	-
Washington	61	16	45
Wheeler	-	-	-
Yamhill	5	-	5

- Quantity is zero.

SECTION 2: NATALITY

Natality

In 2013, Oregon recorded **45,136 resident births**, 77 more than in 2012. The **crude birth rate** (the number of babies born divided by the total state population) was 11.5 per 1,000 population (see Table 1-2). Oregon's crude birth rate peaked in 1947 at 25.4 per 1,000 population. From 1975 to 2008, Oregon's rate was consistently in the mid- to low-teens, and has been under 13.0 for the last five years. 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 2013, Oregon's rate was 8.0% lower than the national rate (11.5 vs. 12.5; see Figure 2-1).

Oregon's **fertility rate** decreased from 58.8 in 2012 to 58.6 per 1,000 women aged 15–44 in 2013 (see sidebar Table 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. The fertility rate relates only to women of childbearing age, while the crude rate is based on the entire population. Age-specific birth rates decreased for all age groups except women aged 30–34, whose rate increased by 3.2%. The largest percentage decrease was among women aged 15–19 (8.7%), followed by women aged 20–24 (2.2%; 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 and 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
2011	59.3	63.2
2012	58.8	63.0
2013	58.6	62.9

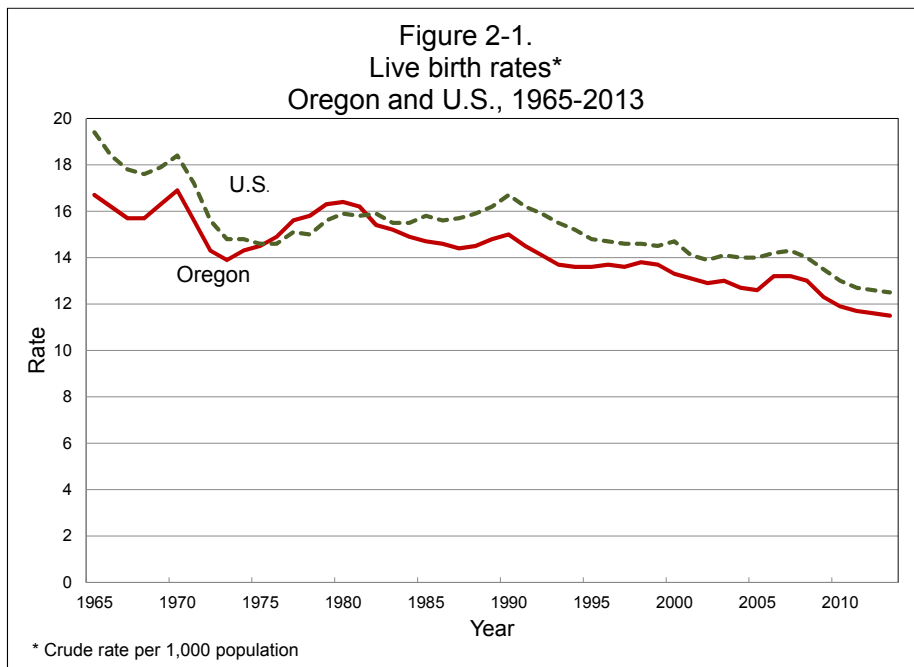
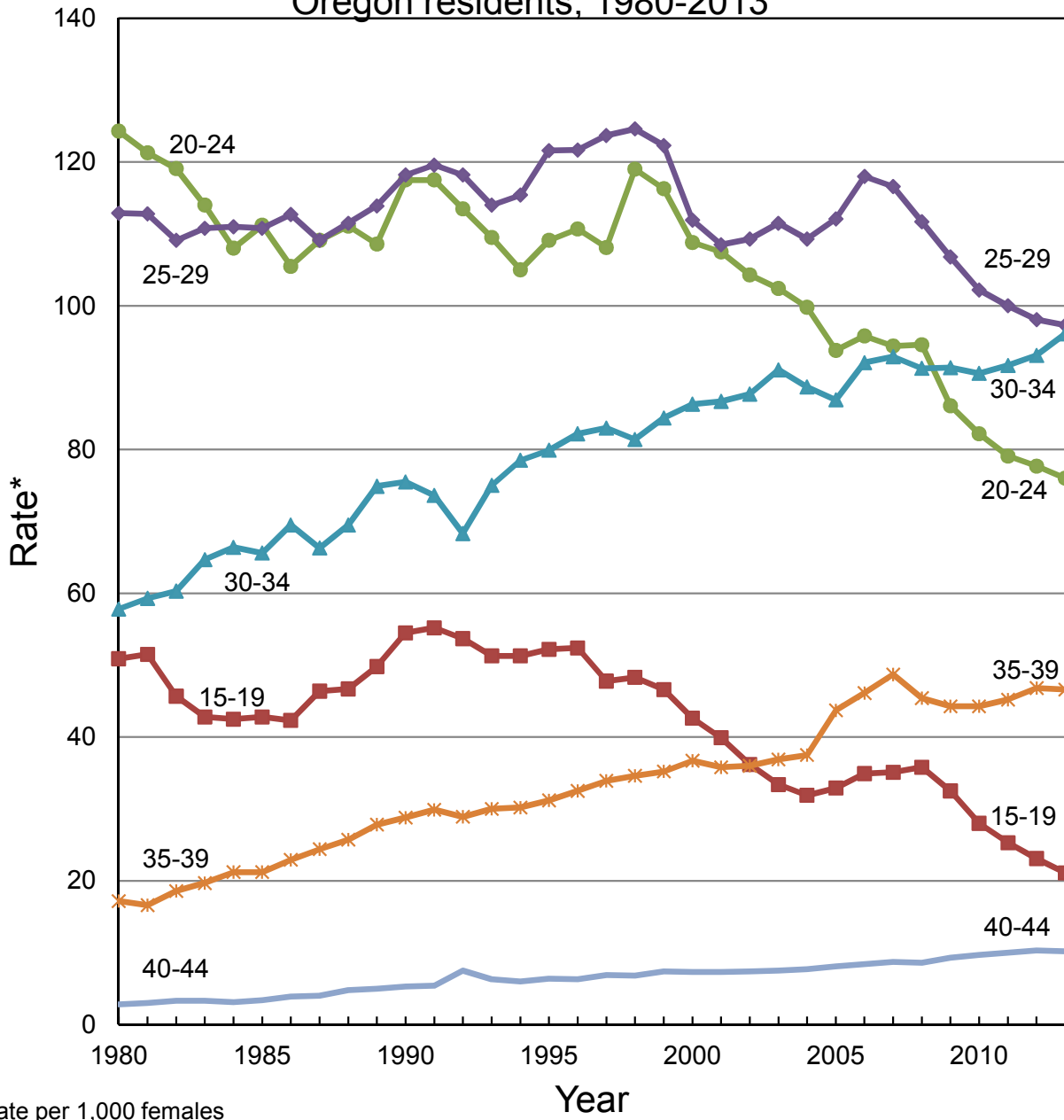


Figure 2-2.
Age-specific birth rates,
Oregon residents, 1980-2013



The youngest female to give birth in 2013 was 12 years old and the oldest was 53. Mother's median age for all births was 29 and the mean age was 28.6. The median age at first birth was 26 and the mean age was 26.7. The **rate of first birth** decreased slightly from the previous year to 23.6 first births per 1,000 women aged 15–44, slightly lower than the 2013 national rate of 24.8. The proportion of first births among total births has been stable for the past decade. In 2000, 40.1% of births were first births; in 2012, 40.3% were first births.

Father's mean age for births was 31.2 years and the median age was 31. The **birth rate per 1,000 men** aged 15–54 was 43.1 in 2013 for Oregon resident births. Information on the father was missing from 8.9% of birth certificates. Unknown father age was distributed in the same manner as national data (see Appendix B: “Technical notes — definitions”). The national birth rate for men in 2012 was 46.1 per 1,000 men.

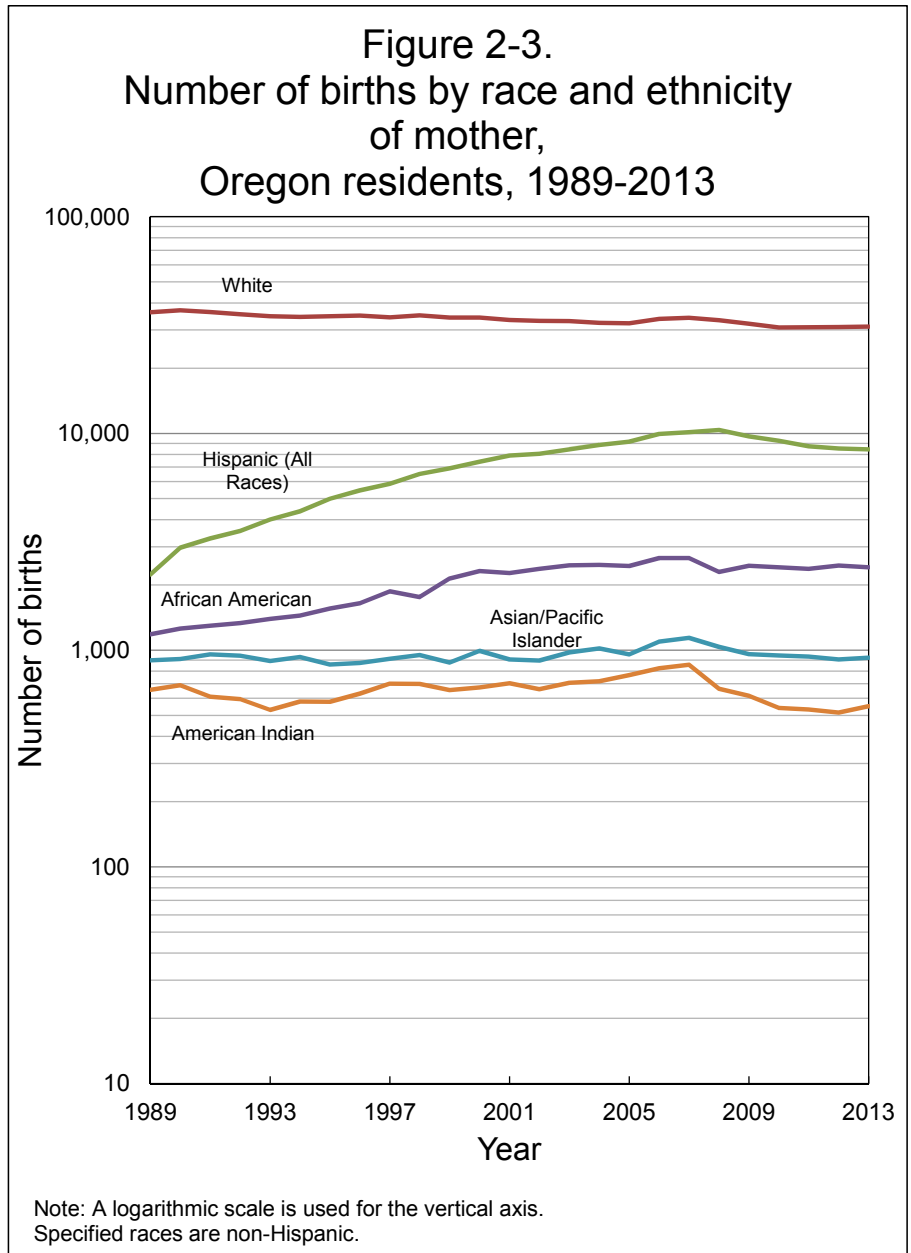
Demographics

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 that gave birth as a proportion of total births.

Since 1989, the number of births to women of Hispanic ethnicity has almost quadrupled to 18.7% of total births (see 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 Appendix B: “Technical notes — methodology”). 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 (4.9% and 5.6%, respectively; see Table 2-18).

Marital status of mother

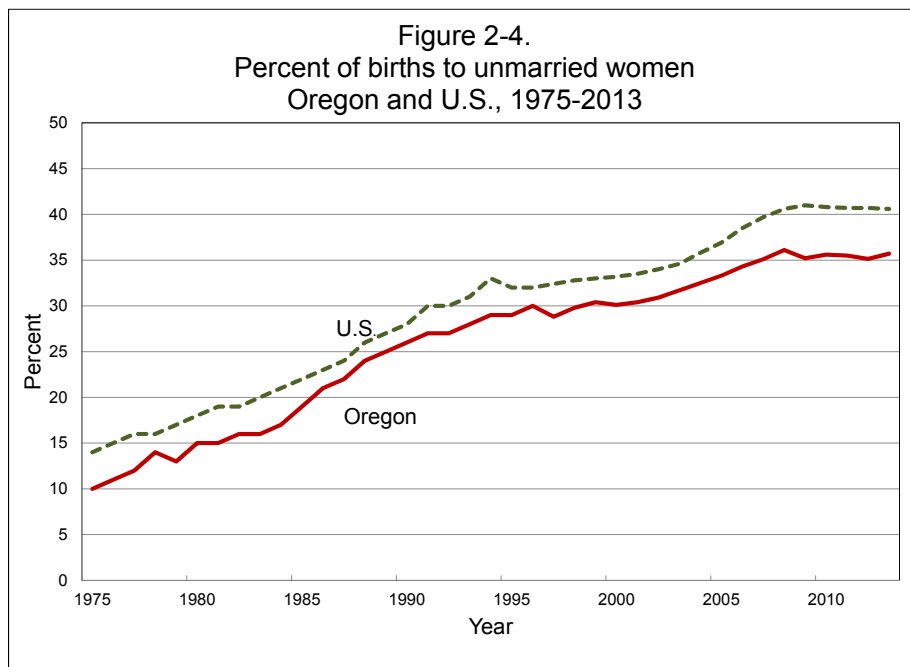
Unmarried women as a group have historically poorer birth outcomes than married women. They generally have a greater proportion of babies with lower birthweight and lower Apgar scores than do their married counterparts. Infants born to unmarried mothers are more likely to require neonatal intensive care, have congenital anomalies or die before the age of 1. In Oregon, the ratio of births to unmarried mothers in 2013 was 3.5 times higher than

in 1975, and 5.6 times higher than in 1965 (see Table 1-2, 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 2013, 35.7% 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 United States. Oregon’s rate in 2013 was 12.1% lower than the national rate (see Figure 2-4).

Among women giving birth in 2013, the percentage of women that were unmarried varied widely by ethnic and racial group (see sidebar Table 2-B). Non-Hispanic American Indian women had the highest percentage of non-marital births (65.6%), followed by non-Hispanic African American women (58.5%) and Hispanic women (49.2%). 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, primarily because persons younger than age 17 cannot legally marry in Oregon. More than four-fifths of teens aged 15–19 that gave birth in 2013 were unmarried (86.6%), compared to 60.6% for women aged 20–24 and 31.1% for women aged 25–29. The percentage of unmarried women was lowest for mothers aged 35–39 (19.3%) and 30–34 (19.7%), while



Race/ethnicity	Unmarried (%)
Total	35.6
Non-Hispanic	
African American	58.5
American Indian	65.6
Asian	13.4
Hawaiian/Pacific Islander	49.1
Multiple races	49.0
White	31.5
Hispanic	49.2

24.4% of mothers aged 40-44 were unmarried (see Table 2-3). Fourteen 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, Douglas had the highest percentage (50.1%) followed by Coos (50.0%) and Josephine (49.2%). (See Appendix B: "Technical notes — formulas" for information on statistical significance.) Six Oregon counties had percentages of non-marital births significantly lower than the state average. Wallowa County had the lowest percentage of non-marital births (20.6%). 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 with a doctorate or professional degree had the highest percentage of first trimester care (see Table 2-C, Table 2-19).

More than four-fifths of women that gave birth in 2013 had at least a high school diploma or GED (84.7%) and 29.4% had a bachelor's degree or higher. The race/ethnic groups with the highest percentages of high school completion

Education	No first trimester care (%)
8th grade or less	34.2
9th to 12th grade, no diploma	34.3
High school graduate or GED	28.1
Some college, no degree	22.3
Associates degree	16.1
Bachelors degree	13.6
Masters degree	11.4
Doctorate or professional degree	9.8

are Non-Hispanic Asian (92.4%) and non-Hispanic White (91.6%) mothers. Hispanic mothers had the lowest percentage of completion of at least 12 years of education (59.0%; see Table 2-13).

Maternal lifestyle and health characteristics

Tobacco

Oregon benchmark for 2015

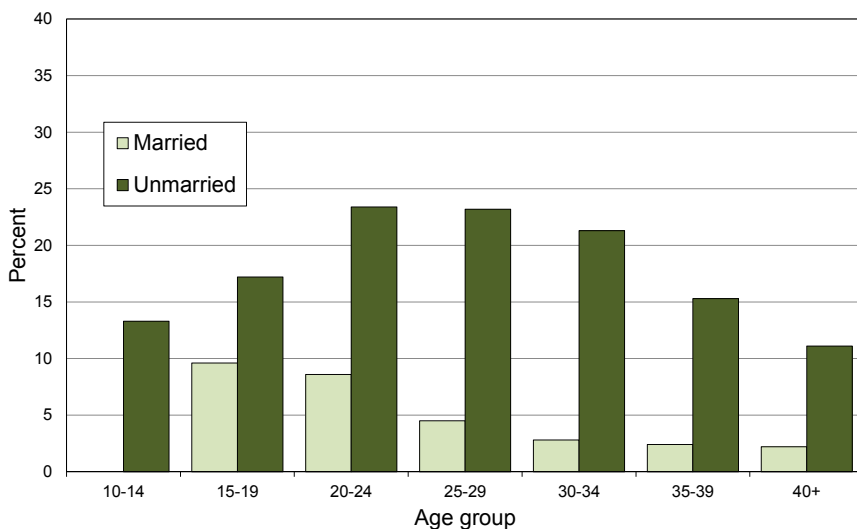
Percentage of infants whose mothers did not use tobacco during pregnancy (self-reported)

<i>Year 2015 target:</i>	<i>98.0 %</i>
<i>2013:</i>	<i>89.8 %</i>

Table 2-D. Percent tobacco use, Oregon residents	
Year	Percentage
1990	22.4
1995	17.9
2000	13.5
2001	12.8
2002	12.6
2003	12.0
2004	12.6
2005	12.4
2006	12.3
2007	11.7
2008	11.8
2009	11.3
2010	11.3
2011	10.7
2012	10.6
2013	10.2

Women that 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 that smoked had a low birthweight rate of 99.9 per 1,000 live births, compared to 58.6 per 1,000 among women that did not smoke. Nearly one of nine mothers (10.2%) reported using tobacco during pregnancy, which is the lowest rate seen in more than 20 years (see sidebar Table 2-D). The percentage of mothers that reported smoking during pregnancy generally decreased with age among married women. For unmarried

Figure 2-5.
Percentage of mothers who smoked during pregnancy by age and marital status, Oregon residents, 2013



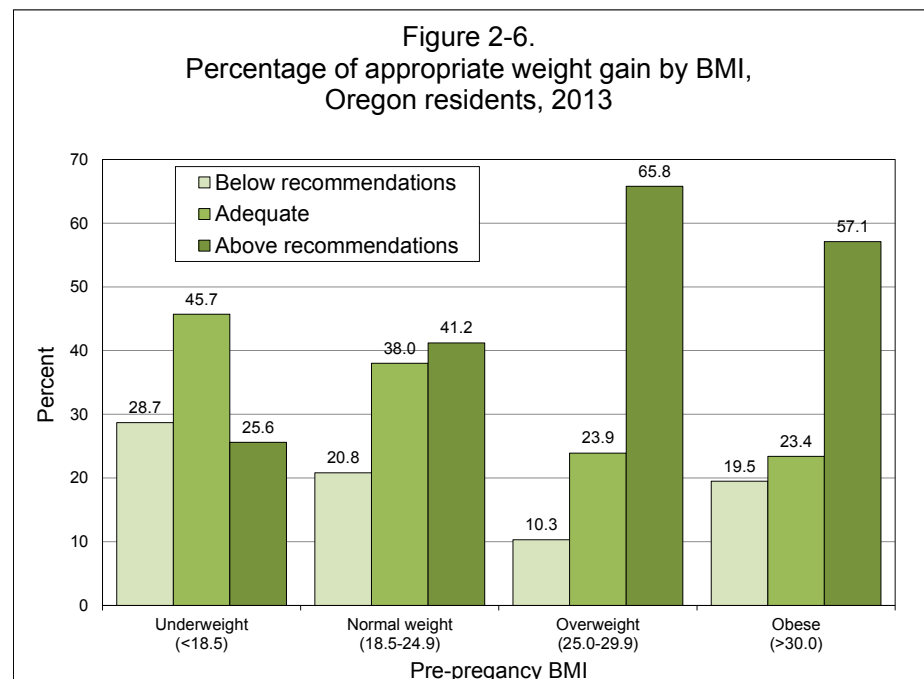
**Women who smoked
had a low birthweight
rate of 99.9 per 1,000**

women, smoking rates rose and fell with age, peaking in the early 20s. The percentage of tobacco use among unmarried women was nearly five times that of married women (21.3% vs. 4.1%). The highest percentage of tobacco use during pregnancy in 2013 was among unmarried mothers aged 20–24 (23.4%) and unmarried mothers aged 25–29 (23.2%). Married mothers aged 40 or older had the lowest percentage of smokers (2.2%), followed by married mothers aged 35–39 (2.4%). For the youngest mothers, aged 10–14, 13.3% reported smoking during pregnancy (see Figure 2.5).

Smoking prevalence as reported on birth certificates also varied among racial and ethnic groups. In 2013, non-Hispanic American Indian women (22.2%) and non-Hispanic women reporting multiple races (17.7%) had the highest reported proportions for smoking during pregnancy, while non-Hispanic Asian women (1.5%) and Hispanic women (3.3%) 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.



In 2008, Oregon began collecting data on birth certificates about mothers' pre-pregnancy weight, weight at delivery and height. The availability of this new data allows for the calculation of body mass index (BMI) and provides a better picture of pre-pregnancy BMI and gestational weight gain. In 2009, the Institute of Medicine (IOM) revised its guidelines for weight gain during pregnancy; the guidelines express ideal weight gain in pregnancy as a range for each category of pre-pregnancy BMI (see sidebar Table 2-E). Many Oregon mothers exceeded these recommendations. In 2013, 50.6% of women gained more weight than the IOM guidelines. Additionally, 48.5% of Oregon women entered pregnancy overweight or obese and also had the highest percentage of weight gain above the guidelines (65.8% and 57.1%, respectively; see Figure 2-6). Women starting pregnancy underweight had the highest percentage of weight gain below the IOM recommendations (28.7%) and had the highest percentage of low birthweight infants (10.3%).

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

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 2013, the most frequently reported medical risk factors were previous cesarean delivery (13.7%), gestational diabetes (7.6%) and pregnancy-associated hypertension (6.2%). (See Table 2-23, Table 2-26.)

Medical services utilization

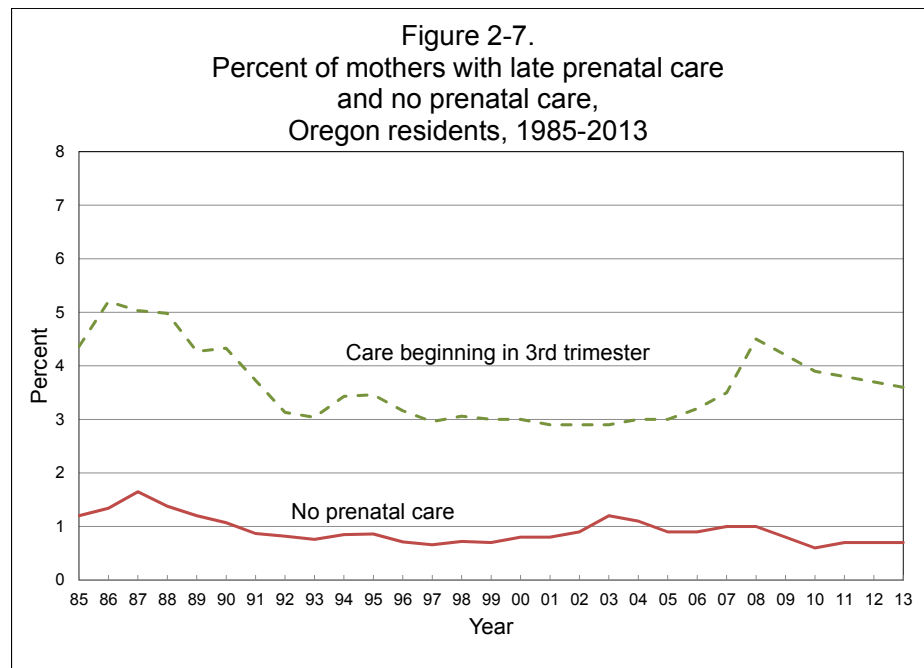
Prenatal care

Oregon benchmark for 2015

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

<i>2015 target:</i>	<i>90.0 %</i>
<i>2013:</i>	<i>77.8 %</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:



- “Inadequate prenatal care,” defined as no care until the third trimester or fewer than five total prenatal visits; or
- “First trimester care,” defined as care beginning in the first 12 weeks of pregnancy, regardless of the number of total prenatal visits.

First trimester care has been adopted as an Oregon benchmark with a goal to ensure that at least 90% of women begin prenatal care within the first 12 weeks of their pregnancies by 2015.

Overall, 77.8% of women that gave birth during 2013 received early prenatal care, which is 8.2% higher than the 2008 national number of 71.0% (see Table 2-17, Table 1-5). Moreover, this is 4.7% higher than the 2012 rate of 74.3%.

In 2013, 5.7% of women giving birth received inadequate prenatal care and 22.2% received no first trimester care. The percentage of low birthweight infants was much higher for women that received inadequate prenatal care (11.7%) compared to 5.7% of children born to mothers that received adequate prenatal care. The percentage of mothers that received no prenatal care was the same as previous years (0.7%). Mothers that initiated care in the third trimester decreased in 2013 from 3.7% in 2012 to 3.6% (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).

None of Oregon's 36 counties had first trimester care rates significantly higher than the statewide rate. Two counties had rates significantly lower than the state: Jefferson (66.3%) and Malheur (59.5%). (See Table 2-20.).

The Adequacy of Prenatal Care Utilization Index

is an alternate 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 sidebar Table 2-F). As with other measures of prenatal care, more women under the age of 20 received inadequate prenatal care, while more women aged 40 and older received intensive prenatal care. Women with medical risk factors such as diabetes and hypertension also were more likely to receive intensive prenatal care.

**Table 2-F. Adequacy of Prenatal Care Utilization Index
Oregon 2008-2013**

Year	Intensive	Adequate	Intermediate	Inadequate
2008	30.0	39.5	14.4	15.0
2009	32.4	40.1	12.5	14.1
2010	35.5	40.1	10.9	12.9
2011	34.8	41.3	11.8	12.2
2012	33.6	40.9	13.6	12.0
2013	32.5	41.7	13.5	12.3

Birth attendant and place of delivery

Hospital births. Hospitals are the most frequent place of birth with 96.3% of Oregon occurrence births. Most in-hospital births (99.4%) were planned to occur in the hospital; 265 births were planned out-of-hospital at the onset of labor and subsequently delivered in the hospital. Medical doctors or osteopathic doctors delivered the majority (81.6%) of planned hospital births; certified nurse midwives delivered 18.1%, and other licensed medical professionals delivered 0.4% (see Table 2-38).

Out-of-hospital births. In 2013, 3.7% of Oregon births occurred out-of-hospital. As in past years, the majority of out-of-hospital births occurred in the mother's home (60.1%). Of those home births, 95.3% were planned homebirths, while the remaining 4.7% were not intended to occur at home. Freestanding birthing centers accounted for more than one-third, or 637, of out-of-hospital births.

In 2011, the Oregon Legislature passed House Bill 2380,

**Table 2-G. Out-of-hospital births
Oregon occurrence**

Year	Deliveries	Rate ¹
1985	1,772	43.5
1986	1,520	37.9
1987	1,361	34.0
1988	1,217	29.4
1989	1,117	26.2
1990	1,077	24.2
1991	979	22.2
1992	996	22.8
1993	936	21.6
1994	979	22.5
1995	967	21.7
1996	979	21.4
1997	970	21.5
1998	914	19.8
1999	948	20.6
2000	1,047	22.4
2001	1,007	21.7
2002	947	20.6
2003	1,000	21.3
2004	1,003	21.6
2005	1,058	22.6
2006	1,134	23.1
2007	1,267	25.4
2008	1,431	29.0
2009	1,404	29.4
2010	1,574	34.3
2011	1,680	36.9
2012	1,739	38.2
2013	1,702	37.3

¹ Rate per 1,000 births

which required the Oregon Public Health Division to add two questions to the Oregon Birth Certificate to determine planned place of birth and birth attendant. Every mother that delivered in the hospital was asked if she planned to deliver at a private home or a freestanding birthing center and the planned primary attendant type at the time she went into labor. Overall, 1,876 births were planned out-of-hospital (4.1%). Of these, 265 (14.1%) planned out-of-hospital births ultimately delivered in-hospital. Neonatal transfers were slightly more likely among women that planned an out-of-hospital birth (2.0% versus 1.1%; see Table 2-38). Women that planned out-of-hospital births tended to be 30 or older (58.0%), White non-Hispanic (87.1%), married (82.9%), and college educated (49.3%). (See Table 2-39.)

Women that planned out-of-hospital births generally experienced fewer medical interventions than those women that planned hospital births. Medical intervention rates among planned out-of-hospital births included induction and augmentation of labor (9.0%), epidural or spinal anesthesia (8.5%), operative vaginal birth (0.5%) and cesarean section (5.5%). A woman planning on delivering in hospital was nearly three times more likely to have a primary cesarean section than a woman planning on delivering out of hospital (17.3% vs. 5.0%). In 2013, 40.7% of women planning out-of-hospital births did not have a Group B streptococcal test compared to 4.6% for women planning a hospital birth (see Table 2-40).

Outcomes generally have been positive for out-of-hospital births. Women that planned out-of-hospital births were more likely to deliver term infants (obstetric estimate of gestation of 37 completed weeks or more) and less likely to deliver low birthweight infants.

Birth attendant. There are three different types of midwives in Oregon: certified nurse midwives (CNM), licensed direct entry midwives (LDM), and direct entry midwives (DEM). CNMs have completed an accredited, university-affiliated nurse-midwifery program, and have an active nurse practitioner license. They may attend deliveries in hospitals, freestanding birth centers and homes. LDMs are direct entry midwives that have volunteered for state licensure through the Oregon Health Licensing Agency.

They must meet qualifications and adhere to Oregon regulations. Other midwives are lay midwives that are not licensed in Oregon, but are registered with the Center for Health Statistics to certify births.

A major shift during the past few decades has been the increasing prevalence of births attended by certified nurse midwives (CNMs). In 2013, 18.0% of planned hospital deliveries were CNM-attended. Women that planned out-of-hospital births reported the following planned attendants: CNMs (24.4%), LDMs (50.9%), naturopathic physicians (12.7%) and other midwives (8.8%). Non-medical attendants delivered 105 babies in total, including 5.6% of out-of-hospital births (see Table 2-38).

Method of delivery

In 2013, the rate of cesarean delivery was 28.0%, well below the 2013 national rate of 32.7%. The rate for vaginal delivery after a previous cesarean was only 2.4%, while the repeat cesarean rate was 11.3%. The majority of births (69.7%) continue to be vaginal deliveries without prior cesarean (see Table 2-37). The number of vaginal deliveries (without prior cesarean) has decreased slightly from 2012 (0.3%). After several years of increasing cesarean rates, the 2013 cesarean rate decreased 1.1% from 2012 (28.3%).

Infant health characteristics

Period of gestation

Preterm births (infants born prior to completion of 37 weeks gestation) comprised 7.6% of total births in 2013, much lower than the national rate in 2012 (11.4%; see Table 2-25). Similar to national trends, proportions of preterm births are higher for non-Hispanic African Americans (10.8%) and non-Hispanic American Indian women (11.1%). Non-Hispanic White and Asian women had the lowest proportions of preterm births (7.3% and 7.7%, respectively; see Table 2-25).

Year	Deliveries		
	Total	In-hospital	Out-of-hospital
1985	2,022	1,661	390
1986	1,984	1,607	400
1987	1,843	1,483	385
1988	2,345	2,133	259
1989	2,886	2,706	244
1990	3,660	3,539	226
1991	4,262	4,096	166
1992	4,498	4,319	179
1993	4,784	4,618	173
1994	4,931	4,772	159
1995	5,601	5,441	160
1996	6,019	5,871	148
1997	5,853	5,734	119
1998	6,152	6,004	148
1999	6,357	6,193	164
2000	6,740	6,591	149
2001	6,848	6,721	127
2002	6,837	6,747	90
2003	6,838	6,721	117
2004	6,586	6,472	114
2005	6,487	6,386	101
2006	7,102	6,996	106
2007	7,631	7,507	124
2008	8,004	7,820	184
2009	7,711	7,579	132
2010	7,476	7,257	219
2011	7,496	7,245	251
2012	7,454	7,156	298
2013	8,279	7,929	350

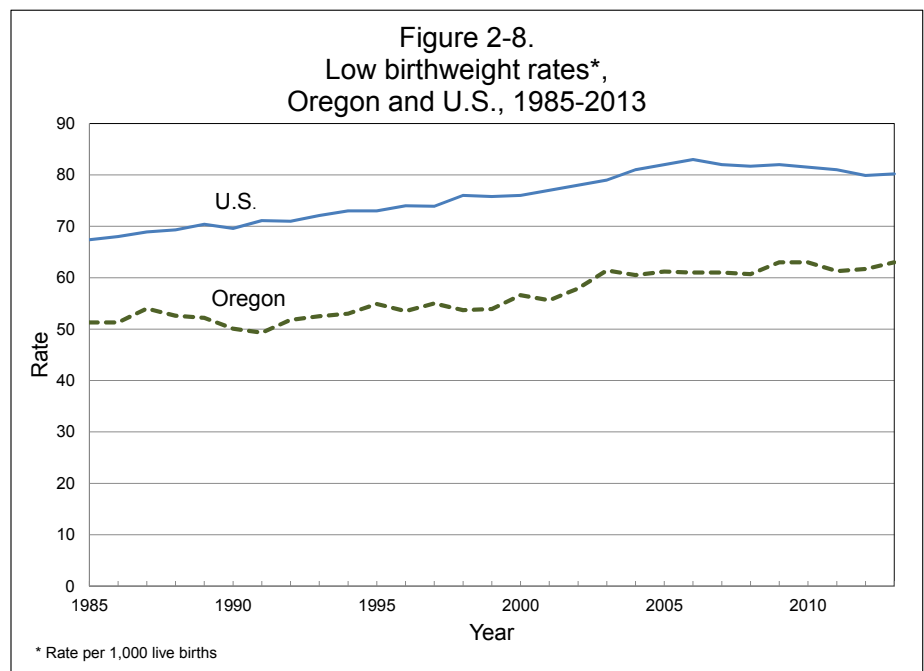
Low birthweight

National Healthy People 2020 objective

Percentage of live births resulting in low birthweight infants

<i>Year 2020 target:</i>	<i>7.8 %</i>
<i>2013:</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 “Oregon Vital Statistics Annual Report 2013, Volume 2: Mortality, Fetal and Infant Mortality.”) The low birthweight rate is the proportion of infants that weigh less than 2,500 grams (5 pounds, 8 ounces) at birth. In 2013, there were 2,845 low birthweight babies born to Oregon mothers (see Table 2-27). One of the National Healthy People 2020 objectives is to reduce the percentage of low birthweight infants nationwide to 7.8%. In 2013, the percentage of low birthweight births in Oregon remained well below this objective at 6.3%, or 63.0 per 1,000 live births. This rate is 1.6% higher than the 2012 rate. While annual changes have been slight in the last 20 years, there has been a minor upward trend in low birthweight infants (see Table 1-5, Figure 2-8). Nevertheless, Oregon’s low birthweight rates are typically



25% lower than national rates and in 2013, Oregon’s rate was 21.4% lower than the 2013 national rate (63.0 vs. 80.2 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 aged 45+ have a higher than average percentage of first trimester care (84.6%) compared to the state average of 77.8% (see Table 2-17). Nevertheless, women aged 45 and older also have the second highest percentage of low birthweight babies, 9.6% compared to 6.3% 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 2013, the prevalence of fetal macrosomia at 4,000 grams was 10.6% (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 13.2% greater than the state average for women 35 and older (12.0%), and 84.6% higher than among women under 20 years of age (6.5%; see Table 2-27).

