

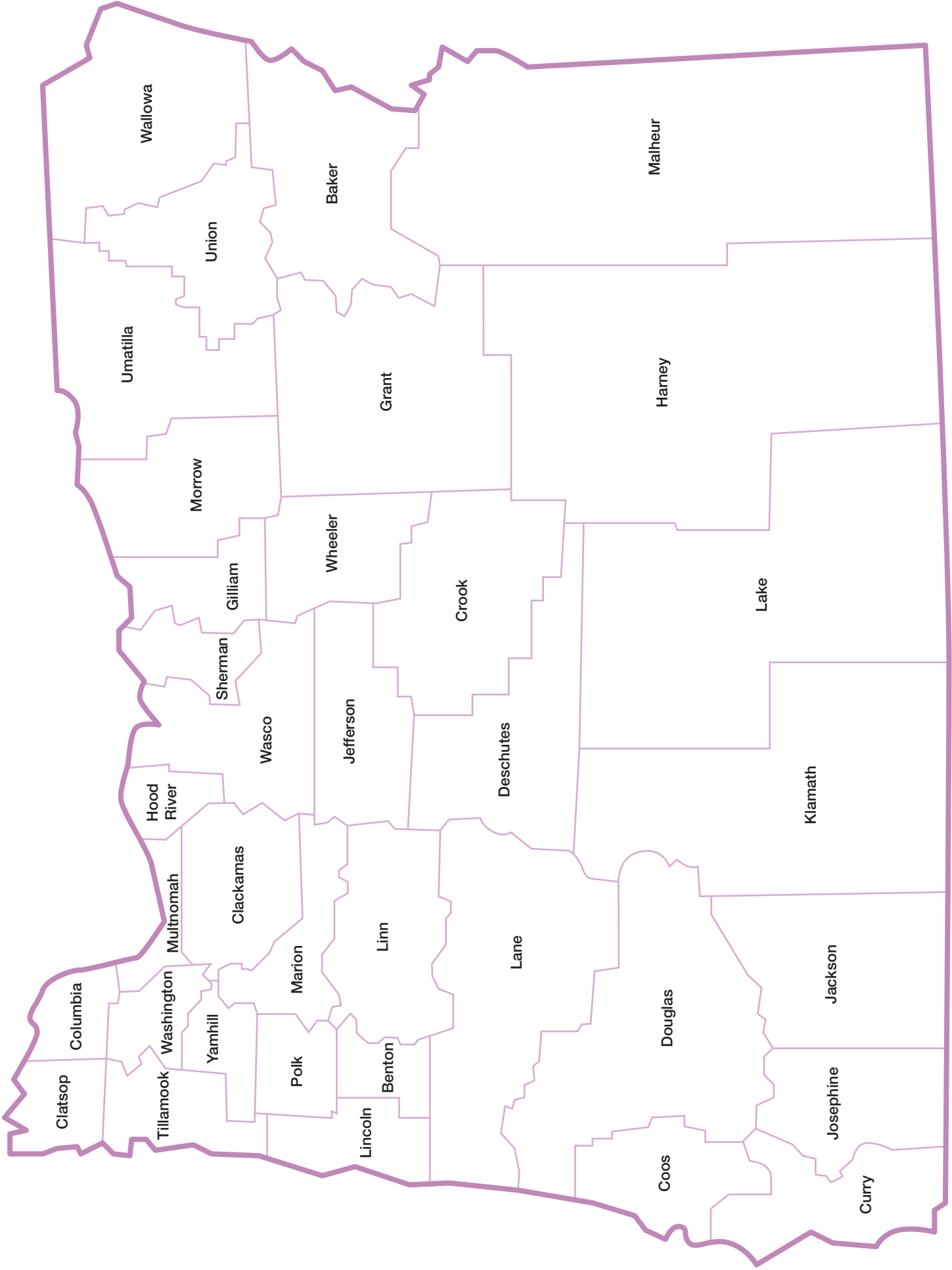
Oregon Vital Statistics Annual Report 2014

Volume 1

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



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



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Oregon
Vital Statistics
Annual Report
2014

Volume 1



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Preface

“What’s past is prologue ... ”

Sometimes the best way to determine what direction to take is to look at where we are and back at where we have been. This is as true in matters of public health as it is in navigation. Vital events — births, deaths, marriage, divorce — chart the course Oregonians take throughout their lives. In today’s complex society, using this information for careful policy and resource planning is 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, 2014		
Population	3,962,710	The population increased 43,690, or 1.1% over 2013.
Live Births	Residents	The number of births increased by 421. There was no change to the crude rate or fertility rate.
Number	45,557	
Crude Rate	11.5	
Fertility Rate	58.6	
Marriages	Occurrences	The number of marriages increased by 2,784. The rate increased by 9.4%**.
Number	27,735	
Crude Rate	7.0	
Divorces	Occurrences	The number of divorces decreased by 785. The rate decreased by 5.5%.
Number	13,489	
Crude Rate	3.4	
Domestic Partnerships	Occurrences	The number of domestic partnerships decreased by 349**.
Number	189	
Dissolutions of Domestic Partnership	Occurrences	The number of dissolutions of domestic partnership increased by 12.
Number	137	
Unmarried Mothers	Residents	The number of unmarried mothers giving birth increased by 303. The proportion of births which were to unmarried mothers increased by .9%.
Number	16,349	
Ratio	359.6	
Low Birthweight Infants	Residents	The number of low birthweight infants increased by 2. The rate decreased by .8%.
Number	2,847	
Rate	62.5	
Induced Abortions	Occurrences	The number of reported abortions decreased by 56, a decrease of .7% from 2013. The abortion ratio decreased 1.8%.
Number	8,231	
Ratio	178.5	
<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> <p>**Same-sex marriage became legal in Oregon on May 19, 2014.</p>		

Table 1-1. Live births, births to unmarried mothers, marriages, and divorces, U.S., 1945-2014

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., 1945-2014 — 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	3,932,181	12.4	1,595,873	405.8	not available	NA	not available	NA
2014*	3,985,924	12.5	1,604,495	402.5	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 2014.
National Vital Statistics Reports, Vol. 64, No. 6, June 17, 2015

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, 1945-2014

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, 1945-2014 — 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
2014	3,962,710	45,557	11.5	16,349	359.6	27,735	7.0	13,489	3.4

* 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. Population, live births and births to unmarried mothers
by county of residence, and marriages and divorces
by county of occurrence, Oregon, 2014**

County	Estimated population July 1, 2014	Live births		Births to unmarried mothers		Marriages		Divorces	
		No.	Rate ¹	No.	Ratio ²	No.	Rate ¹	No.	Rate ¹
Total	3,962,710	45,557	11.5	16,349	359.6	27,735	7.0	13,489	3.4
Baker	16,325	166	10.2	63	379.5	128	7.8	49	3.0
Benton	88,740	737	§ 8.3	173	§ 235.1	484	§ 5.5	126	§ 1.4
Clackamas	391,525	4,092	§ 10.5	1,147	§ 280.5	3,010	§ 7.7	1,317	3.4
Clatsop	37,495	409	10.9	165	403.4	567	§ 15.1	129	3.4
Columbia	50,075	493	§ 9.8	178	361.8	262	§ 5.2	195	3.9
Coos	62,900	624	§ 9.9	296	§ 474.4	409	6.5	156	§ 2.5
Crook	20,780	221	10.6	85	386.4	140	6.7	101	§ 4.9
Curry	22,355	145	§ 6.5	46	464.6	180	8.1	70	3.1
Deschutes	166,400	1,787	§ 10.7	572	§ 320.4	1,417	§ 8.5	733	§ 4.4
Douglas	109,385	1,104	§ 10.1	560	§ 507.2	711	§ 6.5	387	3.5
Gilliam	1,975	18	9.1	3	166.7	9	4.6	7	3.5
Grant	7,425	62	§ 8.4	26	419.4	43	5.8	27	3.6
Harney	7,265	88	12.1	31	352.3	57	7.8	11	§ 1.5
Hood River	23,730	304	12.8	95	312.5	395	§ 16.6	108	§ 4.6
Jackson	208,375	2,298	§ 11.0	978	§ 426.1	1,356	§ 6.5	858	§ 4.1
Jefferson	22,205	281	12.7	153	§ 544.5	144	6.5	70	3.2
Josephine	83,105	866	§ 10.4	427	§ 494.2	516	§ 6.2	376	§ 4.5
Klamath	66,910	792	11.8	340	§ 432.0	381	§ 5.7	209	3.1
Lake	7,990	82	10.3	29	353.7	43	5.4	15	§ 1.9
Lane	358,805	3,682	§ 10.3	1,541	§ 419.0	2,177	§ 6.1	1,288	3.6
Lincoln	46,890	428	§ 9.1	217	§ 508.2	793	§ 16.9	157	3.3
Linn	119,705	1,434	12.0	563	§ 393.2	781	§ 6.5	488	§ 4.1
Malheur	31,470	393	12.5	192	§ 489.8	293	§ 9.3	63	§ 2.0
Marion	326,150	4,397	§ 13.5	1,902	§ 432.8	2,223	6.8	1,213	§ 3.7
Morrow	11,525	166	§ 14.4	69	415.7	70	6.1	35	3.0
Multnomah	765,775	9,463	§ 12.4	3,086	§ 326.3	6,072	§ 7.9	2,349	§ 3.1
Polk	77,735	854	11.0	336	394.4	534	6.9	239	3.1
Sherman	1,785	19	10.6	3	157.9	11	6.2	2	1.1
Tillamook	25,480	257	§ 10.1	104	404.7	451	§ 17.7	56	§ 2.2
Umatilla	78,340	1,032	§ 13.2	493	§ 478.6	416	§ 5.3	259	3.3
Union	26,485	290	10.9	99	341.4	146	§ 5.5	93	3.5
Wallowa	7,070	57	§ 8.1	13	228.1	70	§ 9.9	14	§ 2.0
Wasco	26,105	307	11.8	146	§ 475.6	208	8.0	135	§ 5.2
Washington ...	560,465	7,054	§ 12.6	1,819	§ 258.0	2,474	§ 4.4	1,841	3.3
Wheeler	1,440	10	6.9	8	800.0	11	7.6	4	2.8
Yamhill	102,525	1,145	11.2	391	341.5	753	7.3	309	§ 3.0

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

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

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

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

TABLE 1-4. Population and births by city of residence, Oregon, 2014

City of residence	Estimated population July 1, 2014	Births	
		Number	Rate
Albany (Linn, Benton)	51,270	701	13.7
Ashland (Jackson)	20,340	125	6.1
Baker City (Baker)	9,890	114	11.5
Beaverton (Washington)	93,395	2,216	23.7
Bend (Deschutes)	79,985	1,047	13.1
Canby (Clackamas)	16,010	232	14.5
Central Point (Jackson)	17,375	255	14.7
Coos Bay (Coos)	16,315	231	14.2
Cornelius (Washington)	11,910	181	15.2
Corvallis (Benton)	56,535	460	8.1
Dallas (Polk)	14,940	174	11.6
Damascus (Clackamas)	10,625	119	11.2
Eugene (Lane)	160,775	1,738	10.8
Forest Grove (Washington)	22,715	289	12.7
Gladstone (Clackamas)	11,495	118	10.3
Grants Pass (Josephine)	35,060	590	16.8
Gresham (Multnomah)	106,455	1,027	9.6
Happy Valley (Clackamas)	16,480	350	21.2
Hermiston (Umatilla)	17,345	332	19.1
Hillsboro (Washington)	95,310	1,410	14.8
Keizer (Marion)	36,985	459	12.4
Klamath Falls (Klamath)	21,500	358	16.7
La Grande (Union)	13,150	168	12.8
Lake Oswego (Clackamas, Multnomah, Washington)	37,105	286	7.7
Lebanon (Linn)	15,740	294	18.7
McMinnville (Yamhill)	32,705	411	12.6
Medford (Jackson)	76,650	1,123	14.7
Milwaukie (Clackamas)	20,485	599	29.2
Newberg (Yamhill)	22,765	296	13.0
Newport (Lincoln)	10,095	110	10.9
Ontario (Malheur)	11,465	219	19.1
Oregon City (Clackamas)	33,760	559	16.6
Pendleton (Umatilla)	16,700	222	13.3
Portland (Clackamas, Multnomah, Washington)	601,510	8,812	14.6
Redmond (Deschutes)	26,770	419	15.7
Roseburg (Douglas)	22,510	395	17.5
Salem (Marion, Polk)	159,265	2,767	17.4
Sandy (Clackamas)	10,170	181	17.8
Sherwood (Washington)	18,955	216	11.4
Springfield (Lane)	60,065	928	15.4
St. Helens (Columbia)	12,990	169	13.0
The Dalles (Wasco)	14,480	209	14.4
Tigard (Washington)	49,140	776	15.8
Troutdale (Multnomah)	16,020	205	12.8
Tualatin (Clackamas, Washington)	26,925	351	13.0
West Linn (Clackamas)	25,540	200	7.8
Wilsonville (Clackamas, Washington)	21,980	258	11.7
Woodburn (Marion)	24,455	416	17.0

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, 1980-2014

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
2014	62.5	774.6	7.4	60.2	40.3	32.3

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 and dissolutions of domestic partnerships by county of occurrence, Oregon, 2014

County	Estimated population July 1, 2014	Domestic partnerships			Dissolutions of domestic partnership
		Total	Male- Male	Female- Female	
Total	3,962,710	189	51	138	137
Baker	16,325	—	—	—	—
Benton	88,740	4	1	3	—
Clackamas	391,525	5	1	4	7
Clatsop	37,495	2	1	1	—
Columbia	50,075	—	—	—	1
Coos	62,900	1	—	1	3
Crook	20,780	—	—	—	1
Curry	22,355	1	1	—	—
Deschutes	166,400	9	3	6	5
Douglas	109,385	4	1	3	2
Gilliam	1,975	—	—	—	—
Grant	7,425	1	1	—	—
Harney	7,265	—	—	—	—
Hood River	23,730	—	—	—	—
Jackson	208,375	14	2	12	3
Jefferson	22,205	—	—	—	—
Josephine	83,105	1	—	1	7
Klamath	66,910	4	—	4	—
Lake	7,990	—	—	—	—
Lane	358,805	8	1	7	22
Lincoln	46,890	5	2	3	1
Linn	119,705	2	—	2	3
Malheur	31,470	2	1	1	2
Marion	326,150	14	3	11	8
Morrow	11,525	—	—	—	—
Multnomah	765,775	85	29	56	54
Polk	77,735	1	—	1	—
Sherman	1,785	—	—	—	—
Tillamook	25,480	—	—	—	—
Umatilla	78,340	—	—	—	1
Union	26,485	—	—	—	—
Wallowa	7,070	—	—	—	—
Wasco	26,105	—	—	—	—
Washington ...	560,465	26	4	22	17
Wheeler	1,440	—	—	—	—
Yamhill	102,525	—	—	—	—

— Quantity is zero.

SECTION 2: NATALITY

Natality

In 2014, Oregon recorded **45,557 resident births**, 421 more than in 2013. 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 less than 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 2014, Oregon's rate was 8.0% lower than the national rate (11.5 vs. 12.5; see Figure 2-1).¹

Oregon's **fertility rate** was unchanged from last year at 58.6 per 1,000 women aged 15–44 (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 among women less than 25 while increasing among all other age groups. The largest percentage decrease was among women aged 15–19 (8.1%), followed by women aged 20–24 (2.9%; 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	62.5
2014	58.6	62.9

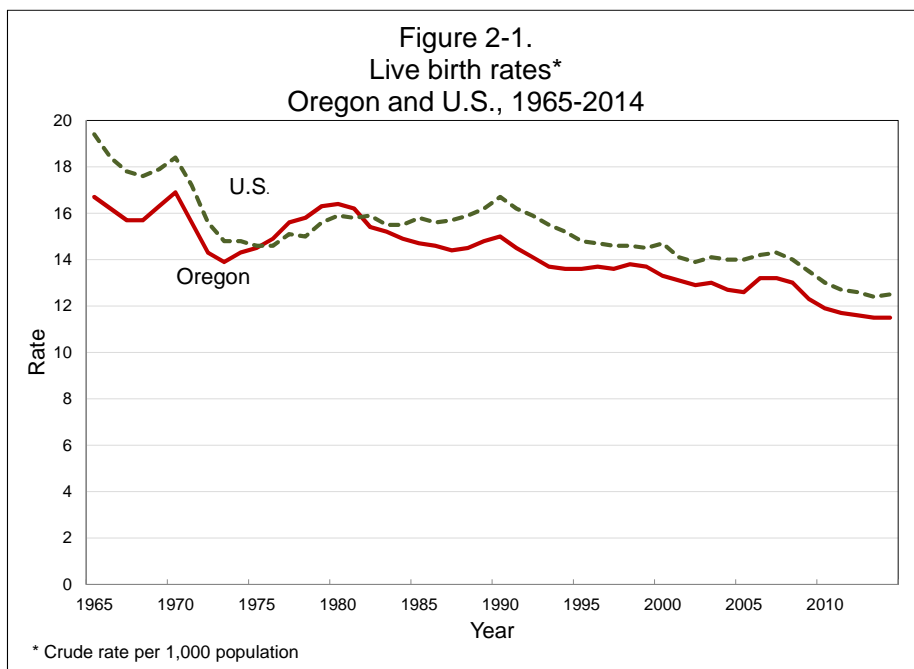
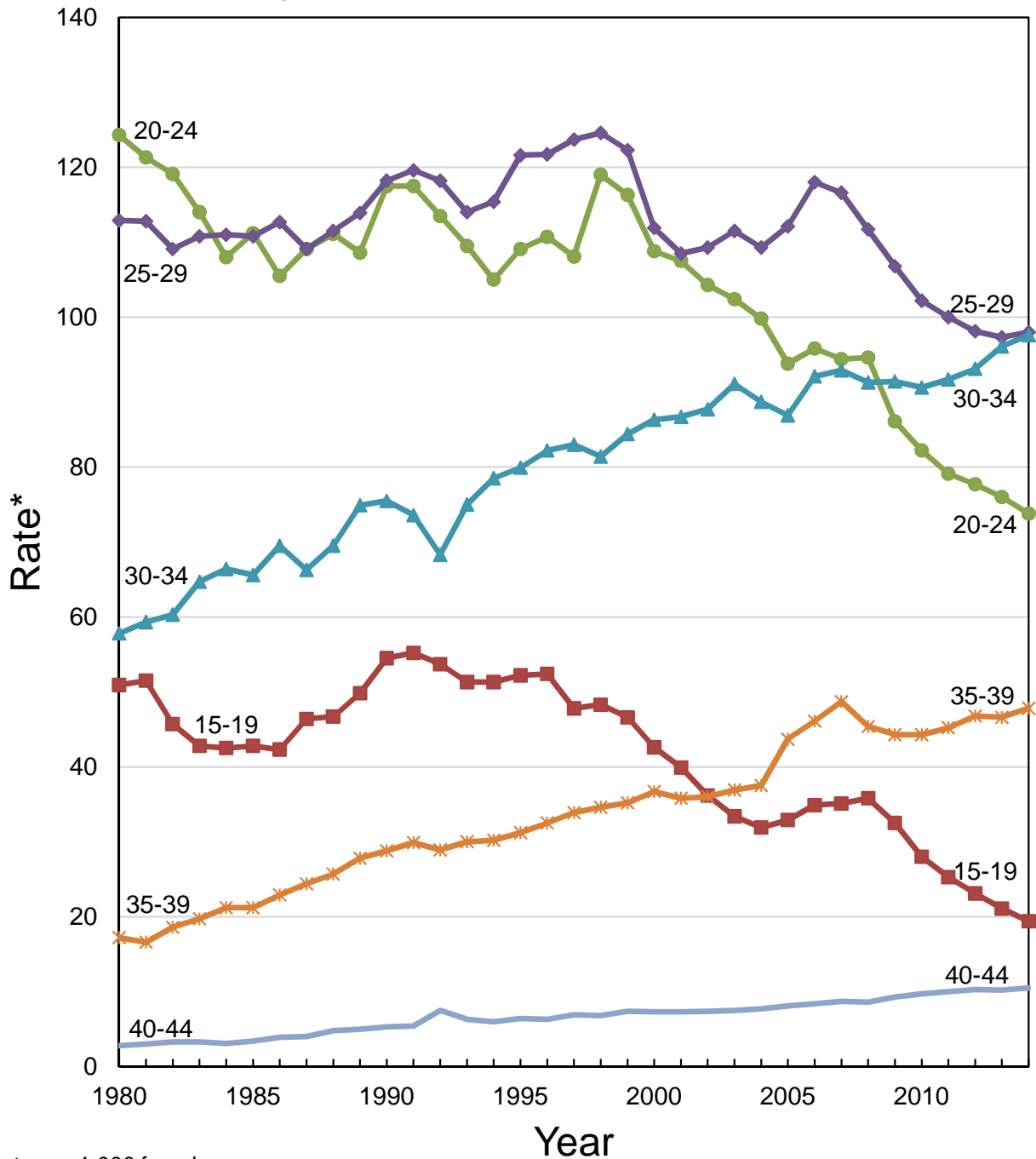


Figure 2-2. Age-specific birth rates, Oregon residents, 1980-2014



*Rate per 1,000 females

The youngest female to give birth in 2014 was 13 years old and the oldest was 53. Mother's median age for all births was 29 and the mean age was 28.8. The median age at first birth was 27 and the mean age was 26.8. The **rate of first birth** decreased slightly from the previous year to 23.0 first births per 1,000 women aged 15–44, slightly lower than the 2014 national rate of 24.6.¹ 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 2014, 39.3% were first births.