In 2013, the prevalence of macrosomia was highest among non-Hispanic American Indian women (see 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

Among Oregon resident births in 2013, the biggest baby born was 14 pounds.

Table 2-1. Percentage of infants born weighing more than 4,000 grams, Oregon residents		
Year	Percent	Largest infant born (in grams)
1990	14.2	6040
1991	13.9	6265
1992	13.8	5990
1993	13.8	6010
1994	13.8	5810
1995	13.5	6265
1996	13.1	6156
1997	12.8	6060
1998	13.0	6139
1999	12.8	6293
2000	12.8	6151
2001	12.4	5981
2002	11.8	5896
2003	11.5	6180
2004	10.9	5925
2005	10.9	6497
2006	10.7	5982
2007	10.5	7000
2008	10.7	7711
2009	10.7	6804
2010	10.4	6454
2011	10.9	6401
2012	10.6	6350
2013	10.6	5845

tone, reflex irritability and color. Each characteristic is rated 0–2 and the scores totaled. Total scores below 7, five minutes after birth, indicate poor to intermediate health at birth. In Oregon during 2013, 2.9% of infants had Apgar scores below 7, nearly 1.5 times the 2012 national figure of 1.9% (see tables 2-24 and 2-25).

Abnormal conditions and congenital anomalies

The most frequently reported conditions on birth certificates were admission to the neonatal intensive care unit, assisted ventilation immediately after delivery, and antibiotics for suspected neonatal sepsis (see tables 2-33 and 2-34). Congenital anomalies reported on birth certificates are shown in Table 2-35. 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 how recognizable and severe they are. Even at the national level, data users are advised to use caution in comparing annual occurrences for relatively small numbers.

Multiple births

Although 3.3% of births in Oregon during 2013 were multiple births, the proportion varied widely by age, race and ethnicity. During 2013, mothers aged 45 and older had the highest percentage of multiple births. The percentage of multiple births for each age group ranged from 1.1% for mothers aged 15–19 to 13.8% of births to mothers aged 45 and older. The percentage of multiple births generally increased with each five-year age group (see Table 2-24). Non-Hispanic African American women had the highest percentages of multiple births at 4.0% (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 2013, mothers aged 45 and older had the highest rate of infertility treatment (404.3 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: public insurance (Medicaid/Oregon Health Plan), private insurance, self-pay (no insurance), Indian Health Services, and other and unknown

payment source. Private insurance companies paid for the majority of deliveries in Oregon (52.7%), up from 51.5% in 2012 (see sidebar Table 2-J). Medicaid programs (e.g., the Oregon Health Plan) paid for more than two-fifths of Oregon resident births (43.5%). Delivery costs were more likely to be paid for by public insurance if the woman was under age 18 (see Table 2-14).

Endnotes

1. Centers for Disease Control and Prevention (CDC). Births: preliminary data for 2013. National Vital Statistics Reports. May 29, 2014; V63, No. 2.
2. CDC. Births: final data for 2012. National Vital Statistics Reports. Dec. 30, 2013; V62, No. 9.

Year	Private insurance	Self-pay	Medicaid/OHP
	%	%	%
1990	60.4	8.7	28.7
1991	58.2	6.5	33.2
1992	57.2	5.8	35.2
1993	56.2	5.9	36.2
1994	57.5	5.6	34.9
1995	57.9	4.9	35.5
1996	58.3	5.7	35.0
1997	60.8	6.3	31.9
1998	62.2	6.3	30.7
1999	61.1	5.9	32.4
2000	61.6	5.4	32.8
2001	61.2	4.3	34.3
2002	58.7	3.5	37.8
2003	58.9	3.5	37.6
2004	56.5	3.2	40.3
2005	55.6	3.0	41.4
2006	55.1	3.2	41.3
2007	56.1	3.5	40.4
2008	53.6	3.2	40.9
2009	52.3	2.5	42.3
2010	50.9	2.4	45.1
2011	50.8	2.2	45.5
2012	51.5	2.2	44.8
2013	52.7	2.3	43.5

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, 1995-2013

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	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	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	1	
1970	35,353	41	0.1	6,027	17.0	14,587	41.3	9,778	27.7	3,373	9.5	1,195	3.4	324	0.9	27	0.1	1	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0	
2011	45,136	20	0.0	3,135	6.9	9,874	21.9	13,232	29.3	11,874	26.3	5,683	12.6	1,242	2.8	75	0.2	1	1	
2012	45,059	33	0.1	2,849	6.3	9,693	21.5	12,999	28.8	12,158	27.0	5,956	13.2	1,287	2.9	83	0.2	1	1	
2013	45,136	15	0.0	2,595	5.7	9,507	21.1	12,978	28.8	12,646	28.0	6,015	13.3	1,282	2.8	94	0.2	4	4	

* 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, 1975-2013

Year	Age-specific birth rates*						Fertility 15-44	Total fertility rate
	15-19	20-24	25-29	30-34	35-39	40-44		
1940	46.2	132.8	114.1	68.0	31.7	9.0	69.4	2,009.0
1950	92.9	223.0	169.5	100.9	46.7	12.6	108.8	3,228.3
1960	88.2	283.8	189.3	96.3	46.3	13.7	112.5	3,587.8
1970	58.9	167.5	139.4	58.3	21.7	5.4	81.5	2,255.6
1975	47.2	112.4	111.6	47.0	14.4	2.8	64.5	1,677.0
1976	48.6	114.0	118.5	52.5	15.2	3.1	67.4	1,759.3
1977	47.4	116.3	114.9	55.0	15.8	2.9	67.7	1,760.8
1978	49.3	115.1	111.3	56.8	16.1	2.8	67.3	1,757.5
1979	48.8	117.1	114.7	61.0	16.9	3.0	69.0	1,808.0
1980	50.9	124.3	112.9	57.8	17.2	2.8	69.3	1,829.5
1981	51.5	121.3	112.8	59.3	16.6	3.0	68.1	1,822.5
1982	45.7	119.1	109.1	60.3	18.6	3.3	65.2	1,780.6
1983	42.8	114.0	110.8	64.7	19.7	3.3	64.1	1,776.6
1984	42.5	108.0	111.0	66.4	21.2	3.1	62.8	1,761.6
1985	42.8	111.2	110.8	65.6	21.2	3.4	62.2	1,775.2
1986	42.3	105.5	112.7	69.5	22.9	3.9	61.8	1,784.0
1987	46.4	109.1	109.1	66.3	24.4	4.0	60.9	1,796.5
1988	46.7	111.1	111.5	69.5	25.7	4.8	61.8	1,846.5
1989	49.8	108.6	113.9	74.9	27.8	5.0	63.3	1,900.0
1990	54.5	117.5	118.2	75.5	28.8	5.3	65.1	1,999.0
1991	55.2	117.5	119.6	73.6	29.9	5.4	63.7	2,003.0
1992	53.7	113.5	118.2	68.3	28.9	7.5	62.5	1,950.5
1993	51.3	109.5	114.0	75.0	30.0	6.3	61.1	1,930.5
1994	51.3	105.0	115.4	78.5	30.2	6.0	61.0	1,932.0
1995	52.2	109.1	121.6	79.9	31.2	6.4	62.3	2,001.0
1996	52.4	110.7	121.7	82.2	32.5	6.3	63.2	2,029.0
1997	47.8	108.1	123.8	83.0	33.9	6.9	63.0	2,017.2
1998	48.3	119.0	124.6	81.4	34.6	6.8	64.2	2,074.3
1999	46.6	116.3	122.3	84.4	35.2	7.4	64.2	2,061.0
2000	42.6	108.8	111.9	86.3	36.7	7.3	62.9	1,968.0
2001	39.9	107.5	108.5	86.7	35.8	7.3	61.6	1,928.5
2002	36.2	104.3	109.3	87.7	36.0	7.4	60.9	1,904.5
2003	33.4	102.4	111.5	91.1	36.9	7.5	61.2	1,913.7
2004	31.9	99.8	109.3	88.7	37.5	7.7	60.0	1,874.5
2005	32.9	93.8	112.1	86.9	43.7	8.1	62.2	1,887.6
2006	34.9	95.8	118.0	92.1	46.1	8.4	65.5	1,976.5
2007	35.1	94.4	116.6	92.9	48.7	8.7	66.0	1,982.0
2008	35.8	94.6	111.7	91.3	45.4	8.6	64.6	1,936.6
2009	32.5	86.1	106.8	91.4	44.3	9.3	62.0	1,851.9
2010	28.0	82.2	102.2	90.6	44.3	9.7	60.0	1,785.2
2011	25.3	79.1	100.1	91.7	45.2	10.0	59.3	1,757.6
2012	23.1	77.7	98.1	93.1	46.8	10.3	58.8	1,745.2
2013	21.1	76.0	97.3	96.1	46.6	10.2	58.6	1,736.3

* 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, 1980-2013

Year	Age group of mother					
	15-19	20-24	25-29	30-34	35-39	40-44
1970	25.7	6.3	2.6	2.7	3.7	4.6
1975	30.3	8.8	4.0	3.8	5.7	6.0
1980	43.4	15.3	7.5	5.6	8.0	4.3
1981	43.4	16.1	7.8	5.7	6.0	8.7
1982	47.3	17.9	8.5	6.6	6.7	9.5
1983	50.0	18.7	9.1	6.8	7.8	7.4
1984	52.7	20.9	10.1	6.8	8.0	13.7
1985	56.6	23.0	11.1	8.0	8.5	10.3
1986	59.5	25.8	13.0	8.3	9.2	9.2
1987	61.3	28.7	14.1	9.7	10.3	10.8
1988	63.0	30.3	15.5	10.3	11.2	11.9
1989	65.6	32.6	16.4	11.6	11.3	13.7
1990	67.2	33.0	16.6	12.2	11.2	11.6
1991	68.7	34.6	17.3	12.2	10.9	15.0
1992	70.1	34.8	17.2	12.2	11.7	13.0
1993	72.6	36.7	18.3	13.0	11.4	14.4
1994	74.0	37.5	18.2	13.0	12.3	14.0
1995	73.9	38.6	17.5	13.4	12.8	12.4
1996	74.1	39.1	18.6	13.3	14.1	14.8
1997	73.7	38.4	18.3	12.9	14.1	14.1
1998	75.6	39.5	19.5	12.9	13.1	15.9
1999	76.2	40.7	20.3	13.3	14.0	15.5
2000	76.2	42.6	20.2	13.0	13.0	13.5
2001	76.3	43.6	20.9	13.0	13.1	16.5
2002	77.3	46.1	21.6	13.6	14.4	15.0
2003	79.9	47.9	24.0	13.9	14.5	16.5
2004	80.3	49.0	24.8	15.3	14.9	16.9
2005	78.6	51.0	26.1	15.9	15.3	17.5
2006	80.5	52.2	27.4	17.0	15.2	19.2
2007	81.0	53.6	28.3	17.1	16.4	19.5
2008	83.4	54.4	29.3	18.0	16.2	20.8
2009	83.8	55.2	28.7	18.0	16.0	17.4
2010	84.2	56.8	29.7	18.8	17.6	19.8
2011	85.9	57.8	29.9	19.4	18.4	22.6
2012	85.5	58.6	30.5	18.9	18.8	21.4
2013	86.6	60.6	31.1	19.7	19.3	24.4

TABLE 2-4. Age of mother by live birth order, Oregon resident births, 2013

Live birth order	Total births	Age of mother								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	45,136	15	2,595	9,507	12,978	12,646	6,015	1,282	94	4
First	18,184	15	2,250	4,934	4,955	4,101	1,567	336	23	3
Second	14,469	-	311	3,269	4,439	4,093	1,964	368	24	1
Third	7,260	-	34	1,022	2,356	2,440	1,182	211	15	-
Fourth	3,082	-	-	229	851	1,178	664	149	11	-
Fifth	1,216	-	-	40	260	509	309	90	8	-
Sixth	495	-	-	7	86	195	166	38	3	-
Seventh	207	-	-	6	24	69	70	35	3	-
Eighth	124	-	-	-	2	42	53	23	4	-
Ninth+	99	-	-	-	5	19	40	32	3	-

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

TABLE 2-5. Most frequently used baby names, Oregon occurrence, 2013

Boys			Girls		
Rank	Name	Count	Rank	Name	Count
1	Liam.....	261	1	Emma.....	252
2	Mason.....	197	2	Olivia.....	232
3	Elijah.....	188	3	Sophia.....	214
4	Benjamin.....	182	4	Abigail.....	153
5	William.....	181	5	Ava.....	152
6	Henry.....	169	6	Emily.....	149
7	Ethan.....	166	7	Amelia.....	146
7	Noah.....	166	8	Isabella.....	145
9	Logan.....	164	9	Evelyn.....	143
10	Alexander.....	162	10	Avery.....	136
10	Wyatt.....	162	11	Charlotte.....	133
12	Jacob.....	160	12	Mia.....	127
13	Jackson.....	153	13	Elizabeth.....	117
14	Samuel.....	152	14	Madison.....	115
15	David.....	148	15	Grace.....	111
16	Daniel.....	144	16	Hannah.....	106
16	Oliver.....	144	17	Harper.....	105
18	James.....	143	18	Natalie.....	104
19	Owen.....	141	19	Ella.....	103
20	Isaac.....	140	20	Chloe.....	102
21	Carter.....	139	21	Addison.....	99
21	Lucas.....	139	22	Sofia.....	97
23	Hunter.....	133	23	Lillian.....	93
24	Aiden.....	132	24	Ruby.....	91
25	Gabriel.....	123	25	Lily.....	90
26	Jayden.....	122	26	Brooklyn.....	84
27	Andrew.....	121	27	Audrey.....	78
28	Landon.....	120	27	Samantha.....	78
29	Jack.....	116	29	Paisley.....	73
30	Eli.....	106	30	Penelope.....	71
Total boys' names: 4,622			Total girls' names: 6,201		

Total 2013 Oregon occurrence births: 45,591

TABLE 2-6. Pregnancies¹ by age and county of residence, Oregon residents, 2013

County of residence	All ages	Age groups							
		10-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	52,879	3,537	11,905	14,996	13,962	6,733	1,545	112	89
Baker	194	17	50	63	39	19	5	1	–
Benton	777	46	165	219	231	94	20	2	–
Clackamas	4,604	254	876	1,386	1,304	631	136	9	8
Clatsop	456	43	118	139	103	45	8	–	–
Columbia	593	48	159	194	123	56	12	–	1
Coos	694	59	205	218	141	64	7	–	–
Crook	211	19	59	53	44	28	7	1	–
Curry	216	13	66	63	45	23	3	3	–
Deschutes	2,028	120	460	556	565	262	61	4	–
Douglas	1,195	119	374	360	230	87	21	3	1
Gilliam	20	*	*	*	*	*	*	*	*
Grant	66	4	18	18	15	10	1	–	–
Harney	95	8	20	32	27	6	–	2	–
Hood River	308	18	58	89	83	43	16	1	–
Jackson	2,688	223	689	793	652	260	65	2	4
Jefferson	330	40	103	99	58	25	5	–	–
Josephine	988	80	302	286	211	86	21	1	1
Klamath	872	97	293	268	148	56	7	2	1
Lake	88	5	23	34	18	5	3	–	–
Lane	4,264	287	1,039	1,294	1,071	448	112	5	8
Lincoln	503	30	137	152	130	43	9	1	1
Linn	1,565	118	411	505	359	130	40	2	–
Malheur	499	55	160	141	96	40	7	–	–
Marion	4,813	417	1,226	1,415	1,163	483	98	8	3
Morrow	139	12	36	36	34	14	7	–	–
Multnomah	12,010	627	2,275	2,894	3,516	2,107	518	35	38
Polk	931	60	243	304	193	106	24	1	–
Sherman	11	*	*	*	*	*	*	*	*
Tillamook	261	20	76	86	49	21	8	–	1
Umatilla	1,277	135	382	380	236	103	39	–	2
Union	344	25	91	103	81	36	8	–	–
Wallowa	71	2	12	28	21	8	–	–	–
Wasco	337	28	98	106	73	22	9	–	1
Washington	8,212	407	1,369	2,293	2,614	1,244	246	27	12
Wheeler	12	*	*	*	*	*	*	*	*
Yamhill	1,180	96	292	368	275	120	22	1	6
Unknown	27	4	9	5	3	5	–	–	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, selected years 1975-1995, 2000-2013

Year	Total	White	African American	American Indian	Chinese	Japanese	Other & unknown	Hispanic
1975	33,352	31,910	614	389	81	80	278	*
1980	43,091	40,787	792	475	140	96	801	*
1985	39,419	35,877	784	519	141	129	745	1,224
1990	42,830	39,808	917	745	230	162	968	2,969
1995	42,715	39,566	872	628	222	110	1,317	4,996
2000	45,786	41,584	1,015	727	273	142	2,045	7,397
2001	45,318	41,135	928	788	205	152	2,110	7,903
2002	45,190	40,895	934	805	237	135	2,184	8,051
2003	45,935	41,221	1,009	860	229	123	2,493	8,433
2004	45,660	40,943	1,044	861	214	119	2,479	8,850
2005	45,905	41,180	995	846	214	120	2,550	9,168
2006	48,684	43,514	1,136	918	239	138	2,739	9,944
2007	49,373	44,082	1,177	953	245	108	2,808	10,129
2008	49,117	40,744	1,080	800	373	159	5,961	10,366
2009	47,188	39,222	1,006	720	368	147	5,725	9,697
2010	45,596	37,528	994	664	381	151	5,878	9,237
2011	45,136	37,585	990	649	381	152	5,379	8,718
2012	45,059	37,238	971	636	435	134	5,645	8,521
2013	45,136	37,384	989	665	398	144	5,556	8,440
Multiple mention race/ethnicity of mother								
Year	Total	White	African American	American Indian	Asian	Native Hawaiian/Pacific Islander	Other & unknown	Hispanic
2008	49,117	41,928	1,359	1,497	2,575	472	2,918	10,366
2009	47,188	40,441	1,294	1,414	2,589	449	2,413	9,697
2010	45,596	38,946	1,324	1,511	2,574	507	2,637	9,237
2011	45,136	39,004	1,339	1,443	2,600	461	2,137	8,718
2012	45,059	38,740	1,383	1,440	2,696	493	2,318	8,521
2013	45,136	38,881	1,387	1,463	2,668	458	2,232	8,440

* 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. For consistency, single mention race includes any ethnicity.

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, 2013

County of residence	Total births	Non-Hispanic single mention race							Hispanic ⁴
		White	Black	AI/AN ¹	Asian	NH/PI ²	Other/NS ³	Multiple races	
Total	45,136	31,107	923	551	2,120	293	280	1,422	8,440
Baker	180	162	—	2	—	—	2	7	7
Benton	650	474	2	2	53	—	2	21	96
Clackamas	3,991	3,172	33	21	152	10	12	85	506
Clatsop	395	315	1	3	6	1	1	17	51
Columbia	500	440	5	5	9	—	1	12	28
Coos	609	481	4	26	10	—	1	30	57
Crook	192	157	—	2	—	—	2	4	27
Curry	195	159	—	5	—	1	3	11	16
Deschutes	1,723	1,383	5	11	22	2	30	43	227
Douglas	1,065	921	3	11	15	5	2	21	87
Gilliam	18	15	—	—	—	—	1	—	2
Grant	60	56	—	—	—	—	1	—	3
Harney	90	76	—	6	—	—	3	—	5
Hood River	282	137	—	—	2	1	—	3	139
Jackson	2,331	1,711	15	41	34	7	32	68	423
Jefferson	301	149	—	65	1	—	10	7	69
Josephine	837	704	2	12	11	2	5	30	71
Klamath	783	546	7	41	6	—	6	37	140
Lake	82	63	—	3	1	—	1	4	10
Lane	3,526	2,718	18	31	88	10	36	190	435
Lincoln	422	293	—	13	6	1	—	20	89
Linn	1,424	1,173	5	7	14	1	8	43	173
Malheur	470	244	—	1	3	1	1	3	217
Marion	4,284	2,415	32	52	85	71	6	66	1,557
Morrow	129	56	1	—	3	—	1	1	67
Multnomah	9,430	6,104	648	60	689	110	65	402	1,352
Polk	850	623	4	19	17	2	1	22	162
Sherman	11	8	—	1	—	—	—	—	2
Tillamook	234	176	—	3	5	1	1	6	42
Umatilla	1,146	676	2	40	12	—	4	26	386
Union	319	273	2	7	2	12	1	8	14
Wallowa	68	62	—	1	—	—	—	1	4
Wasco	299	185	—	12	2	—	1	8	91
Washington ...	7,186	4,246	131	28	855	51	39	194	1,642
Wheeler	12	7	—	—	—	1	—	2	2
Yamhill	1,042	727	3	20	17	3	1	30	241

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

TABLE 2-8. Ethnicity, race and county of residence of mother, Oregon resident births, 2013 (continued)

County of residence	Total births	Multiple mention race and ethnicity							
		White	Black	AI/ AN ²	Asian	NH/ PI ³	Other	NS ⁴	Hispanic ⁴
Total	45,136	38,881	1,387	1,463	2,668	458	1,671	561	8,440
Baker	180	173	1	6	3	2	3	—	7
Benton	650	556	5	16	60	3	33	2	96
Clackamas	3,991	3,684	58	66	193	18	51	32	506
Clatsop	395	363	1	10	14	5	20	4	51
Columbia	500	474	6	14	14	2	4	2	28
Coos	609	557	9	53	13	3	6	2	57
Crook	192	178	1	7	1	—	5	6	27
Curry	195	184	1	14	2	1	4	2	16
Deschutes	1,723	1,573	15	44	38	4	58	54	227
Douglas	1,065	1,002	5	29	25	8	27	3	87
Gilliam	18	18	—	—	—	—	—	—	2
Grant	60	58	—	1	—	—	1	—	3
Harney	90	80	—	6	—	—	3	1	5
Hood River	282	276	—	—	5	1	3	—	139
Jackson	2,331	2,037	31	102	54	18	75	112	423
Jefferson	301	184	2	85	1	1	12	24	69
Josephine	837	779	5	46	19	6	18	10	71
Klamath	783	631	17	78	13	—	101	3	140
Lake	82	77	—	7	1	—	1	—	10
Lane	3,526	3,097	76	156	141	30	143	130	435
Lincoln	422	380	2	34	10	2	17	3	89
Linn	1,424	1,324	13	44	29	6	59	15	173
Malheur	470	453	2	4	5	1	8	—	217
Marion	4,284	3,517	51	102	113	78	539	8	1,557
Morrow	129	91	1	1	3	—	32	4	67
Multnomah	9,430	7,633	849	240	854	156	127	84	1,352
Polk	850	727	7	42	27	5	81	2	162
Sherman	11	10	—	1	—	—	—	—	2
Tillamook	234	223	1	7	7	2	1	1	42
Umatilla	1,146	906	10	60	19	2	166	21	386
Union	319	290	2	11	6	14	3	3	14
Wallowa	68	63	—	2	—	—	2	2	4
Wasco	299	279	2	20	5	1	1	—	91
Washington ...	7,186	6,013	204	111	965	82	56	29	1,642
Wheeler	12	10	—	2	—	1	1	—	2
Yamhill	1,042	981	10	42	28	6	10	2	241

— 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, 2013**

County of residence	Total births	Number unmarried	Percent unmarried ¹
Total	45,136	16,046	35.6
Baker	180	63	35.0
Benton	650	160	§ 24.6
Clackamas	3,991	1,136	§ 28.5
Clatsop	395	166	§ 42.1
Columbia	500	202	40.5
Coos	609	304	§ 50.0
Crook	192	60	31.2
Curry	195	60	50.0
Deschutes	1,723	592	34.4
Douglas	1,065	533	§ 50.1
Gilliam	18	8	44.4
Grant	60	20	33.3
Harney	90	28	31.1
Hood River	282	79	§ 28.0
Jackson	2,331	959	§ 41.2
Jefferson	301	147	§ 49.0
Josephine	837	411	§ 49.2
Klamath	783	380	§ 48.6
Lake	82	23	28.8
Lane	3,526	1,379	§ 39.1
Lincoln	422	206	§ 48.8
Linn	1,424	546	38.4
Malheur	470	218	§ 46.5
Marion	4,284	1,736	§ 40.5
Morrow	129	63	§ 48.8
Multnomah	9,430	3,146	§ 33.4
Polk	850	274	32.2
Sherman	11	4	36.4
Tillamook	234	90	38.6
Umatilla	1,146	559	§ 48.9
Union	319	104	32.6
Wallowa	68	14	§ 20.6
Wasco	299	135	§ 45.2
Washington	7,186	1,874	§ 26.1
Wheeler	12	3	25.0
Yamhill	1,042	364	35.0

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 five 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, 2013

County of residence	Total births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	45,136	15	2,595	9,507	12,978	12,646	6,015	1,282	94	4
Baker	180	–	17	47	62	36	15	2	1	–
Benton	650	–	28	109	192	220	84	15	2	–
Clackamas	3,991	1	177	683	1,244	1,201	568	109	8	–
Clatsop	395	–	30	99	127	93	40	6	–	–
Columbia	500	1	34	130	166	110	50	9	–	–
Coos	609	1	48	178	189	131	57	5	–	–
Crook	192	–	15	52	47	44	27	6	1	–
Curry	195	–	9	56	61	43	20	3	3	–
Deschutes	1,723	–	82	366	480	511	227	55	2	–
Douglas	1,065	–	98	333	323	213	80	15	3	–
Gilliam	18	–	–	6	6	4	1	–	1	–
Grant	60	–	3	16	17	15	8	1	–	–
Harney	90	–	8	19	30	26	6	–	1	–
Hood River	282	–	15	52	81	79	41	13	1	–
Jackson	2,331	2	171	587	709	583	222	55	2	–
Jefferson	301	–	31	96	92	54	24	4	–	–
Josephine	837	–	62	254	245	187	71	17	1	–
Klamath	783	–	83	263	243	134	54	4	2	–
Lake	82	–	5	23	31	16	4	3	–	–
Lane	3,526	2	205	785	1,097	953	392	89	3	–
Lincoln	422	–	19	120	129	113	32	8	1	–
Linn	1,424	–	94	364	478	334	119	33	2	–
Malheur	470	–	48	146	136	94	40	6	–	–
Marion	4,284	4	330	1,052	1,267	1,092	443	89	7	–
Morrow	129	1	10	36	34	30	11	7	–	–
Multnomah	9,430	1	388	1,507	2,202	3,020	1,859	422	29	2
Polk	850	–	47	209	292	186	95	21	–	–
Sherman	11	–	1	3	4	3	–	–	–	–
Tillamook	234	–	15	67	80	47	18	7	–	–
Umatilla	1,146	–	116	342	342	217	93	34	–	2
Union	319	–	20	78	101	77	36	7	–	–
Wallowa	68	–	2	10	28	21	7	–	–	–
Wasco	299	–	25	85	94	69	20	6	–	–
Washington	7,186	2	283	1,081	2,014	2,430	1,141	212	23	–
Wheeler	12	–	–	–	6	4	2	–	–	–
Yamhill	1,042	–	76	253	329	256	108	19	1	–

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

TABLE 2-11. Unmarried mothers by age of mother and county of residence, Oregon resident births, 2013

County of residence	Total births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	16,046	15	2,247	5,757	4,034	2,495	1,161	313	23	1
Baker	63	—	16	25	16	5	1	—	—	—
Benton	160	—	23	58	39	24	12	4	—	—
Clackamas	1,136	1	147	379	318	189	83	16	3	—
Clatsop	166	—	24	67	40	21	13	1	—	—
Columbia	202	1	31	79	56	26	6	3	—	—
Coos	304	1	37	124	78	40	21	3	—	—
Crook	60	—	8	25	10	7	7	3	—	—
Curry	60	—	6	28	16	6	2	—	2	—
Deschutes	592	—	74	236	141	81	47	13	—	—
Douglas	533	—	89	210	131	69	27	6	1	—
Gilliam	8	—	—	2	2	3	1	—	—	—
Grant	20	—	3	8	4	3	2	—	—	—
Harney	28	—	5	7	9	6	1	—	—	—
Hood River	79	—	11	29	15	17	6	1	—	—
Jackson	959	2	149	358	232	138	59	21	—	—
Jefferson	147	—	22	61	39	17	6	2	—	—
Josephine	411	—	50	170	95	62	26	7	1	—
Klamath	380	—	75	163	87	33	18	2	2	—
Lake	23	—	5	5	11	1	—	1	—	—
Lane	1,379	2	184	493	365	224	81	30	—	—
Lincoln	206	—	16	90	51	35	11	3	—	—
Linn	546	—	85	201	158	68	26	7	1	—
Malheur	218	—	39	86	49	25	17	2	—	—
Marion	1,736	4	296	600	414	290	108	24	—	—
Morrow	63	1	10	23	12	11	1	5	—	—
Multnomah	3,146	1	344	988	781	602	325	98	7	—
Polk	274	—	36	115	71	34	14	4	—	—
Sherman	4	—	1	2	—	1	—	—	—	—
Tillamook	90	—	12	36	28	12	1	1	—	—
Umatilla	559	—	99	215	131	68	36	9	—	1
Union	104	—	15	42	21	16	7	3	—	—
Wallowa	14	—	1	4	6	3	—	—	—	—
Wasco	135	—	19	57	35	17	5	2	—	—
Washington	1,874	2	251	644	475	294	166	36	6	—
Wheeler	3	—	—	—	1	1	1	—	—	—
Yamhill	364	—	64	127	97	46	24	6	—	—

— 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, 2013

Region & selected country of mother's birth	Total	Continent of father's birth					
		North & Central America	South America	Europe	Asia	Africa	Other & unknown
Total	45,136	37,117	119	946	1,883	432	4,639
North America	36,642	31,737	81	414	361	104	3,945
Canada	166	151	1	6	2	–	6
United States	36,476	31,586	80	408	359	104	3,939
Central America	4,446	4,059	6	7	5	1	368
El Salvador	88	79	–	–	–	–	9
Guatemala	170	156	–	1	1	–	12
Mexico	4,119	3,768	6	6	3	–	336
Caribbean	51	44	–	–	1	–	6
South America	162	113	27	3	4	1	14
Brazil	44	29	5	–	2	1	7
East Europe	730	167	1	401	142	5	14
Moldavia	45	1	–	33	11	–	–
Romania	98	37	–	60	1	–	–
Russia	176	51	1	50	68	2	4
Ukraine	349	35	–	246	57	3	8
North Europe	114	76	–	29	7	2	–
United Kingdom	62	47	–	11	3	1	–
South Europe	60	35	–	16	4	2	3
West Europe	187	143	–	20	9	2	13
Germany	152	117	–	14	8	1	12
East Asia	648	280	2	7	336	–	23
China	289	54	–	5	220	–	10
Japan	124	89	1	–	30	–	4
South Korea	177	110	1	1	59	–	6
Taiwan	50	22	–	1	25	–	2
Southeast Asia	698	278	1	7	379	–	33
Laos	30	9	–	1	18	–	2
Philippines	204	147	–	–	50	–	7
Thailand	78	48	–	–	25	–	5
Vietnam	287	46	–	4	220	–	17
South Asia	458	41	–	2	412	1	2
India	376	29	–	2	343	1	1
Eurasia	72	6	–	21	43	–	2
Middle East	244	43	1	15	174	8	3
Saudi Arabia	85	–	–	–	85	–	–
East Africa	245	15	–	–	1	207	22
Ethiopia	88	5	–	–	–	75	8
Somalia	122	2	–	–	1	109	10
North Africa	49	5	–	–	2	42	–
Oceania	206	41	–	2	1	–	162
Australia & New Zealand	25	16	–	1	–	–	8
Micronesia	154	19	–	1	–	–	134
Other & unknown countries	124	34	–	2	2	57	29

– Quantity is zero.

TABLE 2-13. Race, ethnicity, and place of birth of mother by selected demographic characteristics (percent), Oregon resident births, 2013

Characteristic of mother	Total	Single mention race						Hispanic ²
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ NS ¹	
Total	45,136	31,107	923	551	2,120	293	280	8,440
Ratio of males to females ³	1,042	1,044	1,051	1,144	1,031	966	1,154	1,029
All births								
All births	45,136	31,107	923	551	2,120	293	280	8,440
Age 10-19	5.8	4.4	8.7	8.2	0.7	8.2	5.0	11.2
4 or more live births	11.6	9.4	19.9	20.0	4.7	20.8	12.9	19.5
Unmarried mothers	35.6	31.5	58.5	65.6	13.4	49.1	42.3	49.2
Less than 12 years education	15.3	8.4	21.5	23.8	7.6	26.1	21.3	41.0
Mothers born in the United States								
Total born in the U.S.	36,476	29,400	585	547	413	121	227	3,846
Age 10-19	6.3	4.6	11.3	8.2	1.2	14.9	6.2	17.7
4 or more live births	9.7	9.0	14.4	20.1	4.8	16.5	11.0	12.4
Unmarried mothers	37.2	32.7	76.2	65.6	24.6	51.2	47.7	56.9
Less than 12 years education	10.5	8.4	15.5	23.9	4.6	14.9	19.5	22.6
Mothers born outside the United States								
Total born outside of the U.S.	8,660	1,707	338	4	1,707	172	53	4,594
Age 10-19	3.6	1.4	4.1	-	0.5	3.5	-	5.7
4 or more live births	19.5	16.1	29.6	-	4.7	23.8	20.8	25.5
Unmarried mothers	29.2	10.3	27.8	75.0	10.7	47.7	19.6	42.8
Less than 12 years education	35.3	8.4	32.1	-	8.3	34.1	29.7	56.4

- Quantity is zero.

TABLE 2-13. Race, ethnicity, and place of birth of mother by selected demographic characteristics (percent), Oregon resident births, 2013 (continued)

Characteristic of mother	Total	Multiple mention race and ethnicity							
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic ²
Total	45,136	38,881	1,387	1,463	2,668	458	1,671	561	8,440
Ratio of males to females ³	1,042	1,044	1,049	1,126	1,029	974	992	1,047	1,029
All births									
All births	45,136	38,881	1,387	1,463	2,668	458	1,671	561	8,440
Age 10-19	5.8	5.6	9.9	9.6	1.2	8.1	11.4	10.0	11.2
4 or more live births	11.6	11.0	18.3	15.5	5.0	17.9	20.5	15.9	19.5
Unmarried mothers	35.6	35.0	60.9	60.4	17.3	48.3	49.0	45.2	49.2
Less than 12 years education	15.3	13.7	19.8	21.5	7.3	19.3	45.0	40.7	41.0
Mothers born in the United States									
Total born in the U.S.	36,476	33,724	1,025	1,442	871	265	717	257	3,846
Age 10-19	6.3	5.9	12.0	9.8	2.6	11.3	20.2	12.9	17.7
4 or more live births	9.7	9.4	14.5	15.7	5.1	14.3	13.0	9.3	12.4
Unmarried mothers	37.2	35.5	72.4	60.8	30.9	50.6	56.3	53.0	56.9
Less than 12 years education	10.5	9.8	15.7	21.4	5.6	11.3	25.8	24.3	22.6
Mothers born outside the United States									
Total born outside of the U.S.	8,660	5,157	362	21	1,797	193	954	304	4,594
Age 10-19	3.6	4.2	3.9	-	0.5	3.6	4.7	7.6	5.7
4 or more live births	19.5	22.1	29.0	4.8	5.0	22.8	26.1	21.4	25.5
Unmarried mothers	29.2	31.7	28.2	33.3	10.8	45.1	43.5	38.7	42.8
Less than 12 years education	35.3	39.3	31.5	28.6	8.1	30.4	59.6	52.9	56.4

- Quantity is zero.