Father's mean age for births was 31.4 years and the median age was 31. The **birth rate per 1,000 men** aged 15–54 was 57.5 in 2014 for Oregon resident births. Information on the father was missing from 8.7% 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 was 45.8 per 1,000 men in 2013 (the most recent data available).²

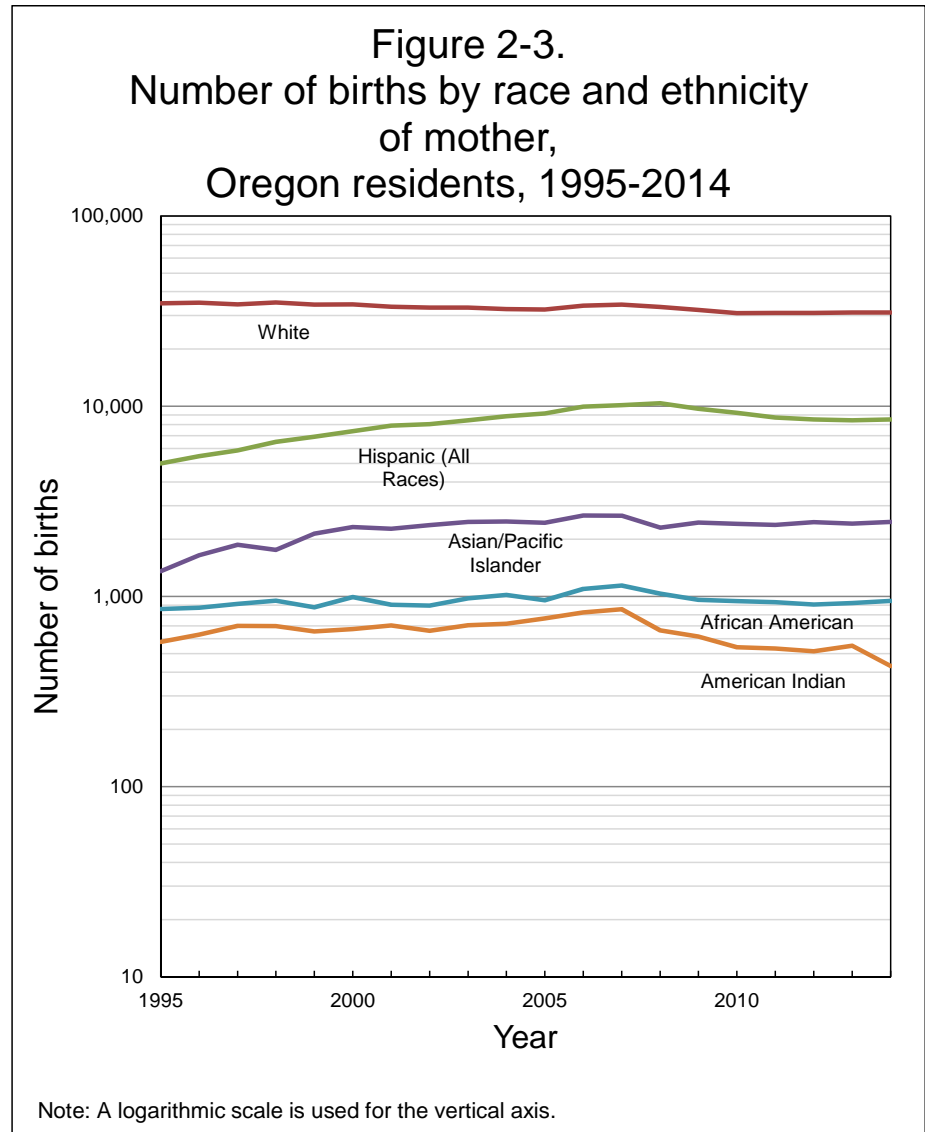
Demographics

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 1990, the number of births to women of Hispanic ethnicity has almost tripled to 18.7% of total births (see Table 2-7, Figure 2-3). The method for reporting the Hispanic category has changed in Oregon over the years. From 1981 to 1988, “Hispanic” was a race category on the birth certificate. From 1989 to 2007, information regarding Hispanic ethnicity was reported separately from race. Starting in 2008, an individual could choose multiple race/ethnicity responses (see 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.

Perinatal differences by race and ethnicity of mother persist. These differences are noted within the topic areas discussed in the remainder of this chapter.



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 2014 was 3.5 times higher than in 1975, and 5.7 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.

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.)

In 2014, 36.0% 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 2014 was 10.7% lower than the national rate (see Figure 2-4).¹

Among women giving birth in 2014, 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 (61.9%), followed by non-Hispanic African American women (54.1%) and women of multiple races (51.4%). Non-Hispanic Asian women had the lowest percentage of unmarried mothers (13.2%; see Table 2-13).

Mothers less than 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 2014 were unmarried (86.2%),

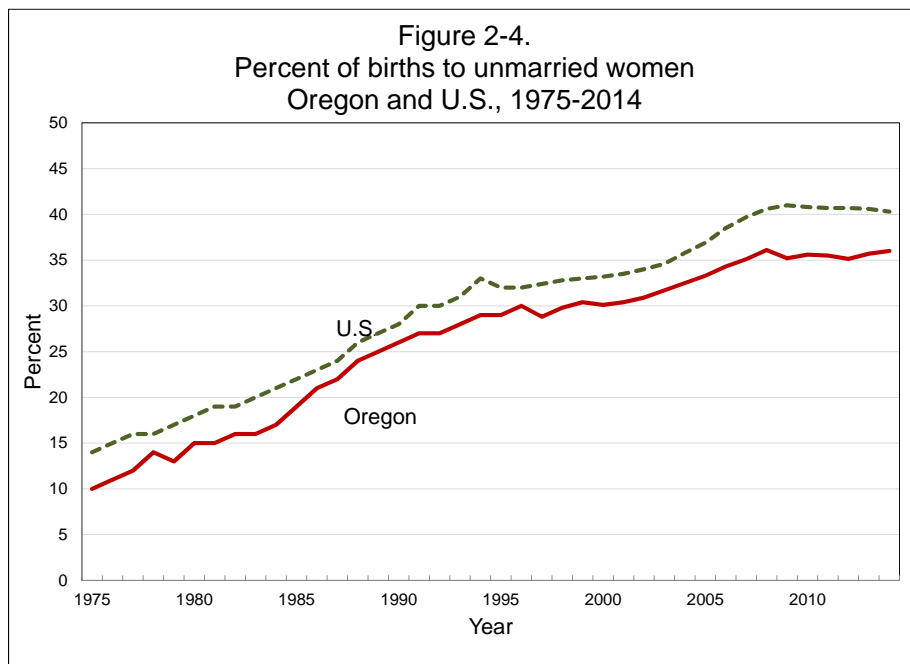


Table 2-B. Percent of unwed mothers by race/ethnicity, Oregon residents, 2014

Total unmarried	36.0
Non-Hispanic	
African American	54.1
American Indian	61.9
Asian	13.2
Hawaiian/Pacific Islander	50.8
Multiple races	51.4
White	31.5
Hispanic	50.7

compared to 60.6% for women aged 20–24 and 33.4% for women aged 25–29. The percentage of unmarried women was lowest for mothers aged 35–39 (20.0%) and 30–34 (20.4%), while 24.6% of mothers aged 40–44 were unmarried (see Table 2-3). Thirteen of Oregon’s 36 counties had proportions of non-marital births significantly higher than the state average (see Table 2-9). Among counties with statistically significant differences, Jefferson had the highest percentage (54.4%) followed by Lincoln (50.8%) and Douglas (50.7%). (See Appendix B: “Technical notes — formulas” for information on statistical significance). Five Oregon counties had percentages of non-marital births significantly lower than the state average. Benton County had the lowest percentage of non-marital births (23.5%). 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 increased, so did the percentage of women obtaining first trimester care. Women with a doctorate or professional degree had the highest percentage of first trimester care (see sidebar Table 2-C, Table 2-19).

Table 2-C. Mothers' education and no first trimester care, Oregon residents, 2014

Education	No first trimester care (%)
8th grade or less	35.2
9th to 12th grade, no diploma	35.6
High school graduate or GED	28.7
Some college, no degree	22.9
Associates degree	18.6
Bachelors degree	13.4
Masters degree	10.1
Doctorate or professional degree	9.1

More than four-fifths of women that gave birth in 2014 had at least a high school diploma or GED (85.5%) and 29.8% had a bachelor’s degree or higher. The race/ethnic groups with the highest percentages of high school completion are non-Hispanic Asian (92.1%) and non-Hispanic White (91.9%) mothers. Hispanic mothers had the lowest percentage of completion of at least 12 years of education (62.1%; see Table 2-13).

Women who smoked had a low birthweight rate of 108.3 per 1,000

Maternal lifestyle and health characteristics

Tobacco

National Healthy People 2020 objective

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

2020 target:	98.6 %
2014:	89.6 %

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 108.3 per 1,000 live births, compared to 57.0 per 1,000 among women that did not smoke. Approximately one in 10 mothers (10.4%) reported

Figure 2-5.
Percentage of mothers who smoked during pregnancy by age and marital status, Oregon residents, 2014

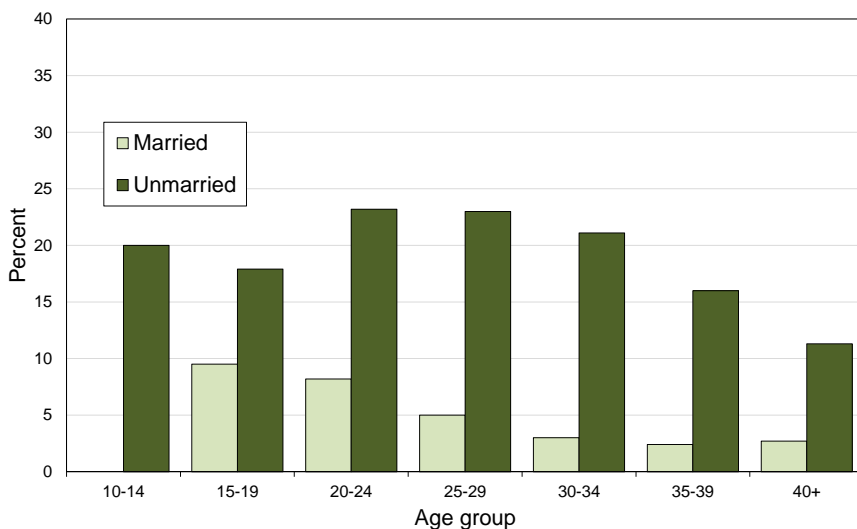


Table 2-D. Percent of maternal tobacco use by year, Oregon residents

1990	22.4
1995	17.9
2000	13.5
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
2014	10.4

using tobacco during pregnancy, slightly more than the previous year (10.2%) (see sidebar Table 2-D). The percentage of mothers that reported smoking during pregnancy generally decreased with age among married women.

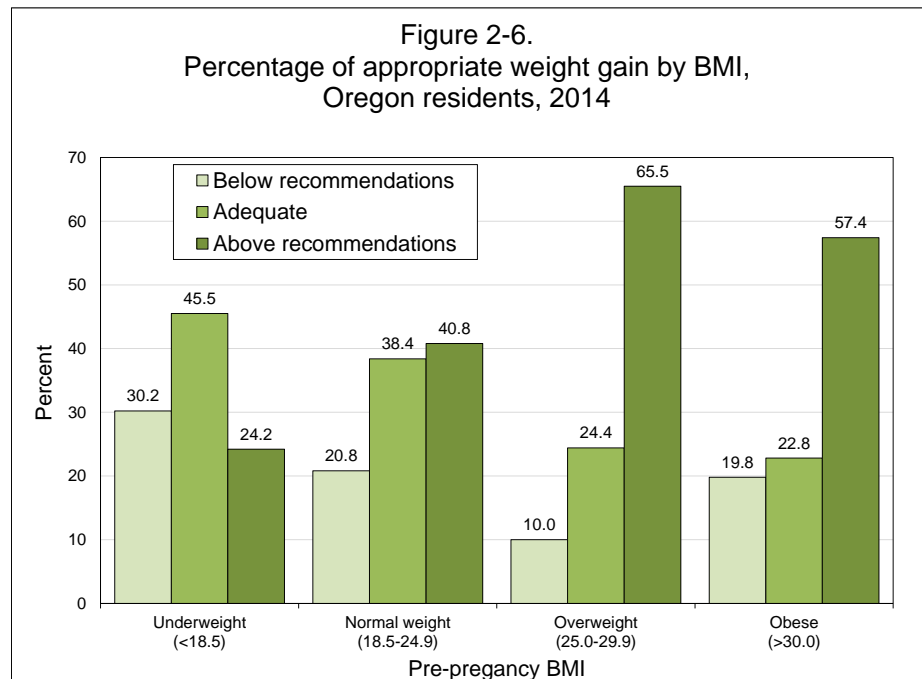
For unmarried women, smoking rates rose and fell with age, peaking in the early 20s. The percentage of tobacco use among unmarried women was more than five times that of married women (21.3% vs. 4.2%). The highest percentage of tobacco use during pregnancy in 2014 was among unmarried mothers aged 20–24 (23.2%) and unmarried mothers aged 25–29 (23.0%). Married mothers aged 35–39 had the lowest percentage of smokers (2.4%), followed by married mothers aged 40 or older (2.7%). For the youngest mothers, aged 10–14, 20.0% reported smoking during pregnancy (see Figure 2.5).

Smoking prevalence as reported on birth certificates also varied among racial and ethnic groups. In 2014, non-Hispanic American Indian women (20.0%) and non-Hispanic women reporting multiple races (17.2%) had the highest reported proportions for smoking during pregnancy, while non-Hispanic Asian women (1.1%) and Hispanic women (3.7%) 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

Figure 2-6.
Percentage of appropriate weight gain by BMI, Oregon residents, 2014



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.

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

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 2014, 50.5% of women gained more weight than the IOM guidelines. Additionally, 49.1% of Oregon women entered pregnancy overweight or obese and also had the highest percentage of weight gain above the guidelines (65.5% and 57.4%, respectively; see Figure 2-6). Women starting pregnancy underweight had the highest percentage of weight gain below the IOM recommendations (30.2%) and had the highest percentage of low birthweight infants (9.3%).

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 2014, the most frequently reported medical risk factors were previous cesarean delivery (13.7%), gestational diabetes (7.8%) and pregnancy-associated hypertension (6.5%; see Table 2-23, Table 2-26).

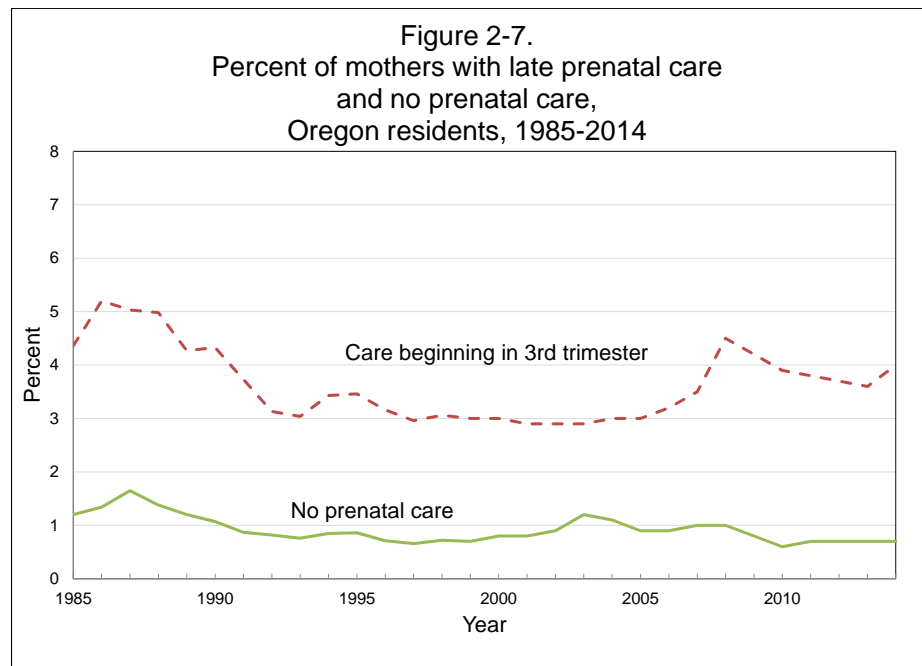
Medical services utilization

Prenatal care

National Healthy People 2020 objective

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

<i>2020 target:</i>	<i>77.9 %</i>
<i>2014:</i>	<i>77.5 %</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.

Overall, 77.5% of women that gave birth during 2014 received early prenatal care, which is 8.4% higher than the 2008 national number of 71.0% (see Table 2-17, Table 1-5). Moreover, this is 0.5% lower than the 2013 rate of 77.8%.

In 2014, 6.0% of women giving birth received inadequate prenatal care and 22.5% received no first trimester care. The percentage of low birthweight infants was much higher for women that received inadequate prenatal care (11.8%) compared to 5.8% of children born to mothers that received adequate prenatal care. The percentage of mothers that received no prenatal care was slightly higher than the previous year (0.8% and 0.7%, respectively). Mothers that initiated care in the third trimester increased from 3.6% in 2013 to 4.0% in 2014 (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). For example, the highest percentage of inadequate care is found among non-Hispanic Hawaiian and Pacific Islander women (28.1%) and Hispanic American Indian women (13.3%). White non-Hispanic and Asian non-Hispanic women had the lowest percentages of inadequate care (5.2% and 5.6%, respectively; see Table 2-18).

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: Malheur (58.3%) and Marion (73.9%). (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 Table 2-F). As with other measures of prenatal care, more women less than 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 2009-2014**

Year	Intensive	Adequate	Intermediate	Inadequate
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
2014	32.5	42.7	12.0	12.1

Birth attendant and place of delivery

Hospital births. Hospitals were the most frequent place of birth with 95.9% of Oregon occurrence births. Most in-hospital births were planned to occur in the hospital (99.3%); 323 out-of-hospital births were planned 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

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
2014	1,878	40.7

¹ Rate per 1,000 births

professionals delivered 0.4% (see Table 2-38).

Out-of-hospital births. In 2014, 4.1% of Oregon births occurred out-of-hospital. As in past years, the majority of out-of-hospital births occurred in the mother's home (60.5%). Of those home births, 93.5% were planned home births, while the remaining 6.5% were not intended to occur at home. Freestanding birthing centers accounted for more than one-third, or 694, of out-of-hospital births.

In 2011, the Oregon Legislature passed House Bill 2380, 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, 2,076 births were planned out-of-hospital (4.5%). Of these, 323 (15.6%) planned out-of-hospital births ultimately delivered in-hospital. Neonatal transfers were slightly more likely among women that planned out-of-hospital births (2.0% versus 1.2%; see Table 2-40). Women that planned out-of-hospital births tended to be 30 or older (56.5%), White non-Hispanic (84.8%), married (81.3%) and college-educated (44.3%). (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 (9.8%), epidural or spinal anesthesia (9.1%), operative vaginal birth (1.2%) and cesarean section (5.1%). 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 (16.8% vs. 4.2%). In 2014, 35.0% of women planning out-of-hospital births did not have a Group B streptococcal test compared to 4.0% 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 2014, 18.1% of planned hospital deliveries were CNM-attended. Women that planned out-of-hospital births reported the following planned attendants: CNMs (26.6%), LDMs (47.6%), naturopathic physicians (13.9%) and other midwives (9.0%). Non-medical attendants delivered 170 babies in total, including 8.6% of out-of-hospital births (see Table 2-38).

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
2014	8,456	8,059	397

Method of delivery

In 2014, the rate of cesarean delivery was 27.4%, well below the 2014 national rate of 32.2%.¹ The rate for vaginal delivery after a previous cesarean was only 2.5%, while the repeat cesarean rate was 11.2%. The majority of births (70.1%) continued to be vaginal deliveries without prior cesarean (see Table 2-37). The number of vaginal deliveries (without prior cesarean) increased slightly (1.6%) from 2013. Cesarean rates have declined slightly each year since their peak, in 2009, of 29.4%. The rate for 2014 is 2.1% lower than the previous year (28.0%) and 6.8% lower than 2009.

Infant health characteristics

Period of gestation

Preterm births (infants born prior to completion of 37 weeks gestation) comprised 7.7% of total births in 2014, lower than the national rate in 2013 (9.6%; see Table 2-25). Similar to national trends, proportions of preterm births are higher for non-Hispanic African Americans (10.3%) and non-Hispanic Hawaiian and Pacific Islanders (11.2%). Non-Hispanic Asian

women had the lowest proportions of preterm births (7.1%; see Table 2-25).

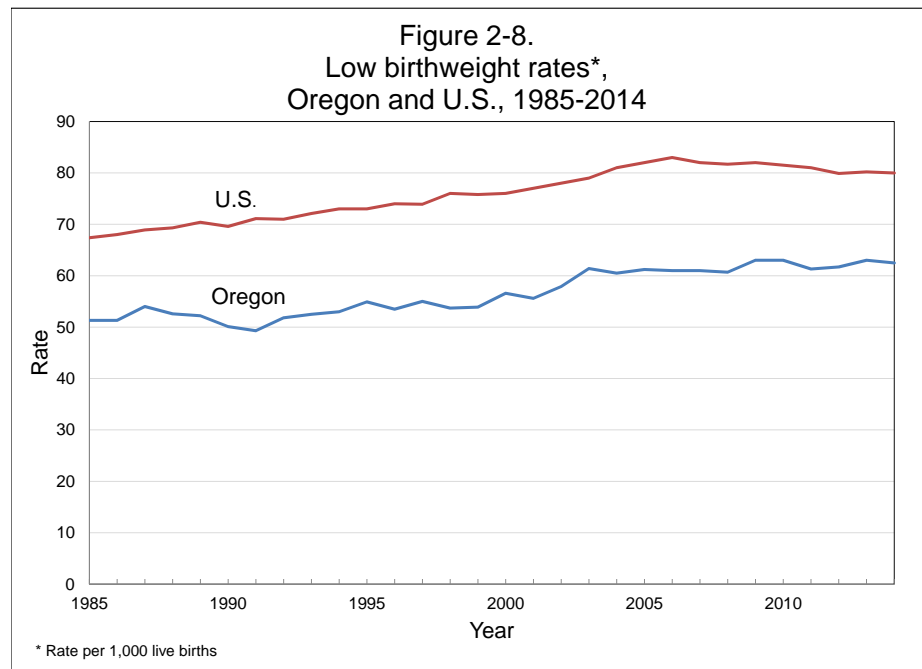
Low birthweight

National Healthy People 2020 objective

Percentage of live births resulting in low birthweight infant

2020 target:	7.8 %
2014:	6.3%

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 2014, 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 2014, there were 2,847 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 2014, 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 unchanged from the previous year. While annual changes have been small in the last 20 years, there has been a slight upward



trend in low birthweight infants (see Table 1-5, Figure 2-8). Nevertheless, Oregon’s low birthweight rates are typically 25% lower than national rates and in 2014, Oregon’s rate was 21.9% lower than the 2014 national rate (62.5 vs. 80.0 per 1,000 births).¹

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 2014, the prevalence of fetal macrosomia at 4,000 grams was 10.7% (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 6.9% greater than the state average for women 35 and older (11.4%), and 58.3% higher than among women less than 20 years of age (7.2%; see Table 2-27).

In 2014, the prevalence of macrosomia was highest among non-Hispanic American Indian women (11.8%; see Table 2-25). The lowest rates of macrosomia were found in Asian women (5.0%) and Hawaiian/Pacific Islander women (7.6%).

Apgar scores

The Apgar score is composed of measurements of five infant characteristics: heart rate, respiratory effort, muscle tone, reflex irritability and color. Each characteristic is rated 0–2 and the scores totaled. Total scores below 7, five minutes after birth, indicate poor to intermediate health at birth. In Oregon during 2014, 2.6% of infants had Apgar scores below 7 (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

Among Oregon resident births in 2014, the biggest baby born was 13 lbs, 2 oz.

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
2014	10.7	5954

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
2014	52.2	1.9	44.7

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

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 3.5% of births in Oregon during 2014 were multiple births, the proportion varied widely by age, race and ethnicity. During 2014, mothers aged 45 and older had the highest percentage of multiple births. The percentage of multiple births for each age group ranged from 1.8% for mothers aged 15–19 to 20.0% 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 5.3% (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 2014, mothers aged 45 and older had the highest rate of infertility treatment (380.0 per 1,000 births; see Table 2-23).

Source of payment

Primary source of payment for delivery is noted on Oregon birth certificates under five categories: 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 (52.2%), down from 52.7% in 2013 (see sidebar Table 2-J). Medicaid programs (e.g., the Oregon Health Plan) paid for more than two-fifths of Oregon resident births (44.7%). Delivery costs were more likely to be paid for by public insurance if the woman was less than age 18 (see Table 2-14).

Endnotes

1. Centers for Disease Control and Prevention (CDC). Births: preliminary data for 2014. National Vital Statistics Reports. 2015 June 17; 64(62).
2. Centers for Disease Control and Prevention (CDC). Births: final data for 2013. National Vital Statistics Reports. 2015 Jan 15; 64(1).

TABLE 2-1. Oregon resident births by age group of mother, selected years 1955-1990, 1995-2014

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	35,363	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	67	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	35	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
2014	45,557	20	0.0	2,392	5.3	9,264	20.3	13,167	28.9	12,996	28.5	6,275	13.8	1,340	2.9	100	0.2	3	3

* 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, 1975-2014

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
2014	19.4	73.8	98.0	97.6	47.8	10.5	58.6	1,735.4

* 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, 1980-2014

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
2014	86.2	60.6	33.4	20.4	20.0	24.6

TABLE 2-4. Age of mother by live birth order, Oregon resident births, 2014

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	45,557	20	2,392	9,264	13,167	12,996	6,275	1,340	100	3
First	17,890	20	2,056	4,899	4,904	4,132	1,578	282	17	2
Second	14,784	-	296	3,102	4,531	4,322	2,115	384	33	1
Third	7,417	-	37	999	2,394	2,528	1,215	228	16	-
Fourth	3,258	-	3	230	946	1,215	674	176	14	-
Fifth	1,267	-	-	28	279	489	348	116	7	-
Sixth	505	-	-	6	77	194	170	55	3	-
Seventh	219	-	-	-	29	73	79	35	3	-
Eighth	101	-	-	-	5	16	57	23	-	-
Ninth+	116	-	-	-	2	27	39	41	7	-

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

TABLE 2-5. Most frequently used baby names, Oregon occurrence, 2014

Boys			Girls		
Rank	Name	Count	Rank	Name	Count
1	Liam.....	212	1	Emma.....	260
2	Henry.....	211	2	Olivia.....	230
3	Noah.....	200	3	Sophia.....	188
4	Benjamin.....	194	4	Abigail.....	156
5	Logan.....	191	5	Isabella.....	155
6	Alexander.....	183	6	Evelyn.....	149
7	Wyatt.....	180	7	Emily.....	145
8	Oliver.....	173	8	Ava.....	139
8	William.....	173	9	Elizabeth.....	134
10	Mason.....	167	10	Amelia.....	128
11	Elijah.....	165	11	Harper.....	123
12	Jackson.....	163	12	Avery.....	122
13	Samuel.....	152	12	Charlotte.....	122
14	Ethan.....	151	12	Mia.....	122
14	Hunter.....	151	15	Ella.....	99
16	Owen.....	150	16	Addison.....	98
17	Lucas.....	144	17	Grace.....	97
18	David.....	142	17	Ruby.....	97
18	James.....	142	19	Brooklyn.....	96
20	Jacob.....	141	20	Hannah.....	95
21	Jack.....	140	20	Natalie.....	95
22	Isaac.....	132	22	Zoey.....	90
23	Daniel.....	129	23	Paisley.....	88
24	Jayden.....	125	23	Penelope.....	88
25	Michael.....	120	25	Audrey.....	84
26	Aiden.....	119	26	Aria.....	82
26	Gabriel.....	119	27	Chloe.....	80
28	Joseph.....	113	27	Lily.....	80
29	Andrew.....	109	27	Lucy.....	80
30	Luke.....	106	27	Sofia.....	80
Total boys' names: 4,582			Total girls' names: 6,126		

Total 2014 Oregon occurrence births: 46,100

**TABLE 2-6. Pregnancies¹ by age and county of residence,
Oregon residents, 2014**

County of residence	All ages	Age groups							
		10-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	53,241	3,253	11,558	15,157	14,298	7,020	1,627	126	202
Baker	175	13	55	59	31	16	1	—	—
Benton	851	34	170	244	248	125	27	—	3
Clackamas	4,739	212	873	1,399	1,370	686	174	7	18
Clatsop	478	29	104	139	134	61	7	2	2
Columbia	561	36	131	189	135	56	13	1	—
Coos	679	51	190	235	141	51	7	2	2
Crook	241	24	71	66	56	17	7	—	—
Curry	160	5	33	61	36	19	5	—	1
Deschutes	2,092	110	409	603	603	283	72	5	7
Douglas	1,215	113	372	380	242	82	17	2	7
Gilliam	20	*	*	*	*	*	*	*	*
Grant	70	4	20	30	15	1	—	—	—
Harney	93	11	27	27	18	8	2	—	—
Hood River	332	27	56	89	94	46	18	2	—
Jackson	2,635	196	662	797	614	287	66	9	4
Jefferson	316	25	99	105	57	22	7	—	1
Josephine	984	72	299	293	203	92	19	2	4
Klamath	856	84	259	270	168	52	19	1	3
Lake	89	8	33	25	12	11	—	—	—
Lane	4,379	293	990	1,326	1,131	504	106	7	22
Lincoln	483	37	117	149	114	50	14	1	1
Linn	1,557	119	424	513	337	134	22	1	7
Malheur	435	46	144	109	90	39	5	1	1
Marion	4,947	380	1,324	1,473	1,102	521	116	15	16
Morrow	175	16	49	46	32	24	7	—	1
Multnomah	11,971	610	2,143	2,935	3,570	2,125	496	40	52
Polk	932	58	243	284	239	89	12	—	7
Sherman	19	*	*	*	*	*	*	*	*
Tillamook	304	25	84	91	68	32	3	—	1
Umatilla	1,163	108	349	325	243	100	34	3	1
Union	316	19	82	103	78	26	8	—	—
Wallowa	60	4	6	21	17	9	3	—	—
Wasco	346	22	87	116	70	43	6	—	2
Washington	8,182	379	1,340	2,236	2,640	1,248	297	20	22
Wheeler	11	*	*	*	*	*	*	*	*
Yamhill	1,264	70	267	384	356	148	28	5	6
Unknown	111	10	34	19	21	10	6	—	11

— 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, 2000-2014

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
2014	45,557	37,377	996	559	439	125	6,061	8,519
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
2014	45,557	39,384	1,446	1,789	2,786	496	2,169	8,519

* 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, 2014

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	45,557	31,062	948	431	2,159	304	248	1,886	8,519
Baker	166	151	2	1	—	—	—	3	9
Benton	737	546	6	3	47	4	3	38	90
Clackamas	4,092	3,208	36	18	205	8	25	127	465
Clatsop	409	309	2	5	13	4	1	11	64
Columbia	493	434	2	5	4	1	2	20	25
Coos	624	506	7	9	9	—	2	40	51
Crook	221	176	—	1	1	—	5	8	30
Curry	145	122	—	2	1	1	—	9	10
Deschutes	1,787	1,436	4	9	34	3	43	57	201
Douglas	1,104	969	1	10	8	3	3	51	59
Gilliam	18	14	—	—	—	1	—	1	2
Grant	62	55	—	2	—	—	1	2	2
Harney	88	70	—	6	—	1	1	4	6
Hood River	304	158	—	1	2	2	—	4	137
Jackson	2,298	1,665	11	24	29	3	33	92	441
Jefferson	281	128	—	58	—	—	3	10	82
Josephine	866	712	2	10	8	—	7	42	85
Klamath	792	546	2	29	3	—	4	63	145
Lake	82	64	—	1	1	—	1	4	11
Lane	3,682	2,790	37	35	91	8	17	231	473
Lincoln	428	292	—	10	8	3	1	44	70
Linn	1,434	1,172	8	10	14	3	4	63	160
Malheur	393	200	1	5	2	—	1	4	180
Marion	4,397	2,393	36	45	86	89	9	147	1,592
Morrow	166	79	—	1	—	—	—	2	84
Multnomah	9,463	6,053	629	40	709	102	48	435	1,447
Polk	854	628	4	12	10	6	1	31	162
Sherman	19	19	—	—	—	—	—	—	—
Tillamook	257	198	—	4	1	1	—	10	43
Umatilla	1,032	533	1	28	12	4	6	43	405
Union	290	259	1	—	2	2	1	8	17
Wallowa	57	54	—	—	1	—	—	1	1
Wasco	307	194	1	13	2	5	2	11	79
Washington ...	7,054	4,090	151	22	843	48	19	229	1,652
Wheeler	10	9	—	—	—	1	—	—	—
Yamhill	1,145	830	4	12	13	1	5	41	239

— Quantity is zero.

See footnotes at end of table.

TABLE 2-8. Ethnicity, race and county of residence of mother, Oregon resident births, 2014 (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	45,557	39,384	1,446	1,789	2,786	496	1,808	361	8,519
Baker	166	161	2	5	1	—	1	—	9
Benton	737	630	11	18	71	8	37	5	90
Clackamas	4,092	3,743	62	89	257	20	49	25	465
Clatsop	409	352	5	11	19	5	28	6	64
Columbia	493	477	8	17	10	1	1	1	25
Coos	624	586	10	50	14	1	11	4	51
Crook	221	205	1	9	1	—	9	6	30
Curry	145	138	1	10	3	1	1	—	10
Deschutes	1,787	1,610	9	61	52	10	52	64	201
Douglas	1,104	1,062	6	57	17	4	22	3	59
Gilliam	18	17	—	1	—	1	—	—	2
Grant	62	60	—	4	—	—	—	—	2
Harney	88	79	1	9	—	1	3	2	6
Hood River	304	299	1	4	4	2	—	—	137
Jackson	2,298	2,045	34	109	54	13	79	101	441
Jefferson	281	172	2	85	3	—	19	17	82
Josephine	866	816	8	47	21	3	33	2	85
Klamath	792	655	14	93	14	2	109	2	145
Lake	82	77	—	5	3	—	2	—	11
Lane	3,682	3,230	104	195	152	30	251	25	473
Lincoln	428	384	2	51	14	7	16	1	70
Linn	1,434	1,298	13	67	24	8	89	5	160
Malheur	393	371	2	10	2	—	14	—	180
Marion	4,397	3,551	63	183	135	101	580	19	1,592
Morrow	166	137	—	2	—	1	27	1	84
Multnomah	9,463	7,763	828	270	886	148	94	45	1,447
Polk	854	728	7	43	14	9	93	3	162
Sherman	19	19	—	—	—	—	—	—	—
Tillamook	257	247	2	14	2	2	2	1	43
Umatilla	1,032	846	8	65	21	8	131	6	405
Union	290	278	3	8	5	4	1	4	17
Wallowa	57	56	—	—	2	—	—	—	1
Wasco	307	282	3	23	3	6	1	1	79
Washington ...	7,054	5,904	227	127	960	95	41	9	1,652
Wheeler	10	9	—	—	—	1	—	—	—
Yamhill	1,145	1,097	9	47	22	4	12	3	239