1 NS = 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, 2013

Characteristics	Total	Private insurance	Self-pay	Medicaid- /OHP*	Other	Unknown
Mother's age and marital status						
Total	45,136	23,693	1,055	19,587	648	153
Married	28,968	19,529	748	8,150	454	87
Unmarried	16,046	4,112	303	11,410	158	63
Less than 18	714	178	16	514	2	4
Married	39	8	3	28	—	—
Unmarried	674	170	13	485	2	4
18-24	11,403	3,418	192	7,553	195	45
Married	4,023	1,673	99	2,132	102	17
Unmarried	7,345	1,737	91	5,410	79	28
25-34	25,624	15,063	628	9,467	384	82
Married	19,028	13,380	475	4,824	293	56
Unmarried	6,529	1,652	152	4,630	70	25
35+	7,391	5,032	219	2,053	67	20
Married	5,877	4,467	171	1,166	59	14
Unmarried	1,497	552	47	885	7	6
First trimester care						
Total	34,546	20,056	607	13,318	473	92
Married	23,568	16,861	468	5,836	346	57
Unmarried	10,900	3,151	138	7,470	106	35
Percent	77.8	86.0	58.7	69.1	75.1	64.8
Married	82.7	87.8	63.5	72.8	78.5	70.4
Unmarried	69.1	77.8	47.1	66.6	69.3	59.3
Inadequate prenatal care						
Total	2,465	642	165	1,580	54	24
Married	1,085	415	79	556	24	11
Unmarried	1,364	225	84	1,019	25	11
Percent	5.7	2.8	16.0	8.4	8.8	17.3
Married	3.9	2.2	10.7	7.1	5.6	13.8
Unmarried	8.8	5.7	29.2	9.3	16.8	19.3
Tobacco use						
Percent	10.2	3.5	7.4	18.4	11.8	10.8
Alcohol use						
Percent	0.9	1.0	1.2	0.6	0.9	2.3
Low birthweight						
Percent	6.3	5.9	5.2	6.9	4.6	5.3

— 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, 2013

County of residence	Total births	Tobacco use							
		Number	%	Tobacco use by age of mother					
				<20	20-24	25-29	30-34	35-39	40+
Total	45,136	4,585	10.2	422	1,661	1,331	818	293	60
Baker	180	39	21.7	5	10	14	6	2	2
Benton	650	50	7.7	5	16	13	12	3	1
Clackamas	3,991	249	6.3	19	76	72	58	19	5
Clatsop	395	69	17.6	12	28	11	11	6	1
Columbia	500	83	16.8	9	27	29	13	4	1
Coos	609	145	23.8	9	61	42	23	9	1
Crook	192	29	15.1	3	9	8	2	6	1
Curry	195	39	20.0	4	17	11	4	3	—
Deschutes	1,723	168	9.8	13	75	44	24	9	3
Douglas	1,065	270	25.4	30	104	81	36	17	2
Gilliam	18	4	22.2	—	1	—	2	1	—
Grant	60	9	15.3	1	4	1	3	—	—
Harney	90	14	15.7	2	2	8	2	—	—
Hood River	282	15	5.3	1	7	4	2	1	—
Jackson	2,331	333	14.3	35	125	94	59	18	2
Jefferson	301	34	11.4	3	16	10	4	1	—
Josephine	837	201	24.0	24	74	56	36	8	3
Klamath	783	163	21.0	19	71	48	13	10	2
Lake	82	16	19.5	—	5	8	3	—	—
Lane	3,526	486	13.8	46	172	141	96	28	3
Lincoln	422	76	18.1	4	36	21	12	2	1
Linn	1,424	230	16.2	34	94	59	32	10	1
Malheur	470	51	10.9	6	20	12	11	1	1
Marion	4,284	404	9.4	28	140	116	92	24	4
Morrow	129	13	10.1	1	6	2	1	1	2
Multnomah	9,430	596	6.3	34	180	188	129	54	11
Polk	850	103	12.1	10	39	37	8	8	1
Sherman	11	2	18.2	—	1	—	1	—	—
Tillamook	234	33	14.2	2	13	10	5	1	2
Umatilla	1,146	162	14.2	23	64	45	19	10	1
Union	319	45	14.2	6	18	11	7	2	1
Wallowa	68	5	7.4	—	1	3	1	—	—
Wasco	299	27	9.1	3	12	6	6	—	—
Washington	7,186	306	4.3	19	94	87	71	28	7
Wheeler	12	3	25.0	—	—	2	—	1	—
Yamhill	1,042	113	10.9	12	43	37	14	6	1

— Quantity is zero.

WARNING: Rates and percentages based on less than five 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, 2013

County of residence	Live births	Inadequate care ¹	Minority race/ethnicity ²	Age < 18	Age >=35	4+ live births	<12 years educ.	Unmarried	Tobacco use
Total	45,136	5.7	31.0	1.6	16.4	11.6	15.3	35.7	10.2
Baker	180	7.3	9.4	3.3	10.0	15.6	13.9	35.0	21.7
Benton	650	5.4	27.1	1.1	15.5	10.8	9.6	24.7	7.7
Clackamas	3,991	5.5	20.5	1.1	17.2	9.4	9.4	28.6	6.3
Clatsop	395	7.0	20.0	0.8	11.6	11.6	17.5	42.1	17.6
Columbia	500	6.3	12.0	1.6	11.8	11.0	12.3	40.5	16.8
Coos	609	7.7	21.0	1.5	10.2	12.6	17.4	50.1	23.8
Crook	192	5.0	17.7	1.0	17.7	16.1	16.2	31.2	15.1
Curry	195	10.3	18.0	1.0	13.3	10.8	18.2	50.0	20.0
Deschutes	1,723	4.9	18.9	1.2	16.5	9.5	11.6	34.5	9.8
Douglas	1,065	5.0	13.5	2.2	9.2	12.6	16.5	50.1	25.4
Gilliam	18	–	11.1	–	11.1	5.6	11.1	44.4	22.2
Grant	60	10.2	5.0	–	15.0	20.0	10.2	33.3	15.3
Harney	90	7.2	14.6	1.1	7.8	12.2	10.1	31.1	15.7
Hood River	282	4.7	51.4	1.8	19.5	11.0	24.5	28.0	5.3
Jackson	2,331	6.6	26.1	2.2	12.0	10.5	18.9	41.3	14.3
Jefferson	301	9.4	50.5	1.3	9.3	17.6	27.9	49.0	11.4
Josephine	837	6.9	15.7	1.9	10.6	9.9	14.1	49.2	24.0
Klamath	783	4.7	30.0	1.7	7.7	11.9	18.8	48.7	21.0
Lake	82	7.4	22.0	3.7	8.5	14.6	22.0	28.8	19.5
Lane	3,526	6.2	22.9	2.1	13.7	9.4	12.3	39.2	13.8
Lincoln	422	6.8	30.6	1.7	9.7	14.9	21.6	48.9	18.1
Linn	1,424	4.4	17.5	1.8	10.8	12.1	15.4	38.4	16.2
Malheur	470	12.3	48.1	2.3	9.8	22.6	30.4	46.5	10.9
Marion	4,284	5.9	43.6	2.4	12.6	17.4	22.3	40.6	9.4
Morrow	129	9.4	57.0	3.1	14.0	20.2	34.4	48.8	10.1
Multnomah	9,430	5.8	35.2	1.2	24.5	10.3	14.1	33.6	6.3
Polk	850	5.0	26.7	0.9	13.6	13.6	12.4	32.3	12.1
Sherman	11	9.1	27.3	–	–	9.1	27.3	36.4	18.2
Tillamook	234	2.2	24.8	1.7	10.7	17.5	19.7	38.6	14.2
Umatilla	1,146	6.9	41.0	3.0	11.1	17.5	25.6	48.9	14.2
Union	319	3.8	14.1	0.9	13.5	15.4	14.4	32.7	14.2
Wallowa	68	1.5	8.8	–	10.3	17.6	10.3	20.6	7.4
Wasco	299	4.9	38.1	3.3	8.7	11.0	19.1	45.2	9.1
Washington	7,186	4.4	40.8	1.1	19.1	9.5	12.5	26.1	4.3
Wheeler	12	–	41.7	–	16.7	41.7	8.3	25.0	25.0
Yamhill	1,042	3.9	30.3	1.4	12.3	11.8	16.6	35.1	10.9

– Quantity is zero.

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

² Includes nonwhite race and Hispanic ethnicity.

WARNING: Rates based on less than five 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, 2013**

Mother's age	Total births	First trimester care		Inadequate prenatal care ¹	
		Number	Percent	Number	Percent
Total	45,136	34,546	77.8	2,465	5.7
Less than 15	15	6	40.0	4	26.7
15-19	2,595	1,637	64.1	228	9.1
20-24	9,507	6,724	72.0	707	7.7
25-29	12,978	10,049	78.7	675	5.4
30-34	12,646	10,276	82.6	537	4.4
35-39	6,015	4,804	81.3	259	4.5
40-44	1,282	973	77.8	52	4.3
45+	94	77	84.6	2	2.3
Unknown	4	–	–	1	100.0

– Quantity is zero.

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

WARNING: Rates and percentages based on less than five 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, 2013

Mother's race/ethnicity	Total births	First trimester care		Inadequate prenatal care ¹		Adequate	
		Number	Percent	Number	Percent	Number	Percent
Total	45,136	34,546	77.8	2,465	5.7	41,046	94.3
Non-Hispanic single mention race							
Total non-Hispanic	36,499	28,481	79.3	1,914	5.4	33,311	94.6
White	31,107	24,655	80.4	1,470	4.9	28,615	95.1
African American	923	591	66.4	97	11.3	765	88.7
American Indian	551	375	69.1	62	11.7	468	88.3
Asian	2,120	1,628	78.8	113	5.6	1,912	94.4
Hawaiian/Pacific Islander	293	122	43.4	61	22.1	215	77.9
Other/unknown	280	179	66.5	35	13.7	220	86.3
Multiple races	1,422	1,052	74.9	103	7.5	1,266	92.5
Hispanic single mention race							
Total Hispanic	8,440	5,944	71.8	524	6.5	7,585	93.5
White	6,194	4,327	71.4	370	6.2	5,569	93.8
African American	60	44	74.6	2	3.4	57	96.6
American Indian	105	69	67.6	9	9.1	90	90.9
Asian	32	24	75.0	2	6.5	29	93.5
Hawaiian/Pacific Islander	7	6	85.7	1	14.3	6	85.7
Other/unknown	1,873	1,356	73.3	123	6.8	1,691	93.2
Multiple races	169	118	71.5	17	10.6	143	89.4
Multiple mention race and ethnicity							
White	38,881	30,142	78.8	1,958	5.2	35,580	94.8
African American	1,387	929	69.0	135	10.3	1,173	89.7
American Indian	1,463	1,001	69.4	147	10.4	1,262	89.6
Asian	2,668	2,048	78.6	149	5.8	2,402	94.2
Hawaiian/Pacific Islander	458	243	55.0	75	17.4	357	82.6
Other	1,671	1,207	73.1	113	7.0	1,512	93.0
Unknown	561	393	71.7	41	7.8	488	92.2
Hispanic	8,440	5,944	71.8	524	6.5	7,585	93.5

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

WARNING: Rates and percentages based on less than five 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, 2013**

Mother's education	Total births	First trimester care		Inadequate prenatal care ¹	
		Number	Percent	Number	Percent
Total	45,136	34,546	77.8	2,465	5.7
8th grade or less	1,637	1,055	65.8	125	7.9
9th to 12th grade, no diploma	5,214	3,371	65.7	562	11.2
High school graduate or GED	10,049	7,111	71.9	737	7.6
Some college, no degree	11,213	8,574	77.7	548	5.1
Associates degree	3,576	2,957	83.9	120	3.5
Bachelors degree	8,301	7,045	86.4	225	2.8
Masters degree	3,766	3,293	88.6	81	2.2
Doctorate or professional degree ...	1,125	989	90.2	24	2.2
Unknown	255	151	64.3	43	18.7

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

WARNING: Rates and percentages based on less than five 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, 2013

County of residence	Total births	First trimester care		Inadequate prenatal care ¹	
		Number	Percent	Number	Percent
Total	45,136	34,546	77.8	2,465	5.7
Baker	180	129	71.7	13	7.3
Benton	650	529	81.5	35	5.4
Clackamas	3,991	3,106	79.1	213	5.5
Clatsop	395	292	75.1	27	7.0
Columbia	500	380	78.4	30	6.3
Coos	609	457	75.3	47	7.7
Crook	192	127	68.6	9	5.0
Curry	195	133	68.6	20	10.3
Deschutes	1,723	1,350	81.0	77	4.9
Douglas	1,065	869	81.9	53	5.0
Gilliam	18	16	94.1	—	—
Grant	60	36	61.0	6	10.2
Harney	90	66	75.0	6	7.2
Hood River	282	223	82.0	12	4.7
Jackson	2,331	1,751	75.5	150	6.6
Jefferson	301	197	§ 66.3	26	9.4
Josephine	837	643	76.9	57	6.9
Klamath	783	613	78.8	36	4.7
Lake	82	50	61.0	6	7.4
Lane	3,526	2,710	77.0	219	6.2
Lincoln	422	313	76.9	27	6.9
Linn	1,424	1,160	82.3	61	4.4
Malheur	470	279	§ 59.5	58	§ 12.4
Marion	4,284	3,208	75.4	250	5.9
Morrow	129	88	68.2	12	9.4
Multnomah	9,430	7,221	77.9	529	5.8
Polk	850	669	80.0	41	5.0
Sherman	11	7	63.6	1	9.1
Tillamook	234	179	77.2	5	2.2
Umatilla	1,146	834	73.9	78	6.9
Union	319	270	85.2	12	3.8
Wallowa	68	55	82.1	1	1.5
Wasco	299	232	79.2	14	4.9
Washington	7,186	5,506	79.7	294	§ 4.4
Wheeler	12	8	80.0	—	—
Yamhill	1,042	840	81.6	40	3.9

— Quantity is zero.

¹ Less than five 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 five 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, 2013

County of residence	Total births	First trimester care		Inadequate prenatal care ¹	
		Number	Percent	Number	Percent
Total	16,046	10,900	69.1	1,364	8.8
Baker	63	40	63.5	4	6.3
Benton	160	113	70.6	12	7.5
Clackamas	1,136	769	69.1	99	8.9
Clatsop	166	110	66.7	14	8.5
Columbia	202	142	72.8	18	9.6
Coos	304	209	69.0	31	10.2
Crook	60	37	63.8	2	3.6
Curry	60	37	61.7	7	11.9
Deschutes	592	424	73.6	45	8.3
Douglas	533	407	§ 76.9	33	6.2
Gilliam	8	*	*	*	*
Grant	20	10	50.0	2	10.5
Harney	28	17	63.0	4	15.4
Hood River	79	53	67.9	7	10.0
Jackson	959	651	68.1	89	9.6
Jefferson	147	90	62.5	14	10.5
Josephine	411	302	73.5	36	8.8
Klamath	380	260	69.1	30	8.1
Lake	23	10	43.5	3	13.0
Lane	1,379	959	69.6	115	8.4
Lincoln	206	143	71.9	18	9.4
Linn	546	416	§ 76.8	38	7.1
Malheur	218	109	§ 50.0	36	16.5
Marion	1,736	1,146	66.5	153	9.0
Morrow	63	38	60.3	7	11.1
Multnomah	3,146	2,118	68.8	297	9.9
Polk	274	197	72.7	28	10.4
Sherman	4	*	*	*	*
Tillamook	90	64	71.1	2	2.2
Umatilla	559	381	69.3	50	9.1
Union	104	88	85.4	5	4.9
Wallowa	14	11	84.6	–	–
Wasco	135	95	70.9	10	7.5
Washington	1,874	1,173	65.9	132	7.7
Wheeler	3	*	*	*	*
Yamhill	364	273	76.3	22	6.2

– Quantity is zero.

¹ Less than five 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 five events are unreliable.

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

**TABLE 2-22. Prenatal care
by birthweight, Oregon residents, 2013**

Birthweight (in grams)	Total births	First trimester care		Inadequate care ¹	
		Number	Percent	Number	Percent
Total	45,136	34,546	77.8	2,465	5.7
Low birthweight					
Total low birthweight	2,845	2,093	76.6	288	10.9
499 & less	52	35	77.8	21	47.7
500-999	180	128	77.1	46	28.8
1000-1499	216	163	79.1	35	18.1
1500-1999	543	418	79.3	53	10.5
2000-2499	1,854	1,349	75.4	133	7.7
Birthweight greater than 2499 grams					
2500-2999	6,679	5,011	76.5	444	6.9
3000-3499	16,908	12,912	77.5	919	5.6
3500-3999	13,932	10,813	78.8	624	4.6
4000-4499	4,039	3,162	79.1	149	3.8
4500-4999	662	500	76.2	39	6.1
5000 & over	65	51	78.5	1	1.6
Unknown	6	4	80.0	1	25.0

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

WARNING: Rates and percentages based on less than five 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, 2013

Medical risk factor of mother	Total births ²	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Total births	45,136	15	2,595	9,507	12,978	12,646	6,015	1,282	94
Diabetes-chronic	9.2	—	4.6	4.4	7.3	10.5	17.0	21.8	42.6
Diabetes-gestational	75.9	—	25.4	39.1	67.4	86.4	125.2	188.0	266.0
Hypertension-chronic	16.2	—	5.4	8.7	14.8	18.4	24.4	43.7	53.2
Hypertension-gestational	61.7	—	60.1	56.2	62.0	64.0	59.9	90.5	74.5
Eclampsia	7.8	—	10.8	7.9	7.3	6.4	10.0	8.6	—
Previous preterm infant ³	37.2	—	8.9	30.6	37.1	41.0	46.2	65.5	63.8
Previous poor pregnancy outcome ⁴	32.0	—	9.2	23.7	26.1	35.3	51.7	65.5	170.2
Vaginal bleeding	21.7	133.3	19.3	19.2	23.0	22.2	22.1	21.8	42.6
Infertility treatment	19.1	—	—	1.8	8.1	24.5	45.2	94.4	404.3
Previous cesarean delivery	136.8	—	21.6	90.0	132.9	160.0	203.5	203.6	297.9

— 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, 2013

Characteristic	Total births ¹	Age of mother							
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
All births - mother									
Total births	45,136	15	2,595	9,507	12,978	12,646	6,015	1,282	94
First trimester care	77.8	40.0	64.1	72.0	78.7	82.6	81.3	77.8	84.6
Inadequate care ²	5.7	26.7	9.1	7.7	5.4	4.4	4.5	4.3	2.3
No prenatal care	0.7	6.7	0.9	0.9	0.6	0.6	0.5	0.8	—
Out-of-hospital birth	3.7	—	0.7	1.9	3.9	4.8	5.5	3.5	2.1
Primary cesarean	16.7	26.7	15.4	15.0	15.5	17.1	19.5	24.7	29.8
Repeat cesarean	11.3	—	1.8	7.7	11.0	13.1	16.5	17.5	26.6
Multiple births	3.3	—	1.1	1.9	2.9	4.1	4.8	6.9	13.8
Tobacco use	10.2	13.3	16.2	17.6	10.3	6.5	4.9	4.5	3.2
Overweight/obese ³	48.5	—	37.6	48.3	50.4	48.6	49.0	51.5	44.4
All births - infant									
Preterm births ⁴	7.6	7.1	7.8	6.9	7.3	7.2	9.2	11.7	10.6
Very low birthweight ⁵ ..	1.0	—	1.5	0.8	0.9	1.0	1.1	2.0	2.1
Low birthweight ⁶	6.3	—	7.2	6.1	5.5	6.3	7.2	9.8	9.6
Fetal macrosomia ⁷	10.6	6.7	6.5	8.2	10.9	12.0	12.4	10.7	7.4
5 minute Apgar < 7	2.9	—	3.9	2.9	2.9	2.8	2.7	4.0	3.2
Mothers born in the U.S.									
Total births	36,476	13	2,281	8,148	10,597	10,050	4,474	859	50
First trimester care	79.3	38.5	64.9	73.0	80.4	84.3	84.1	80.2	89.6
Inadequate care ²	5.3	30.8	8.5	7.5	4.8	4.0	3.9	4.7	—
No prenatal care	0.7	7.7	1.0	0.9	0.6	0.5	0.6	1.0	—
Out-of-hospital birth	4.3	—	0.7	2.1	4.4	5.7	6.7	4.7	4.0
Primary cesarean	17.0	30.8	15.8	15.5	15.9	17.6	19.5	26.0	32.0
Repeat cesarean	10.9	—	1.6	7.9	11.0	12.6	16.0	17.2	20.0
Multiple births	3.5	—	1.2	2.1	3.2	4.3	5.0	8.6	12.0
Tobacco use	12.4	15.4	18.3	20.2	12.4	8.0	6.5	6.2	4.0
Overweight/obese ³	48.6	—	37.6	49.3	50.7	48.6	47.7	49.1	43.8
Infants of mothers born in the U.S.									
Preterm births ⁴	7.7	8.3	7.7	7.3	7.4	7.1	9.2	12.1	14.0
Very low birthweight ⁵ ..	1.0	—	1.4	0.9	0.9	0.9	1.0	1.7	4.0
Low birthweight ⁶	6.3	—	7.2	6.2	5.6	6.1	7.2	10.2	12.0
Fetal macrosomia ⁷	10.9	7.7	6.7	8.4	11.3	12.4	13.0	10.9	10.0
5 minute Apgar < 7	3.2	—	4.0	3.1	3.2	3.0	3.0	4.3	6.0

— 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, 2013 (continued)

Characteristic	Total births ¹	Age of mother							
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Mothers born outside the U.S.									
Total births	8,660	2	314	1,359	2,381	2,596	1,541	423	44
First trimester care	71.7	50.0	58.0	65.6	70.9	75.8	73.2	73.0	79.1
Inadequate care ²	7.2	–	13.7	8.8	8.0	6.0	6.2	3.5	4.8
No prenatal care	0.5	–	0.7	0.5	0.6	0.6	0.1	0.5	–
Out-of-hospital birth	1.3	–	–	0.9	1.5	1.3	1.8	1.2	–
Primary cesarean	15.3	–	12.7	12.3	14.1	14.8	19.3	22.2	27.3
Repeat cesarean	12.8	–	3.2	6.2	11.0	14.8	18.0	18.0	34.1
Multiple births	2.7	–	–	1.0	1.8	3.4	4.3	3.5	15.9
Tobacco use	0.9	–	1.0	1.8	1.0	0.5	0.3	1.0	2.3
Overweight/obese ³	48.4	–	37.5	42.1	49.0	48.5	53.0	56.7	45.2
Infants of mothers born outside the U.S.									
Preterm births ⁴	7.4	–	8.3	4.6	6.8	7.7	9.2	10.9	6.8
Very low birthweight ⁵ ..	1.2	–	1.9	0.7	0.8	1.3	1.3	2.6	–
Low birthweight ⁶	6.4	–	7.6	5.3	5.3	7.0	7.2	9.0	6.8
Fetal macrosomia ⁷	9.2	–	5.1	6.9	9.2	10.1	10.5	10.2	4.5
5 minute Apgar < 7	1.9	–	2.9	1.5	1.9	1.9	1.7	3.3	–

– Quantity is zero.

¹ Total includes four births with unknown age of mother.

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

³ Body Mass Index of greater than 25.0 kg/m² for women over 15.

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, 2013

Characteristic	Total births	Single mention race							Hispanic ¹
		White	African American	American Indian	Asian	Hawaiian/Pacific Islander	Other/unk.	Mult. races	
All births - mother									
Total births	45,136	31,107	923	551	2,120	293	280	1,422	8,440
First trimester care	77.8	80.4	66.4	69.1	78.8	43.4	66.5	74.9	71.8
Inadequate care ²	5.7	4.9	11.3	11.7	5.6	22.1	13.7	7.5	6.5
No prenatal care	0.7	0.6	1.6	1.3	0.1	4.0	3.9	1.2	0.6
Out-of-hospital birth	3.7	4.7	1.2	2.5	1.3	1.0	10.7	3.8	0.9
Primary cesarean	16.7	17.1	18.7	16.2	20.4	19.5	13.6	16.8	13.8
Repeat cesarean	11.3	10.6	12.5	15.4	12.4	16.4	12.1	11.4	12.9
Multiple births	3.3	3.6	4.0	3.1	3.8	0.7	3.6	2.5	2.6
Tobacco use	10.2	12.2	8.4	22.2	1.5	5.5	11.7	17.7	3.3
Overweight/obese ³	48.5	46.3	55.0	60.3	24.9	73.9	44.4	51.3	60.2
All births - infant									
Preterm births ⁴	7.6	7.3	10.8	11.1	7.7	9.6	10.8	8.4	7.8
Very low birthweight ⁵ ..	1.0	0.9	3.1	1.8	1.2	1.0	2.9	0.6	0.9
Low birthweight ⁶	6.3	5.9	10.3	8.2	7.8	10.6	10.0	7.0	6.4
Fetal macrosomia ⁷	10.6	11.4	8.3	11.8	5.6	10.6	9.7	9.8	8.9
5 minute Apgar < 7	2.9	3.1	5.1	3.5	1.9	1.7	2.9	3.1	2.2
Mothers born in the U.S.									
Total births	36,476	29,400	585	547	413	121	227	1,337	3,846
First trimester care	79.3	80.9	67.8	69.0	84.4	59.1	67.0	75.2	72.2
Inadequate care ²	5.3	4.8	10.2	11.8	4.0	12.3	15.1	7.2	6.7
No prenatal care	0.7	0.6	2.5	1.3	0.3	—	4.4	0.9	0.8
Out-of-hospital birth	4.3	4.8	1.2	2.2	3.1	0.8	9.7	3.8	1.5
Primary cesarean	17.0	17.2	20.7	16.3	18.4	19.0	13.7	16.8	15.1
Repeat cesarean	10.9	10.7	13.3	15.5	10.9	14.0	12.3	11.6	11.5
Multiple births	3.5	3.5	5.6	3.1	3.9	—	3.5	2.3	3.4
Tobacco use	12.4	12.8	13.1	22.4	4.4	11.6	14.5	18.6	6.7
Overweight/obese ³	48.6	46.8	60.5	60.4	36.1	75.7	42.8	51.4	58.8
Infants of mothers born in the U.S.									
Preterm births ⁴	7.7	7.4	12.3	11.2	8.0	7.4	11.9	8.3	8.3
Very low birthweight ⁵ ..	1.0	0.9	3.8	1.8	0.5	0.8	3.1	0.6	1.0
Low birthweight ⁶	6.3	5.9	12.3	8.2	8.5	7.4	10.2	6.8	7.0
Fetal macrosomia ⁷	10.9	11.4	7.9	11.7	5.6	12.4	9.3	9.9	8.2
5 minute Apgar < 7	3.2	3.2	5.5	3.5	1.7	2.5	3.6	3.1	2.9

— 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, 2013 (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	8,660	1,707	338	4	1,707	172	53	85	4,594
First trimester care	71.7	72.2	64.0	75.0	77.5	32.5	64.7	70.0	71.4
Inadequate care ²	7.2	7.2	13.2	–	6.0	29.0	8.0	12.7	6.3
No prenatal care	0.5	0.5	–	–	0.1	6.8	2.0	5.1	0.3
Out-of-hospital birth	1.3	3.8	1.2	50.0	0.9	1.2	15.1	3.5	0.3
Primary cesarean	15.3	16.3	15.4	–	20.9	19.8	13.2	17.6	12.8
Repeat cesarean	12.8	9.4	10.9	–	12.8	18.0	11.3	8.2	14.1
Multiple births	2.7	3.7	1.2	–	3.7	1.2	3.8	4.7	2.0
Tobacco use	0.9	2.2	0.3	–	0.8	1.2	–	2.4	0.4
Overweight/obese ³	48.4	38.5	44.9	50.0	22.0	72.7	52.3	50.6	61.3
Infants of mothers born outside the U.S.									
Preterm births ⁴	7.4	6.6	8.3	–	7.6	11.1	5.7	10.6	7.4
Very low birthweight ⁵ ..	1.2	1.6	2.1	–	1.4	1.2	1.9	–	0.8
Low birthweight ⁶	6.4	5.6	6.8	–	7.7	12.8	9.4	10.6	5.9
Fetal macrosomia ⁷	9.2	12.3	9.2	25.0	5.6	9.3	11.3	8.2	9.4
5 minute Apgar < 7	1.9	2.1	4.4	–	2.0	1.2	–	3.5	1.6

– Quantity is zero.

¹ Hispanic includes any mention of race.

² Less than five 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, 2013 (continued)**

Characteristic	Total births	Multiple mention race and ethnicity							
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic ¹
All births - mother									
Total births	45,136	38,881	1,387	1,463	2,668	458	1,671	561	8,440
First trimester care	77.8	78.8	69.0	69.4	78.6	55.0	73.1	71.7	71.8
Inadequate care ²	5.7	5.2	10.3	10.4	5.8	17.4	7.0	7.8	6.5
No prenatal care	0.7	0.6	1.4	1.3	0.4	3.9	0.7	2.1	0.6
Out-of-hospital birth	3.7	4.1	1.7	3.8	2.0	2.2	1.1	4.8	0.9
Primary cesarean	16.7	16.6	16.7	16.4	19.7	18.6	13.6	13.5	13.8
Repeat cesarean	11.3	11.0	12.3	13.3	11.5	16.4	14.1	13.5	12.9
Multiple births	3.3	3.4	3.1	2.9	3.4	2.2	2.0	2.9	2.6
Tobacco use	10.2	11.0	11.4	22.1	2.9	5.9	2.5	4.4	3.3
Overweight/obese ³	48.5	48.7	55.9	55.8	29.4	67.4	60.8	56.0	60.2
All births - infant									
Preterm births ⁴	7.6	7.4	9.7	9.2	8.0	8.5	7.9	8.9	7.8
Very low birthweight ⁵ ..	1.0	0.9	2.4	1.2	1.2	0.7	0.5	1.8	0.9
Low birthweight ⁶	6.3	6.0	9.4	7.2	8.0	9.8	6.3	7.0	6.4
Fetal macrosomia ⁷	10.6	11.0	8.7	10.9	6.2	9.8	9.3	7.5	8.9
5 minute Apgar < 7	2.9	3.0	4.5	3.2	2.1	1.5	1.7	3.2	2.2
Mothers born in the U.S.									
Total births	36,476	33,724	1,025	1,442	871	265	717	257	3,846
First trimester care	79.3	79.9	70.7	69.1	81.4	69.6	72.3	69.2	72.2
Inadequate care ²	5.3	5.0	9.4	10.6	5.4	9.1	7.3	10.1	6.7
No prenatal care	0.7	0.6	1.7	1.3	0.6	1.2	1.1	3.8	0.8
Out-of-hospital birth	4.3	4.5	1.8	3.7	4.1	3.0	1.8	7.8	1.5
Primary cesarean	17.0	17.0	17.1	16.4	17.5	18.9	13.2	11.7	15.1
Repeat cesarean	10.9	10.8	13.0	13.5	9.6	15.8	11.6	13.6	11.5
Multiple births	3.5	3.5	3.8	3.0	2.8	3.0	2.2	3.9	3.4
Tobacco use	12.4	12.5	15.1	22.5	7.2	9.4	5.0	8.9	6.7
Overweight/obese ³	48.6	48.0	59.4	55.7	41.5	65.0	57.1	51.5	58.8
Infants of mothers born in the U.S.									
Preterm births ⁴	7.7	7.5	10.3	9.2	8.6	6.8	7.3	10.9	8.3
Very low birthweight ⁵ ..	1.0	0.9	2.4	1.2	0.8	0.4	0.3	3.1	1.0
Low birthweight ⁶	6.3	6.1	10.3	7.4	8.0	7.5	5.4	9.4	7.0
Fetal macrosomia ⁷	10.9	11.1	8.4	10.8	7.1	10.2	8.6	5.9	8.2
5 minute Apgar < 7	3.2	3.2	4.6	3.3	2.2	1.9	1.5	5.5	2.9

See footnotes at end of table.

**TABLE 2-25. Selected medical or health characteristics by mother's race (percents)
Oregon resident births, 2013 (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	8,660	5,157	362	21	1,797	193	954	304	4,594
First trimester care	71.7	71.1	64.1	90.5	77.3	34.6	73.6	73.8	71.4
Inadequate care ²	7.2	6.6	13.0	–	6.1	28.9	6.7	5.8	6.3
No prenatal care	0.5	0.4	0.3	–	0.3	7.8	0.3	0.7	0.3
Out-of-hospital birth	1.3	1.6	1.4	14.3	0.9	1.0	0.5	2.3	0.3
Primary cesarean	15.3	13.7	15.7	14.3	20.8	18.1	13.9	15.1	12.8
Repeat cesarean	12.8	12.2	10.5	4.8	12.5	17.1	16.0	13.5	14.1
Multiple births	2.7	2.7	1.1	–	3.8	1.0	1.9	2.0	2.0
Tobacco use	0.9	1.0	0.6	–	0.8	1.0	0.5	0.7	0.4
Overweight/obese ³	48.4	53.1	45.2	66.7	23.2	70.9	63.6	59.7	61.3
Infants of mothers born outside the U.S.									
Preterm births ⁴	7.4	6.9	8.3	4.8	7.7	10.9	8.4	7.2	7.4
Very low birthweight ⁵ ..	1.2	1.1	2.2	–	1.3	1.0	0.7	0.7	0.8
Low birthweight ⁶	6.4	5.7	6.6	–	8.0	13.0	6.9	4.9	5.9
Fetal macrosomia ⁷	9.2	10.3	9.7	14.3	5.7	9.3	9.9	8.9	9.4
5 minute Apgar < 7	1.9	1.7	4.1	–	2.1	1.0	1.8	1.3	1.6

– Quantity is zero.

¹ Hispanic includes any mention of race.

² Less than five 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, 2013

Medical risk factor of mother	Total births ¹	Single Mention Race							Hispanic ²
		White	African American	American Indian	Asian	Hawaiian/Pacific Islander	Other/NS	Multiple races	
Total births	45,136	31,107	923	551	2,120	293	280	1,422	8,440
Diabetes-chronic	416	231	8	6	18	11	1	11	130
Diabetes-gestational	3,424	1,901	82	48	315	30	16	95	937
Hypertension-chronic	730	507	23	13	29	8	3	34	113
Hypertension-gestational	2,786	2,044	55	28	89	23	13	78	456
Eclampsia	350	229	7	4	12	4	2	16	76
Previous preterm infant ³	1,681	1,005	45	49	68	18	15	58	423
Previous poor pregnancy outcome ⁴	1,445	922	33	25	73	9	9	48	326
Vaginal bleeding	979	601	27	15	67	3	2	44	220
Infertility treatment	303	238	4	1	24	1	-	7	28
Previous cesarean delivery	6,173	3,934	150	93	322	55	38	196	1,385

¹ Quantity is zero.
See footnotes at end of table.