— 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, 2014**

County of residence	Total births	Number unmarried	Percent unmarried ¹
Total	45,557	16,349	36.0
Baker	166	63	38.0
Benton	737	173	§ 23.5
Clackamas	4,092	1,147	§ 28.1
Clatsop	409	165	40.3
Columbia	493	178	36.2
Coos	624	296	§ 47.4
Crook	221	85	38.6
Curry	145	46	46.5
Deschutes	1,787	572	§ 32.0
Douglas	1,104	560	§ 50.7
Gilliam	18	3	16.7
Grant	62	26	41.9
Harney	88	31	35.2
Hood River	304	95	31.2
Jackson	2,298	978	§ 42.6
Jefferson	281	153	§ 54.4
Josephine	866	427	§ 49.4
Klamath	792	340	§ 43.2
Lake	82	29	35.4
Lane	3,682	1,541	§ 41.9
Lincoln	428	217	§ 50.8
Linn	1,434	563	§ 39.3
Malheur	393	192	§ 49.0
Marion	4,397	1,902	§ 43.3
Morrow	166	69	41.6
Multnomah	9,463	3,086	§ 32.6
Polk	854	336	39.4
Sherman	19	3	15.8
Tillamook	257	104	40.5
Umatilla	1,032	493	§ 47.9
Union	290	99	34.1
Wallowa	57	13	22.8
Wasco	307	146	§ 47.6
Washington	7,054	1,819	§ 25.8
Wheeler	10	8	80.0
Yamhill	1,145	391	34.1

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, 2014

County of residence	Total births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	45,557	20	2,392	9,264	13,167	12,996	6,275	1,340	100	3
Baker	166	–	10	52	56	31	16	1	–	–
Benton	737	–	23	119	219	236	118	22	–	–
Clackamas	4,092	2	130	686	1,224	1,275	624	144	6	1
Clatsop	409	–	24	87	119	119	55	4	1	–
Columbia	493	–	29	110	167	128	47	11	1	–
Coos	624	–	41	172	224	134	46	6	1	–
Crook	221	–	21	68	62	47	16	7	–	–
Curry	145	–	4	30	56	35	17	3	–	–
Deschutes	1,787	–	78	336	524	546	242	56	5	–
Douglas	1,104	–	99	337	354	228	71	13	2	–
Gilliam	18	–	–	6	4	6	1	1	–	–
Grant	62	–	3	17	28	13	1	–	–	–
Harney	88	–	9	26	26	17	8	2	–	–
Hood River	304	–	24	50	81	91	41	15	2	–
Jackson	2,298	1	152	557	712	563	257	51	5	–
Jefferson	281	–	21	88	94	54	19	5	–	–
Josephine	866	2	54	261	264	188	80	15	2	–
Klamath	792	–	76	237	258	155	49	17	–	–
Lake	82	–	8	27	25	11	11	–	–	–
Lane	3,682	–	207	770	1,143	1,022	443	91	6	–
Lincoln	428	1	29	105	129	106	46	11	1	–
Linn	1,434	1	99	385	493	315	125	15	1	–
Malheur	393	–	40	128	99	84	37	4	1	–
Marion	4,397	9	305	1,133	1,351	1,016	470	100	13	–
Morrow	166	–	15	43	45	32	24	7	–	–
Multnomah	9,463	3	395	1,449	2,225	3,087	1,859	414	30	1
Polk	854	–	50	218	265	232	79	10	–	–
Sherman	19	–	1	4	8	3	1	2	–	–
Tillamook	257	–	15	66	80	64	29	3	–	–
Umatilla	1,032	–	88	308	296	222	87	29	1	1
Union	290	–	16	71	97	74	24	8	–	–
Wallowa	57	–	3	6	20	17	9	2	–	–
Wasco	307	–	16	76	109	63	37	6	–	–
Washington	7,054	1	251	1,009	1,944	2,441	1,150	241	17	–
Wheeler	10	–	–	2	4	4	–	–	–	–
Yamhill	1,145	–	56	225	362	337	136	24	5	–

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

**TABLE 2-11. Unmarried mothers by age of mother and county of residence,
Oregon resident births, 2014**

County of residence	Total births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	16,349	20	2,061	5,617	4,395	2,655	1,255	329	17	—
Baker	63	—	7	26	16	10	4	—	—	—
Benton	173	—	18	55	51	30	17	2	—	—
Clackamas	1,147	2	105	396	307	203	105	29	—	—
Clatsop	165	—	24	53	48	27	13	—	—	—
Columbia	178	—	25	55	50	31	14	3	—	—
Coos	296	—	38	118	90	38	11	1	—	—
Crook	85	—	16	37	19	8	3	2	—	—
Curry	46	—	2	13	19	5	5	2	—	—
Deschutes	572	—	69	200	173	75	42	12	1	—
Douglas	560	—	80	229	148	68	31	4	—	—
Gilliam	3	—	—	2	1	—	—	—	—	—
Grant	26	—	2	13	9	2	—	—	—	—
Harney	31	—	6	9	7	6	3	—	—	—
Hood River	95	—	17	26	24	16	4	7	1	—
Jackson	978	1	134	344	267	138	76	17	1	—
Jefferson	153	—	19	62	43	23	6	—	—	—
Josephine	427	2	51	163	115	60	29	5	2	—
Klamath	340	—	62	134	90	36	13	5	—	—
Lake	29	—	6	15	4	2	2	—	—	—
Lane	1,541	—	191	506	437	277	103	27	—	—
Lincoln	217	1	27	78	64	29	15	2	1	—
Linn	563	1	77	214	165	67	35	4	—	—
Malheur	192	—	36	76	45	23	9	3	—	—
Marion	1,902	9	271	692	479	291	129	29	2	—
Morrow	69	—	13	24	19	5	6	2	—	—
Multnomah	3,086	3	341	910	785	630	315	97	5	—
Polk	336	—	42	131	91	56	11	5	—	—
Sherman	3	—	1	1	1	—	—	—	—	—
Tillamook	104	—	12	39	30	12	9	2	—	—
Umatilla	493	—	76	185	114	66	40	12	—	—
Union	99	—	12	40	26	15	5	1	—	—
Wallowa	13	—	2	2	5	2	2	—	—	—
Wasco	146	—	15	53	49	20	6	3	—	—
Washington	1,819	1	215	584	486	315	167	48	3	—
Wheeler	8	—	—	2	3	3	—	—	—	—
Yamhill	391	—	49	130	115	66	25	5	1	—

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

TABLE 2-12. Region and selected country of mother's birth by continent of father's birth, Oregon residents, 2014

Region & selected country of mother's birth	Total	Continent of father's birth					
		North & Central America	South America	Europe	Asia	Africa	Other & unknown
Total	45,557	37,741	108	986	1,995	447	4,280
North America	37,187	32,517	74	411	414	105	3,666
Canada	174	158	1	3	1	2	9
United States	37,013	32,359	73	408	413	103	3,657
Central America	4,208	3,880	7	6	5	2	308
El Salvador	69	58	1	–	1	–	9
Guatemala	164	144	–	–	–	–	20
Mexico	3,915	3,626	6	6	3	2	272
Caribbean	53	44	–	1	1	–	7
South America	122	93	20	3	2	–	4
Brazil	32	24	6	2	–	–	–
East Europe	738	183	2	401	134	1	17
Moldavia	55	4	–	39	12	–	–
Romania	75	25	–	42	2	–	6
Russia	200	66	1	60	68	–	5
Ukraine	335	44	–	244	42	1	4
North Europe	145	93	–	42	7	1	2
United Kingdom	92	62	–	24	5	1	–
South Europe	69	36	1	29	2	–	1
West Europe	175	143	1	20	5	–	6
Germany	138	114	1	12	5	–	6
East Asia	635	270	–	8	334	–	23
China	307	52	–	2	232	–	21
Japan	112	92	–	1	18	–	1
South Korea	145	93	–	3	49	–	–
Taiwan	53	22	–	1	29	–	1
Southeast Asia	732	288	3	4	405	4	28
Laos	33	11	–	–	19	–	3
Philippines	206	138	–	1	59	1	7
Thailand	86	49	–	–	32	2	3
Vietnam	292	50	3	–	225	1	13
South Asia	479	51	–	6	418	2	2
India	386	41	–	6	337	–	2
Eurasia	74	6	–	27	40	–	1
Middle East	278	28	–	24	212	12	2
Saudi Arabia	111	2	–	1	108	–	–
East Africa	250	20	–	–	1	209	20
Ethiopia	82	3	–	–	–	67	12
Somalia	115	2	–	–	–	108	5
North Africa	60	4	–	1	4	50	1
Oceania	225	45	–	2	5	3	170
Australia & New Zealand	32	24	–	1	2	2	3
Micronesia	172	17	–	1	–	1	153
Other & unknown countries	127	40	–	1	6	58	22

– Quantity is zero.

TABLE 2-13. Race, ethnicity, and place of birth of mother by selected demographic characteristics (percent), Oregon resident births, 2014

Characteristic of mother	Total	Single mention race						Hispanic ²	
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ NS ¹		Multiple races
Total	45,557	31,062	948	431	2,159	304	248	1,886	8,519
Ratio of males to females ³	1,044	1,047	1,070	1,177	1,020	936	953	1,013	1,041
All births									
All births	45,557	31,062	948	431	2,159	304	248	1,886	8,519
Age 10-19	5.3	4.0	7.9	8.1	0.7	5.9	4.9	8.4	10.0
4 or more live births	12.0	10.0	22.5	23.2	4.0	25.0	12.9	11.2	19.3
Unmarried mothers	36.0	31.5	54.1	61.9	13.2	50.8	37.5	51.4	50.7
Less than 12 years education	14.5	8.1	22.4	23.5	7.9	24.3	16.9	12.7	37.9
Mothers born in the United States									
Total born in the U.S.	37,013	29,274	601	428	398	125	207	1,777	4,203
Age 10-19	5.8	4.2	10.3	8.2	2.5	7.2	5.8	8.8	15.5
4 or more live births	10.3	9.6	16.5	23.1	6.0	20.8	12.1	11.1	12.6
Unmarried mothers	37.5	32.8	72.3	61.8	26.0	46.0	40.8	53.8	56.6
Less than 12 years education	10.3	8.2	16.4	23.5	3.8	12.8	12.1	13.1	22.6
Mothers born outside the United States									
Total born outside of the U.S.	8,544	1,788	347	3	1,761	179	41	109	4,316
Age 10-19	3.0	1.5	3.7	-	0.3	5.0	-	1.8	4.7
4 or more live births	19.3	15.9	32.9	33.3	3.6	27.9	17.1	12.8	25.8
Unmarried mothers	29.3	10.5	22.5	66.7	10.3	54.2	20.5	11.9	44.9
Less than 12 years education	32.3	6.9	33.0	33.3	8.9	32.4	37.5	6.5	52.9

- Quantity is zero.

TABLE 2-13. Race, ethnicity, and place of birth of mother by selected demographic characteristics (percent), Oregon resident births, 2014 (continued)

Characteristic of mother	Total	Multiple mention race and ethnicity							
		White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic ²
Total	45,557	39,384	1,446	1,789	2,786	496	1,808	361	8,519
Ratio of males to females ³	1,044	1,048	1,114	1,006	1,012	938	1,002	900	1,041
All births									
All births	45,557	39,384	1,446	1,789	2,786	496	1,808	361	8,519
Age 10-19	5.3	5.2	10.6	9.2	1.7	8.3	11.0	5.8	10.0
4 or more live births	12.0	11.5	19.4	15.6	5.2	20.6	19.5	19.1	19.3
Unmarried mothers	36.0	35.4	58.8	60.4	18.6	51.5	50.9	42.4	50.7
Less than 12 years education	14.5	13.0	20.9	18.7	7.8	21.0	42.1	42.8	37.9
Mothers born in the United States									
Total born in the U.S.	37,013	34,359	1,081	1,747	910	297	763	203	4,203
Age 10-19	5.8	5.4	12.9	9.3	4.5	10.4	19.7	6.9	15.5
4 or more live births	10.3	10.0	15.2	15.5	6.9	15.8	12.7	13.8	12.6
Unmarried mothers	37.5	35.9	70.8	61.0	35.2	51.0	59.0	46.0	56.6
Less than 12 years education	10.3	9.7	17.3	18.3	5.8	13.9	28.1	22.5	22.6
Mothers born outside the United States									
Total born outside of the U.S.	8,544	5,025	365	42	1,876	199	1,045	158	4,316
Age 10-19	3.0	3.5	3.8	4.8	0.4	5.0	4.7	4.5	4.7
4 or more live births	19.3	22.1	32.1	19.0	4.3	27.6	24.4	25.9	25.8
Unmarried mothers	29.3	32.0	23.3	35.7	10.5	52.3	45.1	37.8	44.9
Less than 12 years education	32.3	35.6	31.7	33.3	8.8	31.7	52.4	61.9	52.9

- 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, 2014

Characteristics	Total	Private insurance	Self-pay	Medicaid-/OHP*	Other	Unknown
Mother's age and marital status						
Total	45,557	23,722	865	20,348	551	71
Married	29,121	19,556	632	8,464	432	37
Unmarried	16,349	4,120	227	11,859	112	31
Less than 18	631	133	8	487	2	1
Married	33	4	1	26	1	1
Unmarried	598	129	7	461	1	–
18-24	11,045	3,277	161	7,448	149	10
Married	3,922	1,609	89	2,126	95	3
Unmarried	7,100	1,659	70	5,312	52	7
25-34	26,163	15,172	512	10,114	318	47
Married	19,062	13,366	389	5,013	269	25
Unmarried	7,050	1,773	120	5,090	45	22
35+	7,715	5,139	184	2,298	82	12
Married	6,102	4,576	153	1,298	67	8
Unmarried	1,601	559	30	996	14	2
First trimester care						
Total	35,021	20,364	465	13,742	420	30
Married	23,869	17,140	364	6,001	342	22
Unmarried	11,094	3,189	98	7,725	74	8
Percent	77.5	86.4	54.6	68.1	78.2	50.0
Married	82.5	88.1	58.3	71.5	80.9	71.0
Unmarried	68.5	78.0	44.1	65.7	69.2	28.6
Inadequate prenatal care						
Total	2,692	680	162	1,790	44	16
Married	1,136	448	91	570	24	3
Unmarried	1,545	229	69	1,215	20	12
Percent	6.0	2.9	19.1	9.0	8.2	27.1
Married	4.0	2.3	14.6	6.9	5.7	10.0
Unmarried	9.6	5.7	31.4	10.4	18.5	42.9
Tobacco use						
Percent	10.4	3.5	8.7	18.5	10.0	16.4
Alcohol use						
Percent	1.1	1.5	0.6	0.7	1.2	8.9
Low birthweight						
Percent	6.3	5.9	5.3	6.7	6.0	19.1

– 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, 2014

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	45,557	4,709	10.4	403	1,600	1,448	870	320	68
Baker	166	44	26.7	3	21	12	6	1	1
Benton	737	55	7.5	6	18	15	10	6	—
Clackamas	4,092	314	7.7	16	99	95	71	29	4
Clatsop	409	72	17.7	1	28	25	14	4	—
Columbia	493	81	16.5	4	30	24	15	7	1
Coos	624	150	24.0	6	53	55	28	7	1
Crook	221	24	11.0	4	10	7	1	2	—
Curry	145	25	17.2	1	8	8	4	2	2
Deschutes	1,787	167	9.4	15	61	54	24	11	2
Douglas	1,104	264	23.9	30	96	86	34	15	3
Gilliam	18	—	—	—	—	—	—	—	—
Grant	62	6	10.2	1	2	2	1	—	—
Harney	88	13	14.9	2	6	2	2	1	—
Hood River	304	5	1.6	—	—	3	2	—	—
Jackson	2,298	330	14.5	42	109	99	48	28	4
Jefferson	281	33	11.8	8	7	13	4	1	—
Josephine	866	189	21.8	18	65	61	31	10	4
Klamath	792	152	19.3	25	53	43	20	9	2
Lake	82	13	15.9	2	6	2	2	1	—
Lane	3,682	540	14.7	50	171	170	108	33	8
Lincoln	428	93	21.7	10	31	25	17	9	1
Linn	1,434	252	17.6	24	102	78	34	12	2
Malheur	393	41	10.4	—	24	10	5	2	—
Marion	4,397	427	9.7	34	154	118	82	34	5
Morrow	166	19	11.4	1	9	3	5	1	—
Multnomah	9,463	632	6.7	45	186	190	155	38	18
Polk	854	127	14.9	8	49	42	22	5	1
Sherman	19	4	21.1	—	1	2	—	—	1
Tillamook	257	38	14.9	3	11	14	7	3	—
Umatilla	1,032	125	12.1	11	48	37	22	4	3
Union	290	51	17.7	3	23	15	7	2	1
Wallowa	57	9	15.8	1	—	5	2	1	—
Wasco	307	49	16.0	2	14	16	11	6	—
Washington	7,054	251	3.6	15	71	78	56	27	4
Wheeler	10	*	*	*	*	*	*	*	*
Yamhill	1,145	113	9.9	12	34	39	19	9	—

— Quantity is zero.

* Detailed reporting of small numbers may breach confidentiality.

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, 2014

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	45,557	6.0	31.7	1.4	16.9	12.0	14.5	36.0	10.4
Baker	166	7.8	9.0	0.6	10.2	15.1	12.0	38.2	26.7
Benton	737	5.5	26.0	0.9	19.0	10.2	6.9	23.5	7.5
Clackamas	4,092	5.3	21.5	0.9	18.9	10.5	9.1	28.1	7.7
Clatsop	409	7.7	24.4	1.5	14.7	14.4	19.1	40.3	17.7
Columbia	493	7.0	11.8	1.4	12.0	13.0	8.8	36.2	16.5
Coos	624	6.4	19.0	1.0	8.5	13.8	16.4	47.4	24.0
Crook	221	4.8	19.1	2.3	10.4	10.4	17.4	38.6	11.0
Curry	145	9.2	15.9	–	13.8	15.2	13.1	46.5	17.2
Deschutes	1,787	3.4	18.7	1.1	17.0	9.3	9.7	32.2	9.4
Douglas	1,104	5.7	12.3	1.4	7.8	12.9	15.3	50.8	23.9
Gilliam	18	–	22.2	–	11.1	33.3	–	16.7	–
Grant	62	12.9	9.7	–	1.6	3.2	13.1	41.9	10.2
Harney	88	10.4	20.7	2.3	11.4	14.8	16.1	35.2	14.9
Hood River	304	4.1	48.0	0.7	19.1	13.8	22.4	31.2	1.6
Jackson	2,298	6.3	27.2	1.7	13.6	11.7	19.8	42.7	14.5
Jefferson	281	14.9	54.1	1.8	8.5	19.2	26.5	54.4	11.8
Josephine	866	7.8	17.5	2.0	11.2	13.2	14.4	49.5	21.8
Klamath	792	6.6	30.9	1.4	8.3	13.8	18.1	43.2	19.3
Lake	82	12.3	20.7	–	13.4	9.8	19.5	35.4	15.9
Lane	3,682	6.6	24.1	1.5	14.7	9.0	12.1	42.0	14.7
Lincoln	428	5.5	31.9	2.8	13.6	15.0	22.5	51.1	21.7
Linn	1,434	3.5	18.3	1.7	9.8	13.4	15.7	39.3	17.6
Malheur	393	10.9	49.1	3.6	10.7	19.8	29.0	49.0	10.4
Marion	4,397	6.3	45.6	2.4	13.3	16.6	20.8	43.3	9.7
Morrow	166	7.4	52.4	1.8	18.7	19.3	32.7	41.6	11.4
Multnomah	9,463	6.6	36.0	1.1	24.3	9.9	13.1	32.8	6.7
Polk	854	5.5	26.5	2.0	10.4	15.2	14.1	39.4	14.9
Sherman	19	–	–	–	15.8	5.3	10.5	15.8	21.1
Tillamook	257	4.9	23.0	1.2	12.5	17.1	14.8	40.5	14.9
Umatilla	1,032	7.6	48.3	2.3	11.3	18.8	25.3	47.9	12.1
Union	290	5.5	10.7	0.7	11.0	15.5	10.8	34.1	17.7
Wallowa	57	3.5	5.3	1.8	19.3	12.3	7.0	22.8	15.8
Wasco	307	3.0	36.6	1.3	14.0	14.3	19.0	47.6	16.0
Washington	7,054	5.3	42.0	1.0	20.0	10.9	12.1	25.8	3.6
Wheeler	10	*	10.0	–	–	*	–	80.0	*
Yamhill	1,145	4.0	27.4	1.5	14.4	14.1	12.8	34.1	9.9

– Quantity is zero.

¹ Less than five prenatal visits or care began in the third trimester.² Includes nonwhite race and Hispanic ethnicity.

* Detailed reporting of small numbers may breach confidentiality.

WARNING: Rates based on less than 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, 2014**

Mother's age	Total births	First trimester care		Inadequate prenatal care ¹	
		Number	Percent	Number	Percent
Total	45,557	35,021	77.5	2,692	6.0
Less than 15	20	7	35.0	7	35.0
15-19	2,392	1,525	64.5	266	11.3
20-24	9,264	6,457	70.3	725	8.0
25-29	13,167	10,260	78.5	739	5.7
30-34	12,996	10,585	82.0	600	4.7
35-39	6,275	5,068	81.4	275	4.5
40-44	1,340	1,042	78.6	77	5.9
45+	100	76	76.0	3	3.0
Unknown	3	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, 2014**

Mother's race/ethnicity	Total births	First trimester care		Inadequate prenatal care ¹		Adequate	
		Number	Percent	Number	Percent	Number	Percent
Total	45,557	35,021	77.5	2,692	6.0	42,048	94.0
Non-Hispanic single mention race							
Total non-Hispanic	36,849	28,948	79.1	2,096	5.8	34,129	94.2
White	31,062	24,781	80.3	1,581	5.2	28,933	94.8
African American	948	643	68.3	105	11.2	832	88.8
American Indian	431	270	63.2	60	14.1	365	85.9
Asian	2,159	1,705	79.4	119	5.6	2,019	94.4
Hawaiian/Pacific Islander	304	113	37.2	85	28.1	217	71.9
Other/unknown	248	170	73.0	20	9.1	199	90.9
Multiple races	1,886	1,395	74.5	143	7.7	1,710	92.3
Hispanic single mention race							
Total Hispanic	8,519	5,944	70.4	579	6.9	7,773	93.1
White	6,237	4,338	70.2	427	7.0	5,703	93.0
African American	47	33	70.2	4	8.7	42	91.3
American Indian	125	80	65.0	16	13.3	104	86.7
Asian	32	25	80.6	1	3.2	30	96.8
Hawaiian/Pacific Islander	14	9	64.3	1	7.1	13	92.9
Other/unknown	1,818	1,287	71.3	111	6.3	1,659	93.7
Multiple races	246	172	71.4	19	7.9	222	92.1
Multiple mention race and ethnicity							
White	39,384	30,658	78.4	2,156	5.6	36,528	94.4
African American	1,446	1,003	69.8	147	10.3	1,279	89.7
American Indian	1,789	1,232	69.6	170	9.7	1,585	90.3
Asian	2,786	2,196	79.3	168	6.1	2,585	93.9
Hawaiian/Pacific Islander	496	239	48.2	110	22.3	383	77.7
Other	1,808	1,287	71.5	118	6.7	1,652	93.3
Unknown	361	245	71.6	24	7.3	303	92.7
Hispanic	8,519	5,944	70.4	579	6.9	7,773	93.1

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, 2014

Mother's education	Total births	First trimester care		Inadequate prenatal care ¹	
		Number	Percent	Number	Percent
Total	45,557	35,021	77.5	2,692	6.0
8th grade or less	1,476	951	64.8	136	9.4
9th to 12th grade, no diploma	5,072	3,231	64.4	652	13.1
High school graduate or GED	10,136	7,168	71.3	783	7.9
Some college, no degree	11,453	8,762	77.1	631	5.6
Associates degree	3,673	2,966	81.4	140	3.9
Bachelors degree	8,446	7,269	86.6	218	2.6
Masters degree	3,842	3,433	89.9	86	2.3
Doctorate or professional degree ...	1,212	1,096	90.9	17	1.4
Unknown	247	145	62.2	29	12.8

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, 2014

County of residence	Total births	First trimester care		Inadequate prenatal care ¹	
		Number	Percent	Number	Percent
Total	45,557	35,021	77.5	2,692	6.0
Baker	166	122	73.9	13	7.8
Benton	737	576	78.5	40	5.5
Clackamas	4,092	3,272	80.3	215	5.3
Clatsop	409	302	74.4	31	7.7
Columbia	493	385	78.9	34	7.0
Coos	624	486	78.1	40	6.4
Crook	221	145	70.4	9	4.8
Curry	145	104	72.2	13	9.2
Deschutes	1,787	1,403	81.0	52	§ 3.4
Douglas	1,104	851	77.3	63	5.7
Gilliam	18	11	68.8	—	—
Grant	62	40	64.5	8	12.9
Harney	88	60	71.4	8	10.4
Hood River	304	236	79.7	12	4.1
Jackson	2,298	1,781	78.0	142	6.3
Jefferson	281	191	68.5	40	§ 14.9
Josephine	866	671	77.5	67	7.8
Klamath	792	637	80.8	52	6.6
Lake	82	56	68.3	10	12.3
Lane	3,682	2,782	75.7	244	6.6
Lincoln	428	317	75.5	22	5.5
Linn	1,434	1,141	80.2	50	§ 3.5
Malheur	393	229	§ 58.3	43	§ 10.9
Marion	4,397	3,234	§ 73.9	273	6.3
Morrow	166	110	67.1	12	7.4
Multnomah	9,463	7,334	77.8	623	§ 6.6
Polk	854	653	76.8	46	5.5
Sherman	19	18	94.7	—	—
Tillamook	257	185	73.1	12	4.9
Umatilla	1,032	760	74.6	77	7.6
Union	290	239	82.4	16	5.5
Wallowa	57	44	77.2	2	3.5
Wasco	307	248	82.1	9	§ 3.0
Washington	7,054	5,458	78.4	366	§ 5.3
Wheeler	10	*	*	*	*
Yamhill	1,145	933	81.6	46	§ 4.0

— Quantity is zero.

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

§ Rate is significantly different from the state rate.

* 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 2-21. Prenatal care by resident county for unmarried mothers, Oregon residents, 2014

County of residence	Total births	First trimester care		Inadequate prenatal care ¹	
		Number	Percent	Number	Percent
Total	16,349	11,094	68.5	1,545	9.6
Baker	63	45	71.4	8	12.7
Benton	173	108	63.2	18	10.5
Clackamas	1,147	801	70.2	95	8.3
Clatsop	165	111	67.7	21	12.9
Columbia	178	129	73.3	19	10.8
Coos	296	210	70.9	26	8.8
Crook	85	55	69.6	3	4.2
Curry	46	35	77.8	4	9.3
Deschutes	572	413	75.0	24	§ 4.7
Douglas	560	392	70.4	54	9.7
Gilliam	3	*	*	*	*
Grant	26	13	50.0	6	23.1
Harney	31	18	64.3	4	14.3
Hood River	95	65	70.7	8	9.1
Jackson	978	702	72.2	87	9.0
Jefferson	153	98	64.5	26	§ 17.6
Josephine	427	300	70.3	48	11.3
Klamath	340	252	74.1	30	8.9
Lake	29	16	55.2	7	24.1
Lane	1,541	1,003	65.3	158	10.3
Lincoln	217	145	68.4	15	7.4
Linn	563	418	75.0	25	§ 4.5
Malheur	192	96	§ 50.0	30	§ 15.6
Marion	1,902	1,244	65.9	181	9.7
Morrow	69	43	62.3	3	4.3
Multnomah	3,086	2,082	67.7	351	§ 11.4
Polk	336	227	68.4	29	8.9
Sherman	3	*	*	*	*
Tillamook	104	68	66.7	8	7.9
Umatilla	493	350	71.4	42	8.6
Union	99	71	71.7	11	11.1
Wallowa	13	10	76.9	1	7.7
Wasco	146	108	75.0	6	4.2
Washington	1,819	1,169	65.6	167	9.5
Wheeler	8	*	*	*	*
Yamhill	391	287	73.6	28	7.2

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, 2014**

Birthweight (in grams)	Total births	First trimester care		Inadequate care ¹	
		Number	Percent	Number	Percent
Total	45,557	35,021	77.5	2,692	6.0
Low birthweight					
Total low birthweight	2,847	2,152	76.7	316	11.4
499 & less	52	39	81.2	21	43.8
500-999	171	126	75.9	58	35.2
1000-1499	237	180	76.9	43	18.6
1500-1999	516	386	76.4	52	10.5
2000-2499	1,871	1,421	76.7	142	7.8
Birthweight greater than 2499 grams					
2500-2999	6,901	5,205	76.1	463	6.8
3000-3499	16,923	12,930	77.0	941	5.7
3500-3999	14,016	10,908	78.4	735	5.3
4000-4499	4,163	3,274	79.0	209	5.1
4500-4999	634	495	78.3	23	3.7
5000 & over	62	52	83.9	2	3.3
Unknown	11	5	62.5	3	37.5

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 2-23. Rates¹ of selected medical risk factors by age of mother, Oregon residents, 2014

Medical risk factor of mother	Total births ²	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Total births	45,557	20	2,392	9,264	13,167	12,996	6,275	1,340	100
Diabetes-chronic	9.6	—	4.6	6.2	9.3	9.5	14.2	23.1	30.0
Diabetes-gestational	77.9	50.0	28.4	44.0	64.4	91.8	122.5	178.4	210.0
Hypertension-chronic	17.4	—	8.4	10.0	13.8	21.2	25.5	42.5	70.0
Hypertension-gestational	64.6	150.0	63.1	63.4	63.9	59.7	71.4	96.3	90.0
Eclampsia	7.0	50.0	15.5	5.5	5.7	6.5	8.6	9.7	30.0
Previous preterm infant ³	39.1	—	10.9	29.6	41.8	41.6	50.5	48.5	110.0
Infertility treatment	21.5	—	—	3.0	10.7	27.3	46.9	92.5	380.0
Previous cesarean delivery	137.0	—	15.5	88.0	135.1	155.9	197.8	232.1	320.0

— Quantity is zero.

¹ Rates per 1,000 mothers.

² Total includes mothers with unstated age.

³ Gestation less than 37 completed weeks.

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, 2014

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	45,557	20	2,392	9,264	13,167	12,996	6,275	1,340	100
First trimester care	77.5	35.0	64.5	70.3	78.5	82.0	81.4	78.6	76.0
Inadequate care ²	6.0	35.0	11.3	8.0	5.7	4.7	4.5	5.9	3.0
No prenatal care	0.8	–	1.5	1.1	0.6	0.6	0.6	0.7	–
Out-of-hospital birth	4.0	5.0	1.0	2.5	4.0	4.9	5.5	4.9	1.0
Primary cesarean	16.2	5.0	16.1	14.3	14.9	16.7	19.0	23.4	26.0
Repeat cesarean	11.2	–	1.3	7.4	11.2	12.7	16.0	19.6	28.0
Multiple births	3.5	–	1.8	2.1	2.9	4.2	5.3	6.7	20.0
Tobacco use	10.4	20.0	16.7	17.3	11.0	6.7	5.1	5.1	–
Overweight/obese ³	49.1	–	37.6	49.3	51.1	48.2	49.9	55.4	51.5
All births - infant									
Preterm births ⁴	7.7	20.0	8.2	7.8	7.0	7.2	8.9	11.5	20.0
Very low birthweight ⁵ ..	1.0	10.0	1.4	1.1	0.8	0.9	1.1	1.8	2.0
Low birthweight ⁶	6.3	20.0	7.4	6.4	5.6	5.8	7.0	9.6	12.0
Fetal macrosomia ⁷	10.7	10.0	7.1	8.4	11.1	12.0	11.5	11.0	11.0
5 minute Apgar < 7	2.6	10.0	4.1	2.4	2.6	2.5	2.4	2.9	4.0
Mothers born in the U.S.									
Total births	37,013	18	2,138	8,002	10,814	10,429	4,631	909	70
First trimester care	79.1	33.3	65.8	71.7	79.9	84.1	84.2	83.0	81.4
Inadequate care ²	5.7	33.3	11.0	7.6	5.3	4.2	4.0	4.2	–
No prenatal care	0.8	–	1.6	1.1	0.7	0.5	0.7	0.8	–
Out-of-hospital birth	4.7	5.6	1.1	2.8	4.7	5.7	6.8	6.3	1.4
Primary cesarean	16.5	5.6	16.1	14.8	15.1	17.1	19.6	26.8	28.6
Repeat cesarean	10.7	–	1.1	7.5	11.1	12.1	14.8	17.7	24.3
Multiple births	3.8	–	2.0	2.3	3.1	4.6	5.9	8.5	17.1
Tobacco use	12.5	22.2	18.7	19.8	13.2	8.0	6.7	7.3	–
Overweight/obese ³	49.3	–	37.5	50.1	52.1	48.1	48.9	53.2	47.1
Infants of mothers born in the U.S.									
Preterm births ⁴	7.8	22.2	8.1	7.9	7.2	7.4	9.1	11.5	18.6
Very low birthweight ⁵ ..	1.0	11.1	1.5	1.0	0.9	0.9	1.1	1.5	2.9
Low birthweight ⁶	6.3	22.2	7.4	6.5	5.6	5.8	7.1	10.1	11.4
Fetal macrosomia ⁷	11.0	11.1	7.4	8.7	11.5	12.7	11.7	11.5	11.4
5 minute Apgar < 7	2.8	11.1	4.4	2.5	2.9	2.7	2.5	3.0	5.7

– Quantity is zero.

See footnotes at end of table.

TABLE 2-24. Selected medical or health characteristics by mother's age (percents), Oregon resident births, 2014 (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	8,544	2	254	1,262	2,353	2,567	1,644	431	30
First trimester care	70.3	50.0	52.8	61.2	71.6	73.4	73.6	69.6	63.3
Inadequate care ²	7.6	50.0	14.5	10.3	7.5	6.6	5.7	9.5	10.0
No prenatal care	0.6	–	1.2	0.9	0.6	0.6	0.2	0.5	–
Out-of-hospital birth	1.3	–	0.4	0.8	1.0	1.6	1.8	1.9	–
Primary cesarean	14.7	–	15.7	11.2	13.9	15.0	17.4	16.2	20.0
Repeat cesarean	13.7	–	2.4	6.4	11.7	14.8	19.2	23.4	36.7
Multiple births	2.5	–	–	1.0	2.1	2.7	3.6	3.0	26.7
Tobacco use	1.2	–	0.4	1.5	1.2	1.4	0.8	0.5	–
Overweight/obese ³	48.2	–	38.3	43.7	46.2	48.2	52.8	60.3	62.1
Infants of mothers born outside the U.S.									
Preterm births ⁴	7.1	–	8.7	6.7	6.0	6.3	8.4	11.6	23.3
Very low birthweight ⁵ ..	1.0	–	0.8	1.3	0.6	0.9	1.3	2.3	–
Low birthweight ⁶	6.1	–	7.9	5.9	5.3	5.9	6.8	8.4	13.3
Fetal macrosomia ⁷	9.1	–	4.7	6.7	9.5	9.2	10.8	10.0	10.0
5 minute Apgar < 7	1.7	–	1.2	1.6	1.2	1.8	2.1	2.8	–

– Quantity is zero.
 1 Total includes three 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, 2014

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	45,557	31,062	948	431	2,159	304	248	1,886	8,519
First trimester care	77.5	80.3	68.3	63.2	79.4	37.2	73.0	74.5	70.4
Inadequate care ²	6.0	5.2	11.2	14.1	5.6	28.1	9.1	7.7	6.9
No prenatal care	0.8	0.7	1.1	0.9	0.4	6.0	2.3	0.8	0.6
Out-of-hospital birth	4.0	5.1	1.8	2.8	1.9	0.3	9.3	3.7	1.2
Primary cesarean	16.2	16.7	19.6	13.5	18.4	17.1	14.9	16.6	13.7
Repeat cesarean	11.2	10.5	15.7	14.4	12.2	20.1	12.9	10.0	12.9
Multiple births	3.5	4.0	5.3	2.3	2.9	2.0	4.5	2.5	2.2
Tobacco use	10.4	12.3	10.1	20.0	1.1	4.9	12.8	17.2	3.7
Overweight/obese ³	49.1	46.6	59.6	62.8	25.0	68.4	48.7	52.8	61.4
All births - infant									
Preterm births ⁴	7.7	7.6	10.3	7.9	7.1	11.2	10.7	7.6	7.6
Very low birthweight ⁵ ..	1.0	0.9	1.7	0.2	0.8	1.3	1.6	1.2	1.2
Low birthweight ⁶	6.3	6.0	9.8	7.0	7.1	6.6	11.0	7.2	6.1
Fetal macrosomia ⁷	10.7	11.5	8.2	11.8	5.0	7.6	8.2	10.0	9.5
5 minute Apgar < 7	2.6	2.8	4.2	2.3	1.3	2.6	0.8	3.1	2.1
Mothers born in the U.S.									
Total births	37,013	29,274	601	428	398	125	207	1,777	4,203
First trimester care	79.1	80.9	70.7	63.2	81.3	56.0	72.8	74.6	71.8
Inadequate care ²	5.7	5.0	10.9	14.2	4.1	11.2	8.8	7.6	7.6
No prenatal care	0.8	0.7	1.3	0.9	0.8	2.4	2.8	0.9	0.9
Out-of-hospital birth	4.7	5.2	2.3	2.8	4.8	0.8	10.1	3.7	1.9
Primary cesarean	16.5	16.8	19.5	13.6	16.1	15.2	15.0	16.1	15.2
Repeat cesarean	10.7	10.6	16.3	14.5	9.3	15.2	11.6	10.1	10.2
Multiple births	3.8	4.0	6.3	2.3	4.5	4.8	4.4	2.5	2.5
Tobacco use	12.5	12.9	15.4	20.1	3.5	10.4	15.0	18.2	7.1
Overweight/obese ³	49.3	47.2	63.7	62.7	38.3	72.4	48.7	53.7	59.3
Infants of mothers born in the U.S.									
Preterm births ⁴	7.8	7.7	12.6	7.7	8.8	11.2	11.8	7.7	7.8
Very low birthweight ⁵ ..	1.0	1.0	1.8	0.2	1.3	0.8	2.0	1.1	1.2
Low birthweight ⁶	6.3	6.0	12.3	7.0	9.3	5.6	11.7	7.0	6.4
Fetal macrosomia ⁷	11.0	11.6	6.2	11.9	5.3	10.4	6.3	10.1	9.0
5 minute Apgar < 7	2.8	2.8	4.7	2.3	2.3	4.0	1.0	3.0	2.5

See footnotes at end of table.