**TABLE 2-26. Mothers with selected medical risk factors by race of mother, Oregon residents, 2013
(continued)**

Medical risk factor of mother	Total births	Multiple mention race and ethnicity							
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	NS	Hispanic ²
Total births	45,136	38,881	1,387	1,463	2,668	458	1,671	561	8,440
Diabetes-chronic	416	332	10	14	23	13	29	11	130
Diabetes-gestational	3,424	2,674	119	109	361	42	199	58	937
Hypertension-chronic	730	639	32	35	44	10	15	3	113
Hypertension-gestational	2,786	2,468	81	71	115	33	94	25	456
Eclampsia	350	307	13	13	20	6	9	3	76
Previous preterm infant ³	1,681	1,363	76	94	85	22	106	23	423
Previous poor pregnancy outcome ⁴	1,445	1,257	59	56	86	13	35	5	326
Vaginal bleeding	979	807	40	48	78	9	48	8	220
Infertility treatment	303	268	6	3	29	2	5	—	28
Previous cesarean delivery	6,173	5,169	226	220	377	83	280	89	1,385

— 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. Age of mother by birthweight, Oregon resident births, 2013

Birthweight (in grams)	Total births	Age of mother								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	45,136	15	2,595	9,507	12,978	12,646	6,015	1,282	94	4
Low birthweight										
Total low birthweight	2,845	–	188	578	715	792	435	126	9	2
499 & less	52	–	4	10	12	13	8	5	–	–
500-999	180	–	16	29	42	49	34	9	1	–
1000-1499	216	–	19	41	58	62	23	12	1	–
1500-1999	543	–	36	102	127	167	83	26	2	–
2000-2499	1,854	–	113	396	476	501	287	74	5	2
Birthweight greater than 2499 grams										
2500-2999	6,679	2	492	1,521	1,856	1,739	845	208	16	–
3000-3499	16,908	11	1,073	3,793	4,882	4,513	2,153	447	35	1
3500-3999	13,932	1	673	2,834	4,107	4,089	1,836	364	27	1
4000-4499	4,039	1	151	689	1,179	1,282	625	107	5	–
4500-4999	662	–	18	84	216	212	105	26	1	–
5000 & over	65	–	–	5	23	17	15	4	1	–
Unknown	6	–	–	3	–	2	1	–	–	–
Column percent										
1499 & less	1.0	–	1.5	0.8	0.9	1.0	1.1	2.0	2.1	–
1500-2499	5.3	–	5.7	5.2	4.6	5.3	6.2	7.8	7.4	50.0
2500-4499	92.1	100.0	92.1	93.0	92.6	91.9	90.8	87.8	88.3	50.0
4500 & over	1.6	–	0.7	0.9	1.8	1.8	2.0	2.3	2.1	–

– Quantity is zero.

N.S. = Not stated.

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

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

TABLE 2-28. Age of unmarried mothers by birthweight, Oregon resident births, 2013

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	16,046	15	2,247	5,757	4,034	2,495	1,161	313	23	1
Low birthweight										
Total low birthweight	1,201	–	164	381	307	209	103	36	1	–
499 & less	23	–	4	6	7	2	2	2	–	–
500-999	85	–	15	23	17	19	8	3	–	–
1000-1499	87	–	16	23	24	18	6	–	–	–
1500-1999	217	–	33	59	56	42	18	9	–	–
2000-2499	789	–	96	270	203	128	69	22	1	–
Birthweight greater than 2499 grams										
2500-2999	2,732	2	425	1,003	650	400	195	53	4	–
3000-3499	6,238	11	937	2,311	1,520	930	403	116	9	1
3500-3999	4,490	1	577	1,628	1,171	708	325	72	8	–
4000-4499	1,171	1	129	391	312	199	112	26	1	–
4500-4999	195	–	15	42	64	45	19	10	–	–
5000 & over	18	–	–	1	10	3	4	–	–	–
Unknown	1	–	–	–	–	1	–	–	–	–
Column percent										
1499 & less	1.2	–	1.6	0.9	1.2	1.6	1.4	1.6	–	–
1500-2499	6.3	–	5.7	5.7	6.4	6.8	7.5	9.9	4.3	–
2500-4499	91.2	100.0	92.0	92.6	90.6	89.7	89.1	85.3	95.7	100.0
4500 & over	1.3	–	0.7	0.7	1.8	1.9	2.0	3.2	–	–

– Quantity is zero.

N.S. = Not stated.

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

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

TABLE 2-29. Race of mother and birthweight, Oregon residents, 2013

Mother's race/ethnicity	Total births	Birthweight (grams)											Unk.
		499 & less	500-999	1000-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500-4999	5000 & over	
Total births	45,136	52	180	216	543	1,854	6,679	16,908	13,932	4,039	662	65	6
Non-Hispanic single mention race													
Total non-Hispanic	36,499	41	150	173	439	1,478	5,261	13,532	11,421	3,394	555	51	4
White	31,107	34	110	142	363	1,190	4,223	11,452	10,030	3,020	494	45	4
African American	923	2	16	11	12	54	180	335	236	65	10	2	-
American Indian	551	2	6	2	9	26	74	203	164	57	7	1	-
Asian	2,120	1	13	12	30	110	477	887	472	96	21	1	-
Hawaiian/Pacific Islander	293	-	1	2	8	20	44	96	91	22	8	1	-
Other/unknown	280	1	4	3	4	16	40	96	88	24	3	-	1
Multiple races	1,422	2	2	4	16	76	248	530	404	125	14	1	-
Hispanic single mention race													
Total Hispanic	8,440	10	28	40	101	362	1,393	3,309	2,447	630	105	14	1
White	6,194	6	22	32	74	255	1,012	2,448	1,791	468	74	11	1
African American	60	1	-	-	1	7	9	24	13	4	1	-	-
American Indian	105	1	-	-	-	1	16	38	40	9	-	-	-
Asian	32	-	-	-	1	4	4	15	7	1	-	-	-
Hawaiian/Pacific Islander	7	-	-	-	-	-	1	4	1	1	-	-	-
Other/unknown	1,873	2	6	6	22	86	321	726	541	135	27	1	-
Multiple races	169	-	-	2	3	9	30	54	54	12	3	2	-

- Quantity is zero.

TABLE 2-29. Race of mother and birthweight, Oregon residents, 2013 (continued)

Mother's race/ethnicity	Total births	Birthweight (grams)										Unk.	
		499 & less	500-999	1000-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500-4999		5000 & over
Total births	45,136	52	180	216	543	1,854	6,679	16,908	13,932	4,039	662	65	6
Multiple mention race and ethnicity													
White	38,881	43	134	179	457	1,531	5,507	14,475	12,285	3,622	585	58	5
African American	1,387	3	16	14	16	81	264	517	355	104	14	3	-
American Indian	1,463	4	7	7	17	71	233	530	435	138	17	4	-
Asian	2,668	2	14	15	39	143	565	1,096	629	137	27	1	-
Hawaiian/Pacific Islander	458	-	1	2	12	30	70	157	141	35	9	1	-
Other	1,671	1	5	3	17	79	284	649	477	130	25	1	-
Unknown	561	1	5	4	6	23	98	210	171	35	7	-	1
Hispanic	8,440	10	28	40	101	362	1,393	3,309	2,447	630	105	14	1

- Quantity is zero.

TABLE 2-30. Low birthweight infants by county of residence, Oregon, 2013

County of residence	Total births	Low birthweight infants			Low birthweight rates ¹		
		Total low birthweight	Less than 1500 grams	1,500-2,499 grams	All low birthweight	Less than 1500 grams	1,500-2,499 grams
Total	45,136	2,845	448	2,397	63.0	9.9	53.1
Baker	180	9	1	8	50.0	5.6	44.4
Benton	650	44	10	34	67.7	15.4	52.3
Clackamas	3,991	243	36	207	60.9	9.0	51.9
Clatsop	395	20	5	15	50.6	12.7	38.0
Columbia	500	23	6	17	46.0	12.0	34.0
Coos	609	34	7	27	55.8	11.5	44.3
Crook	192	11	1	10	57.3	5.2	52.1
Curry	195	9	—	9	46.2	—	46.2
Deschutes	1,723	109	9	100	63.3	5.2	58.1
Douglas	1,065	65	13	52	61.0	12.2	48.8
Gilliam	18	1	—	1	55.6	—	55.6
Grant	60	5	—	5	83.3	—	83.3
Harney	90	6	1	5	67.4	11.2	56.2
Hood River	282	17	5	12	60.3	17.7	42.6
Jackson	2,331	139	14	125	59.6	6.0	53.6
Jefferson	301	21	4	17	69.8	13.3	56.5
Josephine	837	44	10	34	52.6	11.9	40.6
Klamath	783	57	7	50	72.9	9.0	63.9
Lake	82	7	—	7	85.4	—	85.4
Lane	3,526	262	41	221	§ 74.3	11.6	§ 62.7
Lincoln	422	32	3	29	75.8	7.1	68.7
Linn	1,424	91	15	76	64.0	10.5	53.4
Malheur	470	27	2	25	57.4	4.3	53.2
Marion	4,284	290	52	238	67.7	12.1	55.6
Morrow	129	9	—	9	69.8	—	69.8
Multnomah	9,430	603	101	502	64.0	10.7	53.2
Polk	850	44	13	31	51.8	15.3	36.5
Sherman	11	—	—	—	—	—	—
Tillamook	234	20	3	17	85.5	12.8	72.6
Umatilla	1,146	76	13	63	66.3	11.3	55.0
Union	319	29	4	25	90.9	12.5	78.4
Wallowa	68	3	—	3	44.1	—	44.1
Wasco	299	12	5	7	40.1	16.7	§ 23.4
Washington	7,186	417	61	356	58.0	8.5	49.5
Wheeler	12	1	—	1	83.3	—	83.3
Yamhill	1,042	65	6	59	62.4	5.8	56.6

— 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 five events are unreliable.

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

TABLE 2-31. Weight gain of mother by period of gestation and race/ethnicity of mother, Oregon resident births, 2013

Period of gestation ¹ and race/ethnicity ² of mother	All births ³	Mother's weight gain during pregnancy						
		Weight loss	1-10 pounds	11-20 pounds	21-30 pounds	31-40 pounds	41+ pounds	Not stated
All gestation periods								
Total births	45,136	794	2,262	6,411	12,004	11,704	10,252	1,709
White	31,107	519	1,318	3,984	8,114	8,548	7,737	887
African American	923	24	77	152	212	185	191	82
American Indian	551	9	42	97	119	115	146	23
Asian	2,120	12	67	300	700	607	297	137
Hawaiian/Pacific Islander	293	5	21	51	60	49	79	28
Other/unknown	280	5	14	44	73	64	54	26
Multiple races	1,422	26	59	199	351	363	381	43
Hispanic	8,440	194	664	1,584	2,375	1,773	1,367	483
Under 37 weeks								
Total births	3,430	97	224	676	856	646	679	252
White	2,273	68	124	394	569	483	508	127
African American	100	1	7	30	17	13	19	13
American Indian	61	1	10	23	10	2	12	3
Asian	163	—	7	30	52	33	22	19
Hawaiian/Pacific Islander	28	1	6	6	4	5	1	5
Other/unknown	30	—	1	8	6	4	4	7
Multiple races	120	4	3	29	33	23	22	6
Hispanic	655	22	66	156	165	83	91	72
37 - 40 weeks								
Total births	36,359	643	1,879	5,202	9,853	9,491	8,067	1,224
White	24,904	416	1,092	3,245	6,616	6,861	6,058	616
African American	695	20	62	100	162	140	154	57
American Indian	447	8	29	71	99	104	116	20
Asian	1,739	12	59	250	582	503	227	106
Hawaiian/Pacific Islander	234	2	14	42	50	37	68	21
Other/unknown	222	5	12	32	64	51	40	18
Multiple races	1,143	20	55	154	284	299	302	29
Hispanic	6,975	160	556	1,308	1,996	1,496	1,102	357
41 weeks and over								
Total births	5,302	54	156	527	1,280	1,558	1,501	226
White	3,900	35	101	342	917	1,198	1,168	139
African American	127	3	8	22	33	31	18	12
American Indian	43	—	3	3	10	9	18	—
Asian	215	—	1	19	66	70	48	11
Hawaiian/Pacific Islander	30	2	1	3	6	7	10	1
Other/unknown	27	—	1	4	3	9	9	1
Multiple races	159	2	1	16	34	41	57	8
Hispanic	801	12	40	118	211	193	173	54

— 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.

TABLE 2-32. Percent low birthweight by weight gain of mother, period of gestation, and race/ethnicity of mother, Oregon residents, 2013

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	10.8	9.0	8.7	6.2	4.7	4.8	12.5
White	5.9	10.6	8.6	8.5	5.9	4.6	4.6	12.2
African American	10.3	8.3	13.0	17.1	6.6	6.5	9.9	14.6
American Indian	8.2	—	11.9	15.5	8.4	3.5	4.8	17.4
Asian	7.8	—	14.9	11.3	7.9	6.3	5.1	10.2
Hawaiian/Pacific Islander	10.6	20.0	23.8	11.8	8.3	8.2	5.1	21.4
Other/unknown	10.0	—	7.1	15.9	6.8	3.1	11.1	28.0
Multiple races	7.0	15.4	5.1	7.5	8.5	6.1	5.8	9.3
Hispanic	6.4	12.4	8.6	7.4	6.2	4.1	4.8	12.2
Under 37 weeks								
Total births	57.2	63.9	66.4	59.3	57.4	52.6	50.7	69.3
White	56.7	61.8	65.3	61.9	55.8	53.4	50.6	70.1
African American	68.0	100.0	85.7	76.7	52.9	30.8	78.9	76.9
American Indian	47.5	—	50.0	43.5	50.0	50.0	41.7	100.0
Asian	66.3	—	85.7	73.3	65.4	60.6	54.5	73.7
Hawaiian/Pacific Islander	60.7	100.0	66.7	50.0	75.0	40.0	100.0	60.0
Other/unknown	69.0	—	100.0	87.5	66.7	50.0	50.0	66.7
Multiple races	55.0	75.0	33.3	44.8	60.6	56.5	54.5	66.7
Hispanic	55.7	68.2	67.7	50.6	60.0	48.2	44.0	65.3
37 - 40 weeks								
Total births	2.4	3.7	2.9	3.0	2.4	2.2	1.8	3.1
White	2.2	3.1	2.8	2.9	2.3	2.0	1.6	2.8
African American	3.9	5.0	6.5	3.0	3.1	5.7	2.6	3.5
American Indian	3.6	—	—	7.0	5.1	2.9	1.7	5.0
Asian	3.3	—	6.8	4.8	3.4	3.6	1.3	—
Hawaiian/Pacific Islander	6.0	—	7.1	7.1	4.0	5.4	4.4	14.3
Other/unknown	3.2	—	—	—	1.6	—	7.5	16.7
Multiple races	3.0	5.0	3.6	1.3	3.5	3.0	3.3	—
Hispanic	2.5	5.6	2.3	2.8	2.4	2.1	2.2	3.4
41 weeks and over								
Total births	0.3	—	0.6	0.4	0.5	—	0.2	0.9
White	0.3	—	1.0	0.3	0.5	—	0.2	1.4
African American	—	—	—	—	—	—	—	—
American Indian	—	—	—	—	—	—	—	—
Asian	0.5	—	—	—	1.5	—	—	—
Hawaiian/Pacific Islander	—	—	—	—	—	—	—	—
Other/unknown	—	—	—	—	—	—	—	—
Multiple races	—	—	—	—	—	—	—	—
Hispanic	0.4	—	—	0.8	0.5	—	0.6	—

— Quantity is zero.

¹ Expressed in complete weeks.

² Single mention race and Hispanic ethnicity.

³ The subtotals for gestation period may not add to the total because of births of unknown gestation periods.

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

TABLE 2-33. Live births with selected abnormal conditions of the newborn by age of mother, Oregon residents, 2013

Conditions of newborn	Total births	Mother's age							N.S.	
		<15	15-19	20-24	25-29	30-34	35-39	40-44		45+
Total births	45,136	15	2,595	9,507	12,978	12,646	6,015	1,282	94	4
Immediate ventilation	2,316	-	171	470	628	632	328	81	6	-
Ventilator > 6 hrs.	865	-	45	171	234	244	133	36	2	-
Admission to NICU	3,187	-	195	600	850	911	491	127	13	-
Surfactant therapy	186	-	12	45	52	49	24	2	2	-
Antibiotics	1,379	-	107	310	381	365	169	43	4	-
Seizures	28	-	-	9	9	6	2	2	-	-
No condition noted	40,451	15	2,273	8,545	11,701	11,363	5,358	1,113	79	4

- Quantity is zero.

N.S. = Not stated.

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

TABLE 2-34. Live births with selected abnormal conditions of the newborn by race of mother, Oregon residents, 2013

Conditions of newborn	Total births	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ NS ¹	Hispanic ²
Single mention race								
Total births	45,136	31,107	923	551	2,120	293	1,702	8,440
Immediate ventilation	2,316	1,660	68	42	85	20	94	347
Ventilator > 6 hrs.	865	602	28	12	38	7	34	144
Admission to NICU	3,187	2,182	96	42	156	35	144	532
Surfactant therapy	186	136	6	2	5	2	8	27
Antibiotics	1,379	884	30	22	82	11	74	276
Seizures	28	23	2	-	-	-	1	2
No condition noted	40,451	27,900	795	480	1,902	242	1,487	7,645
Multiple mention race								
Immediate ventilation	2,316	2,003	88	103	110	28	86	347
Ventilator > 6 hrs.	865	735	35	35	50	7	41	144
Admission to NICU	3,187	2,705	131	117	206	45	136	532
Surfactant therapy	186	158	6	4	8	2	13	27
Antibiotics	1,379	1,160	46	64	104	16	63	276
Seizures	28	26	2	-	1	-	-	2
No condition noted	40,451	34,885	1,209	1,276	2,383	387	2,037	7,645

- Quantity is zero.

¹ NS = Not stated.

² For single mention race, Hispanic includes any race.

**TABLE 2-35. Congenital anomalies by age of mother,
Oregon resident births, 2013**

Reported congenital anomaly	All ages ¹	Age of mother					
		<20	20-24	25-29	30-34	35-39	40+
Total births	45,136	2,610	9,507	12,978	12,646	6,015	1,376
No congenital anomaly reported	44,857	2,597	9,448	12,905	12,567	5,976	1,360
Anencephalus	2	–	1	1	–	–	–
Spina bifida	9	1	2	2	3	–	1
Heart disease	63	4	15	16	18	9	1
Hypospadias	38	2	11	10	11	4	–
Hernia	11	–	3	2	3	2	1
Omphalocele	3	–	–	1	1	1	–
Gastroschisis	17	1	10	2	4	–	–
Limb reduction defect	4	–	2	–	1	1	–
Cleft lip	34	2	8	9	11	4	–
Cleft palate alone	14	1	2	5	4	1	1
Down syndrome (confirmed)	12	–	1	4	3	3	1
Down syndrome (suspected)	43	2	4	10	12	9	6
Chromosomal disorder (confirmed)	12	1	–	3	3	3	2
Chromosomal disorder (suspected)	36	2	3	10	14	5	2

– Quantity is zero.

¹ Total includes mothers with unstated age.

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

TABLE 2-36. County of occurrence by type of institution and delivery attendant, Oregon occurrence births, 2013

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	45,591	43,889	33,207	2,578	7,929	166	9
Baker	153	146	146	—	—	—	—
Benton	1,017	987	547	41	398	1	—
Clackamas	4,532	4,428	2,546	105	1,776	1	—
Clatsop	420	416	349	—	55	12	—
Columbia	10	—	—	—	—	—	—
Coos	678	670	338	145	184	3	—
Crook	1	—	—	—	—	—	—
Curry	35	29	12	—	17	—	—
Deschutes	2,116	2,045	1,817	196	19	13	—
Douglas	908	893	677	—	216	—	—
Gilliam	—	—	—	—	—	—	—
Grant	52	43	43	—	—	—	—
Harney	67	66	51	15	—	—	—
Hood River	467	460	416	13	31	—	—
Jackson	2,486	2,371	1,767	319	279	6	—
Jefferson	182	180	178	—	—	2	—
Josephine	806	752	633	95	16	8	—
Klamath	787	786	784	—	—	—	2
Lake	70	68	51	17	—	—	—
Lane	3,822	3,582	3,224	1	326	29	2
Lincoln	340	323	281	14	27	1	—
Linn	926	875	770	105	—	—	—
Malheur	614	611	254	228	129	—	—
Marion	4,820	4,744	3,900	218	593	33	—
Morrow	2	1	—	—	—	1	—
Multnomah	10,730	10,181	7,469	634	2,036	40	2
Polk	17	—	—	—	—	—	—
Sherman	1	—	—	—	—	—	—
Tillamook	177	168	167	—	—	1	—
Umatilla	844	832	829	1	—	1	1
Union	290	269	139	128	—	2	—
Wallowa	62	60	60	—	—	—	—
Wasco	280	277	156	64	53	4	—
Washington	6,746	6,603	4,886	239	1,469	7	2
Wheeler	1	—	—	—	—	—	—
Yamhill	1,132	1,023	717	—	305	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 2-36. County of occurrence by type of institution and delivery attendant, Oregon occurrence births, 2013 (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	1,702	6	350	226	898	123	3	96
Baker	7	–	–	–	2	5	–	–
Benton	30	–	–	–	28	1	–	1
Clackamas	104	1	24	20	36	17	–	6
Clatsop	4	–	–	–	3	–	–	1
Columbia	10	–	1	1	5	2	–	1
Coos	8	–	1	–	–	5	–	2
Crook	1	–	–	–	1	–	–	–
Curry	6	–	2	–	1	3	–	–
Deschutes	71	–	–	–	65	1	–	5
Douglas	15	–	1	–	3	8	–	3
Gilliam	–	–	–	–	–	–	–	–
Grant	9	–	–	–	9	–	–	–
Harney	1	–	–	–	–	–	–	1
Hood River	7	–	–	1	1	3	–	2
Jackson	115	1	1	9	89	10	–	5
Jefferson	2	–	–	–	1	–	–	1
Josephine	54	2	9	1	32	9	–	1
Klamath	1	–	–	–	1	–	–	–
Lake	2	–	–	–	–	–	–	2
Lane	240	–	138	–	63	24	–	15
Lincoln	17	–	–	–	15	–	–	2
Linn	51	–	–	–	44	5	–	2
Malheur	3	–	–	–	–	–	–	3
Marion	76	–	17	6	36	11	–	6
Morrow	1	–	1	–	–	–	–	–
Multnomah	549	–	88	146	296	3	2	14
Polk	17	1	2	–	11	–	–	3
Sherman	1	–	–	–	1	–	–	–
Tillamook	9	–	–	1	8	–	–	–
Umatilla	12	–	–	4	2	2	–	4
Union	21	–	–	8	8	5	–	–
Wallowa	2	–	–	–	2	–	–	–
Wasco	3	–	–	–	–	3	–	–
Washington	143	1	8	24	88	6	1	15
Wheeler	1	–	–	–	1	–	–	–
Yamhill	109	–	57	5	46	–	–	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 2-37. Delivery method by day of birth,
mother's age, race/ethnicity, and payment source (percents),
Oregon resident births, 2013**

Characteristics	Total births	Vaginal	Vaginal after previous C-section	Primary C-section	Repeat C-section
Day of birth					
All births	45,136	31,443	1,073	7,520	5,100
Sunday	4,962	75.9	2.8	14.6	6.7
Monday	6,597	67.1	2.1	16.7	14.1
Tuesday	7,231	68.1	2.5	17.3	12.1
Wednesday	6,930	68.7	2.1	16.7	12.5
Thursday	6,964	69.0	2.4	17.2	11.4
Friday	7,117	66.9	2.2	17.7	13.2
Saturday	5,335	75.1	2.8	15.6	6.6
Mother's age					
<15	15	73.3	—	26.7	—
15-19	2,595	82.4	0.4	15.4	1.8
20-24	9,507	76.0	1.3	15.0	7.7
25-29	12,978	71.2	2.3	15.5	11.0
30-34	12,646	66.9	2.9	17.1	13.1
35-39	6,015	60.2	3.8	19.5	16.5
40-44	1,282	54.9	2.9	24.7	17.5
45+	94	40.4	3.2	29.8	26.6
N.S.	4	100.0	—	—	—
Single mention race/ethnicity					
White	31,107	70.2	2.0	17.1	10.6
African American	923	65.0	3.8	18.7	12.5
American Indian	551	67.0	1.5	16.2	15.4
Asian	2,120	64.4	2.8	20.4	12.4
Hawaiian/Pacific Islander	293	61.8	2.4	19.5	16.4
Other/unknown	280	72.9	1.4	13.6	12.1
Multiple races	1,422	69.4	2.4	16.8	11.4
Hispanic	8,440	69.8	3.5	13.8	12.9
Payment source					
Medicaid/OHP*	19,587	69.9	2.6	14.8	12.6
Private insurance	23,693	68.6	2.2	18.7	10.5
Self-pay	1,055	84.6	3.0	7.5	4.8
Other coverage	648	71.9	1.5	15.4	11.1
Unknown mention	153	81.7	4.6	11.1	2.6
Body mass index in kg/m					
Underweight (< 18.5)	1,460	80.3	2.3	11.8	5.6
Normal (18.5 - 24.9)	21,119	74.9	2.2	14.7	8.3
Overweight (25.0 - 29.9)	10,880	69.1	2.6	16.7	11.6
Obese (> 30.0)	10,426	58.4	2.5	21.4	17.7
Unknown	1,251	67.8	3.4	16.1	12.8

— Quantity is zero.

* Oregon Health Plan.

Table 2-38: Planned attendant by planned place of birth, Oregon occurrence, 2013

Planned birth attendant ¹	Total births ²	Planned hospital birth	Planned out-of-hospital birth		
			Total	Intrapartum transfer to hospital	Neonatal transfer
Total births	45,591	43,624	1,876	265	38
All gestation periods³					
Total	45,591	43,624	1,876	265	38
M.D.s and D.O.s	35,604	35,598	—	—	—
Certified nurse midwives	8,316	7,854	457	112	10
Licensed direct-entry midwives	966	—	954	68	21
Unlicensed direct-entry midwives	167	—	165	44	3
Naturopathic physicians	238	—	238	12	3
Other	300	172	62	29	1
Under 37 weeks					
Total	3,467	3,441	17	8	1
M.D.s and D.O.s	3,228	3,227	—	—	—
Certified nurse midwives	209	204	5	4	—
Licensed direct-entry midwives	6	—	6	1	—
Unlicensed direct-entry midwives	4	—	4	3	1
Naturopathic physicians	2	—	2	—	—
Other	18	10	—	—	—
37-38 weeks					
Total	9,378	9,145	214	35	6
M.D.s and D.O.s	7,646	7,644	—	—	—
Certified nurse midwives	1,515	1,457	58	16	1
Licensed direct-entry midwives	96	—	95	7	3
Unlicensed direct-entry midwives	13	—	13	5	1
Naturopathic physicians	35	—	35	1	—
Other	73	44	13	6	1
39-40 weeks					
Total	27,339	26,085	1,203	138	20
M.D.s and D.O.s	21,107	21,104	—	—	—
Certified nurse midwives	5,193	4,882	307	60	7
Licensed direct-entry midwives	626	—	616	33	10
Unlicensed direct-entry midwives	103	—	102	20	1
Naturopathic physicians	146	—	146	7	2
Other	164	99	32	18	—
41 weeks and over					
Total	5,363	4,915	439	84	11
M.D.s and D.O.s	3,590	3,590	—	—	—
Certified nurse midwives	1,394	1,306	87	32	2
Licensed direct-entry midwives	236	—	235	27	8
Unlicensed direct-entry midwives	47	—	46	16	—
Naturopathic physicians	55	—	55	4	1
Other	41	19	16	5	—

— Quantity is zero.

¹ For planned hospital births, actual attendant type is used. For planned out-of-hospital births with intrapartum transfer to hospitals, planned attendant type is reported by mother and not verified.

² Total includes 91 births that occurred en route, were unplanned home deliveries, or were other out-of-hospital births not otherwise classified.

³ Includes reported clinical estimate of gestation in completed weeks and missing or unknown gestations.

Table 2-39: Maternal characteristics by planned place of birth, Oregon occurrence, 2013

Selected maternal characteristics	Total births ¹	Planned hospital birth			Planned out-of-hospital birth		
		Clinical estimate of gestation					
		<37	37-40	41+	<37	37-40	41+
Total births	45,591	3,441	35,230	4,915	17	1,417	439
Mother's age							
<20	2,627	202	2,096	302	1	17	3
20-24	9,613	668	7,666	1,040	2	163	51
25-29	13,100	947	10,092	1,476	3	423	124
30-34	12,775	925	9,678	1,473	6	484	172
35-39	6,088	542	4,612	546	5	281	76
40+	1,386	157	1,086	78	–	49	13
Single mentioned race							
White	31,496	2,299	23,922	3,552	14	1,227	391
African American	931	100	691	125	–	9	2
American Indian	561	63	444	38	–	10	5
Asian/Hawaiian/Pacific Islander	2,437	188	1,961	241	–	36	5
Other/multiple races	1,698	144	1,292	162	1	61	26
Hispanic	8,468	647	6,920	797	2	74	10
Marital status							
Married	29,364	2,067	22,442	3,231	12	1,176	364
Unmarried	16,216	1,373	12,781	1,684	5	241	75
Mother's education							
8th grade or less	1,656	142	1,345	154	–	5	5
Some high school	5,248	414	4,276	489	1	34	11
High school graduate/GED	10,135	792	7,974	970	5	278	77
Some college	11,347	893	8,804	1,107	6	391	122
Associate's degree	3,620	258	2,875	348	1	106	28
Bachelor's degree	8,420	590	6,157	1,134	2	388	128
Postbaccalaureate	4,919	327	3,624	687	1	207	63
Source of payment							
Medicaid/Oregon Health Plan	19,581	1,524	15,696	1,881	7	304	105
Private insurance	23,994	1,771	18,443	2,885	7	656	190
Self-pay	1,089	68	366	54	3	438	140
Other coverage	786	69	627	80	–	8	1
Birth order							
1st	18,422	1,304	13,370	3,030	4	495	192
2nd	14,622	991	11,862	1,102	7	490	125
3rd	7,311	574	5,970	448	1	221	70
4th +	5,236	572	4,028	335	5	211	52
Pre-pregnancy body mass index							
Underweight (< 18.5)	1,477	148	1,136	121	1	48	19
Normal (18.5 - 24.9)	21,380	1,426	16,307	2,418	7	904	255
Overweight (25.0 - 29.9)	11,033	808	8,635	1,184	6	281	96
Obese (> 30.0)	10,467	898	8,280	1,038	3	159	63
Maternal tobacco use							
Tobacco use	4,605	484	3,660	402	1	25	8
No tobacco use	40,751	2,935	31,409	4,479	16	1,384	426
Initiation of care							
1st trimester	34,917	2,626	27,425	3,618	13	924	259
2nd trimester	7,993	540	5,896	988	4	387	142
3rd trimester	1,640	73	1,239	216	–	79	24
No care	283	64	142	21	–	20	10
Prenatal care³							
Adequate	41,446	2,832	32,360	4,469	15	1,298	394
Inadequate	2,488	330	1,708	263	2	106	40

– Quantity is zero.

¹ Total includes 91 births that occurred en route, were unplanned home deliveries, or other out-of-hospital births not otherwise classified.

² Non-Hispanic single mention race. The Hispanic category may include any mention of race.

³ Adequate care: Care that began in the first or second trimester and included at least five visits.

Inadequate care: No care, or care that began in the third trimester or fewer than five visits.

Table 2-40 Characteristics of labor & delivery, and maternal & infant health characteristics by planned place of birth, Oregon occurrence, 2013

Selected medical and health characteristics	Total births ¹	Planned hospital birth			Planned out-of-hospital birth		
		Clinical estimate of gestation					
		<37	37-40	41+	<37	37-40	41+
Total births	45,591	3,441	35,230	4,915	17	1,417	439
Characteristics of labor and delivery							
Premature rupture of the membrane ²	3,099	642	1,917	405	4	100	27
Precipitous labor ³	2,479	199	1,838	182	1	168	40
Prolonged labor ⁴	1,369	64	899	268	—	84	52
Induction/augmentation of labor	20,708	1,039	16,158	3,333	1	103	64
Epidural/spinal anesthesia	26,945	1,778	21,613	3,379	2	107	50
Non-vertex presentation	2,291	688	1,486	90	2	15	8
Antepartum/intrapartum transfer	739	379	74	20	8	173	85
Moderate/heavy meconium staining	2,190	38	1,562	509	—	44	35
Fetal intolerance of labor	1,696	146	1,160	350	1	27	12
Chorioamnionitis	1,002	63	701	221	1	8	7
Neonatal transfer	507	204	223	36	1	26	11
Method of delivery							
Vaginal	30,377	1,642	23,499	3,412	13	1,306	389
Forceps	243	15	174	51	—	2	1
Vacuum	1,132	45	887	195	—	5	—
VBAC ⁵	1,068	95	808	105	1	40	14
Primary cesarean	7,645	1,188	5,320	1,041	3	59	31
Repeat cesarean	5,126	456	4,542	111	—	5	4
Maternal conditions							
Multiples	1,526	832	684	—	—	10	—
Diabetes-chronic	421	99	317	4	—	—	1
Diabetes-gestational	3,436	407	2,860	126	—	26	10
Hypertension-chronic	733	161	540	25	—	5	2
Hypertension-gestational	2,783	508	2,101	146	—	20	6
Eclampsia	361	157	186	12	—	4	1
Group B streptococcal test	42,764	2,779	34,001	4,801	8	852	251
Maternal transfusion	269	65	160	31	—	12	1
3 rd or 4 th degree perineal laceration	507	6	394	94	—	6	5
Ruptured uterus	14	3	9	2	—	—	—
Unplanned hysterectomy	26	8	18	—	—	—	—
Admission to intensive care	67	18	43	5	—	1	—
Unplanned operating room procedure	330	40	233	45	—	6	4
Characteristics of infant							
Immediate assisted ventilation	2,359	884	1,186	207	4	44	27
Assisted ventilation 6+ hours	870	615	218	23	4	5	3
Admission to NICU	3,226	1,868	1,147	164	5	23	8
Surfactant therapy	194	162	24	2	1	3	—
Antibiotics	1,395	547	664	158	2	14	5
Seizure	29	6	17	3	—	—	3

— Quantity is zero.

¹ Total includes 91 births that were unplanned home deliveries, occurred en route, or were out-of-hospital births not otherwise classified.

² Total also includes 41 births with unknown gestation.

³ Rupture of the membranes \geq 12 hours.

⁴ Precipitous labor < 3 hours.

⁵ Prolonged labor \geq 20 hours.

⁵ Vaginal birth after a cesarean section.

SECTION 3: INDUCED TERMINATION OF PREGNANCY

Induced termination of pregnancy

Current trends

During 2013, 8,287 induced terminations of pregnancy occurred in Oregon. This total represents an 8.1% decrease from 2012, and a decrease of 47.3% from the record high of 15,735 abortions reported in 1980 (see Figure 3-1).

This chapter reports data for all abortions occurring in Oregon whether obtained by Oregon residents or residents of another state. The percentage of out-of-state residents terminating pregnancies in Oregon has been between 9.4% and 12.6% from 1992 to the present. In 2013, 777 patients (9.4%) were out-of-state residents (see Table 3-6). Oregonians that obtained out-of-state abortions are not included in these data. Because rate calculations use Oregon population numbers, they substitute out-of-state residents for the unknown number of Oregonians that obtained an abortion in another state (see Appendix B: “Technical notes,” 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 national abortion rate has been declining since 1980 from approximately 25 per 1,000 women aged 15–44 to 14.6 per 1,000 in 2010, the most recent data available.¹

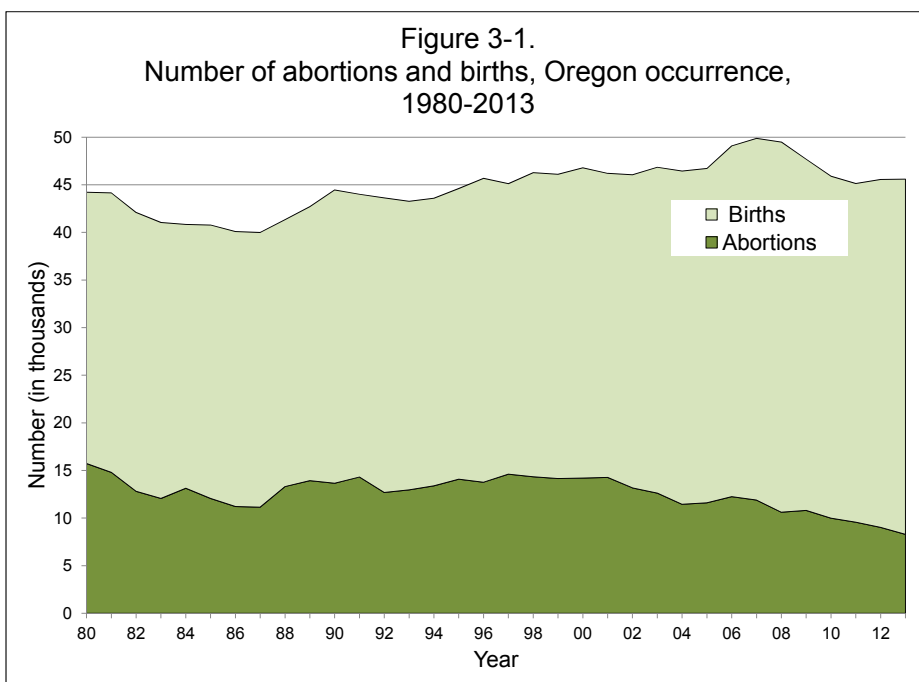


Table 3-A. Comparison of Oregon and U.S. abortion ratios, 1980-2010		
Year	U.S. abortion ratio ¹	Oregon's abortion ratio ² as percent difference from U.S.
1980	359	-1%
1981	**	**
1982	354	-14%
1983	**	**
1984	364	-12%
1985	354	-16%
1986	354	-21%
1987	356	-21%
1988	352	-9%
1989	346	-6%
1990	344	-11%
1991	338	-4%
1992	334	-13%
1993	333	-10%
1994	321	-4%
1995	311 ³	+2%
1996	315	-4%
1997	306	+6%
1998	264 ³	+17%
1999	256 ³	+12%
2000	245 ⁴	+24%
2001	246 ⁴	+25%
2002	246 ⁴	+16%
2003	241 ⁵	+12%
2004	238 ⁵	+3.5%
2005	233 ⁶	+6.6%
2006	236 ⁷	+5.7%
2007	231 ⁷	+4.2%
2008	234 ⁷	-8.4%
2009	227 ⁸	-0.2%
2010	*228 ⁷	-4.6%

¹ CDC. Abortion Surveillance - United States, 2010. MMWR, Nov. 29, 2013; V62, No. 8.