TABLE 2-25. Selected medical or health characteristics by mother's race (percents), Oregon resident births, 2014 (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	8,544	1,788	347	3	1,761	179	41	109	4,316
First trimester care	70.3	70.4	64.1	66.7	79.0	24.0	73.7	72.9	69.0
Inadequate care ²	7.6	8.2	11.7	—	5.9	40.1	10.5	10.5	6.3
No prenatal care	0.6	0.5	0.6	—	0.3	8.5	—	—	0.4
Out-of-hospital birth	1.3	3.4	0.9	—	1.2	—	4.9	3.7	0.6
Primary cesarean	14.7	14.5	19.9	—	18.9	18.4	14.6	24.8	12.2
Repeat cesarean	13.7	9.1	14.7	—	12.9	23.5	19.5	9.2	15.6
Multiple births	2.5	3.5	3.5	—	2.5	—	5.1	2.8	2.0
Tobacco use	1.2	3.5	0.9	—	0.5	1.1	2.6	—	0.5
Overweight/obese ³	48.2	35.3	52.0	66.7	21.9	65.5	48.6	38.1	63.5
Infants of mothers born outside the U.S.									
Preterm births ⁴	7.1	6.2	6.3	33.3	6.8	11.2	5.0	6.4	7.5
Very low birthweight ⁵ ..	1.0	0.7	1.4	—	0.7	1.7	—	2.8	1.2
Low birthweight ⁶	6.1	5.8	5.5	—	6.6	7.3	7.5	10.1	5.9
Fetal macrosomia ⁷	9.1	11.1	11.8	—	4.9	5.6	17.5	9.2	9.9
5 minute Apgar < 7	1.7	1.9	3.5	—	1.0	1.7	—	3.7	1.7

- 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, 2014 (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	45,557	39,384	1,446	1,789	2,786	496	1,808	361	8,519
First trimester care	77.5	78.4	69.8	69.6	79.3	48.2	71.5	71.6	70.4
Inadequate care ²	6.0	5.6	10.3	9.7	6.1	22.3	6.7	7.3	6.9
No prenatal care	0.8	0.7	1.1	1.1	0.4	4.1	0.6	1.2	0.6
Out-of-hospital birth	4.0	4.4	2.0	3.1	2.5	1.6	1.2	5.0	1.2
Primary cesarean	16.2	16.2	17.7	15.5	18.2	17.5	13.2	14.4	13.7
Repeat cesarean	11.2	10.8	14.3	11.5	11.7	17.1	14.0	13.3	12.9
Multiple births	3.5	3.6	4.7	2.4	2.8	2.4	2.2	1.4	2.2
Tobacco use	10.4	11.2	12.1	21.4	2.8	8.3	2.6	4.1	3.7
Overweight/obese ³	49.1	49.2	59.7	57.7	29.6	64.0	62.0	58.9	61.4
All births - infant									
Preterm births ⁴	7.7	7.6	10.1	8.3	7.2	9.5	7.6	8.1	7.6
Very low birthweight ⁵ ..	1.0	1.0	1.4	1.1	0.9	1.2	0.9	0.6	1.2
Low birthweight ⁶	6.3	6.0	10.1	7.3	7.1	6.2	6.4	6.7	6.1
Fetal macrosomia ⁷	10.7	11.1	7.6	11.1	5.9	9.9	9.5	7.0	9.5
5 minute Apgar < 7	2.6	2.7	3.9	3.0	1.7	2.0	1.9	0.6	2.1
Mothers born in the U.S.									
Total births	37,013	34,359	1,081	1,747	910	297	763	203	4,203
First trimester care	79.1	79.7	71.5	69.6	81.0	60.9	73.4	72.9	71.8
Inadequate care ²	5.7	5.3	9.8	9.7	6.0	12.8	7.5	7.7	7.6
No prenatal care	0.8	0.8	1.2	1.2	0.8	1.7	0.7	2.2	0.9
Out-of-hospital birth	4.7	4.8	2.2	3.1	4.8	2.7	1.7	7.9	1.9
Primary cesarean	16.5	16.6	17.1	15.6	16.3	17.2	16.1	13.3	15.2
Repeat cesarean	10.7	10.5	14.3	11.6	9.8	13.5	10.7	9.4	10.2
Multiple births	3.8	3.8	5.2	2.5	3.1	4.0	1.6	1.5	2.5
Tobacco use	12.5	12.6	15.9	21.9	7.5	12.9	5.7	7.0	7.1
Overweight/obese ³	49.3	48.6	62.1	57.8	43.4	63.2	59.1	55.9	59.3
Infants of mothers born in the U.S.									
Preterm births ⁴	7.8	7.7	11.2	8.3	8.4	9.1	6.4	7.5	7.8
Very low birthweight ⁵ ..	1.0	1.0	1.4	1.0	1.0	1.0	0.9	0.5	1.2
Low birthweight ⁶	6.3	6.1	11.5	7.3	7.5	6.1	5.9	5.5	6.4
Fetal macrosomia ⁷	11.0	11.2	6.4	11.2	7.8	12.8	8.7	5.5	9.0
5 minute Apgar < 7	2.8	2.8	4.1	3.0	2.6	2.4	2.8	0.5	2.5

See footnotes at end of table.

**TABLE 2-25. Selected medical or health characteristics by mother's race (percents)
Oregon resident births, 2014 (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	8,544	5,025	365	42	1,876	199	1,045	158	4,316
First trimester care	70.3	69.4	64.8	70.7	78.6	29.1	70.2	70.0	69.0
Inadequate care ²	7.6	7.1	11.7	7.3	6.1	36.5	6.0	6.9	6.3
No prenatal care	0.6	0.4	0.8	—	0.3	7.6	0.6	—	0.4
Out-of-hospital birth	1.3	1.6	1.4	4.8	1.4	—	0.8	1.3	0.6
Primary cesarean	14.7	13.5	19.5	11.9	19.2	18.1	11.0	15.8	12.2
Repeat cesarean	13.7	13.0	14.2	7.1	12.6	22.6	16.5	18.4	15.6
Multiple births	2.5	2.5	3.3	—	2.6	—	2.7	1.3	2.0
Tobacco use	1.2	1.6	0.8	—	0.5	1.5	0.4	0.6	0.5
Overweight/obese ³	48.2	52.9	52.2	54.8	22.6	65.2	64.0	62.7	63.5
Infants of mothers born outside the U.S.									
Preterm births ⁴	7.1	6.7	6.8	9.5	6.7	10.1	8.4	8.9	7.5
Very low birthweight ⁵ ..	1.0	1.1	1.4	4.8	0.9	1.5	1.0	0.6	1.2
Low birthweight ⁶	6.1	5.7	6.0	7.1	6.9	6.5	6.7	8.3	5.9
Fetal macrosomia ⁷	9.1	10.4	11.2	7.1	5.0	5.5	10.1	8.9	9.9
5 minute Apgar < 7	1.7	1.9	3.3	4.8	1.2	1.5	1.3	0.6	1.7

— 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, 2014

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	45,557	31,062	948	431	2,159	304	248	1,886	8,519
Diabetes-chronic	436	237	15	1	14	10	2	14	143
Diabetes-gestational	3,547	1,954	91	32	320	41	10	133	966
Hypertension-chronic	794	538	37	7	21	10	4	44	133
Hypertension-gestational	2,945	2,130	65	19	96	18	15	122	480
Eclampsia	319	206	8	–	10	2	–	17	76
Previous preterm infant ³	1,783	1,100	52	37	60	26	11	80	417
Infertility treatment	355	288	1	1	16	2	5	14	28
Previous cesarean delivery	6,241	3,957	183	69	334	73	37	229	1,359

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

TABLE 2-26. Mothers with selected medical risk factors by race of mother, Oregon residents, 2014 (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	45,557	39,384	1,446	1,789	2,786	496	1,808	361	8,519
Diabetes-chronic	436	350	19	14	21	12	36	10	143
Diabetes-gestational	3,547	2,821	120	134	375	57	193	29	966
Hypertension-chronic	794	684	51	38	36	13	29	3	133
Hypertension-gestational	2,945	2,594	107	108	142	37	105	23	480
Eclampsia	319	285	12	10	16	5	8	3	76
Previous preterm infant ³	1,783	1,475	75	105	88	36	108	16	417
Infertility treatment	355	326	3	8	23	2	6	3	28
Previous cesarean delivery	6,241	5,195	251	232	415	102	292	56	1,359

– Quantity is zero.
¹ Total includes mothers with unstated race/ethnicity.
² Hispanic includes any race.
³ Gestation less than 37 completed weeks.
 NS = Not stated.

TABLE 2-27. Age of mother by birthweight, Oregon resident births, 2014

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	45,557	20	2,392	9,264	13,167	12,996	6,275	1,340	100	3
Low birthweight										
Total low birthweight	2,847	4	178	596	732	756	440	128	12	1
499 & less	52	–	3	10	10	16	10	3	–	–
500-999	171	2	20	31	38	40	26	13	1	–
1000-1499	237	–	11	58	63	60	36	8	1	–
1500-1999	516	1	22	113	140	131	81	23	5	–
2000-2499	1,871	1	122	384	481	509	287	81	5	1
Birthweight greater than 2499 grams										
2500-2999	6,901	3	448	1,504	1,972	1,808	921	222	23	–
3000-3499	16,923	5	997	3,617	4,933	4,633	2,248	458	30	2
3500-3999	14,016	6	598	2,765	4,061	4,232	1,946	384	24	–
4000-4499	4,163	2	152	701	1,248	1,333	597	121	9	–
4500-4999	634	–	15	73	204	207	111	22	2	–
5000 & over	62	–	4	6	16	21	11	4	–	–
Unknown	11	–	–	2	1	6	1	1	–	–
Column percent										
1499 & less	1.0	10.0	1.4	1.1	0.8	0.9	1.1	1.8	2.0	–
1500-2499	5.2	10.0	6.0	5.4	4.7	4.9	5.9	7.8	10.0	33.3
2500-4499	92.2	80.0	91.8	92.7	92.8	92.4	91.0	88.5	86.0	66.7
4500 & over	1.5	–	0.8	0.8	1.6	1.7	1.9	1.9	2.0	–

– 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, 2014

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	16,349	20	2,061	5,617	4,395	2,655	1,255	329	17	–
Low birthweight										
Total low birthweight	1,190	4	160	412	291	188	108	25	2	–
499 & less	25	–	3	8	4	5	5	–	–	–
500-999	87	2	19	25	18	13	9	–	1	–
1000-1499	110	–	10	43	29	18	9	1	–	–
1500-1999	208	1	18	84	52	26	23	3	1	–
2000-2499	760	1	110	252	188	126	62	21	–	–
Birthweight greater than 2499 grams										
2500-2999	2,814	3	380	964	767	418	204	73	5	–
3000-3499	6,304	5	865	2,182	1,682	993	458	112	7	–
3500-3999	4,605	6	511	1,611	1,238	793	360	85	1	–
4000-4499	1,229	2	127	396	346	221	107	28	2	–
4500-4999	183	–	14	47	64	37	16	5	–	–
5000 & over	22	–	4	4	7	4	2	1	–	–
Unknown	2	–	–	1	–	1	–	–	–	–
Column percent										
1499 & less	1.4	10.0	1.6	1.4	1.2	1.4	1.8	0.3	5.9	–
1500-2499	5.9	10.0	6.2	6.0	5.5	5.7	6.8	7.3	5.9	–
2500-4499	91.5	80.0	91.4	91.8	91.8	91.4	90.0	90.6	88.2	–
4500 & over	1.2	–	0.9	0.9	1.6	1.5	1.4	1.8	–	–

– 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, 2014

Mother's race/ethnicity	Total births	Birthweight (grams)										5000 & over	Unk.
		499 & less	500-999	1000-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500-4999		
Total births	45,557	52	171	237	516	1,871	6,901	16,923	14,016	4,163	634	62	11
Non-Hispanic single mention race													
Total non-Hispanic ...	36,849	39	120	195	417	1,529	5,498	13,495	11,511	3,462	529	47	7
White	31,062	32	100	161	336	1,236	4,380	11,281	9,945	3,063	481	41	6
African American	948	2	5	9	23	54	204	358	215	67	10	1	-
American Indian	431	-	-	1	8	21	59	145	146	47	3	1	-
Asian	2,159	2	4	12	25	111	486	900	512	95	11	1	-
Hawaiian/Pacific Islander	304	-	2	2	4	12	54	112	95	20	2	1	-
Other/unknown	248	2	1	1	3	20	36	91	71	18	2	-	3
Multiple races	1,886	3	9	10	21	92	309	673	579	165	22	2	1
Hispanic single mention race													
Total Hispanic	8,519	11	50	41	96	325	1,373	3,363	2,453	688	103	15	1
White	6,237	7	39	33	54	229	1,023	2,465	1,792	509	75	10	1
African American	47	-	1	-	1	5	3	26	7	4	-	-	-
American Indian	125	-	1	-	5	8	16	41	37	14	-	3	-
Asian	32	-	-	-	-	5	5	8	12	2	-	-	-
Hawaiian/Pacific Islander	14	-	-	-	-	-	1	8	2	3	-	-	-
Other/unknown	1,818	4	6	7	31	71	281	715	539	136	26	2	-
Multiple races	246	-	3	1	5	7	44	100	64	20	2	-	-

- Quantity is zero.

TABLE 2-29. Race of mother and birthweight, Oregon residents, 2014 (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	45,557	52	171	237	516	1,871	6,901	16,923	14,016	4,163	634	62	11
Multiple mention race and ethnicity													
White	39,384	43	151	206	414	1,566	5,742	14,499	12,369	3,755	578	53	8
African American	1,446	2	7	11	34	92	293	543	354	95	14	1	-
American Indian	1,789	2	8	9	24	87	277	631	551	175	18	6	1
Asian	2,786	3	8	14	32	140	584	1,141	699	147	17	1	-
Hawaiian/Pacific Islander	496	-	4	2	6	19	85	176	155	44	4	1	-
Other	1,808	4	7	6	27	71	287	705	529	142	27	3	-
Unknown	361	1	-	1	6	16	49	145	115	21	4	-	3
Hispanic	8,519	11	50	41	96	325	1,373	3,363	2,453	688	103	15	1

- Quantity is zero.

TABLE 2-30. Low birthweight infants by county of residence, Oregon, 2014

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	45,557	2,847	460	2,387	62.5	10.1	52.4
Baker	166	13	—	13	78.3	—	78.3
Benton	737	30	5	25	§ 40.7	6.8	§ 33.9
Clackamas	4,092	253	33	220	61.8	8.1	53.8
Clatsop	409	26	5	21	63.6	12.2	51.3
Columbia	493	28	5	23	56.8	10.1	46.7
Coos	624	40	5	35	64.1	8.0	56.1
Crook	221	15	—	15	67.9	—	67.9
Curry	145	6	1	5	41.4	6.9	34.5
Deschutes	1,787	125	15	110	70.1	8.4	61.7
Douglas	1,104	73	10	63	66.1	9.1	57.1
Gilliam	18	6	—	6	§ 333.3	—	§ 333.3
Grant	62	3	—	3	48.4	—	48.4
Harney	88	6	1	5	68.2	11.4	56.8
Hood River	304	13	3	10	42.8	9.9	32.9
Jackson	2,298	159	21	138	69.2	9.1	60.1
Jefferson	281	26	3	23	92.5	10.7	81.9
Josephine	866	58	12	46	67.1	13.9	53.2
Klamath	792	64	11	53	80.8	13.9	66.9
Lake	82	10	1	9	122.0	12.2	109.8
Lane	3,682	263	32	231	71.4	8.7	§ 62.7
Lincoln	428	31	9	22	72.4	21.0	51.4
Linn	1,434	93	11	82	64.9	7.7	57.2
Malheur	393	21	5	16	53.4	12.7	40.7
Marion	4,397	242	55	187	§ 55.0	12.5	§ 42.5
Morrow	166	13	1	12	78.3	6.0	72.3
Multnomah	9,463	592	99	493	62.6	10.5	52.1
Polk	854	46	11	35	53.9	12.9	41.0
Sherman	19	—	—	—	—	—	—
Tillamook	257	10	3	7	38.9	11.7	27.2
Umatilla	1,032	55	10	45	53.3	9.7	43.6
Union	290	19	1	18	65.5	3.4	62.1
Wallowa	57	3	1	2	52.6	17.5	35.1
Wasco	307	23	5	18	74.9	16.3	58.6
Washington	7,054	419	75	344	59.4	10.6	48.8
Wheeler	10	*	*	*	*	*	*
Yamhill	1,145	62	11	51	54.1	9.6	44.5

— Quantity is zero.

¹ All rates are per 1,000 births.

§ Rate is significantly different from the state rate.

* Detailed reporting of small numbers may breach confidentiality.