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

⁸ California, Delaware, Maryland, and New Hampshire did not report

* Most recent data available

** Data not available

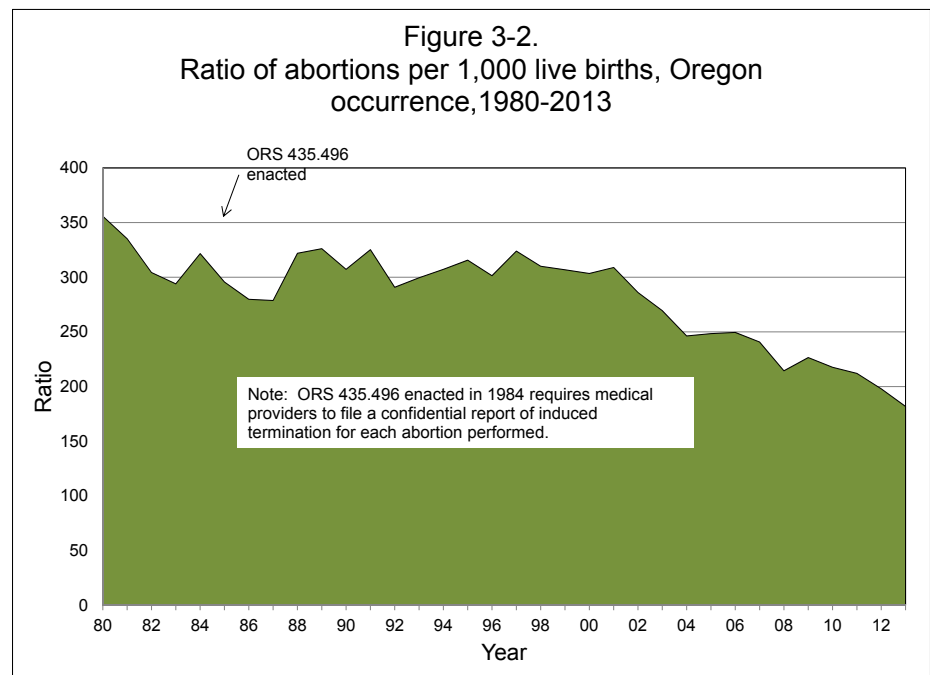
In 2013, the Oregon rate decreased to 10.6 per 1,000 women aged 15–44, a 9.4% decrease from 2012, and a 57.8% decrease from the record high seen in 1980 (25.1 per 1,000). During the past 20 years, Oregon’s abortion rate for women aged 15–44 has generally declined — from a high of 21.4 in 1991 to a low in 2013 of 10.6 per 1,000 women.

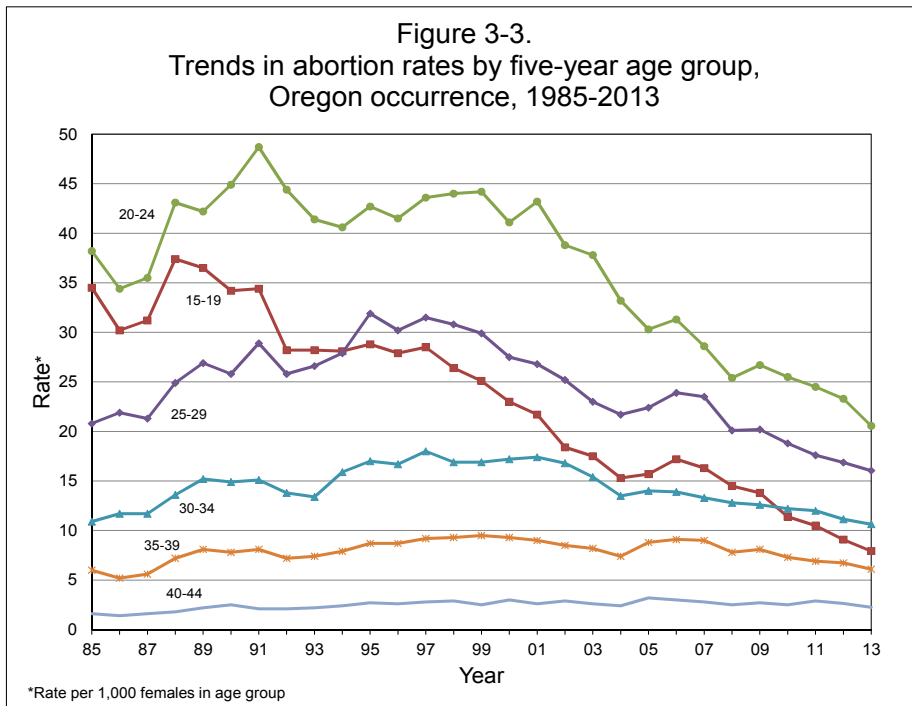
Pregnancy outcomes

Figure 3-2 shows the ratio of abortions to births occurring in Oregon. It indicates 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. In 1984, the level of reporting increased due to new legislation that required providers to report all abortions performed. Although there have been periodic spikes in the overall abortion ratio (see Figure 3-2), it has been gradually declining since 1980.

In 2013, there were 181.8 abortions per 1,000 occurrence births. This represents an 8.1% decrease from 2012 and a 48.9% 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 United States in 1973, when the U.S. Supreme Court’s decision in *Roe v. Wade* legalized abortion. In the mid-1980s, this trend changed as Oregonians terminated fewer





pregnancies with induced abortions compared to the country as a whole. This trend reversed itself beginning in the late 1990s, as Oregon’s abortion ratio climbed past the national rate, reaching a maximum divergence of +25% in 2001. Since the mid-2000s, however, Oregon’s abortion ratio has fluctuated near the national ratio (see sidebar Table 3-A).

Abortion patients

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

Age

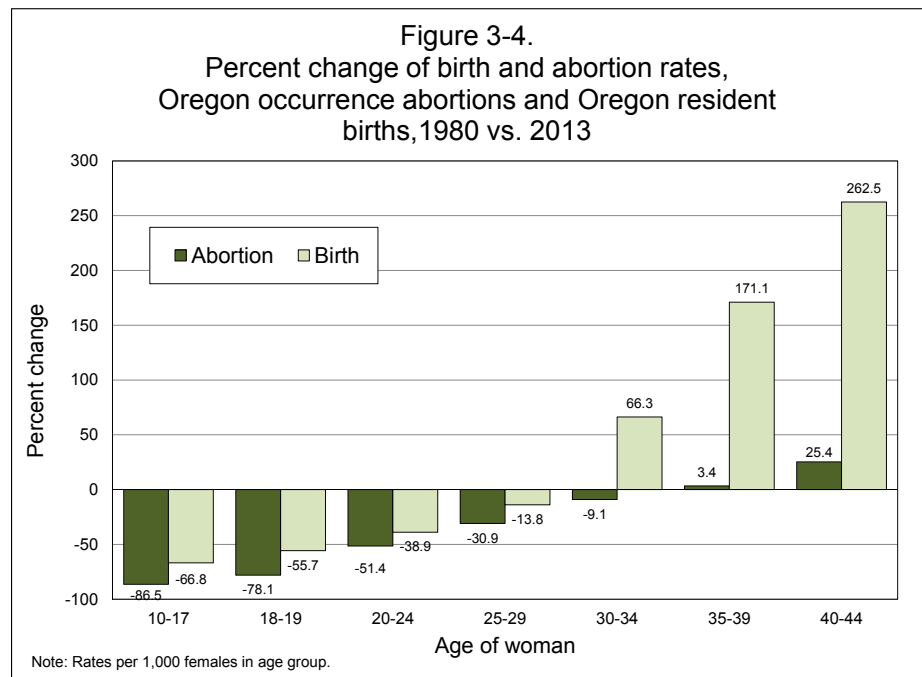
There is wide variation in abortion rates among age groups (see Figure 3-3). The highest rate in 2013 occurred among women aged 20–24 (20.6 per 1,000). The lowest rates were among women under age 15 (0.1 per 1,000) and women 45–49 (0.2 per 1,000; see sidebar Table 3-B).

The 2013 abortion rate among teens aged 10–17 was 86.5% lower than the rate in 1980, when the statewide abortion rate was highest; the rate for 18–19-year-olds was 78.1% lower (see Figure 3-4). The absence of a corresponding

Age	Rate ²	%
<15	0.1	0.2
15-19	7.9	11.9
20-24	20.6	31.4
25-29	16.0	26.1
30-34	10.6	17.1
35-39	6.1	9.6
40-44	2.3	3.5
45-49	0.2	0.3
15-44	10.6	99.5

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

² Per 1,000 females in age group

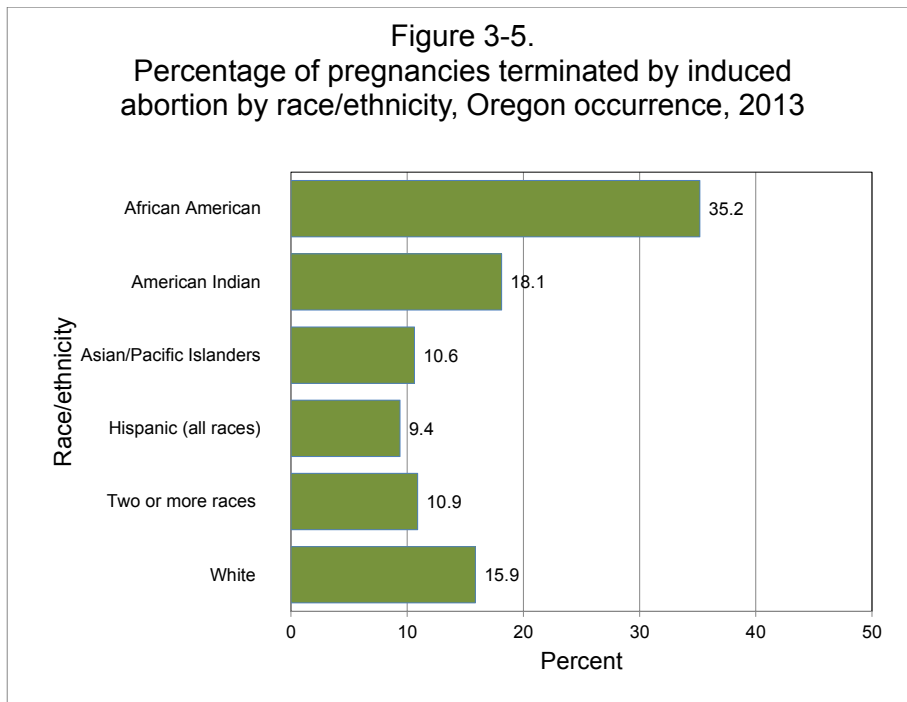


increase in the birth rates among teens suggests success in avoiding unwanted pregnancy, rather than an increase in decisions to carry unwanted pregnancies to term. In contrast, among women aged 35–49, abortion rates were only 3.4% lower in 2013 than in 1980.

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, pregnancy data (births and abortions) by race/ethnicity since 2008 are not directly comparable to years before 2008.

The frequency with which abortion procedures were used to terminate pregnancies varied among ethnic and racial groups. African American and American Indian women had the highest percentages of terminated pregnancies in 2013 with 35.2% and 18.1%, respectively. Because of Oregon's predominately White demographic composition, White women obtained the majority of abortions by count in 2013; however, they had the third highest percentage of terminations overall, 54.8% lower than African American



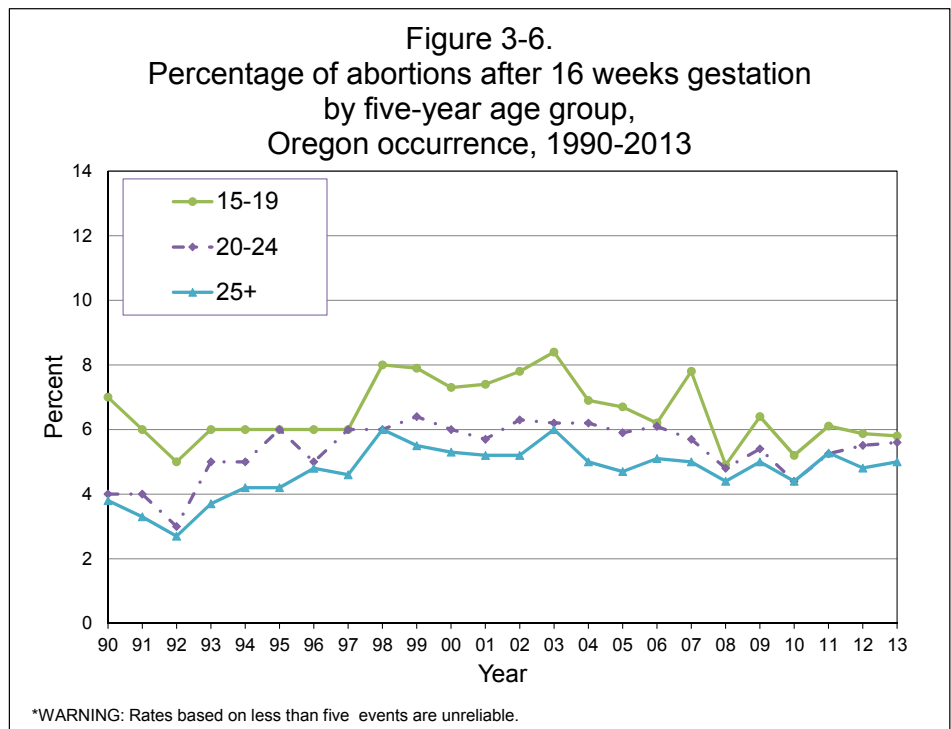
women. The lowest percentage of terminated pregnancies was for women of Hispanic ethnicity that terminated 9.4% of pregnancies in 2013 (see Figure 3-5).

Contraceptive use

In the majority of abortions that occur in Oregon, the pregnancy is not a result of contraceptive failure. In 2013, based upon data obtained from abortion reports, 26.1% of women used some method of contraception to avoid pregnancy. Of the 73.9% of abortion patients that did not report using contraceptives, 40.2% had previously obtained an abortion (see Table 3-5).

Medical procedures

For abortions with known gestation periods, 87.5% were performed prior to the 13th week of pregnancy. About one in 20 (5.3%) induced terminations where gestation was known were performed after 16 weeks. Suction curettage was the procedure used in 47.9% of terminations prior to the 13th week where method was reported. Dilation and evacuation was the procedure in 89.3% of terminations occurring after 16 weeks gestation. Women younger than 20 obtained 12.6% 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 aged 15–19, but increased for all other age groups (see Figure 3-6).

Complications at the time of the induced termination procedure were reported for 211 terminations (2.5% of abortion patients). Retained products (83 patients) and failure of first method (25 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 34 of 36 counties reporting at least one resident that obtained an abortion in 2013. Service providers, conversely, were geographically concentrated. In 2013, abortions were reported in 10 counties. The concentration was evident in the fact that 94.5% 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. Centers for Disease Control and Prevention (CDC).
Abortion surveillance — United States, 2010. MMWR.
Nov.29, 2013; V62, No. 8.

TABLE 3-1. Number, rate, and percent change for pregnancies, births, and abortions to 15- to 44-year-olds, Oregon, selected years 1980-1990, 1995-2013

Year	Pregnancies ¹			Births ²			Abortions ³				
	No.	Rate	% change in rate from previous year	No.	Rate	% change in rate from previous year	No.	Rate	% change in rate from previous year	% of pregnancies ending in abortion	% change in percent from previous year
1980	58,592	94.4	1.6	43,007	69.3	0.3	15,585	25.1	5.3	26.6	3.7
1985	51,287	81.1	-2.9	39,364	62.2	-1.0	11,923	18.8	-9.1	23.2	-6.5
1990	56,315	85.8	1.3	42,741	65.2	3.0	13,754	20.7	-3.0	24.1	-4.4
1995	56,521	82.8	2.7	42,568	62.4	2.1	13,953	20.4	4.6	24.7	2.1
1996	57,175	83.1	0.4	43,515	63.2	1.3	13,660	19.9	-2.5	24.4	-1.2
1997	58,106	84.0	3.1	43,619	63.0	-0.3	14,487	20.9	5.0	24.9	2.0
1998	59,284	84.5	0.6	45,075	64.2	1.9	14,209	20.3	-2.9	24.0	-3.6
1999	59,067	84.2	-0.4	45,039	64.2	0.0	14,028	20.0	-1.5	23.7	-1.3
2000	59,758	82.4	-2.1	45,654	62.9	-2.0	14,104	19.4	-3.0	23.6	-0.4
2001	59,348	81.0	-1.7	45,177	61.6	-2.1	14,171	19.3	-0.5	23.9	1.3
2002	58,172	78.6	-3.0	45,071	60.9	-1.1	13,101	17.7	-8.3	22.5	-5.9
2003	58,337	77.9	-0.9	45,799	61.2	0.5	12,538	16.7	-5.6	21.5	-4.4
2004	56,865	74.9	-3.9	45,508	60.0	-2.0	11,357	15.0	-10.2	20.0	-7.0
2005	57,271	77.9	4.0	45,776	62.2	3.7	11,495	15.6	4.0	20.1	0.5
2006	60,678	81.9	5.1	48,539	65.5	5.3	12,139	16.4	5.1	20.0	-0.5
2007	60,885	81.7	-0.2	49,211	66.0	0.8	11,674	15.7	-4.3	19.2	-4.2
2008	59,496	78.4	-4.0	48,999	64.6	-2.2	10,497	13.8	-11.6	17.6	-8.0
2009	57,804	76.1	-2.9	47,070	62.0	-4.0	10,734	14.1	2.2	18.6	5.3
2010	55,395	73.1	-4.0	45,479	60.0	-3.2	9,916	13.1	-7.5	17.9	-3.6
2011	54,562	71.8	-1.8	45,040	59.3	-1.2	9,522	12.5	-4.6	17.5	-2.2
2012	53,845	70.5	-1.8	44,942	58.8	-0.8	8,903	11.7	-6.4	16.7	-4.6
2013	53,182	69.2	-1.8	45,023	58.6	-0.3	8,159	10.6	-9.4	15.3	-8.4

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.

Table 3-2. Live births and induced abortions occurring in Oregon, 1970, 1975-2013

Year	Births	Induced abortions	
		Number	Ratio
1970	36,031	7,187	199.5
1975	34,312	10,641	310.1
1976	35,612	12,590	353.5
1977	38,448	13,163	342.4
1978	40,015	13,605	340.0
1979	42,874	14,501	338.2
1980	44,223	*15,735	355.8
1981	44,150	14,799	335.2
1982	42,093	12,807	304.3
1983	41,047	12,064	293.9
1984	40,841	**13,133	321.6
1985	40,778	12,056	295.6
1986	40,093	11,217	279.8
1987	39,996	11,147	278.7
1988	41,345	13,309	321.9
1989	42,710	13,928	326.1
1990	44,464	13,658	307.2
1991	44,007	14,310	325.2
1992	43,627	12,685	290.8
1993	43,272	12,961	299.5
1994	43,591	13,392	307.2
1995	44,609	14,079	315.6
1996	45,677	13,767	301.4
1997	45,117	14,612	323.9
1998	46,277	14,344	310.0
1999	46,106	14,145	306.8
2000	46,790	14,194	303.4
2001	46,200	14,272	308.9
2002	46,053	13,172	286.0
2003	46,844	12,622	269.4
2004	46,453	11,443	246.3
2005	46,715	11,602	248.4
2006	49,089	12,246	249.5
2007	49,373	11,883	240.7
2008	49,492	10,610	214.4
2009	47,685	10,801	226.5
2010	45,904	9,990	217.6
2011	45,136	9,567	212.0
2012	45,566	9,016	197.9
2013	45,591	8,287	181.8

* 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, 2013

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	8,287	17	977	2,571	2,139	1,400	787	285	21	90
White	6,772	12	815	2,060	1,754	1,150	665	236	16	64
African American	617	1	83	218	153	101	48	6	–	7
American Indian	214	3	40	73	48	25	18	6	–	1
Chinese	69	–	4	21	13	10	10	7	3	1
Japanese	10	–	–	4	1	3	2	–	–	–
Hawaiian	27	–	3	11	8	4	1	–	–	–
Filipino	25	–	1	11	8	2	3	–	–	–
Other Asian/Pacific Islander ...	214	–	22	64	56	43	17	10	1	1
Other non-white	57	1	10	11	23	6	2	1	–	3
Unknown	240	1	23	95	60	28	17	9	–	7
Hispanic	874	5	122	283	227	125	72	26	1	13
White	681	3	102	205	179	102	58	24	1	7
African American	25	–	4	12	2	2	4	1	–	–
American Indian	27	1	6	10	4	4	1	1	–	–
Chinese	–	–	–	–	–	–	–	–	–	–
Japanese	–	–	–	–	–	–	–	–	–	–
Hawaiian	1	–	–	–	1	–	–	–	–	–
Filipino	–	–	–	–	–	–	–	–	–	–
Other Asian/Pacific Islander	8	–	–	3	1	3	1	–	–	–
Other non-white	26	1	1	6	11	3	1	–	–	3
Unknown	101	1	12	38	28	12	8	1	–	1
Non-Hispanic	7,316	12	840	2,265	1,883	1,257	709	257	20	73
White	6,028	9	702	1,840	1,557	1,036	601	212	15	56
African American	588	1	78	205	150	98	44	5	–	7
American Indian	185	2	32	63	44	21	17	5	–	1
Chinese	69	–	4	21	13	10	10	7	3	1
Japanese	10	–	–	4	1	3	2	–	–	–
Hawaiian	25	–	3	10	7	4	1	–	–	–
Filipino	25	–	1	11	8	2	3	–	–	–
Other Asian/Pacific Islander	206	–	22	61	55	40	16	10	1	1
Other non-white	31	–	9	5	12	3	1	1	–	–
Unknown	115	–	10	52	23	12	9	6	–	3
Ethnicity unknown	97	0	15	23	29	18	6	2	0	4
Marital status										
Never married	5,341	15	844	2,031	1,390	678	279	62	3	39
Now married	1,142	–	12	145	297	313	236	117	7	15
Widowed	28	–	–	2	4	7	7	6	1	1
Divorced	514	–	–	42	101	164	143	55	6	3
Separated	221	–	4	29	63	60	46	17	–	2
Unknown	1,041	2	117	322	284	178	76	28	4	30

– 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, 2013

Method, complications and age of patient	Total	Weeks gestation						
		< 9	9-12	13-16	17-20	21-22	23+	Unk.
Total	8,287	5,287	1,767	579	280	96	52	226
Suction curette	3,682	2,103	1,276	204	7	2	–	90
Medical (non-surgical)	2,385	2,219	78	11	11	3	4	59
Dilation & evacuation	2,163	932	410	362	255	84	43	77
Intra-uterine instillation	3	1	1	–	–	1	–	–
Vaginal prostaglandin	13	2	–	1	4	5	1	–
Sharp curettage	1	–	1	–	–	–	–	–
Other	35	25	1	1	3	1	4	–
Unknown	5	5	–	–	–	–	–	–
Complications								
None	8,075	5,118	1,743	572	279	94	51	218
Hemorrhage	2	–	1	–	–	–	–	1
Infection	7	5	2	–	–	–	–	–
Uterine perforation	1	1	–	–	–	–	–	–
Cervical laceration	2	1	1	–	–	–	–	–
Retained products	83	64	10	5	1	1	–	2
Failure of first method	25	21	3	–	–	–	–	1
Other	56	43	7	2	–	–	1	3
Multiple complications ¹	35	33	–	–	–	1	–	1
Unknown	1	1	–	–	–	–	–	–
Age groups								
< 15	17	7	5	2	–	2	–	1
15-19	977	569	253	75	40	8	7	25
20-24	2,571	1,605	570	184	94	30	16	72
25-29	2,139	1,390	461	133	61	28	15	51
30-34	1,400	930	272	99	45	14	5	35
35-39	787	532	129	59	27	12	6	22
40-44	285	184	60	20	11	1	2	7
45+	21	16	3	1	–	–	–	1
N.S.	90	54	14	6	2	1	1	12

– Quantity is zero.

¹ Patients having more than one complication are listed here. Their individual complications are not listed above.

TABLE 3-5. Contraceptive use, number of previous abortions, and number of living children by age of patient, Oregon occurrence, 2013

Contraceptive used, previous abortions, and number of living children	Total	Age groups								N.S.
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	
Total	8,287	17	977	2,571	2,139	1,400	787	285	21	90
None used	6,120	13	777	1,959	1,582	975	541	203	13	57
No previous abortion	3,560	13	650	1,283	813	434	231	101	4	31
One	1,405	–	86	439	398	264	152	50	3	13
Two	539	–	16	123	168	122	75	28	3	4
Three	241	–	5	36	89	69	27	10	2	3
Four or more	212	–	–	28	67	67	41	7	1	1
Pills used	678	–	75	219	187	118	51	16	3	9
No previous abortion	368	–	59	135	94	50	17	8	–	5
One	173	–	13	54	48	32	19	5	1	1
Two	61	–	1	13	21	16	6	2	1	1
Three	27	–	–	5	9	8	4	–	1	–
Four or more	20	–	–	3	8	5	1	1	–	2
Condoms used	1,031	4	103	273	251	214	122	45	3	16
No previous abortion	553	4	89	172	120	99	42	17	1	9
One	258	–	10	60	66	62	41	14	1	4
Two	99	–	1	17	22	29	23	5	–	2
Three	46	–	–	5	20	11	7	2	–	1
Four or more	44	–	–	7	13	11	7	6	–	–
Other contraceptive	515	–	26	138	133	108	76	23	2	9
No previous abortion	244	–	20	84	61	33	32	6	2	6
One	149	–	2	40	34	42	22	8	–	1
Two	57	–	3	8	13	16	12	5	–	–
Three	22	–	–	2	9	5	3	2	–	1
Four or more	26	–	–	2	11	5	7	–	–	1
Contraceptive use unknown ..	11	–	1	3	3	2	–	–	–	2
No previous abortion	7	–	1	3	1	1	–	–	–	1
One	2	–	–	–	–	1	–	–	–	1
Two	1	–	–	–	1	–	–	–	–	–
Three	–	–	–	–	–	–	–	–	–	–
Four or more	–	–	–	–	–	–	–	–	–	–
Number of living children										
No children ¹	3,806	17	818	1,472	865	388	169	38	5	34
Total with children	4,332	–	137	1,043	1,240	986	613	244	15	54
One	1,943	–	117	657	561	338	181	67	1	21
Two	1,459	–	16	297	444	361	218	92	9	22
Three	621	–	3	66	169	192	127	50	5	9
Four	207	–	1	18	41	71	56	20	–	–
Five or more	102	–	–	5	25	24	31	15	–	2

– Quantity is zero.

¹ Rows will not add to total due to some patients having an unknown number of children.

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, 2013

County of residence	Total	Age groups								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	8,287	17	977	2,571	2,139	1,400	787	285	21	90
Baker	7	–	–	1	1	2	2	1	–	–
Benton	127	–	18	56	27	11	10	5	–	–
Clackamas	611	–	75	193	142	102	63	27	1	8
Clatsop	61	–	13	19	12	10	5	2	–	–
Columbia	91	–	13	27	28	13	6	3	–	1
Coos	84	–	9	27	29	10	7	2	–	–
Crook	19	–	4	7	6	–	1	1	–	–
Curry	21	–	4	10	2	2	3	–	–	–
Deschutes	304	1	37	93	76	54	35	6	2	–
Douglas	130	–	21	41	37	17	7	6	–	1
Gilliam	2	*	*	*	*	*	*	*	*	*
Grant	6	–	1	2	1	–	2	–	–	–
Harney	4	–	–	1	1	1	–	–	1	–
Hood River	24	–	3	5	7	4	2	3	–	–
Jackson	357	4	46	102	84	69	38	10	–	4
Jefferson	29	–	9	7	7	4	1	1	–	–
Josephine	151	–	18	48	41	24	15	4	–	1
Klamath	88	–	14	29	25	14	2	3	–	1
Lake	6	–	–	–	3	2	1	–	–	–
Lane	737	1	79	254	197	117	56	23	2	8
Lincoln	81	1	10	17	23	17	11	1	–	1
Linn	141	–	24	47	27	25	11	7	–	–
Malheur	8	–	–	5	2	1	–	–	–	–
Marion	529	3	80	174	148	71	40	9	1	3
Morrow	2	–	–	–	–	1	1	–	–	–
Multnomah	2,557	4	231	764	686	491	245	94	6	36
Polk	81	–	13	34	12	7	11	3	1	–
Sherman	–	*	*	*	*	*	*	*	*	*
Tillamook	27	–	5	9	6	2	3	1	–	1
Umatilla	18	–	2	3	8	3	2	–	–	–
Union	4	–	1	–	1	2	–	–	–	–
Wallowa	2	–	–	1	–	–	1	–	–	–
Wasco	38	–	3	13	12	4	2	3	–	1
Washington	1,024	2	120	287	279	184	102	34	4	12
Wheeler	–	*	*	*	*	*	*	*	*	*
Yamhill	137	–	20	39	39	19	11	3	–	6
Out of state	777	1	104	254	169	117	91	33	3	5
Not stated	2	–	–	–	1	–	–	–	–	1

– Quantity is zero.

* Detailed reporting of small numbers may breach confidentiality.

TABLE 3-7. Induced terminations of pregnancy by county of residence and county of occurrence, Oregon occurrence, 2013

County of residence	Total	County of occurrence									
		Benton	Clackamas	Deschutes	Harney	Jackson	Lane	Marion	Multnomah	Washington	Yamhill
Total	8,287	18	7	352	1	529	883	628	5,333	460	76
Baker	7	—	—	2	—	—	1	—	4	—	—
Benton	127	12	—	—	—	—	23	49	32	6	5
Clackamas	611	1	3	1	—	—	1	9	563	30	3
Clatsop	61	—	—	—	—	—	—	—	58	3	—
Columbia	91	—	—	—	—	—	—	1	79	11	—
Coos	84	—	—	—	—	1	58	5	20	—	—
Crook	19	—	—	18	—	—	—	—	1	—	—
Curry	21	—	—	1	—	11	5	—	4	—	—
Deschutes	304	—	—	272	—	—	2	1	29	—	—
Douglas	130	—	—	1	—	5	92	4	27	1	—
Gilliam	2	—	—	—	—	—	—	—	2	—	—
Grant	6	—	—	5	—	—	—	—	1	—	—
Harney	4	—	—	4	—	—	—	—	—	—	—
Hood River	24	—	—	—	—	—	—	—	24	—	—
Jackson	357	—	—	2	—	307	22	1	25	—	—
Jefferson	29	—	—	21	—	2	—	—	6	—	—
Josephine	151	—	—	—	—	115	18	—	18	—	—
Klamath	88	—	—	10	—	58	9	2	9	—	—
Lake	6	—	—	3	—	2	—	—	1	—	—
Lane	737	2	—	2	—	12	594	14	101	5	7
Lincoln	81	1	—	—	—	1	15	24	36	—	4
Linn	141	2	—	1	—	—	31	61	41	4	1
Malheur	8	—	—	3	1	—	—	—	4	—	—
Marion	529	—	—	—	—	—	1	359	139	14	16
Morrow	2	—	—	—	—	—	—	—	2	—	—
Multnomah	2,557	—	1	—	—	—	3	4	2,472	74	3
Polk	81	—	—	—	—	—	—	50	23	2	6
Sherman	—	—	—	—	—	—	—	—	—	—	—
Tillamook	27	—	—	—	—	—	—	4	20	2	1
Umatilla	18	—	—	1	—	—	—	—	17	—	—
Union	4	—	—	—	—	—	—	—	4	—	—
Wallowa	2	—	—	—	—	—	—	—	2	—	—
Wasco	38	—	—	—	—	—	—	—	38	—	—
Washington	1,024	—	3	—	—	—	1	6	728	286	—
Wheeler	—	—	—	—	—	—	—	—	—	—	—
Yamhill	137	—	—	—	—	—	1	30	65	11	30
Out of state	777	—	—	5	—	15	6	4	736	11	—
Not stated	2	—	—	—	—	—	—	—	2	—	—

— Quantity is zero.

SECTION 4: TEEN PREGNANCY

Teen pregnancy

Introduction

In 2013, 3,537 pregnancies occurred among Oregon females under the age of 20. Thirty-three pregnancies occurred among females under age 15. Fifteen girls aged 10–14 gave birth during 2013, 18 fewer than the previous year (see Table 4-2). The youngest female to give birth was 12 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 number of births and abortions reported for Oregon residents. Because some neighboring states (e.g., California) do not exchange abortion reports with Oregon, those that obtain an out-of-state abortion are not always included in this count (see Appendix B).

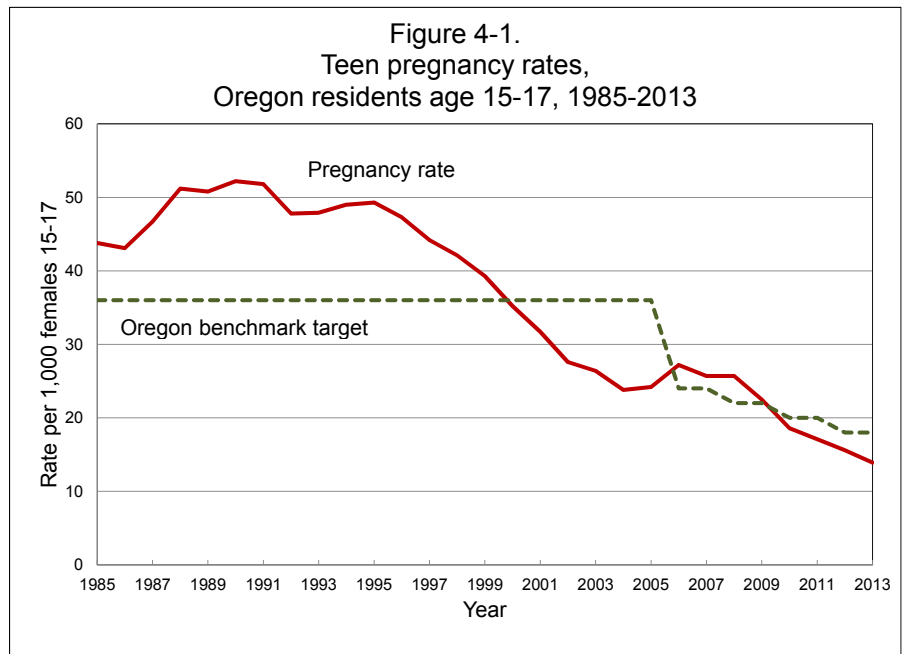
Oregon females, aged 15–17

Efforts to prevent teen pregnancies focus primarily on females aged 15–17. During 2013, 1,002 pregnancies were recorded for Oregon females aged 15–17, 131 fewer than in 2012. The statewide pregnancy rate among women aged 15–17 decreased 10.9%, from 15.6 in 2012 to a current low of 13.9 (see Table 4-1). Historically, the teen pregnancy rate has trended downward and the 2013 rate is 60.5% lower than it was in 2000 (see Figure 4-1). Pregnancy rates for teens aged 15–17 varied by county. Six counties had rates significantly different than the state rate (see Table 4-3). The 2013 rate for teens 15–17 was 22.8% below the Oregon Benchmark goal for the year 2015 of 18 pregnancies per 1,000 females (see sidebar Table 4-A).

Pregnancy rates for Oregonians aged 15 to 17 decreased by 10.9% from 2012

Year 2015 Goal: 18.0	
Year	Rate
1980	59.3
1985	43.8
1990	52.2
1991	51.8
1992	47.8
1993	47.9
1994	49.0
1995	49.3
1996	47.3
1997	44.2
1998	42.1
1999	39.3
2000	35.2
2001	31.7
2002	27.6
2003	26.4
2004	23.8
2005	24.2
2006	27.2
2007	25.7
2008	25.7
2009	22.5
2010	18.6
2011	17.1
2012	15.6
2013	13.9

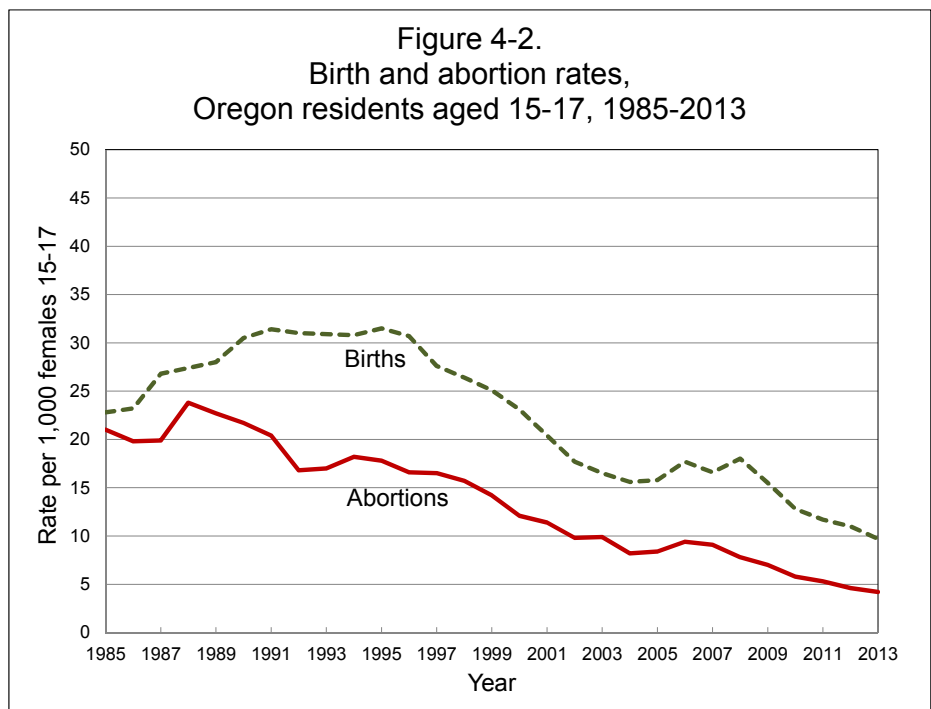
Pregnancy rate per 1,000 Oregon resident females ages 15-17.



Births to teens 15–17

There were 699 births to Oregon teens aged 15–17 in 2013. Of these pregnancies, 69.8% resulted in a live birth, compared to 46.2% in 1980 (see Table 4-1). It was the mother’s first child in 96.6% of these births (see Table 4-9). The birth rate for females aged 15–17 was 9.7 per 1,000 females, a decrease of 11.8% from the previous year. Among those that took their pregnancies to term, 94.4% were unmarried at the time of birth (see Table 4-10).

Abortion rates for teens aged 15 to 17 decreased 8.7% from 2012

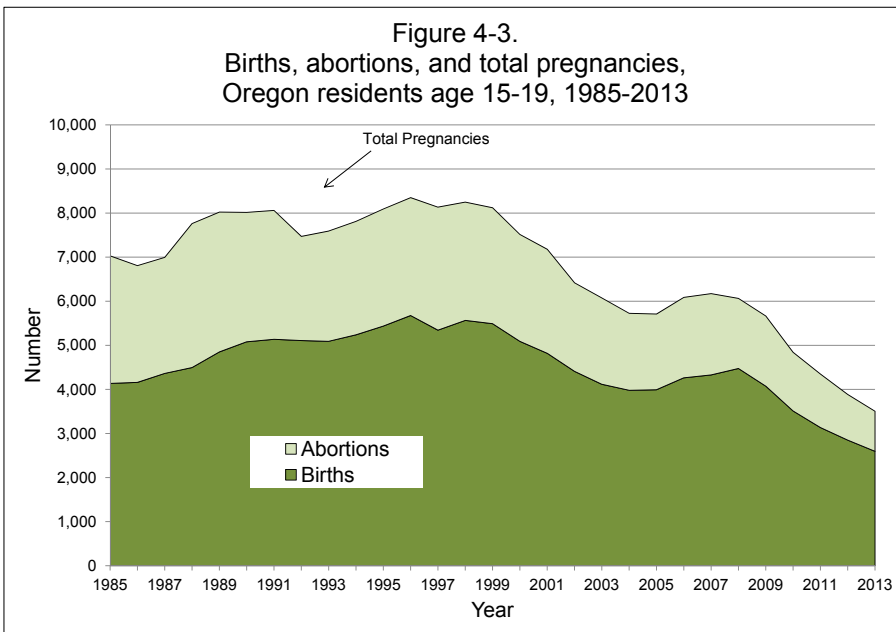


Abortion rates among teens 15–17

Abortion rates among teens decreased 8.7% from 2012. For females aged 15–17, the abortion rate was historically low in 2013 at 4.2 per 1,000 (see Table 4-1, Figure 4-2). There were 303 abortions among Oregon females aged 15–17 reported during 2013, 32 fewer abortions than in 2012. Since the record high abortion rate recorded in 1980, the rate for females aged 15–17 has decreased by more than 86.8% (from 31.9 to 4.2 per 1,000 females).

Figures 4-3 and 4-4 present historical pregnancy outcomes (birth and abortion). As Figure 4-4 indicates, a higher percentage of teen pregnancies were carried to term in recent years than in 1985. Since 1985, the younger the teen, the higher the percentage of terminated pregnancies. However, among teens under 15, 45.5% of the pregnancies resulted in a live birth in 2013 (see Table 4-2, Figure 4-4).

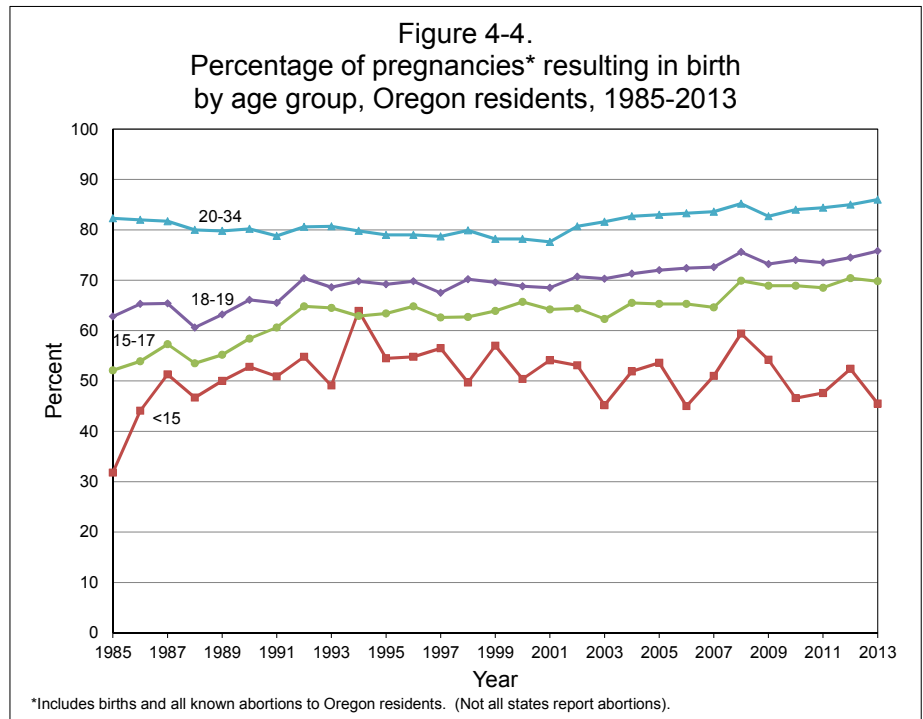
Birth rates for teens aged 18 to 19 decreased by 7.7% from 2012



Oregon females, aged 18–19

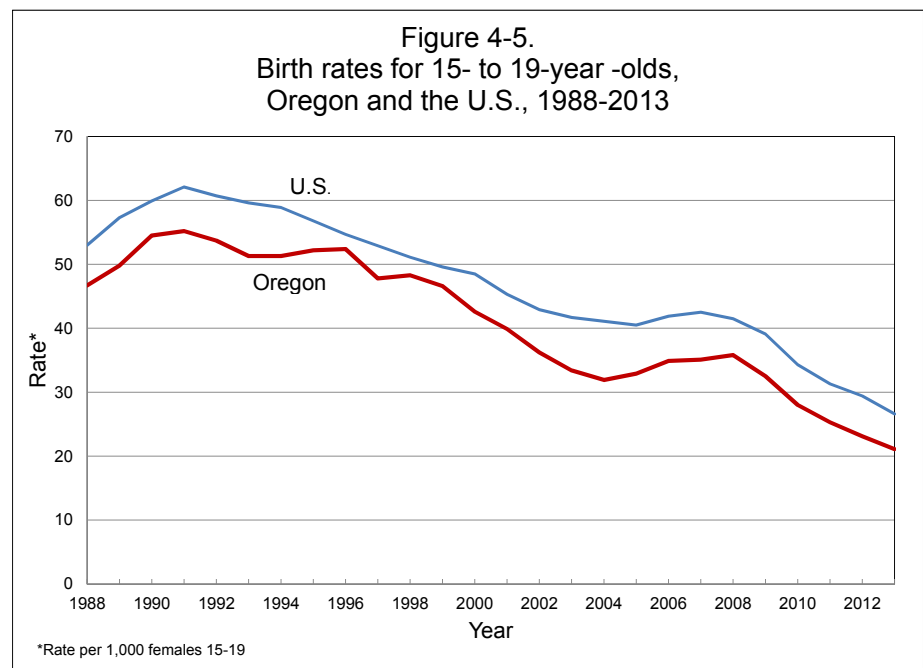
In 2013, the pregnancy rate for Oregonians aged 18–19 was 49.0 per 1,000 females, a 9.1% decrease from 2012. Comparisons with the 2012 figures show a decrease in the birth rate (7.7%) and the abortion rate (13.1%) among women aged 18–19 (see Table 4-1).

Of the 2,502 pregnancies among women aged 18–19, 75.8% (1,896) resulted in a live birth (see Figure 4-4). It was the first child for 83.1% 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 8.7% in 2013 (21.1 vs. 23.1 per 1,000 females in 2012; see Table 4-1). The 2013 rate was 61.8% 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 2013 birth rate for 15–19-year-old teens was 20.7% below the national rate¹ (21.1 vs. 26.6 per 1,000 females; see sidebar Table 4-B). Oregon’s lower teen birth rate continued to decrease at the same time the state became more diverse. Historically, African American and Hispanic populations have had higher teen birth rates and have been underrepresented in the state’s population. Between the 1990 and 2010 census, the proportion of racial minorities was relatively stable while the proportion of Hispanic residents tripled from 4% to 12%.^{2,3} Nevertheless, during this period of increased diversity, Oregon’s teen pregnancy rate for 15–19-year-olds fell from 86.0 per 1,000 females in 1990 to 28.4 in 2013, a 67.0% decrease (see Table 4-1; for further discussion of Oregon’s demographic characteristics and teen pregnancy rates, see Appendix B: “Methodology”).

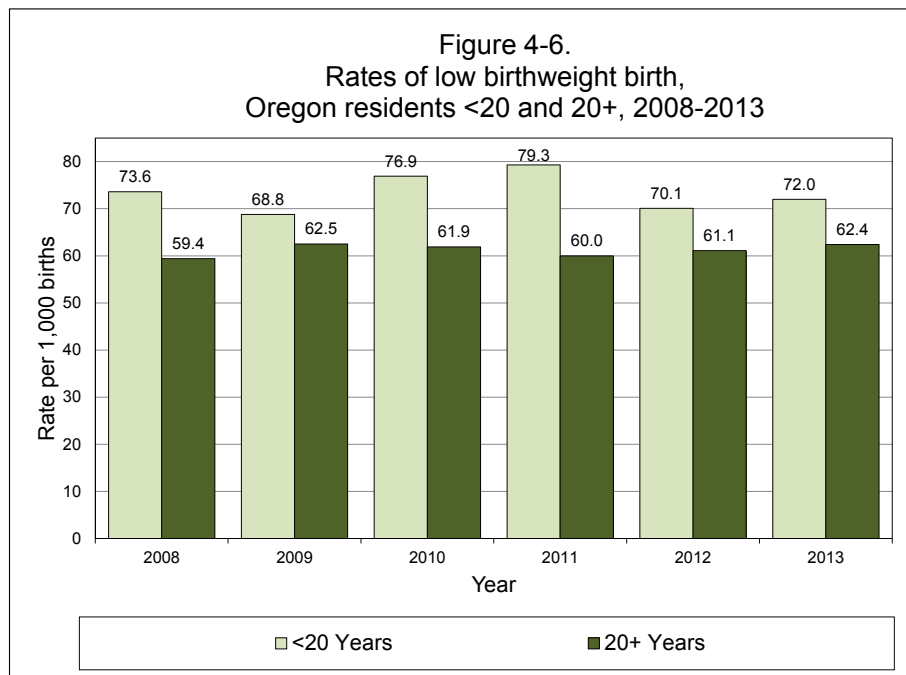
Age	Oregon		U.S.
	2013	2012	2013
15-17	9.7	11.0	12.3
18-19	37.1	40.2	47.4
15-19	21.1	23.1	26.6

¹ All rates per 1,000 females.

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 2013, the low birthweight rate for teen mothers aged 15–19 was 72.4 per 1,000 births (see Table 4-7), a 3.1% increase from 2012. For 15–17-year-olds, the rate (64.4 per 1,000) decreased by 19.8%. The teen rate for low birthweight remained higher than for mothers aged 20 and older (62.4 per 1,000; see Table 2-27). After a decrease last year, the difference in the low birthweight rates between teen and older mothers increased slightly in 2013 (see Figure 4-6).

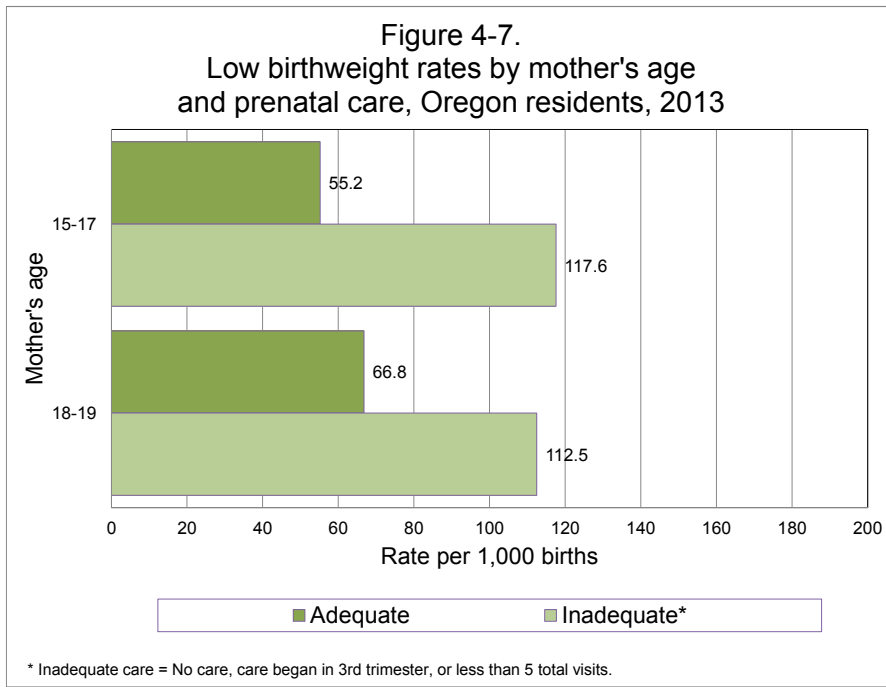
Race and ethnicity

Demographic factors such as race, ethnicity and marital status combine with age to influence the likelihood a teenager will receive early prenatal care. In 2013, for example, 54.7% of unmarried Hispanics aged 15–17 started prenatal care during their first trimester, compared to 74.4% 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 Table 4-7. Between 2012 and 2013, the rate of low birthweight infants for Hispanic teens aged 15–17 decreased by 25.6%. The low birthweight rate for Hispanic teens aged 18–19 during this same period increased by 21.5%. Among non-Hispanic, non-White groups, the low birthweight rate for teens aged 15–17 increased by 6.5%, while the rate for 18–19-year-olds increased by 13.4%.

Prenatal care

Table 4-6 shows the association between inadequate prenatal care and frequency of low birthweight infants for teens that gave birth in 2013. Among mothers aged 15–19, those that received inadequate prenatal care had a greater number of low birthweight babies than those that had received adequate care (114.0 vs. 63.7 per 1,000 live births). Figure 4-7 shows low birthweight rates per 1,000 live births by adequate and inadequate prenatal care. For mothers 15–17, the rates were 55.2 vs. 117.6; for mothers 18–19, the rates were 66.8 vs. 112.5.



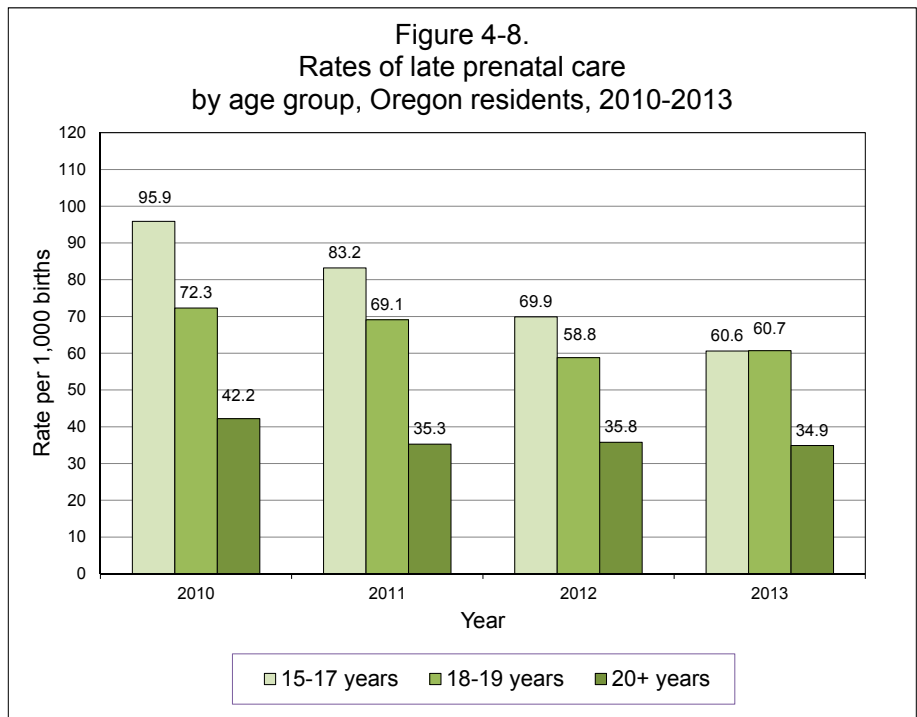
- **Early prenatal care**

Prenatal care should begin within the first 12 weeks of pregnancy to allow early detection of complications and to ensure the health of both mother and infant. An Oregon benchmark goal is 90% of pregnant women, regardless of age, will begin medical care during the first trimester of pregnancy by the year 2015. Teens are further from this goal than any other age group. In 2013, only 64.0% of teen mothers started prenatal care during the first trimester, compared to 78.7% for women aged 20 and older (see sidebar Table 4-C). Only 57.9% of those 15–17 received first trimester prenatal care, a decrease from 60.5% in 2012 (see Table 4-10).

Table 4-C. Oregon benchmark: First trimester prenatal care, 2013	
Year 2015 goal: 90%	
All women	77.8
All teens	64.0
15-17 years	57.9
18-19 years	66.4
20+ years	78.7

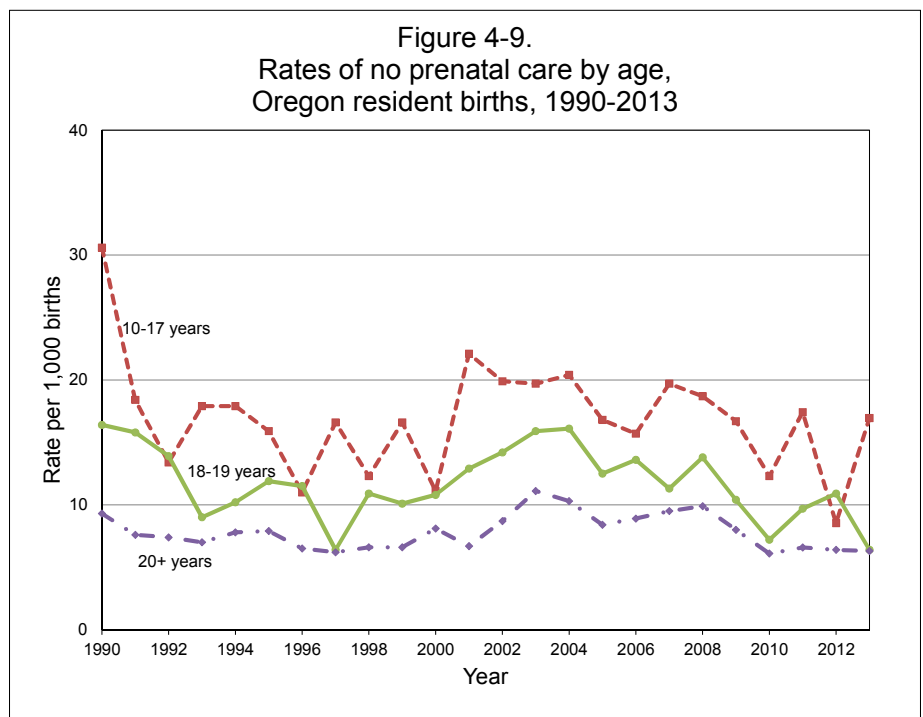
- **Inadequate prenatal care**

Inadequate prenatal care is defined as no prenatal care, care beginning after the second trimester of pregnancy, or care involving fewer than five prenatal visits. By this measure, 9.9% of 15–17-year-old teens and 8.8% of 18–19-year-old teens received inadequate prenatal care in 2013. This compares with 5.4% of women aged 20 or older that received inadequate care (see Table 4-10). The proportion of women under age 20 that received inadequate prenatal care increased by 7.0% in 2013, to 9.2% from 8.6% in 2012.



- **Late care or no prenatal care**

From 2012 to 2013, the proportion of teens aged 15–17 that began prenatal care during the third trimester decreased 13.3% to 60.6 per 1,000 live births (see Figure 4-8). In 2013, a higher percentage of teens under age 18 went through pregnancy without a single visit to a medical provider than did women 20 and older. The



rate of no prenatal care among teens 15–17 is 15.9 per 1,000 live births, more than 2.5 times the rate of women aged 20 and older (6.3 per 1,000 live births). (See Table 4-10, Figure 4-9.)

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 2013, the low five-minute Apgar rate for newborns of mothers aged 15–17 was 25.8 per 1,000 births (Table 4-9), a 28.3% increase from 2012 (20.1 per 1,000). The low five-minute Apgar rate for infants born to women under age 20 was 33.0% higher than the rate for infants born to women 20 years or older (38.3 compared to 28.8 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. Teen mothers may be deterred by Oregon legal age limits placed on the purchase and/or possession of these substances.

Tobacco

The percentage of teens aged 15–19 that reported smoking during pregnancy in 2013 was nearly double the percentage reported by women aged 20 and older (16.2% vs. 9.8%; see Table 4-9). Women that 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 (101.2 vs. 58.0 per 1,000 live births). This is partly because the low birthweight rate for teen mothers is higher than for women aged 20 and older (see sidebar Table 4-D). Tobacco use remains one of the most important preventable causes of low birthweight infants for teen mothers.

	<20	20+
Nonsmokers	68.8	58.0
Smokers	87.7	101.2

¹ All Rates per 1,000 births

Alcohol

Teens aged 15–19 reported less use of alcohol during pregnancy than women aged 20 and older (1.2 per 1,000 births vs. 9.0 per 1,000 births).

Source of payment

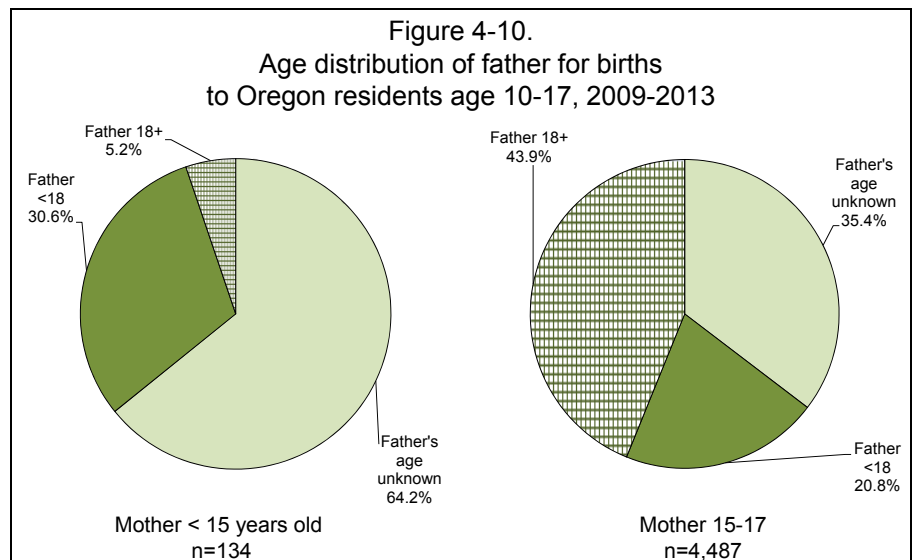
The percentage of teen mothers that used public funds to pay the costs associated with birth was nearly twice that of older mothers. In 2013, Medicaid/Oregon Health Plan paid for 74.9% of births to teens aged 15–19 and 41.6% of births to women aged 20 and older where source of payment was reported (see Table 4-10).

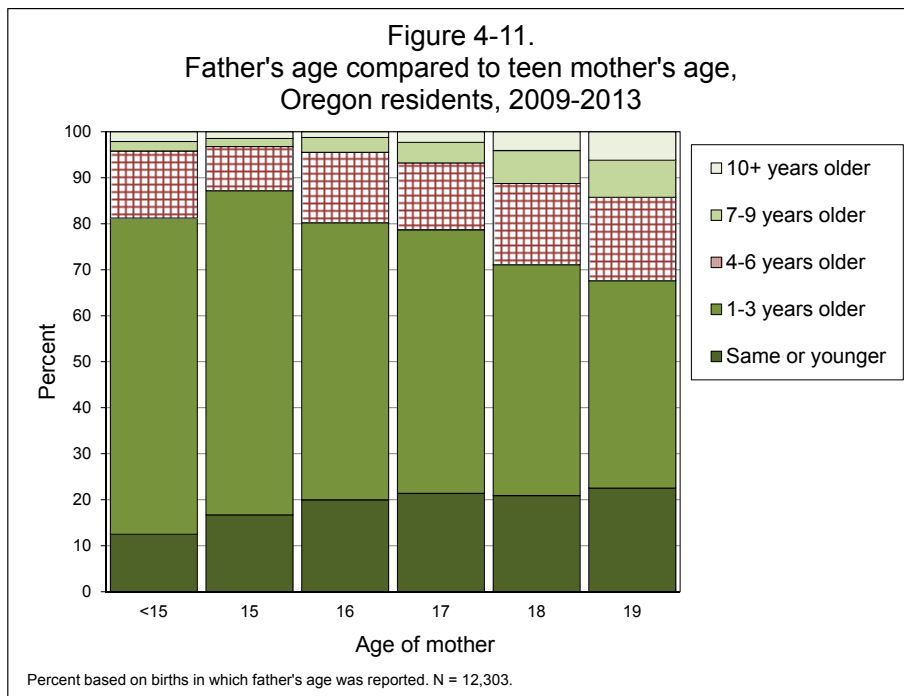
**Medicaid/OHP paid for
74.9 percent of births
to teens in 2013**

Age of father

Between 2009 and 2013, 35.4% 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 4-10, Table 4-13). Almost two-thirds (64.2%) 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, 85.4% were younger than age 18 and 14.6% were aged 18 or older. Birth records for mothers aged 15–17 report father's age for 64.7% of births. Where the father's age was reported, 32.1% of fathers were under age 18 and 67.9% were aged 18 or older.

For all teens, including the youngest mothers (less than 15 years of age), the father was more than six years older than the mother in 11.3% of the births for the 2009–2013 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 3.2% of births to 15-year-old mothers, to a high of 14.2% for 19-year-old teens (see Figure 4-11).

Endnotes

1. Centers for Disease Control and Prevention (CDC). Births: preliminary data for 2013, 2014. National Vital Statistics Reports. May 29, 2014; V63, No. 2.
2. U.S. Census Bureau. Census 2000, 2000 Census of Population and Housing, Oregon: 2000 Summary Population and Housing Characteristics. Issued June 2002. PHC -1-39.
3. U.S. Census Bureau. Census 2010, 2010 Census of Population and Housing, Oregon: 2010 Summary Population and Housing Characteristics. Issued June 2012, CPH -1-39.

TABLE 4-1. Oregon pregnancies to teens 15-19 years, 1975-2013

Year	Pregnancies ¹						Births			
	15 to 17		18 to 19		15 to 19		15 to 17		18 to 19	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
1975	3,718	NA	5,135	NA	8,853	80.2	1,868	NA	3,338	NA
1980	3,844	59.3	6,576	141.9	10,420	93.8	1,775	27.4	3,883	83.8
1985	2,589	43.8	4,440	118.0	7,029	72.7	1,349	22.8	2,787	74.1
1986	2,536	43.1	4,271	108.3	6,807	69.2	1,368	23.2	2,791	70.8
1987	2,629	46.7	4,365	115.6	6,994	74.4	1,507	26.8	2,856	75.6
1988	2,893	51.2	4,869	122.2	7,762	80.6	1,547	27.4	2,949	74.0
1989	2,751	50.8	5,271	121.9	8,022	82.4	1,519	28.0	3,331	77.1
1990	2,842	52.2	5,174	133.4	8,016	86.0	1,660	30.5	3,420	88.2
1991	2,913	51.8	5,147	139.9	8,060	86.6	1,764	31.4	3,373	91.7
1992	2,756	47.8	4,715	125.9	7,471	78.6	1,787	31.0	3,321	88.6
1993	2,858	47.9	4,734	120.0	7,592	76.6	1,843	30.9	3,248	82.3
1994	3,031	49.0	4,780	118.6	7,811	76.5	1,905	30.8	3,333	82.7
1995	3,093	49.3	4,999	120.3	8,092	77.6	1,977	31.5	3,460	83.3
1996	3,108	47.3	5,242	122.9	8,350	77.1	2,015	30.7	3,661	85.8
1997	3,013	44.2	5,121	117.5	8,134	72.8	1,886	27.6	3,458	79.4
1998	2,985	42.1	5,263	118.5	8,248	71.5	1,872	26.4	3,693	83.2
1999	2,810	39.3	5,311	114.8	8,121	68.9	1,796	25.1	3,695	79.8
2000	2,522	35.2	4,993	104.4	7,515	62.9	1,656	23.1	3,434	71.8
2001	2,300	31.7	4,880	101.0	7,180	59.4	1,477	20.4	3,342	69.2
2002	2,031	27.6	4,387	90.8	6,418	52.6	1,307	17.7	3,103	64.2
2003	1,965	26.4	4,110	84.2	6,075	49.3	1,225	16.5	2,891	59.2
2004	1,791	23.8	3,935	79.5	5,726	45.8	1,173	15.6	2,807	56.7
2005	1,762	24.2	3,947	81.5	5,709	47.1	1,151	15.8	2,841	58.7
2006	1,996	27.2	4,091	83.8	6,087	49.8	1,303	17.7	2,960	60.6
2007	1,902	25.7	4,271	86.9	6,173	50.1	1,228	16.6	3,100	63.1
2008	1,931	25.7	4,133	82.6	6,064	48.5	1,349	18.0	3,125	62.5
2009	1,696	22.5	3,970	79.3	5,666	45.2	1,169	15.5	2,905	58.0
2010	1,406	18.6	3,436	68.8	4,842	38.6	969	12.8	2,542	50.9
2011	1,243	17.1	3,106	60.9	4,349	35.1	852	11.7	2,283	44.8
2012	1,133	15.6	2,752	53.9	3,885	31.5	798	11.0	2,051	40.2
2013	1,002	13.9	2,502	49.0	3,504	28.4	699	9.7	1,896	37.1

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, 1975-2013 (Continued)

Births		Abortions ²						NS	Year
15 to 19		15 to 17		18 to 19		15 to 19			
No.	Rate	No.	Rate	No.	Rate	No.	Rate		
5,206	47.2	1,850	NA	1,797	NA	3,647	33.1	23	1975
5,658	50.9	2,069	31.9	2,693	58.1	4,762	42.9	903	1980
4,136	42.8	1,240	21.0	1,653	43.9	2,893	29.9	737	1985
4,159	42.3	1,168	19.8	1,480	37.5	2,648	26.9	114	1986
4,363	46.4	1,122	19.9	1,509	40.0	2,631	28.0	47	1987
4,496	46.7	1,346	23.8	1,920	48.2	3,266	33.9	48	1988
4,850	49.8	1,232	22.7	1,940	44.9	3,172	32.6	222	1989
5,080	54.5	1,182	21.7	1,754	45.2	2,936	31.5	122	1990
5,137	55.2	1,149	20.4	1,774	48.2	2,923	31.4	131	1991
5,108	53.7	969	16.8	1,394	37.2	2,363	24.9	169	1992
5,091	51.3	1,015	17.0	1,486	37.7	2,501	25.2	256	1993
5,238	51.3	1,126	18.2	1,447	35.9	2,573	25.2	180	1994
5,437	52.2	1,116	17.8	1,539	37.0	2,655	25.5	25	1995
5,676	52.4	1,093	16.6	1,581	37.1	2,674	24.7	21	1996
5,344	47.8	1,127	16.5	1,663	38.2	2,790	25.0	3	1997
5,565	48.3	1,113	15.7	1,570	35.4	2,683	23.3	43	1998
5,491	46.6	1,014	14.2	1,616	34.9	2,630	22.3	18	1999
5,090	42.6	866	12.1	1,554	32.6	2,425	20.3	20	2000
4,819	39.9	823	11.4	1,538	31.8	2,361	19.5	8	2001
4,410	36.2	724	9.8	1,284	26.6	2,008	16.5	7	2002
4,116	33.4	740	9.9	1,219	25.0	1,959	15.9	33	2003
3,980	31.9	618	8.2	1,128	22.8	1,746	14.0	12	2004
3,992	32.9	611	8.4	1,106	22.8	1,717	14.2	24	2005
4,263	34.9	693	9.4	1,131	23.2	1,824	14.9	18	2006
4,328	35.1	674	9.1	1,171	23.8	1,845	15.0	24	2007
4,474	35.8	582	7.8	1,008	20.1	1,590	12.7	47	2008
4,074	32.5	527	7.0	1,065	21.3	1,592	12.7	34	2009
3,511	28.0	437	5.8	894	17.9	1,331	10.6	49	2010
3,135	25.3	391	5.3	823	16.1	1,214	9.8	60	2011
2,849	23.1	335	4.6	701	13.7	1,036	8.4	43	2012
2,595	21.1	303	4.2	606	11.9	909	7.4	89	2013

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, 1975-2013

Year	Pregnancies ¹			Births			Abortions ²			Live births ³	
	10-14	10-17		10-14	10-17		10-14	10-17		10-14	10-17
	No.	No.	Rate	No.	No.	Rate	No.	No.	Rate	Percent	
1975	216	2,934	NA	67	1,935	NA	149	1,999	NA	31.0	49.2
1980	203	4,047	24.7	71	1,846	11.3	132	2,201	13.4	35.0	45.6
1985	132	2,721	18.2	42	1,391	9.3	90	1,330	8.9	31.8	51.1
1986	145	2,681	18.4	64	1,432	9.8	81	1,249	8.5	44.1	53.4
1987	115	2,744	19.2	59	1,566	11.0	56	1,178	8.3	51.3	57.1
1988	122	3,015	20.6	57	1,604	10.9	64	1,410	9.6	46.7	53.2
1989	136	2,887	19.6	68	1,587	10.8	68	1,300	8.8	50.0	55.0
1990	144	2,986	19.7	76	1,736	11.4	68	1,250	8.2	52.8	58.1
1991	173	3,086	19.3	88	1,852	11.6	85	1,234	7.7	50.9	60.0
1992	157	2,913	17.9	86	1,873	11.5	71	1,040	6.4	54.8	64.3
1993	169	3,027	18.2	83	1,926	11.6	86	1,101	6.6	49.7	63.6
1994	183	3,214	18.9	117	2,022	11.9	66	1,192	7.0	63.9	62.9
1995	191	3,284	19.2	104	2,081	12.2	87	1,203	7.0	54.5	63.4
1996	166	3,274	18.8	91	2,106	12.1	75	1,168	6.7	54.8	64.3
1997	184	3,197	18.0	104	1,990	11.2	80	1,207	6.8	56.5	62.2
1998	191	3,176	17.2	95	1,967	10.7	96	1,209	6.6	49.7	61.9
1999	151	2,961	15.9	86	1,882	10.1	65	1,079	5.8	57.0	63.6
2000	131	2,653	14.0	66	1,722	9.1	65	931	4.9	50.4	64.9
2001	122	2,422	12.6	66	1,545	8.0	56	879	4.6	54.1	63.7
2002	96	2,127	10.9	51	1,358	7.0	45	769	4.0	53.1	63.8
2003	104	2,069	10.5	47	1,272	6.5	57	797	4.1	45.2	61.5
2004	106	1,897	9.5	55	1,228	6.2	51	669	3.4	51.9	64.7
2005	97	1,859	9.5	52	1,203	6.2	45	656	3.4	53.6	64.7
2006	100	2,096	10.6	45	1,348	6.8	55	748	3.8	45.0	64.3
2007	98	2,000	10.1	50	1,278	6.4	48	722	3.6	51.0	63.9
2008	64	1,995	10.0	38	1,387	7.0	26	608	3.1	59.4	69.5
2009	72	1,768	8.9	39	1,208	6.1	33	560	2.8	54.2	68.3
2010	58	1,464	7.4	27	996	5.0	31	468	2.3	46.6	68.0
2011	42	1,285	6.7	20	872	4.6	22	413	2.2	40.6	67.9
2012	63	1,196	6.3	33	831	4.4	30	365	1.9	52.4	69.5
2013	33	1,035	5.4	15	714	3.8	18	321	1.7	45.5	69.0

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

All rates are per 1,000 females.