WARNING: Rates based on less than 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, 2014

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	45,557	839	2,360	6,569	12,410	11,971	10,380	1,028
White	31,062	550	1,418	4,051	8,272	8,639	7,622	510
African American	948	31	81	156	249	201	189	41
American Indian	431	11	32	56	100	101	128	3
Asian	2,159	8	70	345	721	604	322	89
Hawaiian/Pacific Islander	304	4	25	51	62	68	79	15
Other/unknown	248	3	11	39	62	54	54	25
Multiple races	1,886	36	96	260	481	484	493	36
Hispanic	8,519	196	627	1,611	2,463	1,820	1,493	309
Under 37 weeks								
Total births	3,506	101	279	666	901	723	697	139
White	2,366	63	168	411	612	532	506	74
African American	98	6	18	17	23	13	15	6
American Indian	34	—	—	8	9	6	10	1
Asian	154	—	8	36	38	33	27	12
Hawaiian/Pacific Islander	34	1	6	7	10	5	4	1
Other/unknown	26	3	2	5	7	1	6	2
Multiple races	144	8	12	30	43	23	24	4
Hispanic	650	20	65	152	159	110	105	39
37 - 40 weeks								
Total births	36,542	682	1,883	5,342	10,166	9,627	8,084	758
White	24,664	445	1,130	3,255	6,710	6,877	5,884	363
African American	732	24	54	118	202	159	147	28
American Indian	356	11	24	45	81	87	106	2
Asian	1,806	6	59	285	624	512	252	68
Hawaiian/Pacific Islander	241	3	19	42	41	58	67	11
Other/unknown	188	—	7	29	48	47	41	16
Multiple races	1,530	26	77	211	389	392	409	26
Hispanic	7,025	167	513	1,357	2,071	1,495	1,178	244
41 weeks and over								
Total births	5,479	54	197	560	1,336	1,618	1,596	118
White	4,016	41	120	384	946	1,227	1,230	68
African American	118	1	9	21	24	29	27	7
American Indian	40	—	7	3	10	8	12	—
Asian	199	2	3	24	59	59	43	9
Hawaiian/Pacific Islander	28	—	—	2	11	5	8	2
Other/unknown	30	—	2	5	6	6	7	4
Multiple races	209	1	7	19	49	69	60	4
Hispanic	839	9	49	102	231	215	209	24

— 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, 2014

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	11.2	10.0	8.9	5.9	4.7	5.0	12.0
White	6.0	10.4	9.9	8.5	5.9	4.4	5.1	12.8
African American	9.8	22.6	13.6	10.9	6.8	10.0	8.5	12.2
American Indian	7.0	18.2	3.1	10.7	7.0	5.0	6.2	33.3
Asian	7.1	12.5	10.0	11.0	5.1	7.1	5.3	12.4
Hawaiian/Pacific Islander	6.6	25.0	12.0	11.8	6.5	5.9	1.3	6.7
Other/unknown	11.0	100.0	18.2	15.4	12.9	—	9.3	13.6
Multiple races	7.2	13.9	9.4	13.5	7.1	4.8	4.9	14.3
Hispanic	6.1	9.2	10.1	8.3	5.3	4.7	4.1	10.4
Under 37 weeks								
Total births	56.0	65.3	62.2	60.8	53.4	52.9	50.1	75.5
White	55.2	57.1	64.9	57.6	54.4	51.0	52.0	75.7
African American	63.3	100.0	55.6	82.4	43.5	76.9	53.3	66.7
American Indian	55.9	—	—	37.5	66.7	33.3	70.0	100.0
Asian	59.1	—	75.0	72.2	42.1	63.6	48.1	75.0
Hawaiian/Pacific Islander	44.1	100.0	33.3	57.1	30.0	60.0	25.0	100.0
Other/unknown	73.1	100.0	50.0	80.0	71.4	—	66.7	100.0
Multiple races	59.7	62.5	50.0	73.3	51.2	65.2	50.0	100.0
Hispanic	56.1	75.0	60.9	62.5	54.1	54.5	39.0	71.8
37 - 40 weeks								
Total births	2.4	4.1	3.3	3.4	2.4	1.9	2.1	2.2
White	2.2	4.7	2.7	3.3	2.3	1.6	2.1	2.2
African American	4.1	4.2	1.9	2.5	3.0	6.3	5.4	3.6
American Indian	3.1	18.2	4.2	6.7	1.2	3.4	0.9	—
Asian	3.5	16.7	1.7	4.2	3.4	4.3	1.6	2.9
Hawaiian/Pacific Islander	2.1	—	5.3	4.8	2.4	1.7	—	—
Other/unknown	4.3	—	14.3	6.9	6.2	—	2.4	6.2
Multiple races	3.1	—	3.9	6.2	3.1	2.0	2.7	3.8
Hispanic	2.2	1.8	4.5	2.8	2.2	1.7	1.6	1.6
41 weeks and over								
Total births	0.2	—	0.5	0.4	0.3	0.1	0.2	—
White	0.2	—	—	0.5	0.3	0.1	0.1	—
African American	0.8	—	—	—	4.2	—	—	—
American Indian	—	—	—	—	—	—	—	—
Asian	—	—	—	—	—	—	—	—
Hawaiian/Pacific Islander	—	—	—	—	—	—	—	—
Other/unknown	—	—	—	—	—	—	—	—
Multiple races	0.5	—	—	—	—	—	1.7	—
Hispanic	0.2	—	2.0	—	—	—	0.5	—

— 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, 2014

Conditions of newborn	Total births	Mother's age								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total births	45,557	20	2,392	9,264	13,167	12,996	6,275	1,340	100	3
Immediate ventilation	2,413	2	143	493	687	670	321	86	10	1
Ventilator > 6 hrs.	913	–	49	187	245	258	132	34	7	1
Admission to NICU	3,200	2	168	633	873	904	480	119	19	2
Surfactant therapy	152	–	10	32	49	38	19	4	–	–
Antibiotics	1,412	–	110	322	403	372	160	40	5	–
Seizures	28	–	1	7	8	7	5	–	–	–
No condition noted	40,785	16	2,109	8,275	11,812	11,702	5,611	1,180	79	1

– 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, 2014

Conditions of newborn	Total births	White	African American	American Indian	Asian	Hawaiian/Pacific Islander	Other/NS ¹	Hispanic ²
Single mention race								
Total births	45,557	31,062	948	431	2,159	304	2,134	8,519
Immediate ventilation	2,413	1,721	65	25	82	14	131	375
Ventilator > 6 hrs.	913	652	17	6	29	5	44	160
Admission to NICU	3,200	2,221	93	26	139	26	168	527
Surfactant therapy	152	110	3	–	4	1	8	26
Antibiotics	1,412	918	28	10	64	8	75	309
Seizures	28	22	–	–	–	1	–	5
No condition noted	40,785	27,766	816	387	1,959	266	1,878	7,713
Multiple mention race								
Immediate ventilation	2,413	2,118	103	112	119	25	96	375
Ventilator > 6 hrs.	913	808	31	37	39	10	42	160
Admission to NICU	3,200	2,752	149	141	183	42	130	527
Surfactant therapy	152	136	4	8	5	2	7	26
Antibiotics	1,412	1,220	51	60	90	16	78	309
Seizures	28	26	–	–	–	1	1	5
No condition noted	40,785	35,271	1,239	1,574	2,512	435	1,959	7,713

– 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, 2014

Reported congenital anomaly	All ages ¹	Age of mother					
		<20	20-24	25-29	30-34	35-39	40+
Total births	45,557	2,412	9,264	13,167	12,996	6,275	1,440
No congenital anomaly reported	45,250	2,397	9,199	13,067	12,934	6,229	1,421
Anencephalus	2	—	2	—	—	—	—
Spina bifida	10	—	1	4	5	—	—
Heart disease	65	4	15	18	12	14	2
Hypospadias	48	1	7	23	12	4	1
Hernia	16	—	4	7	4	1	—
Omphalocele	8	1	2	3	—	1	1
Gastroschisis	27	5	14	6	1	1	—
Limb reduction defect	11	—	3	4	2	2	—
Cleft lip	35	2	8	9	9	5	2
Cleft palate alone	14	1	2	6	4	1	—
Down syndrome (confirmed)	17	—	2	4	2	6	3
Down syndrome (suspected)	22	1	1	6	3	6	5
Chromosomal disorder (confirmed)	9	—	—	3	—	5	1
Chromosomal disorder (suspected)	39	—	9	10	8	7	5

— 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, 2014

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	46,100	44,222	32,893	3,113	8,059	149	8
Baker	139	122	122	—	—	—	—
Benton	1,069	1,032	593	32	402	5	—
Clackamas	4,510	4,390	2,614	150	1,622	3	1
Clatsop	431	420	346	5	63	4	2
Columbia	18	—	—	—	—	—	—
Coos	691	686	353	134	197	2	—
Crook	5	—	—	—	—	—	—
Curry	32	19	11	—	8	—	—
Deschutes	2,189	2,133	1,759	249	118	7	—
Douglas	941	916	691	—	225	—	—
Gilliam	—	—	—	—	—	—	—
Grant	64	48	38	10	—	—	—
Harney	58	58	39	19	—	—	—
Hood River	470	464	405	9	50	—	—
Jackson	2,513	2,382	1,656	423	292	11	—
Jefferson	180	175	173	—	—	2	—
Josephine	809	775	639	129	—	7	—
Klamath	822	807	807	—	—	—	—
Lake	62	62	50	12	—	—	—
Lane	3,943	3,674	3,324	18	310	20	2
Lincoln	367	345	257	58	30	—	—
Linn	958	871	771	94	1	4	1
Malheur	506	504	122	249	132	—	1
Marion	5,057	4,940	3,947	356	596	41	—
Morrow	—	—	—	—	—	—	—
Multnomah	10,938	10,415	7,676	711	1,999	29	—
Polk	40	—	—	—	—	—	—
Sherman	1	—	—	—	—	—	—
Tillamook	191	185	184	—	—	1	—
Umatilla	807	785	780	2	—	3	—
Union	259	240	117	123	—	—	—
Wallowa	52	49	49	—	—	—	—
Wasco	291	285	150	78	53	4	—
Washington	6,522	6,342	4,449	251	1,638	3	1
Wheeler	—	—	—	—	—	—	—
Yamhill	1,165	1,098	771	1	323	3	—

— 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, 2014 (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	1,878	1	397	271	910	134	3	162
Baker	17	—	—	—	9	6	—	2
Benton	37	—	—	—	31	3	—	3
Clackamas	120	—	12	21	44	29	—	14
Clatsop	11	—	—	—	9	1	—	1
Columbia	18	—	—	4	3	3	—	8
Coos	5	—	1	—	—	4	—	—
Crook	5	—	—	—	3	—	—	2
Curry	13	—	9	—	—	3	—	1
Deschutes	56	—	—	—	48	1	—	7
Douglas	25	—	1	—	4	14	—	6
Gilliam	—	—	—	—	—	—	—	—
Grant	16	—	—	—	16	—	—	—
Harney	—	—	—	—	—	—	—	—
Hood River	6	—	—	—	1	3	—	2
Jackson	131	—	—	31	82	6	—	12
Jefferson	5	—	—	—	3	—	—	2
Josephine	34	—	—	2	25	4	—	3
Klamath	15	—	9	—	1	—	1	4
Lake	—	—	—	—	—	—	—	—
Lane	269	—	150	—	89	17	—	13
Lincoln	22	—	—	—	19	1	—	2
Linn	87	—	—	—	77	6	—	4
Malheur	2	—	—	—	—	1	—	1
Marion	117	—	38	11	42	11	—	15
Morrow	—	—	—	—	—	—	—	—
Multnomah	523	—	107	137	246	4	2	27
Polk	40	—	19	1	17	1	—	2
Sherman	1	—	—	—	1	—	—	—
Tillamook	6	—	—	—	6	—	—	—
Umatilla	22	—	1	—	10	4	—	7
Union	19	—	—	—	11	8	—	—
Wallowa	3	—	—	—	1	—	—	2
Wasco	6	—	—	1	4	1	—	—
Washington	180	—	14	63	80	3	—	20
Wheeler	—	—	—	—	—	—	—	—
Yamhill	67	1	36	—	28	—	—	2

— Quantity is zero.

M.D. = Medical doctor

D.O. = Doctor of osteopathy

C.N.M. = Certified nurse midwife

N.D. = Naturopathic doctor

L.D.M. = Licensed direct entry midwife

TABLE 2-37. Delivery method by day of birth, mother's age, race/ethnicity, and payment source (percents), Oregon resident births, 2014

Characteristics	Total births	Vaginal	Vaginal after previous C-section	Primary C-section	Repeat C-section
Day of birth					
All births ¹	45,557	31,934	1,120	7,378	5,121
Sunday	5,028	77.1	2.7	13.8	6.4
Monday	6,619	66.6	2.5	16.4	14.4
Tuesday	7,199	66.3	2.6	17.6	13.5
Wednesday	7,174	69.7	2.3	16.5	11.5
Thursday	6,898	70.1	2.3	16.5	11.1
Friday	7,024	67.4	2.2	16.9	13.4
Saturday	5,615	76.5	2.7	14.7	6.1
Mother's age					
<15	20	95.0	-	5.0	-
15-19	2,392	82.4	0.3	16.1	1.3
20-24	9,264	76.9	1.4	14.3	7.4
25-29	13,167	71.6	2.3	14.9	11.2
30-34	12,996	67.7	2.9	16.7	12.7
35-39	6,275	61.2	3.8	19.0	16.0
40-44	1,340	53.4	3.7	23.4	19.6
45+	100	42.0	4.0	26.0	28.0
N.S.	3	66.7	-	-	-
Single mention race/ethnicity					
White	31,062	70.6	2.2	16.7	10.5
African American	948	61.1	3.6	19.6	15.7
American Indian	431	70.5	1.6	13.5	14.4
Asian	2,159	66.1	3.2	18.4	12.2
Hawaiian/Pacific Islander	304	58.9	3.9	17.1	20.1
Other/unknown	248	69.0	2.0	14.9	12.9
Multiple races	1,886	71.3	2.1	16.6	10.0
Hispanic	8,519	70.4	3.0	13.7	12.9
Payment source					
Medicaid/OHP*	20,348	70.5	2.5	14.3	12.6
Private insurance	23,722	69.1	2.3	18.3	10.3
Self-pay	865	84.2	4.6	4.9	6.4
Other coverage	551	73.1	3.6	14.7	8.5
Unknown mention	71	67.6	2.8	18.3	5.6
Body mass index in kg/m					
Underweight (< 18.5)	1,457	81.3	1.2	11.0	6.5
Normal (18.5 - 24.9)	21,266	75.1	2.4	14.6	7.9
Overweight (25.0 - 29.9)	11,112	68.9	2.8	16.1	12.2
Obese (> 30.0)	10,834	60.0	2.5	20.2	17.3
Unknown	888	68.6	2.8	15.1	13.1

- Quantity is zero.
 * Oregon Health Plan.
 1 Delivery method is unknown for four births.

Table 2-38: Planned attendant by planned place of birth, Oregon occurrence, 2014

Planned birth attendant ¹	Total births ²	Planned hospital birth	Planned out-of-hospital birth		
			Total	Intrapartum transfer to hospital	Neonatal transfer
Total births	46,100	43,899	2,076	323	43
All gestation periods³					
Total	46,100	43,899	2,076	323	43
M.D.s and D.O.s	35,803	35,802	—	—	—
Certified nurse midwives	8,504	7,942	553	165	13
Licensed direct-entry midwives	997	—	988	87	23
Unlicensed direct-entry midwives	187	—	187	53	1
Naturopathic physicians	289	—	288	18	5
Other	320	155	60	—	1
Under 37 weeks					
Total	3,563	3,505	37	19	1
M.D.s and D.O.s	3,266	3,266	—	—	—
Certified nurse midwives	234	223	11	8	—
Licensed direct-entry midwives	14	—	14	5	—
Unlicensed direct-entry midwives	5	—	5	3	1
Naturopathic physicians	4	—	4	3	—
Other	40	16	3	—	—
37-38 weeks					
Total	9,634	9,374	231	50	5
M.D.s and D.O.s	7,862	7,861	—	—	—
Certified nurse midwives	1,548	1,477	70	23	1
Licensed direct-entry midwives	92	—	91	12	3
Unlicensed direct-entry midwives	24	—	24	13	—
Naturopathic physicians	43	—	43	2	1
Other	65	36	3	—	—
39-40 weeks					
Total	27,318	25,938	1,319	154	23
M.D.s and D.O.s	20,950	20,950	—	—	—
Certified nurse midwives	5,266	4,902	356	87	8
Licensed direct-entry midwives	666	—	660	34	12
Unlicensed direct-entry midwives	104	—	104	25	—
Naturopathic physicians	165	—	165	8	3
Other	167	86	34	—	—
41 weeks and over					
Total	5,557	5,065	484	99	12
M.D.s and D.O.s	3,709	3,709	—	—	—
Certified nurse midwives	1,455	1,339	116	47	4
Licensed direct-entry midwives	223	—	221	36	7
Unlicensed direct-entry midwives	53	—	53	11	—
Naturopathic physicians	77	—	76	5	1
Other	40	17	18	—	—

— 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 125 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, 2014

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	46,100	3,505	35,312	5,065	37	1,550	484
Mother's age							
<20	2,452	203	1,909	300	2	27	3
20-24	9,359	732	7,256	1,077	3	197	67
25-29	13,318	916	10,208	1,551	5	470	125
30-34	13,141	932	9,957	1,500	14	519	176
35-39	6,372	549	4,859	559	11	282	94
40+	1,455	173	1,123	78	2	54	19
Single mention race²							
White	31,494	2,365	23,619	3,653	30	1,307	419
African American	965	101	726	115	—	14	6
American Indian	446	38	354	40	—	11	2
Asian/Hawaiian/Pacific Islander	2,474	184	2,016	221	2	40	8
Other/multiple races	2,144	166	1,646	215	3	75	25
Hispanic	8,577	651	6,951	821	2	103	24
Marital status							
Married	29,532	2,096	22,431	3,255	26	1,269	389
Unmarried	16,559	1,409	12,877	1,809	11	281	95
Mother's education							
8th grade or less	1,498	122	1,216	143	—	11	1
Some high school	5,129	464	4,064	500	2	55	18
High school graduate/GED	10,259	815	8,029	996	10	280	95
Some college	11,566	907	8,858	1,224	8	416	117
Associate's degree	3,685	282	2,875	384	1	100	33
Bachelor's degree	8,613	545	6,297	1,147	8	460	141
Postbaccalaureate	5,107	341	3,805	648	8	217	77
Source of payment							
Medicaid/Oregon Health Plan	20,558	1,608	16,183	2,160	10	400	125
Private insurance	24,037	1,804	18,431	2,801	19	704	228
Self-pay	899	50	254	37	6	418	120
Other coverage	540	39	404	63	1	17	11
Birth order							
1st	18,136	1,297	13,006	3,005	16	564	213
2nd	14,941	1,015	12,054	1,155	8	505	144
3rd	7,490	629	5,977	538	6	255	63
4th +	5,533	564	4,275	367	7	226	64
Pre-pregnancy body mass index							
Underweight (< 18.5)	1,472	109	1,145	134	1	54	21
Normal (18.5 - 24.9)	21,611	1,550	16,234	2,487	22	968	287
Overweight (25.0 - 29.9)	11,221	786	8,698	1,275	11	326	92
Obese (> 30.0)	10,921	941	8,623	1,080	3	176	72
Maternal tobacco use							
Tobacco use	4,779	520	3,697	466	—	42	13
No tobacco use	41,170	2,972	31,515	4,577	37	1,502	470
Initiation of care							
1st trimester	35,431	2,722	27,590	3,719	23	1,009	298
2nd trimester	8,162	554	6,008	1,027	11	399	133
3rd trimester	1,836	104	1,325	273	2	93	33
No care	338	78	160	16	1	35	16
Prenatal care³							
Adequate	42,566	3,052	32,899	4,678	30	1,392	427
Inadequate	2,722	375	1,794	307	7	140	50

— Quantity is zero.

¹ Total includes 125 births that occurred en route, were unplanned home deliveries, or other out-of-hospital births not otherwise classified. Total also includes 28 births with unknown gestation.

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, 2014

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	46,100	3,505	35,312	5,065	37	1,550	484
Characteristics of labor and delivery							
Premature rupture of the membrane ²	3,102	606	1,949	395	11	111	26
Precipitous labor ³	2,444	218	1,767	217	4	148	29
Prolonged labor ⁴	1,443	72	927	283	1	96	61
Induction/augmentation of labor	20,915	1,068	16,209	3,427	8	121	74
Epidural/spinal anesthesia	27,154	1,788	21,674	3,495	9	120	60
Antepartum/intrapartum transfer	873	426	102	22	19	204	99
Chorioamnionitis	1,063	91	724	236	1	5	5
Neonatal transfer	570	227	252	38	1	28	12
Method of delivery							
Vaginal	31,069	1,681	23,791	3,612	26	1,415	413
Forceps	228	9	168	38	—	6	7
Vacuum	1,052	38	825	176	—	10	2
VBAC ⁵	1,109	93	808	114	1	63	22
Primary cesarean	7,480	1,184	5,208	997	9	46	33
Repeat cesarean	5,160	500	4,512	128	1	10	7
Maternal conditions							
Multiples	1,648	894	739	—	—	11	—
Diabetes-chronic	451	113	333	5	—	—	—
Diabetes-gestational	3,540	408	2,981	122	3	18	6
Hypertension-chronic	808	162	614	20	3	3	2
Hypertension-gestational	2,952	595	2,190	130	—	28	7
Eclampsia	333	101	212	15	1	4	—
Group B streptococcal test	43,550	2,762	34,360	4,993	24	1,014	308
Maternal transfusion	236	54	151	25	—	5	—
3 rd or 4 th degree perineal laceration	497	12	355	105	—	14	10
Ruptured uterus	12	3	6	2	—	1	—
Unplanned hysterectomy	30	10	19	1	—	—	—
Admission to intensive care	91	33	52	4	—	1	—
Unplanned operating room procedure	277	39	190	34	—	13	1
Characteristics of infant							
Immediate assisted ventilation	2,485	869	1,267	257	5	49	29
Assisted ventilation 6+ hours	934	620	263	38	1	5	3
Admission to NICU	3,265	1,829	1,187	177	11	24	14
Surfactant therapy	156	139	12	2	—	1	—
Antibiotics	1,434	523	689	189	3	16	10
Seizure	27	2	18	5	—	—	1

— Quantity is zero.
¹ Total includes 125 births that were unplanned home deliveries, occurred en route, or were out-of-hospital births not otherwise classified. Total also includes 28 births with unknown gestation.
² Rupture of the membranes ≥12 hours.
³ Precipitous labor < 3 hours.
⁴ Prolonged labor ≥20 hours.
⁵ Vaginal birth after a cesarean section.