TABLE 4-3. Pregnancy rates of teens by county of residence, Oregon, 2013

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	52,879	33	1,002	2,502	3,504	5.4	13.9	49.0	28.4
Baker	194	–	6	11	17	8.1	20.5	83.3	40.0
Benton	777	–	11	35	46	3.0	§ 7.1	§ 12.5	§ 10.6
Clackamas	4,604	1	66	187	253	§ 3.2	§ 8.2	43.0	§ 20.4
Clatsop	456	–	7	36	43	4.1	11.3	§ 78.8	39.9
Columbia	593	1	12	35	47	4.9	12.1	66.8	31.0
Coos	694	1	10	48	58	4.1	9.2	67.9	32.3
Crook	211	–	4	15	19	4.0	10.6	86.7	34.5
Curry	216	–	6	7	13	7.6	18.8	46.1	27.5
Deschutes	2,028	1	31	88	119	3.9	10.4	52.0	25.4
Douglas	1,195	–	31	88	119	6.2	15.6	§ 78.3	§ 38.3
Gilliam	20	–	–	–	–	–	–	–	–
Grant	66	–	1	3	4	3.0	8.5	58.8	23.7
Harney	95	–	1	7	8	2.8	7.1	93.3	37.0
Hood River	308	–	6	12	18	4.5	11.9	47.4	23.7
Jackson	2,688	6	60	157	217	6.6	15.5	§ 61.9	§ 33.9
Jefferson	330	–	6	34	40	5.0	13.0	§ 138.8	§ 56.6
Josephine	988	–	26	54	80	6.7	17.9	65.8	35.2
Klamath	872	–	18	79	97	5.5	14.3	§ 93.1	§ 46.0
Lake	88	*	*	*	*	*	*	*	*
Lane	4,264	3	97	187	284	6.3	15.4	§ 29.7	§ 22.5
Lincoln	503	1	12	17	29	7.6	18.7	43.9	28.2
Linn	1,565	–	34	84	118	5.4	14.5	57.8	31.1
Malheur	499	1	12	42	54	7.6	19.4	§ 97.2	§ 51.4
Marion	4,813	7	131	279	410	§ 7.7	§ 19.3	§ 60.2	§ 35.9
Morrow	139	1	3	8	11	5.5	10.9	55.6	26.3
Multnomah	12,010	6	186	435	621	6.3	§ 16.4	47.6	30.3
Polk	931	–	16	44	60	3.8	10.2	§ 29.1	§ 19.5
Sherman	11	*	*	*	*	*	*	*	*
Tillamook	261	–	7	13	20	6.4	16.3	62.5	31.4
Umatilla	1,277	–	43	92	135	§ 9.9	§ 26.1	§ 89.3	§ 50.4
Union	344	–	4	21	25	3.2	8.7	47.4	27.6
Wallowa	71	*	*	*	*	*	*	*	*
Wasco	337	–	12	16	28	9.2	25.1	57.8	37.1
Washington	8,212	4	113	290	403	§ 4.0	§ 10.5	46.3	§ 23.7
Wheeler	12	–	–	–	–	–	–	–	–
Yamhill	1,180	–	27	69	96	4.8	12.8	39.7	25.0

– Quantity is zero.
¹ All rates per 1,000 females.
² Total includes 27 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 five 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, 2013

County of residence	Total births (all ages)	Age				Birth rate ¹			
		<15	15-17	18-19	15-19	10-17	15-17	18-19	15-19
Total	45,136	15	699	1,896	2,595	3.8	9.7	37.1	21.1
Baker	180	—	6	11	17	8.1	20.5	§ 83.3	§ 40.0
Benton	650	—	7	21	28	1.9	4.5	§ 7.5	§ 6.4
Clackamas	3,991	1	44	133	177	§ 2.2	§ 5.4	§ 30.6	§ 14.2
Clatsop	395	—	3	27	30	1.8	4.8	§ 59.1	27.8
Columbia	500	1	7	27	34	3.0	7.0	51.5	22.4
Coos	609	1	8	40	48	3.3	7.3	§ 56.6	26.7
Crook	192	—	2	13	15	2.0	5.3	§ 75.1	27.3
Curry	195	—	2	7	9	2.5	6.2	46.1	19.0
Deschutes	1,723	—	21	61	82	2.6	7.0	36.1	17.5
Douglas	1,065	—	23	75	98	4.6	11.6	§ 66.7	§ 31.5
Gilliam	18	—	—	—	—	—	—	—	—
Grant	60	—	—	3	3	—	—	58.8	17.8
Harney	90	—	1	7	8	2.8	7.1	93.3	37.0
Hood River	282	—	5	10	15	3.8	9.9	39.5	19.7
Jackson	2,331	2	49	122	171	5.1	12.7	§ 48.1	§ 26.7
Jefferson	301	—	4	27	31	3.4	8.7	§ 110.2	§ 43.8
Josephine	837	—	16	46	62	4.1	11.0	§ 56.0	27.3
Klamath	783	—	13	70	83	3.9	10.3	§ 82.4	§ 39.3
Lake	82	*	*	*	*	*	*	*	*
Lane	3,526	2	71	134	205	4.6	11.3	§ 21.3	§ 16.3
Lincoln	422	—	7	12	19	4.1	10.9	31.0	18.4
Linn	1,424	—	26	68	94	4.1	11.1	46.8	24.7
Malheur	470	—	11	37	48	6.5	17.8	§ 85.6	§ 45.7
Marion	4,284	4	99	231	330	§ 5.7	§ 14.6	§ 49.8	§ 28.9
Morrow	129	1	3	7	10	5.5	10.9	48.6	23.9
Multnomah	9,430	1	115	273	388	3.8	10.1	§ 29.9	§ 18.9
Polk	850	—	8	39	47	1.9	5.1	§ 25.8	15.3
Sherman	11	*	*	*	*	*	*	*	*
Tillamook	234	—	4	11	15	3.7	9.3	52.9	23.5
Umatilla	1,146	—	34	82	116	§ 7.8	§ 20.6	§ 79.6	§ 43.3
Union	319	—	3	17	20	2.4	6.5	38.4	22.1
Wallowa	68	*	*	*	*	*	*	*	*
Wasco	299	—	10	15	25	7.7	20.9	54.2	33.1
Washington	7,186	2	79	204	283	2.8	7.4	32.6	§ 16.6
Wheeler	12	—	—	—	—	—	—	—	—
Yamhill	1,042	—	15	61	76	2.7	7.1	35.1	19.8

— Quantity is zero.

¹ All rates per 1,000 females.

§ Birth rate is significantly different from the state.

* Detailed reporting of small numbers may breach confidentiality.

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

TABLE 4-5. Abortion rates of teens by county of residence, Oregon, 2013

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	7,743	18	303	606	909	1.7	4.2	11.9	7.4
Baker	14	—	—	—	—	—	—	—	—
Benton	127	—	4	14	18	1.1	2.6	§ 5.0	§ 4.1
Clackamas	613	—	22	54	76	1.1	2.7	12.4	6.1
Clatsop	61	—	4	9	13	2.4	6.4	19.7	12.1
Columbia	93	—	5	8	13	1.9	5.0	15.3	8.6
Coos	85	—	2	8	10	0.7	1.8	11.3	5.6
Crook	19	—	2	2	4	2.0	5.3	11.6	7.3
Curry	21	—	4	—	4	5.1	12.5	—	8.5
Deschutes	305	1	10	27	37	1.4	3.3	16.0	7.9
Douglas	130	—	8	13	21	1.6	4.0	11.6	6.8
Gilliam	2	—	—	—	—	—	—	—	—
Grant	6	—	1	—	1	3.0	8.5	—	5.9
Harney	5	—	—	—	—	—	—	—	—
Hood River	26	—	1	2	3	0.8	2.0	7.9	3.9
Jackson	357	4	11	35	46	1.5	2.8	13.8	7.2
Jefferson	29	—	2	7	9	1.7	4.3	28.6	12.7
Josephine	151	—	10	8	18	2.6	6.9	9.7	7.9
Klamath	89	—	5	9	14	1.5	4.0	10.6	6.6
Lake	6	—	—	—	—	—	—	—	—
Lane	738	1	26	53	79	1.7	4.1	8.4	6.3
Lincoln	81	1	5	5	10	3.5	7.8	12.9	9.7
Linn	141	—	8	16	24	1.3	3.4	11.0	6.3
Malheur	29	1	1	5	6	1.2	1.6	11.6	5.7
Marion	529	3	32	48	80	2.0	4.7	10.4	7.0
Morrow	10	—	—	1	1	—	—	6.9	2.4
Multnomah	2,580	5	71	162	233	§ 2.5	§ 6.3	§ 17.7	§ 11.4
Polk	81	—	8	5	13	1.9	5.1	§ 3.3	4.2
Sherman	—	—	—	—	—	—	—	—	—
Tillamook	27	—	3	2	5	2.7	7.0	9.6	7.8
Umatilla	131	—	9	10	19	2.1	5.5	9.7	7.1
Union	25	—	1	4	5	0.8	2.2	9.0	5.5
Wallowa	3	—	—	—	—	—	—	—	—
Wasco	38	—	2	1	3	1.5	4.2	3.6	4.0
Washington	1,026	2	34	86	120	1.2	3.2	13.7	7.1
Wheeler	—	—	—	—	—	—	—	—	—
Yamhill	138	—	12	8	20	2.2	5.7	§ 4.6	5.2

— Quantity is zero.
¹ All rates per 1,000 females.
² Total includes 27 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 five 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 teens 15-19 by race/ethnicity, adequacy of prenatal care, and birthweight, Oregon residents, 2013

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	2,595	26	202	145	2,133	17	72
15-17	699	8	60	34	582	3	12
18-19	1,896	18	142	111	1,551	14	60
Non-Hispanic single mention race							
White							
15-19	1,367	10	90	82	1,141	12	32
15-17	307	3	22	13	263	2	4
18-19	1,060	7	68	69	878	10	28
African American							
15-19	79	2	8	11	52	1	5
15-17	17	1	4	3	9	—	—
18-19	62	1	4	8	43	1	5
American Indian							
15-19	45	1	7	—	36	—	1
15-17	14	—	2	—	11	—	1
18-19	31	1	5	—	25	—	—
Asian							
15-19	14	—	4	2	8	—	—
15-17	6	—	1	1	4	—	—
18-19	8	—	3	1	4	—	—
Hawaiian/Pacific Islander							
15-19	24	—	6	3	15	—	—
15-17	5	—	2	—	3	—	—
18-19	19	—	4	3	12	—	—
Other/unknown							
15-19	14	1	3	—	10	—	—
15-17	1	—	1	—	—	—	—
18-19	13	1	2	—	10	—	—
Multiple races							
15-19	116	1	9	4	99	—	3
15-17	35	—	5	2	28	—	—
18-19	81	1	4	2	71	—	3
Hispanic ethnicity							
Hispanic³							
15-19	936	11	75	43	772	4	31
15-17	314	4	23	15	264	1	7
18-19	622	7	52	28	508	3	24

— Quantity is zero.

See footnotes at the end of table.

TABLE 4-6. Births to teens 15-19 by race/ethnicity, adequacy of prenatal care, and birthweight, Oregon residents, 2013 (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	2,595	26	202	145	2,133	17	72
15-17	699	8	60	34	582	3	12
18-19	1,896	18	142	111	1,551	14	60
Multiple mention race and ethnicity							
White							
15-19	2,182	17	160	117	1,814	15	59
15-17	571	3	47	26	483	3	9
18-19	1,611	14	113	91	1,331	12	50
African American							
15-19	136	4	10	14	100	1	7
15-17	36	2	4	3	27	—	—
18-19	100	2	6	11	73	1	7
American Indian							
15-19	141	1	14	3	121	—	2
15-17	43	—	6	2	34	—	1
18-19	98	1	8	1	87	—	1
Asian							
15-19	32	2	5	4	21	—	—
15-17	15	—	2	2	11	—	—
18-19	17	2	3	2	10	—	—
Hawaiian/Pacific Islander							
15-19	37	1	6	4	25	—	1
15-17	10	—	2	—	8	—	—
18-19	27	1	4	4	17	—	1
Other							
15-19	187	3	13	10	155	1	5
15-17	60	3	4	4	49	—	—
18-19	127	—	9	6	106	1	5
Unknown							
15-19	56	1	4	1	48	—	2
15-17	20	—	—	—	18	—	2
18-19	36	1	4	1	30	—	—
Hispanic³							
15-19	936	11	75	43	772	4	31
15-17	314	4	23	15	264	1	7
18-19	622	7	52	28	508	3	24

— Quantity is zero.

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

² Total includes cases with unknown birthweight.

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, 2013

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	2,595	188	72.4	1,637	641.0	228	91.0
15-17	699	45	64.4	401	578.6	68	99.4
18-19	1,896	143	75.4	1,236	664.2	160	87.8
Non-Hispanic single mention race							
White	1,367	104	76.1	922	683.5	100	75.6
15-17	307	18	58.6	193	632.8	25	83.1
Married	19	2	105.3	10	526.3	4	210.5
Unmarried	287	16	55.7	183	642.1	21	74.7
18-19	1,060	86	81.1	729	698.3	75	73.4
Married	166	10	60.2	122	743.9	11	68.8
Unmarried	892	75	84.1	607	691.3	64	74.4
African American	79	14	177.2	46	597.4	10	137.0
15-17	17	4	235.3	10	588.2	5	294.1
Married	3	1	333.3	1	333.3	1	333.3
Unmarried	14	3	214.3	9	642.9	4	285.7
18-19	62	10	161.3	36	600.0	5	89.3
Married	3	1	333.3	3	1000.0	1	333.3
Unmarried	59	9	152.5	33	578.9	4	75.5
American Indian	45	1	22.2	25	555.6	8	181.8
15-17	14	—	—	5	357.1	2	153.8
Married	—	—	—	—	—	—	—
Unmarried	14	—	—	5	357.1	2	153.8
18-19	31	1	32.3	20	645.2	6	193.5
Married	6	—	—	4	666.7	2	333.3
Unmarried	25	1	40.0	16	640.0	4	160.0
Asian/Pacific Islander⁴	38	5	131.6	14	368.4	10	263.2
15-17	11	1	90.9	3	272.7	3	272.7
Married	3	—	—	—	—	1	333.3
Unmarried	8	1	125.0	3	375.0	2	250.0
18-19	27	4	148.1	11	407.4	7	259.3
Married	5	—	—	2	400.0	1	200.0
Unmarried	22	4	181.8	9	409.1	6	272.7
Other/multiple races	130	6	46.2	80	615.4	14	110.2
15-17	36	2	55.6	21	583.3	6	166.7
Married	1	—	—	1	1000.0	—	—
Unmarried	35	2	57.1	20	571.4	6	171.4
18-19	94	4	42.6	59	627.7	8	87.9
Married	11	1	90.9	8	727.3	—	—
Unmarried	83	3	36.1	51	614.5	8	100.0
Hispanic ethnicity							
Hispanic⁵	936	58	62.0	550	601.1	86	95.4
15-17	314	20	63.7	169	545.2	27	88.2
Married	13	2	153.8	6	500.0	1	83.3
Unmarried	301	18	59.8	163	547.0	26	88.4
18-19	622	38	61.1	381	629.8	59	99.2
Married	115	6	52.2	85	752.2	13	116.1
Unmarried	507	32	63.1	296	601.6	46	95.2

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

TABLE 4-7. Births to teens 15-19 by marital status, race/ethnicity, and age by adequacy of prenatal care and birthweight, Oregon residents, 2013 (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	2,595	188	72.4	1,637	641.0	228	91.0
15-17	699	45	64.4	401	578.6	68	99.4
18-19	1,896	143	75.4	1,236	664.2	160	87.8
Multiple mention race/ ethnicity							
White	2,182	149	68.3	1,404	654.2	177	84.0
15-17	571	32	56.0	336	593.6	50	89.4
Married	25	2	80.0	14	560.0	5	200.0
Unmarried	545	30	55.0	322	596.3	45	84.4
18-19	1,611	117	72.6	1,068	675.9	127	82.0
Married	256	15	58.6	187	742.1	22	88.7
Unmarried	1,353	101	74.6	881	664.4	105	80.8
African American	136	19	139.7	85	634.3	14	109.4
15-17	36	5	138.9	23	638.9	6	166.7
Married	3	1	333.3	1	333.3	1	333.3
Unmarried	33	4	121.2	22	666.7	5	151.5
18-19	100	14	140.0	62	632.7	8	87.0
Married	8	2	250.0	8	1000.0	1	125.0
Unmarried	92	12	130.4	54	600.0	7	83.3
American Indian	141	4	28.4	81	574.5	15	107.9
15-17	43	2	46.5	21	488.4	6	142.9
Married	1	—	—	1	1000.0	—	—
Unmarried	42	2	47.6	20	476.2	6	146.3
18-19	98	2	20.4	60	612.2	9	92.8
Married	14	1	71.4	9	642.9	2	142.9
Unmarried	84	1	11.9	51	607.1	7	84.3
Asian/Pacific Islander⁴	65	10	153.8	28	437.5	13	203.1
15-17	23	2	87.0	8	347.8	4	173.9
Married	3	—	—	—	—	1	333.3
Unmarried	20	2	100.0	8	400.0	3	150.0
18-19	42	8	190.5	20	487.8	9	219.5
Married	8	—	—	5	625.0	1	125.0
Unmarried	34	8	235.3	15	454.5	8	242.4
Other/unknown	243	16	65.8	147	612.5	21	89.4
15-17	80	7	87.5	47	594.9	7	89.7
Married	8	2	250.0	3	428.6	—	—
Unmarried	72	5	69.4	44	611.1	7	98.6
18-19	163	9	55.2	100	621.1	14	89.2
Married	30	1	33.3	23	766.7	2	69.0
Unmarried	133	8	60.2	77	587.8	12	93.8
Hispanic⁵	936	58	62.0	550	601.1	86	95.4
15-17	314	20	63.7	169	545.2	27	88.2
Married	13	2	153.8	6	500.0	1	83.3
Unmarried	301	18	59.8	163	547.0	26	88.4
18-19	622	38	61.1	381	629.8	59	99.2
Married	115	6	52.2	85	752.2	13	116.1
Unmarried	507	32	63.1	296	601.6	46	95.2

— Quantity is zero.

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

² All rates per 1,000 births.

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

⁴ Includes Asian, Native Hawaiian and Pacific Islander.

⁵ Includes any race.

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

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

TABLE 4-8. Births to teens 15-19 by level of prenatal care, low birthweight rates, and county of residence, Oregon, 2013

County of residence	Total		Low weight births		First trimester care		Inadequate care ³	
	Number	Rate ²	Number	Rate ³	Number	Rate ³	Number	Rate ²
Total	2,595	21.0	188	72.4	1,637	641.0	228	91.0
Baker	17	§ 39.4	1	58.8	8	470.6	1	58.8
Benton	28	§ 6.5	6	214.3	14	500.0	5	185.2
Clackamas	177	§ 14.2	13	73.4	105	596.6	15	86.2
Clatsop	30	27.5	3	100.0	23	766.7	—	—
Columbia	34	22.1	1	29.4	25	781.2	2	64.5
Coos	48	26.3	5	104.2	31	645.8	2	41.7
Crook	15	26.8	—	—	9	600.0	1	66.7
Curry	9	18.4	*	*	*	*	*	*
Deschutes	82	17.6	6	73.2	58	716.0	5	66.7
Douglas	98	§ 31.2	9	91.8	65	663.3	6	61.2
Gilliam	—	—	—	—	—	—	—	—
Grant	3	17.1	*	*	*	*	*	*
Harney	8	36.0	*	*	*	*	*	*
Hood River	15	19.8	—	—	11	785.7	1	71.4
Jackson	171	§ 26.5	10	58.5	110	650.9	12	73.2
Jefferson	31	§ 43.2	5	161.3	16	516.1	6	214.3
Josephine	62	26.8	2	32.3	41	661.3	4	64.5
Klamath	83	§ 38.6	12	144.6	58	707.3	3	37.5
Lake	5	23.6	*	*	*	*	*	*
Lane	205	§ 16.2	11	53.7	139	678.0	24	117.1
Lincoln	19	18.2	1	52.6	12	666.7	2	111.1
Linn	94	24.6	5	53.2	67	720.4	8	86.0
Malheur	48	§ 45.2	2	41.7	25	520.8	8	166.7
Marion	330	§ 28.9	25	75.8	192	589.0	27	84.4
Morrow	10	23.9	1	100.0	8	800.0	1	100.0
Multnomah	388	§ 18.9	33	85.1	241	627.6	45	120.6
Polk	47	15.2	2	42.6	32	711.1	8	181.8
Sherman	1	23.3	*	*	*	*	*	*
Tillamook	15	23.4	—	—	10	666.7	—	—
Umatilla	116	§ 43.5	7	60.3	86	741.4	8	69.0
Union	20	22.1	2	100.0	16	842.1	—	—
Wallowa	2	13.0	*	*	*	*	*	*
Wasco	25	33.2	—	—	17	708.3	—	—
Washington	283	§ 16.8	19	67.1	150	§ 568.2	26	102.4
Wheeler	—	—	—	—	—	—	—	—
Yamhill	76	19.8	5	65.8	54	710.5	6	78.9

— Quantity is zero.

¹ Less than five 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 five 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, 2013

Birth outcomes	Total births	Mother's age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total births	45,136	15	82	234	383	742	1,154	2,595	42,522	4
Birthweight¹										
1499 grams or less										
<28 weeks	223	–	1	2	1	9	7	20	203	–
28-36 weeks	221	–	1	1	–	9	8	19	202	–
37-40 weeks	2	–	–	–	–	–	–	–	2	–
41+ weeks	2	–	–	–	–	–	–	–	2	–
Unknown	–	–	–	–	–	–	–	–	–	–
1500-2499 grams										
<28 weeks	–	–	–	–	–	–	–	–	–	–
28-36 weeks	1,516	–	–	5	16	28	34	83	1,432	1
37-40 weeks	865	–	–	6	12	13	34	65	799	1
41+ weeks	13	–	–	–	–	1	–	1	12	–
Unknown	3	–	–	–	–	–	–	–	3	–
2500+ grams										
<28 weeks	–	–	–	–	–	–	–	–	–	–
28-36 weeks	1,467	1	2	6	16	19	36	79	1,387	–
37-40 weeks	35,491	12	66	191	284	585	903	2,029	33,449	1
41+ weeks	5,287	1	12	22	54	78	131	297	4,988	1
Unknown	40	1	–	1	–	–	1	2	37	–
5 Minute apgar										
0-3	353	–	–	–	5	9	14	28	325	–
4-6	970	–	–	5	8	22	37	72	898	–
7-10	43,734	15	81	229	370	711	1,103	2,494	41,223	2
Not stated	79	–	1	–	–	–	–	1	76	2
Tobacco used										
Yes	4,585	2	6	28	54	111	221	420	4,163	–
No	40,317	13	76	206	326	626	932	2,166	38,138	–
Unknown	234	–	–	–	3	5	1	9	221	4
Alcohol used										
Yes	376	–	–	1	–	–	2	3	373	–
No	43,621	15	82	228	377	719	1,117	2,523	41,083	–
Not reported	914	–	–	4	5	19	28	56	856	2
Unknown	225	–	–	1	1	4	7	13	210	2
Birth order										
1 st	18,184	15	81	229	365	641	934	2,250	15,916	3
2 nd	14,469	–	1	5	16	91	198	311	14,157	1
3 rd	7,260	–	–	–	2	10	22	34	7,226	–
4 th	3,082	–	–	–	–	–	–	–	3,082	–
5+	2,141	–	–	–	–	–	–	–	2,141	–
Prenatal care										
No care	290	1	1	6	4	7	5	23	265	1
Little or late ²	2,175	3	5	23	29	59	89	205	1,967	–
Adequate ³	41,046	11	74	202	340	638	1,024	2,278	38,757	–
Unknown	1,625	–	2	3	10	38	36	89	1,533	3

– Quantity is zero.

¹ The birthweight was unknown for three infants.

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

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

TABLE 4-10. Demographic characteristics of mother by age, Oregon residents, 2013

Demographics of mother	Total births	Mother's age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total births	45,136	15	82	234	383	742	1,154	2,595	42,522	4
Ethnicity/race¹										
White	31,107	6	36	84	187	396	664	1,367	29,732	2
African American	923	1	3	6	8	19	43	79	843	–
American Indian	551	–	–	5	9	13	18	45	506	–
Asian	2,120	–	1	3	2	4	4	14	2,106	–
Native Hawaiian/Pacific Islander	293	–	–	1	4	9	10	24	269	–
Other and multiple races ² ...	1,702	–	5	11	20	35	59	130	1,570	2
Total Hispanic	8,440	8	37	124	153	266	356	936	7,496	–
Marital status										
Unmarried	16,046	15	81	233	345	643	945	2,247	13,783	1
Married	28,968	–	1	1	37	99	207	345	28,622	1
Unknown	122	–	–	–	1	–	2	3	117	2
Education										
8th grade or less	1,637	11	16	12	18	17	18	81	1,544	1
Some high school	5,214	4	62	202	270	322	322	1,178	4,032	–
High school graduate/GED	10,049	–	3	18	85	323	548	977	9,072	–
Some college	11,213	–	–	–	5	75	257	337	10,876	–
Associate's degree	3,576	–	–	–	1	1	5	7	3,569	–
Bachelor's degree	8,301	–	–	–	–	–	–	–	8,301	–
Postbaccalaureate	4,891	–	–	–	–	–	–	–	4,891	–
Unknown	255	–	1	2	4	4	4	15	237	3
Birth order										
1 st	18,184	15	81	229	365	641	934	2,250	15,916	3
2 nd	14,469	–	1	5	16	91	198	311	14,157	1
3 rd	7,260	–	–	–	2	10	22	34	7,226	–
4 th	3,082	–	–	–	–	–	–	–	3,082	–
5+	2,141	–	–	–	–	–	–	–	2,141	–
Unknown	–	–	–	–	–	–	–	–	–	–
Start of prenatal care										
1 st Trimester	34,546	6	40	130	231	480	756	1,637	32,903	–
2 nd Trimester	7,932	5	36	80	123	188	312	739	7,188	–
3 rd Trimester	1,616	3	4	18	20	47	66	155	1,458	–
No Care	290	1	1	6	4	7	5	23	265	1
Prenatal care										
Inadequate prenatal care ¹ ...	2,465	4	6	29	33	66	94	228	2,232	1
Adequate	41,046	11	74	202	340	638	1,024	2,278	38,757	–
Source of payment										
Medicaid/OHP*	19,587	11	56	167	280	545	887	1,935	17,641	–
Private insurance	23,693	4	24	61	89	185	237	596	23,091	2
Self-pay	1,055	–	1	5	10	6	7	29	1,026	–
Other coverage	648	–	–	–	2	5	17	24	624	–
Unknown mention	153	–	1	1	2	1	6	11	140	2

– Quantity is zero.

¹ Race categories are for single mention and exclude Hispanic ethnicity.² 'Other and multiple races' includes missing or unknown race.³ Less than five 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, 2013 (revised)

Demographics of patient	Total ¹	Patient's age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total abortions	7,743	18	51	80	172	258	348	909	6,731	85
Ethnicity/race										
Non-Hispanic White	5,602	9	37	55	130	176	261	659	4,883	51
Non-Hispanic African American	540	1	5	4	9	19	31	68	466	5
Non-Hispanic American Indian	170	2	1	1	6	14	8	30	137	1
Non-Hispanic Asian ²	282	–	–	1	3	5	15	24	256	2
Total Hispanic	850	6	7	14	22	38	32	113	718	13
Marital status										
Unmarried	5,325	15	45	69	149	204	289	756	4,513	41
Married	1,233	–	–	–	2	6	7	15	1,202	16
Unknown	1,185	3	6	11	21	48	52	138	1,016	28
Education										
8 th grade or less	184	11	7	3	1	3	5	19	151	3
9 th grade	88	4	20	10	5	4	5	44	38	2
10 th grade	227	–	17	40	21	8	13	99	128	–
11 th grade	576	–	1	18	91	60	43	213	361	2
12 th grade	2,488	1	1	2	34	128	164	329	2,136	22
Some college	2,248	–	–	–	3	28	98	129	2,089	30
College/postbaccalaureate	1,296	–	–	1	1	1	1	4	1,273	19
Unknown	636	2	5	6	16	26	19	72	555	7
Children now alive										
One	1,737	1	–	2	13	28	61	104	1,613	19
Two	1,338	–	–	–	1	6	8	15	1,301	22
Three	563	–	–	–	–	2	1	3	551	9
Four+	281	–	–	–	–	1	–	1	279	1
Unknown	320	1	2	3	8	26	8	47	270	2
Previous abortions										
None	4,414	17	51	77	155	204	275	762	3,588	47
One	1,820	–	–	2	13	31	50	96	1,706	18
Two	702	–	–	–	1	7	13	21	674	7
Three+	589	–	–	–	–	3	2	5	575	9
Unknown	218	1	–	1	3	13	8	25	188	4
Gestation										
Eight weeks or less	4,968	7	32	44	101	158	205	540	4,369	52
9-12	1,674	6	13	23	48	64	88	236	1,419	13
13-16	521	2	2	4	12	15	29	62	452	5
17+	374	2	3	7	9	14	15	48	321	3
Unknown	206	1	1	2	2	7	11	23	170	12
Contraceptive used(revised)										
None used	5,542	13	34	58	134	197	269	692	4,783	54
Pills used	625	–	5	4	11	17	33	70	547	8
Condom used	951	4	6	12	21	23	33	95	837	15
Other	461	–	1	3	1	4	14	23	429	9
Medical procedure										
Suction curettage	3,555	8	24	41	81	114	160	420	3,103	24
Medical (non-surgical)	2,317	3	15	23	50	76	111	275	2,003	36
Dilation & evacuation	1,824	7	12	16	40	67	73	208	1,585	24
Other specified	43	–	–	–	1	1	4	6	36	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, 2013

Father's age	Total	Mother's age								
		<15	15	16	17	18	19	20-24	25+	N.S.
Total	45,136	15	82	234	383	742	1,154	9,507	33,015	4
<15	6	3	1	—	1	—	—	1	—	—
15	21	2	7	4	4	—	2	2	—	—
16	67	—	8	24	16	10	4	3	2	—
17	150	—	11	38	44	31	12	11	3	—
18	306	—	7	32	68	97	61	39	2	—
19	502	—	6	19	64	105	139	149	20	—
20	695	—	—	14	34	94	166	353	34	—
21	908	—	—	3	22	80	142	600	61	—
22	1,096	—	—	2	6	57	100	803	128	—
23	1,299	—	2	3	8	33	72	950	231	—
24	1,542	—	—	3	5	18	55	1,050	411	—
25+	34,520	—	1	2	7	54	156	4,252	30,048	—
N.S.	4,024	10	39	90	104	163	245	1,294	2,075	4

— Quantity is zero.

TABLE 4-13. Age of father by age of mother, Oregon residents, 2009-2013

Father's age	Total	Mother's Age								
		<15	15	16	17	18	19	20-24	25+	N.S.
Total	228,115	134	556	1,356	2,575	4,573	7,104	50,276	161,532	9
<15	22	6	9	3	1	—	—	2	1	—
15	108	11	38	30	16	8	2	3	—	—
16	410	11	72	133	110	54	20	7	3	—
17	885	13	76	188	256	184	98	58	12	—
18	1,742	2	50	181	378	507	347	252	25	—
19	2,972	1	17	131	374	699	831	817	102	—
20	4,174	2	5	64	274	647	1,017	1,963	202	—
21	5,081	1	5	38	134	461	889	3,169	384	—
22	6,033	—	1	25	81	285	688	4,273	680	—
23	6,838	—	3	9	45	217	446	4,898	1,220	—
24	7,981	—	1	14	35	134	352	5,250	2,195	—
25+	171,359	1	4	14	86	404	1,064	22,844	146,941	1
N.S.	20,510	86	275	526	785	973	1,350	6,740	9,767	8

— Quantity is zero.

APPENDIX A: POPULATION

Appendix A: Population

Table A-1. Population distribution by age and sex, Oregon, 1950, 1960, 1970, 1980, 1990, 2000-2013

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
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
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
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

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

Year and Sex	Total	Age Groups															
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
Table A-1. Population distribution by age and sex, Oregon, 1950, 1960, 1970, 1980, 1990, 2000-2013																	
Age groups																	
Year and sex	Total	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+
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	137,943	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
2011	3,857,625	237,996	236,267	242,121	253,963	253,352	266,455	261,862	255,011	250,951	261,846	272,797	272,104	240,710	177,377	127,550	247,263
M	1,908,309	122,060	120,597	123,953	130,156	128,563	134,328	132,353	129,384	126,798	130,250	133,614	132,212	117,136	85,390	60,582	100,994
F	1,949,316	115,936	115,670	118,168	123,807	124,789	132,127	129,509	125,627	124,153	131,596	139,183	139,892	123,574	91,988	66,968	146,330
2012	3,883,735	238,555	235,721	241,975	253,188	253,178	267,156	263,637	257,695	252,604	260,575	269,627	270,538	243,930	186,091	135,537	253,729
M	1,920,130	122,352	120,257	123,923	129,710	128,432	134,658	133,105	130,420	127,410	129,742	132,360	131,449	118,459	89,437	64,345	104,071
F	1,963,604	116,203	115,463	118,052	123,478	124,746	132,498	130,532	127,275	125,194	130,833	137,267	139,089	125,470	96,653	71,192	149,658
2013	3,919,020	239,469	235,523	242,005	252,560	253,762	268,823	265,499	260,497	254,373	259,448	266,638	269,109	247,305	196,642	145,070	262,300
M	1,936,248	122,827	120,097	123,984	129,342	128,675	135,464	133,899	131,508	128,073	129,299	131,187	130,750	119,852	94,353	68,838	108,100
F	1,982,772	116,642	115,426	118,021	123,217	125,087	133,359	131,599	128,989	126,300	130,149	135,451	138,359	127,453	102,288	76,232	154,199

Table A-2. Population by age and sex for Oregon and its counties: July 1, 2013

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	3,919,020	239,469	235,523	242,005	148,616	103,943	253,762	268,823	265,499	260,497	254,373	259,448	266,638	269,109	247,305	196,642	145,070	104,629	76,928	80,742
BAKER	16,280	880	812	907	637	296	624	764	785	833	882	1,019	1,176	1,345	1,385	1,259	1,012	706	505	453
BENTON	87,725	3,617	3,950	4,392	3,179	5,634	13,780	6,273	4,924	4,432	4,410	4,839	5,338	5,658	3,946	3,946	2,826	2,157	1,563	1,756
CLACKAMAS	386,080	21,475	23,939	26,443	16,485	9,191	20,047	21,523	22,601	24,532	26,386	28,560	29,515	29,348	26,207	19,978	14,100	9,956	7,298	8,496
CLATSOP	37,270	2,119	1,993	2,102	1,353	956	2,168	2,079	2,140	2,153	2,111	2,443	2,632	3,103	2,946	2,465	1,671	1,175	858	802
COLUMBIA	49,850	2,739	2,991	3,465	2,091	1,115	2,329	2,418	3,068	3,111	3,507	3,594	3,973	3,905	3,656	2,834	1,929	1,392	870	861
COOS	62,860	3,367	3,119	3,289	2,178	1,457	2,967	3,151	3,352	3,205	3,295	3,922	4,554	5,110	5,204	4,633	3,795	2,711	1,911	1,639
CROOK	20,690	1,060	1,158	1,293	779	369	842	898	1,087	1,073	1,029	1,346	1,496	1,617	1,768	1,239	830	552	499	499
CURRY	22,300	838	828	1,007	678	339	748	876	843	990	1,027	1,362	1,629	2,017	2,346	1,725	1,299	1,182	842	773
DESCHUTES	162,525	9,935	10,163	10,532	6,189	3,509	8,260	9,905	10,353	11,035	10,986	11,087	11,332	11,339	11,229	9,229	6,721	4,457	3,177	3,087
DOUGLAS	108,850	5,672	5,614	6,245	4,123	2,424	5,287	5,241	5,673	5,573	5,944	6,755	7,772	8,523	7,709	6,305	4,712	3,303	3,235	3,235
GILLIAM	1,945	104	77	103	70	25	59	73	99	83	110	136	162	182	153	114	77	62	79	79
GRANT	7,435	323	327	413	258	121	254	230	342	366	362	462	531	661	683	648	501	383	244	265
HARNEY	7,260	393	412	439	324	164	286	355	399	383	391	466	524	583	518	518	381	293	176	178
HOOD RIVER	23,295	1,496	1,647	1,695	1,021	559	1,208	1,395	1,464	1,522	1,687	1,708	1,754	1,652	1,294	1,015	677	580	417	505
JACKSON	206,310	12,158	11,472	12,595	7,775	5,015	11,872	11,845	11,865	11,757	12,141	13,152	14,266	15,225	12,496	12,496	9,562	7,200	5,375	5,634
JEFFERSON	22,040	1,524	1,344	1,521	939	513	1,170	1,255	1,232	1,285	1,368	1,523	1,492	1,576	1,557	1,325	1,030	650	434	302
JOSEPHINE	82,815	4,204	4,236	4,871	3,104	1,758	3,717	3,839	4,196	4,139	4,417	5,123	5,800	6,332	6,969	6,098	4,979	3,653	2,640	2,739
KLAMATH	66,810	3,944	3,778	4,104	2,604	1,764	4,078	3,642	3,642	3,756	3,854	4,327	4,569	5,075	4,905	4,230	3,220	2,402	1,547	1,368
LAKE	7,940	360	349	416	322	109	295	348	429	441	531	556	638	662	693	617	442	348	208	177
LANE	356,125	17,844	18,040	19,624	12,971	12,333	31,080	24,474	22,686	20,849	20,930	22,051	23,770	25,476	23,840	19,276	14,509	10,242	7,895	8,235
LINCOLN	46,560	2,321	2,018	2,170	1,427	848	1,934	2,205	2,389	2,343	2,417	2,846	3,492	4,254	4,532	3,950	2,958	1,980	1,322	1,155
LINN	118,665	7,764	7,613	8,032	4,739	2,973	6,812	7,265	7,297	7,413	7,072	7,764	7,969	8,358	7,665	6,471	4,896	3,503	2,573	2,483
MALHEUR	31,440	2,302	2,135	2,147	1,290	932	2,068	2,068	2,012	1,961	1,914	1,926	1,935	1,902	1,740	1,547	1,234	934	649	745
MARION	322,880	23,938	23,235	22,951	14,006	9,586	21,823	22,165	21,424	20,433	19,821	20,041	20,306	19,904	17,984	14,186	10,783	7,911	6,034	6,350
MORROW	11,425	775	850	928	559	322	602	649	649	737	678	721	802	770	750	560	436	300	184	154
MULTNOMAH	756,530	46,831	41,881	39,579	23,191	18,123	53,848	70,393	68,050	62,887	55,876	51,122	49,609	47,706	40,411	29,182	20,137	14,416	10,969	12,321
POLK	77,065	5,048	4,978	5,413	3,250	2,831	5,974	4,615	4,354	4,522	4,579	4,632	4,859	4,983	4,654	3,898	2,942	2,294	1,627	1,613
SHERMAN	1,780	100	87	100	61	29	68	79	99	99	83	129	139	128	157	119	108	85	60	49
TILLAMOOK	25,375	1,437	1,309	1,404	911	502	1,043	1,204	1,257	1,352	1,401	1,530	1,884	2,165	2,197	1,990	1,478	1,040	722	551
UMATILLA	77,895	5,807	5,647	5,620	3,427	2,182	4,956	5,263	4,968	5,032	4,886	4,944	4,996	5,038	4,376	3,488	2,592	1,878	1,438	1,354
UNION	26,325	1,725	1,637	1,591	1,040	909	1,853	1,576	1,352	1,378	1,383	1,559	1,726	1,892	1,813	1,507	1,164	874	634	713
WALLOWA	7,045	408	382	359	217	99	228	273	355	303	364	417	521	627	650	582	452	319	242	246
WASCO	25,810	1,693	1,592	1,614	1,045	599	1,352	1,487	1,473	1,461	1,477	1,540	1,760	1,864	1,886	1,515	1,134	882	616	820
WASHINGTON	550,990	38,704	39,062	37,469	21,964	12,874	33,172	42,806	42,377	42,545	40,325	39,151	36,830	33,471	28,253	20,444	14,426	10,345	7,933	8,841
WHEELER	1,430	70	55	77	56	20	37	59	63	66	56	86	94	135	114	144	101	90	57	49
YAMHILL	101,400	6,493	6,789	7,094	4,352	3,462	6,920	6,072	6,201	6,451	6,545	6,609	6,794	6,523	4,831	3,416	2,669	1,993	1,993	2,213

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, 2013

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	1,936,248	122,827	120,097	123,984	76,437	52,905	128,675	135,464	133,899	131,508	128,073	129,299	131,187	130,750	119,852	94,353	68,838	47,433	32,582	28,086
BAKER	8,240	419	421	458	344	164	331	410	428	456	458	533	573	665	679	636	497	359	236	173
BENTON	43,846	1,803	1,902	2,246	1,635	2,829	7,414	3,414	2,502	2,205	2,187	2,355	2,551	2,755	2,500	1,895	1,359	990	666	638
CLACKAMAS	189,519	11,228	12,164	13,659	8,410	4,839	10,294	10,846	11,225	12,105	12,986	14,008	14,469	14,260	12,693	9,590	6,575	4,440	2,968	2,761
CLATSOP	18,509	1,001	1,009	1,027	731	499	1,160	1,069	1,140	1,094	1,071	1,225	1,297	1,496	1,444	1,199	836	560	360	292
COLUMBIA	24,948	1,416	1,519	1,829	1,098	591	1,209	1,200	1,517	1,528	1,753	1,800	1,980	1,963	1,794	1,468	942	664	369	306
COOS	31,039	1,728	1,562	1,668	1,089	750	1,512	1,603	1,692	1,641	1,645	1,960	2,246	2,468	2,232	1,860	1,660	1,305	867	682
CROOK	10,234	549	587	668	403	196	433	438	527	528	570	642	748	756	857	830	643	397	270	193
CURRY	11,036	448	429	537	358	187	392	459	420	494	465	673	783	1,000	1,118	1,095	876	582	413	307
DESCHUTES	80,263	5,099	5,210	5,421	3,197	1,817	4,211	4,990	5,179	5,535	5,415	5,390	5,463	5,297	5,453	4,540	3,389	2,082	1,473	1,101
DOUGLAS	53,745	2,931	2,833	3,214	2,138	1,301	2,722	2,602	2,866	2,756	2,918	3,318	3,836	4,112	4,326	3,827	3,110	2,213	1,525	1,198
GILLIAM	1,005	59	36	62	40	16	35	40	56	49	59	69	89	81	99	68	58	37	27	24
GRANT	3,683	154	159	198	139	71	126	145	174	189	164	230	239	332	336	347	264	197	111	108
HARNEY	3,685	213	217	223	183	89	155	158	212	186	183	222	264	294	306	280	202	149	81	70
HOOD RIVER	11,676	750	884	869	515	305	656	719	734	773	813	869	871	842	669	498	325	270	162	150
JACKSON	100,525	6,210	5,813	6,394	3,911	2,478	5,882	5,991	5,840	5,935	6,025	6,495	6,925	7,318	7,096	5,992	4,598	3,290	2,292	2,041
JEFFERSON	11,524	819	676	789	477	267	631	664	674	708	736	811	773	828	778	671	565	335	206	115
JOSEPHINE	40,281	2,131	2,139	2,454	1,652	937	1,852	1,989	2,101	2,089	2,161	2,500	2,780	2,972	3,334	2,910	2,414	1,696	1,148	1,003
KLAMATH	33,182	1,975	1,986	2,066	1,344	915	2,070	1,829	1,830	1,885	1,931	2,152	2,234	2,472	2,429	2,113	1,581	1,156	703	509
LAKE	4,254	166	185	202	165	61	168	189	255	250	308	317	332	369	352	336	241	176	99	82
LANE	174,920	9,064	9,135	10,112	6,678	6,032	16,092	12,413	11,585	10,469	10,480	10,795	11,475	12,115	11,560	9,132	6,879	4,717	3,303	2,885
LINCOLN	22,656	1,173	1,037	1,092	785	461	1,036	1,132	1,214	1,223	1,158	1,394	1,635	1,963	2,120	1,857	1,442	907	614	413
LINN	58,519	4,078	3,939	4,084	2,394	1,519	3,363	3,610	3,594	3,710	3,546	3,844	3,931	4,123	3,735	3,126	2,300	1,580	1,148	896
MALHEUR	17,018	1,184	1,099	1,066	672	500	1,227	1,228	1,212	1,171	1,128	1,092	1,109	992	932	771	594	456	289	297
MARION	160,398	12,398	11,861	11,808	7,211	4,950	11,316	11,328	11,040	10,304	10,097	10,071	10,037	9,644	8,624	6,586	5,009	3,477	2,485	2,151
MORROW	5,867	406	426	474	284	179	331	354	319	385	348	379	403	376	396	273	215	153	100	65
MULTNOMAH	373,442	23,957	21,339	20,223	11,854	8,981	26,111	34,622	34,121	32,088	28,659	25,987	24,806	23,675	19,759	13,777	9,149	6,135	4,275	3,921
POLK	37,459	2,555	2,586	2,746	1,682	1,321	2,898	2,280	2,107	2,214	2,241	2,321	2,313	2,356	2,231	1,840	1,397	1,042	715	612
SHERMAN	905	48	43	52	34	14	36	35	54	59	41	67	71	63	84	57	49	44	26	28
TILLAMOOK	12,793	728	659	741	482	294	565	639	653	697	730	776	919	1,059	1,083	969	740	502	331	225
UMATILLA	40,736	3,020	2,798	2,907	1,779	1,152	2,775	2,971	2,779	2,733	2,666	2,649	2,597	2,635	2,212	1,736	1,318	876	627	507
UNION	12,999	886	858	794	578	466	874	826	692	660	716	717	840	955	896	754	590	393	268	234
WALLOWA	3,417	192	173	169	109	51	105	135	168	156	176	181	253	293	333	286	251	162	117	107
WASCO	12,786	836	808	794	566	322	679	778	743	738	737	745	870	924	948	786	555	403	255	299
WASHINGTON	269,667	19,774	20,062	19,281	11,218	6,610	16,502	21,105	21,008	21,127	20,116	19,307	18,053	16,051	13,199	9,459	6,343	4,413	3,150	2,889
WHEELER	711	41	30	38	33	16	19	33	41	30	23	37	44	65	49	79	43	44	27	18
YAMHILL	50,762	3,386	3,510	3,622	2,249	1,725	3,493	3,221	3,195	3,336	3,362	3,371	3,376	3,181	2,896	2,340	1,626	1,229	857	786

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, 2013

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	1,982,772	116,642	115,426	118,021	72,179	51,038	125,087	133,359	131,599	128,989	126,300	130,149	135,451	138,359	127,453	102,288	76,232	57,196	44,346	52,657
BAKER	8,040	461	391	449	293	132	293	354	357	378	425	486	604	679	706	623	514	347	269	279
BENTON	43,879	1,813	2,048	2,146	1,543	2,805	6,367	2,859	2,422	2,226	2,223	2,484	2,787	2,903	2,552	2,051	1,467	1,167	897	1,118
CLACKAMAS	196,561	10,246	11,775	12,785	8,075	4,352	9,753	10,678	11,376	12,427	13,400	14,552	15,046	15,088	13,514	10,388	7,525	5,516	4,330	5,735
CLATSOP	18,761	1,117	984	1,076	621	457	1,008	1,010	999	1,059	1,041	1,218	1,335	1,607	1,502	1,267	835	615	498	511
COLUMBIA	24,902	1,323	1,472	1,636	993	524	1,120	1,218	1,550	1,583	1,754	1,795	1,993	1,941	1,861	1,366	988	728	502	555
COOS	31,821	1,639	1,557	1,621	1,089	707	1,455	1,548	1,660	1,564	1,650	1,962	2,308	2,643	2,675	2,401	1,936	1,407	1,044	957
CROOK	10,456	511	571	625	376	173	408	460	560	545	588	705	748	861	911	796	596	433	282	306
CURRY	11,264	390	399	471	320	152	356	417	423	496	562	689	846	1,018	1,227	1,081	923	600	428	466
DESCHUTES	82,262	4,836	4,953	5,111	2,992	1,691	4,049	4,915	5,174	5,500	5,571	5,697	5,868	6,042	5,776	4,689	3,332	2,375	1,704	1,987
DOUGLAS	55,105	2,741	2,781	3,031	1,985	1,124	2,565	2,638	2,807	2,800	3,027	3,438	3,936	4,411	4,412	3,883	3,195	2,499	1,778	2,037
GILLIAM	9,440	45	42	41	31	9	23	32	43	34	50	67	72	100	78	85	57	40	34	56
GRANT	3,752	169	168	214	118	51	128	145	168	178	197	232	292	329	348	301	238	186	133	157
HARNEY	3,575	180	195	216	141	75	131	198	187	197	208	245	260	289	288	239	180	144	95	108
HOOD RIVER	11,619	745	762	826	506	253	552	676	730	749	874	839	883	810	625	517	351	310	255	355
JACKSON	105,785	5,949	5,659	6,201	3,864	2,537	5,990	5,854	6,025	5,822	6,116	6,657	7,341	7,907	7,811	6,502	4,964	3,910	3,083	3,593
JEFFERSON	10,516	705	668	731	462	245	539	591	558	577	633	712	718	749	778	654	465	315	228	187
JOSEPHINE	42,534	2,073	2,097	2,417	1,452	821	1,865	1,850	2,095	2,050	2,256	2,623	3,020	3,360	3,635	3,188	2,565	1,957	1,474	1,736
KLAMATH	33,628	1,970	1,792	2,038	1,261	849	2,008	1,813	1,812	1,870	1,923	2,175	2,335	2,602	2,476	2,117	1,639	1,246	844	859
LAKE	3,686	194	163	214	156	48	127	160	174	191	223	240	305	293	341	280	201	172	109	95
LANE	181,205	8,780	8,905	9,512	6,293	3,301	14,988	12,061	11,101	10,380	10,450	11,256	12,295	13,361	12,280	10,145	7,630	5,525	4,592	5,351
LINCOLN	23,904	1,148	980	1,078	643	387	898	1,073	1,175	1,119	1,259	1,451	1,857	2,291	2,412	2,093	1,516	1,074	708	742
LINN	60,146	3,686	3,674	3,948	2,346	1,454	3,449	3,656	3,703	3,704	3,526	3,921	4,038	4,236	3,930	3,345	2,596	1,924	1,425	1,587
MALHEUR	14,422	1,119	1,035	1,081	618	432	841	840	800	789	786	834	826	911	808	775	640	478	360	448
MARION	162,482	11,540	11,374	11,143	6,794	4,636	10,507	10,837	10,383	10,129	9,724	9,970	10,268	10,260	9,360	7,600	5,775	4,435	3,550	4,199
MORROW	5,558	369	424	454	275	144	271	295	330	353	329	341	399	394	354	287	221	146	83	89
MULTNOMAH	383,088	22,873	20,542	19,356	11,337	9,142	27,737	35,771	33,929	30,798	27,217	25,135	24,803	24,031	20,651	15,405	10,987	8,281	6,693	8,401
POLK	39,606	2,492	2,392	2,667	1,568	1,510	3,076	2,335	2,247	2,308	2,338	2,310	2,546	2,628	2,423	2,058	1,544	1,252	911	1,000
SHERMAN	875	52	44	48	28	15	32	44	45	39	42	62	68	65	72	62	60	41	34	21
TILLAMOOK	12,582	709	650	663	429	208	478	564	603	654	670	753	965	1,105	1,114	1,022	738	537	391	327
UMATILLA	37,159	2,787	2,849	2,714	1,649	1,030	2,181	2,292	2,189	2,299	2,220	2,295	2,399	2,403	2,164	1,752	1,274	1,003	811	848
UNION	13,326	839	779	797	462	443	979	750	659	718	667	842	886	937	917	752	574	481	366	479
WALLOWA	3,628	216	209	190	108	48	124	138	187	147	188	237	268	334	317	296	200	157	125	139
WASCO	13,024	857	783	821	479	277	673	709	731	724	740	795	890	940	938	729	579	479	361	521
WASHINGTON	281,323	18,930	19,000	18,188	10,745	6,264	16,670	21,701	21,369	21,418	20,209	19,845	18,777	17,420	15,054	10,985	8,082	5,932	4,784	5,952
WHEELER	719	30	25	39	23	5	18	26	22	36	32	49	50	69	65	65	58	46	30	30
YAMHILL	50,638	3,107	3,280	3,471	2,103	1,737	3,427	2,851	3,006	3,115	3,183	3,238	3,418	3,342	3,077	2,491	1,790	1,440	1,136	1,426

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

APPENDIX B: TECHNICAL NOTES

Appendix B: Technical notes - definitions

Births

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

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

Deaths

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

**Medical personnel -
abbreviations used in tables**

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

Endnote

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

Appendix B: Technical notes - methodology

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

— Samuel Johnson

Induced termination of pregnancy

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

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

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

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

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

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

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

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

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

Substituting into the formula given above:

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

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

Teen pregnancy

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

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

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

Demographics

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

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

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

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

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

—Alfred North Whitehead

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

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

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

Step 1: Finding the correct number

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

Which event or events are appropriate?

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

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

Who should be counted?

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

Occurrence data:

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

Residence data:

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

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

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

Step 2: Making the number meaningful with rates and ratios

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

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

Here is an example:

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

the 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.

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

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

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

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

Step 4: Analyzing the data

The first three steps have been fairly mechanical:

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

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

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

Help

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

Endnote

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

Appendix B: Technical notes - formulas

GENERAL:

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

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

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

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

PREGNANCY:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DEATHS:

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

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

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

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

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

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

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

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

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

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

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

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

MARRIAGE AND DIVORCE:

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

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

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

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

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

CALCULATING CONFIDENCE INTERVALS FOR RATES:

Confidence limits for rates based on less than 100 events

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

Lower Limit = R x L

Upper Limit = R x U

where:

R = the rate

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

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

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

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

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

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

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

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

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

Confidence limits for rates based on 100 or more events

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

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

where:

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

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

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

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

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

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

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

DETERMINING STATISTICAL SIGNIFICANCE FOR RATES:

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

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

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

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

Baker County teen pregnancy rate for age 10-17

Lower Limit = 6.7

Upper Limit = 22.7

Jackson County teen pregnancy rate for age 10-17

Lower Limit = 11.5

Upper Limit = 16.0

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

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

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

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

where:

R_1 = the first rate

R_2 = the second rate

N_1 = the first number

N_2 = the second number

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

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

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

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

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

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

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

$$1.96 \sqrt{0.194}$$

$$= 1.96 \times .44$$

$$= 0.86$$

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

CALCULATING RATES ADJUSTED FOR SEX/AGE/RACE:

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

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

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

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

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

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

REFERENCES

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

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

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

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

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APPENDIX D: SAMPLE FORMS

Appendix D: Sample forms — Certificate of Live Birth

OREGON DEPARTMENT OF HUMAN SERVICES
CENTER FOR HEALTH STATISTICS

136- **SAMPLE**

CERTIFICATE OF LIVE BIRTH

Local File Number _____ State File Number _____

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

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

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	
19a. OF HISPANIC ORIGIN? (Check "Yes" or "No") (If "yes," specify all that apply, e.g., Cuban, Mexican, Puerto Rican, etc.)		20. RACE (e.g., White, Black, American Indian, etc.) (Specify all that apply, including mixed blood)		21. EDUCATION (highest grade completed)	
19b. <input type="checkbox"/> Yes <input type="checkbox"/> No Specify _____		20a. _____		21a. _____	
19c. <input type="checkbox"/> Yes <input type="checkbox"/> No Specify _____		20b. _____		21b. _____	
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.)	28. NUMBER OF OTHER PREGNANCY OUTCOMES (Spontaneous or induced losses or ectopic pregnancies)	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)		30. PRINCIPAL SOURCE OF PAYMENT FOR THIS DELIVERY	
27a. Number Now Living: _____ <input type="checkbox"/> None	27b. Number Now Dead: _____ <input type="checkbox"/> None	Three months before Pregnancy _____ OR _____ First Trimester of Pregnancy _____ OR _____ Second Trimester of Pregnancy _____ OR _____ Third Trimester of Pregnancy _____ OR _____		<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)	
31d. PLACE WHERE THIS BIRTH OCCURRED (Check one.) <input type="checkbox"/> Hospital <input type="checkbox"/> Free-standing birthing center <input type="checkbox"/> Home Birth Planned to deliver at home? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Clinic / Doctor's Office <input type="checkbox"/> Other (Specify) _____		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

Appendix D: Sample forms — Report of Induced Termination of Pregnancy

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: <input type="checkbox"/> Never Married <input type="checkbox"/> Widowed <input type="checkbox"/> Separated <input type="checkbox"/> Now Married <input type="checkbox"/> Divorced <input type="checkbox"/> Unknown		
7. IS PATIENT OF HISPANIC ORIGIN? <input type="checkbox"/> NO <input type="checkbox"/> YES, specify Cuban, Mexican, Puerto Rican, etc. _____		8. Race (select one or more): <input type="checkbox"/> White <input type="checkbox"/> Black <input type="checkbox"/> American Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Japanese <input type="checkbox"/> Hawaiian <input type="checkbox"/> Filipino <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)
10. PREVIOUS PREGNANCIES (Complete all four sections; enter number or check "None")		College (1-4, 5+)	
Live Births		Other Terminations	
a. Now Living Number _____ None <input type="checkbox"/> 00 <input type="checkbox"/>	b. Now Dead Number _____ None <input type="checkbox"/> 00 <input type="checkbox"/>	c. Spontaneous Abortions, Miscarriages, Stillbirths, and Fetal Deaths Number _____ None <input type="checkbox"/> 00 <input type="checkbox"/>	d. Induced Abortions (Do not include this termination) Number _____ None <input type="checkbox"/> 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? <input type="checkbox"/> NO <input type="checkbox"/> YES; If Yes, specify method below. <input type="checkbox"/> Birth Control Pill <input type="checkbox"/> Foam <input type="checkbox"/> Hormone Implant; e.g., Norplant <input type="checkbox"/> Diaphragm <input type="checkbox"/> IUD <input type="checkbox"/> Condoms, Prophylactics <input type="checkbox"/> Rhythm <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Contraceptive Injection; e.g., Depo Provera			
14. PROCEDURE THAT TERMINATED THIS PREGNANCY (Check only one) <input type="checkbox"/> Suction Curettage <input type="checkbox"/> Medical (nonsurgical); specify medication(s) _____ <input type="checkbox"/> Dilution and Evacuation (D & E) <input type="checkbox"/> Intra-Uterine Instillation (Saline/prostaglandin) <input type="checkbox"/> Vaginal Prostaglandin <input type="checkbox"/> Sharp Curettage (D & C) <input type="checkbox"/> Hysterotomy/Hysterectomy <input type="checkbox"/> Other (specify) _____			
15. OTHER PROCEDURES USED FOR THIS TERMINATION (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Suction Curettage <input type="checkbox"/> Medical (nonsurgical); specify medication(s) _____ <input type="checkbox"/> Dilution and Evacuation (D & E) <input type="checkbox"/> Intra-Uterine Instillation (saline or prostaglandin) <input type="checkbox"/> Vaginal Prostaglandin <input type="checkbox"/> Sharp Curettage (D & C) <input type="checkbox"/> Other (specify) _____			
16. WAS WRITTEN POST-OPERATIVE/AFTER-CARE INFORMATION GIVEN TO PATIENT? <input type="checkbox"/> YES <input type="checkbox"/> NO			
17. WAS FOLLOW-UP VISIT RECOMMENDED? <input type="checkbox"/> YES <input type="checkbox"/> NO			
18. COMPLICATIONS AT TIME OF PROCEDURE (check all that apply): <input type="checkbox"/> None <input type="checkbox"/> Hemorrhage <input type="checkbox"/> Infection <input type="checkbox"/> Uterine perforation <input type="checkbox"/> Cervical laceration <input type="checkbox"/> Retained products <input type="checkbox"/> Failure of first method <input type="checkbox"/> Other (specify) _____			
19. AT THE TIME OF COMPLETION OF THIS REPORT FORM, HAD A FOLLOW UP VISIT OCCURRED AT THIS FACILITY? <input type="checkbox"/> NO <input type="checkbox"/> YES; If yes, specify complications (check all that apply): <input type="checkbox"/> None <input type="checkbox"/> Hemorrhage <input type="checkbox"/> Infection <input type="checkbox"/> Uterine perforation <input type="checkbox"/> Cervical laceration <input type="checkbox"/> Retained products <input type="checkbox"/> Failure of first method <input type="checkbox"/> Other (specify) _____			
20. AT THE TIME OF COMPLETION OF THIS REPORT FORM HAD A FOLLOW UP VISIT OCCURRED OUTSIDE THIS FACILITY? <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> UNKNOWN If yes, specify complications (check all that apply) & complete item 20a below: <input type="checkbox"/> None <input type="checkbox"/> Hemorrhage <input type="checkbox"/> Infection <input type="checkbox"/> Uterine perforation <input type="checkbox"/> Cervical laceration <input type="checkbox"/> Retained products <input type="checkbox"/> Failure of first method <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Unknown 20A. If yes, specify location of follow-up visit: <input type="checkbox"/> Physician's Office <input type="checkbox"/> Clinic <input type="checkbox"/> Hospital <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)

Appendix D: Sample forms — Application, License, and Record of Marriage

TYPE/PRINT IN PERMANENT BLACK INK.		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				
<input type="checkbox"/>	2. BIRTHPLACE (State or Foreign Country)		3. DATE OF BIRTH (Month, Day, Year)		4. AGE (18 or older, 17 with consent)
<input type="checkbox"/>	5. SEX	6. OCCUPATION		7. PREVIOUS MARITAL STATUS (Single, Widowed, Divorced)	
<input type="checkbox"/>	8a. FATHER'S NAME (First, Middle, Last)			8b. BIRTHPLACE (State or Foreign Country)	
<input type="checkbox"/>	9a. MOTHER'S NAME (First, Middle, Maiden Surname)			9b. BIRTHPLACE (State or Foreign Country)	
<input type="checkbox"/>	10. GROOM'S ADDRESS Street and Number City or Town County State Zip				
<input type="checkbox"/>	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				
<input type="checkbox"/>	12b. MAIDEN SURNAME (if Different)		12c. PREVIOUS NAME (if Different)		
<input type="checkbox"/>	13. BIRTHPLACE (State or Foreign Country)		14. DATE OF BIRTH (Month, Day, Year)		15. AGE (18 or older, 17 with consent)
<input type="checkbox"/>	16. SEX	17. OCCUPATION		18. PREVIOUS MARITAL STATUS (Single, Widowed, Divorced)	
<input type="checkbox"/>	19a. FATHER'S NAME (First, Middle, Last)			19b. BIRTHPLACE (State or Foreign Country)	
<input type="checkbox"/>	20a. MOTHER'S NAME (First, Middle, Maiden Surname)			20b. BIRTHPLACE (State or Foreign Country)	
<input type="checkbox"/>	21. BRIDE'S ADDRESS (Street and Number) City or Town County State Zip				
<input type="checkbox"/>	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.				
<input type="checkbox"/>	23. GROOM'S LEGAL SIGNATURE		24. BRIDE'S LEGAL SIGNATURE		
<input type="checkbox"/>	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.				
LICENSE 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)
<input type="checkbox"/>	26. DATE LICENSE ISSUED		27. SIGNATURE OF ISSUING OFFICIAL		28. TITLE OF ISSUING OFFICIAL
CEREMONY	29. I CERTIFY THAT THE ABOVE NAMED PERSONS WERE MARRIED ON - MONTH, DAY, YEAR		30a. WHERE MARRIED - CITY, TOWN/LOCATON		30b. COUNTY OREGON
<input type="checkbox"/>	31a. SIGNATURE OF PERSON PERFORMING CEREMONY		31b. NAME (Type/Print)		31c. TITLE
<input type="checkbox"/>	31d. NAME /ADDRESS OF OFFICIANT'S AUTHORIZING RELIGIOUS CONGREGATION/ORGANIZATION		31e. ADDRESS AND PHONE NUMBER OF PERSON PERFORMING CEREMONY		
<input type="checkbox"/>	32. WITNESS NAME		33. WITNESS NAME		
LOCAL OFFICIAL	34. SIGNATURE OF COUNTY CLERK OR DIRECTOR			35. DATE FILED BY LOCAL OFFICIAL (Month, Day, Year)	
		36. GROOM'S SOCIAL SECURITY NUMBER (specify #, none, unknown)		37. BRIDE'S SOCIAL SECURITY NUMBER (specify #, none, unknown)	
ORS 432.010 REQUIRED STATISTICAL INFORMATION: THE INFORMATION BELOW WILL NOT APPEAR ON CERTIFIED COPIES OF THE RECORD					
38. NUMBER OF THIS MARRIAGE - First, Second, etc. (Specify below)		39. IF PREVIOUSLY MARRIED, LAST MARRIAGE ENDED (Specify below) By Death, Divorce, Dissolution or Annulment (Specify below)		40. RACE - OPTIONAL, American Indian, Black, White, etc. (Specify below)	
		Date (Month, Day, Year)		41. EDUCATION (Specify below highest grade completed) Elementary/Secondary (0-12) College (1-4 or 5+)	
GROOM	38a.	39a.	39b.	40a.	41a.
BRIDE	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)					
ORIGINAL - VITAL RECORDS COPY					

Appendix D: Sample forms — Record of Dissolution of Marriage or Annulment



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	<p>I acknowledge that: I am entering into a domestic partnership with the party listed above (<i>Partner B</i>); 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.</p>		
	<p>Signature partner A (current name) _____ Date _____ State of _____</p>		
	<p>county of _____. This instrument was acknowledged before me on _____ (date),</p>		
	<p>by _____ (name(s) of person(s)).</p>		
	<p>Signature of notarial officer: _____</p>		
	<p>My commission expires: _____ Seal:</p>		
	<p>I acknowledge that: I am entering into a domestic partnership with the party listed above (<i>Partner A</i>); 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.</p>		
	<p>Signature Partner B (current name) _____ Date _____ State of _____</p>		
	<p>county of _____. This instrument was acknowledged before me on _____ (date),</p>		
	<p>by _____ (name(s) of person(s)).</p>		
<p>Signature of notarial officer: _____</p>			
<p>My commission expires: _____ Seal:</p>			
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.

	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:
Partner A	20a.	21a.	22a.	23a.	24a.	25a.
Partner B	20b.	21b.	22b.	23b.	24b.	25b.

Appendix D: Sample forms — Declaration of Oregon Registered Domestic Partnership



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)			
Marriage	8. Date of birth: (mm/dd/yy) _____		9. Birthplace: (state or foreign country) _____	
	10a. Place of this marriage: (city, town or location) _____	10b. County: _____	10c. State or foreign country: _____	11. Date of this marriage: (mm/dd/yy) _____
	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	14. Petitioner: <input type="checkbox"/> Husband <input type="checkbox"/> Wife <input type="checkbox"/> Both
Attorney	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) _____	
Decree	17. Marriage of the above named persons was dissolved on: (mm/dd/yy) _____		18. Type of decree: <input type="checkbox"/> Dissolution of marriage <input type="checkbox"/> Annulment	
	19. Date decree becomes effective: (mm/dd/yy) _____			
	20. Number of children under 18 whose physical custody was awarded to: Husband: _____ Wife: _____ Joint: (husband and wife) _____ Other: _____ <input type="checkbox"/> No children			
	21. County of decree: _____		22. Title of court: _____	
23. Signature of court official: _____		24. Title of court official: _____		25. Date signed: (mm/dd/yy) _____

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

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

Appendix D: Sample forms — Record of Dissolution of Declaration of Registered Domestic Partnership



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:
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:
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.

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

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