SECTION 3: INDUCED TERMINATION OF PREGNANCY

Induced termination of pregnancy

Current trends

During 2014, 8,231 induced terminations of pregnancy occurred in Oregon. This total represents an 0.7% decrease from 2013, and a decrease of 47.7% 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 abortions in Oregon obtained by out-of-state residents has been between 9.4% and 12.6% from 1994 to the present. In 2014, 781 patients (9.5%) 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 13.9 per 1,000 in 2011, the most recent data available.¹ In 2014, the Oregon rate decreased to 10.3 per 1,000 women

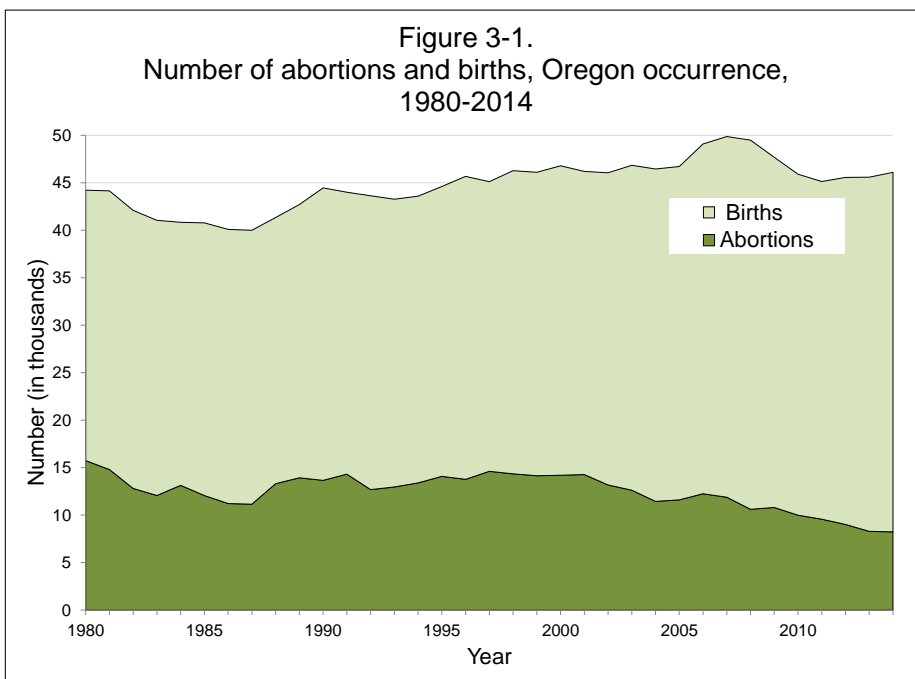


Table 3-A. Comparison of Oregon and U.S. abortion ratios, 1980-2011		
Year	U.S. abortion ratio ¹	Oregon's abortion ratio ² as percent difference from U.S.
1980	359	-1%
1981	**	**
1982	354	-14%
1983	**	**
1984	364	-12%
1985	354	-16%
1986	354	-21%
1987	356	-21%
1988	352	-9%
1989	346	-6%
1990	344	-11%
1991	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	+4%
2005	233 ⁶	+7%
2006	236 ⁷	+6%
2007	231 ⁷	+4%
2008	234 ⁷	-8%
2009	227 ⁸	0%
2010	228 ⁷	-5%
2011	*219 ⁹	-3%

¹ CDC. Abortion Surveillance - United States, 2011, MMWR, Nov. 28, 2014; Vol. 63, No. 11.

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

⁹ Alaska, California, Delaware, Louisiana, Maryland, New Hampshire, and West Virginia did not report

* Most recent data available

** Data not available

aged 15–44, a 2.8% decrease from 2013, and a 59.0% 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 20.4 in 1995 to a low in 2014 of 10.3 per 1,000 women.

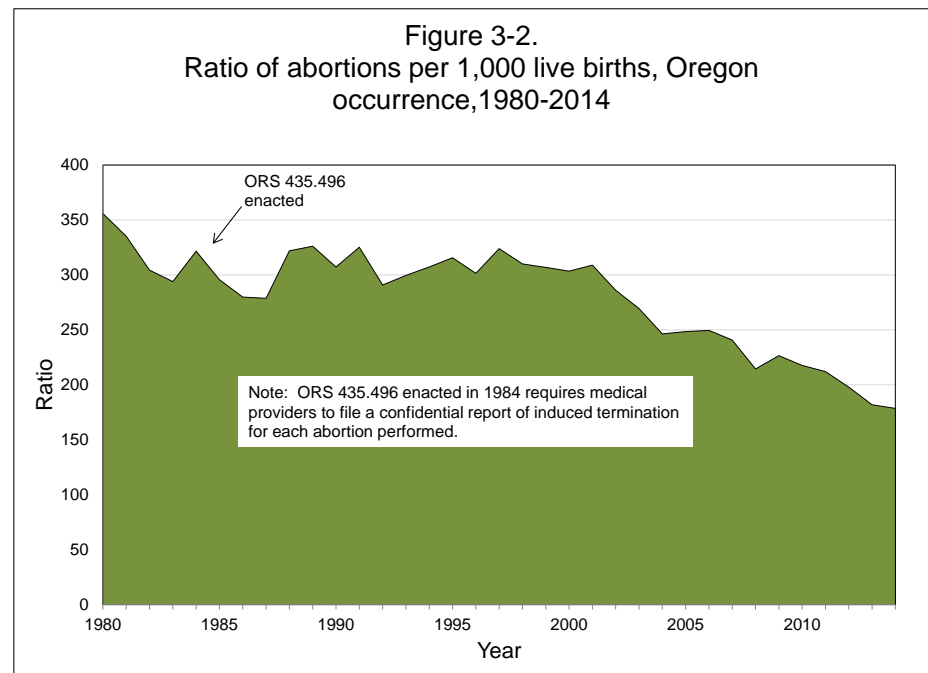
Pregnancy outcomes

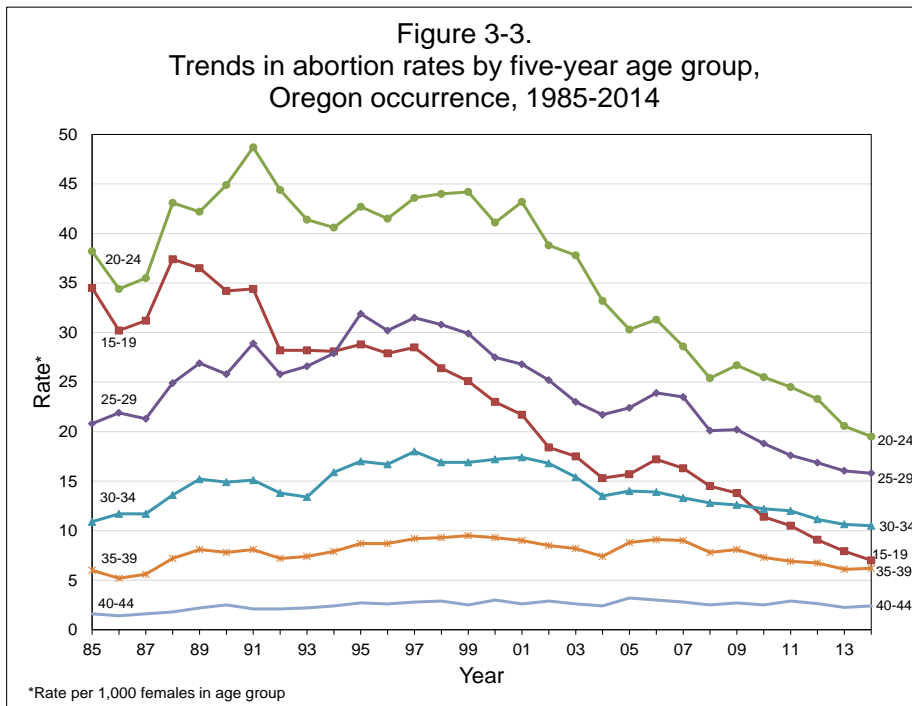
Figure 3-2 shows the ratio of abortions to births occurring in Oregon. It indicates the prevalence of unwanted pregnancies that occurred in the state. Both the highest abortion rate (number of abortions per 1,000 female population) and the highest ratio of abortions (number of abortions per 1,000 births) 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 2014, there were 178.5 abortions per 1,000 occurrence births. This represents a 1.8% decrease from 2013 and a 49.8% 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

Figure 3-2.
Ratio of abortions per 1,000 live births, Oregon occurrence, 1980-2014





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. Almost 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

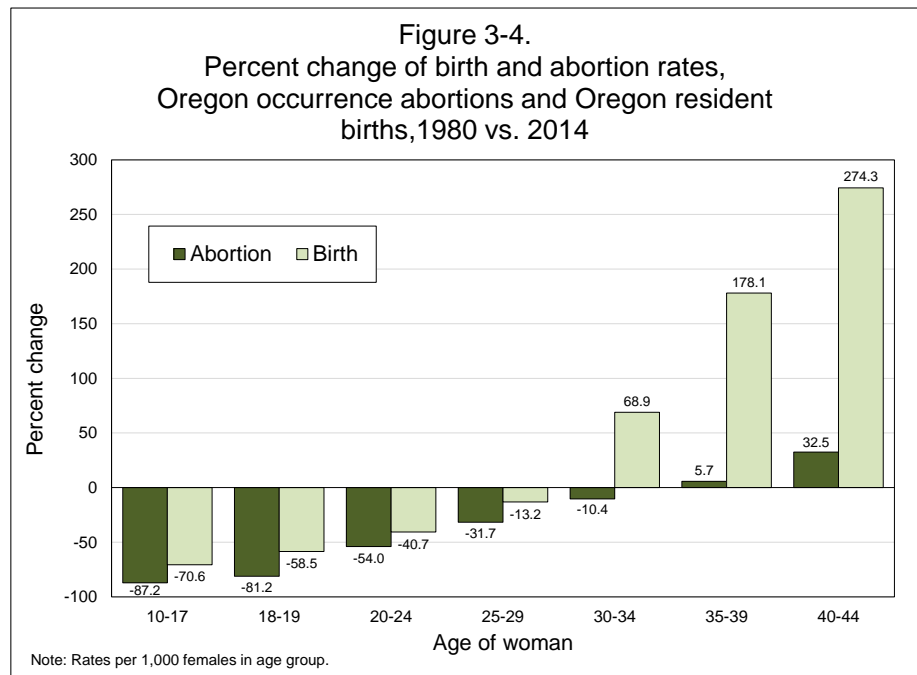
There is wide variation in abortion rates among age groups. The highest rate in 2014 occurred among women aged 20–24 (19.5 per 1,000). The lowest rates were among women under age 15 (0.1 per 1,000) and women 45–49 (0.2 per 1,000; see sidebar Table 3-B).

The 2014 abortion rate among teens aged 10–17 was 87.2% lower than the rate in 1980, when the statewide abortion rate was highest; the rate for 18–19-year-olds was 81.2% lower (see Figure 3-4). The absence of a corresponding increase in the birth rates among teens suggests success in avoiding unwanted pregnancy, rather than an increase

Age	Rate ²	%
<15	0.1	0.3
15-19	7.0	10.8
20-24	19.5	30.5
25-29	15.8	26.6
30-34	10.5	17.4
35-39	6.2	10.2
40-44	2.4	3.8
45-49	0.2	0.4
15-44	10.3	99.4

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

² Per 1,000 females in age group

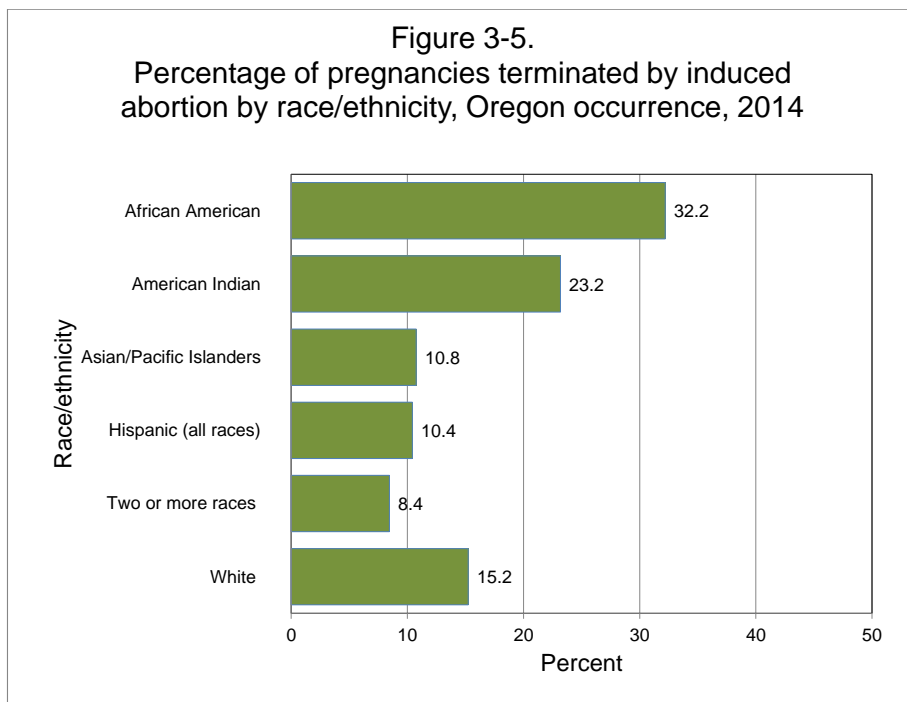


in decisions to carry unwanted pregnancies to term. In contrast, among women age 35–39, abortion rates were only 5.7% higher in 2014 than in 1980.

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 2014 with 32.2% and 23.2%, respectively. Because of Oregon's predominately White demographic composition, White women obtained the majority of abortions by count in 2014; however, they had the third highest percentage of terminations overall, 52.8% lower than African American women. The lowest percentage of terminated pregnancies was for women of two or more races (8.4%) followed by women of Hispanic ethnicity (10.4%) (see Figure 3-5).

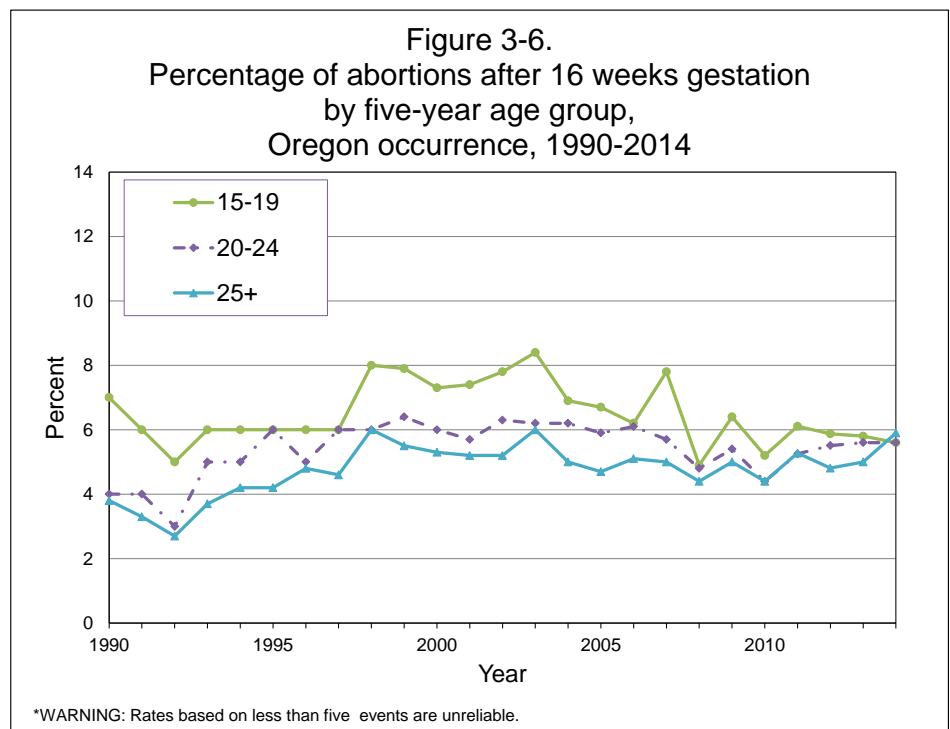


Contraceptive use

In the majority of abortions that occur in Oregon, the pregnancy is not a result of contraceptive failure. In 2014, based upon data obtained from abortion reports, 27.9% of women who had abortions used some method of contraception. Of the 72.1% of abortion patients that did not report using contraceptives, 39.1% 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 (5.7%) induced terminations where gestation was known were performed after 16 weeks. Suction curettage was the procedure used in 45.0% of terminations prior to the 13th week where method was reported. Dilation and evacuation was the procedure in 89.5% of terminations occurring after 16 weeks gestation. Women younger than 20 obtained 4.0% fewer 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 women age 25 and older (see Figure 3-6).



Complications at the time of the induced termination procedure were reported for 246 terminations (3.0% of abortion patients). Retained products (48 patients) and failure of first method (19 patients) were the most common complications. In Oregon, no woman has died as the result of a legally induced termination.

Geographic distribution

Abortion rates varied widely within Oregon with 35 of 36 counties reporting at least one resident that obtained an abortion in 2014. Service providers, conversely, were geographically concentrated. In 2014, abortions were reported in nine counties. The concentration was evident in the fact that 94.8% 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. MMWR. 2011
Nov. 28; 63(11):11.

TABLE 3-1. Number, rate, and percent change for pregnancies, births, and abortions to 15- to 44-year-olds, Oregon, selected years 1980-1990, 1995-2014

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
2014	53,390	68.9	-0.4	45,434	58.6	0.0	7,956	10.3	-2.8	14.9	-2.6

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

² Oregon residents (includes 15-44 year-old females only).

³ Oregon occurrence (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, 1980-2014

Year	Births	Induced abortions	
		Number	Ratio
1970	36,031	7,187	199.5
1975	34,312	10,641	310.1
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
2014	46,100	8,231	178.5

* 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, 2014

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	8,231	22	864	2,445	2,128	1,396	818	305	29	224
White	6,522	18	671	1,909	1,717	1,117	661	244	20	165
African American	586	–	75	199	169	95	32	7	–	9
American Indian	248	1	35	98	59	26	17	5	–	7
Chinese	78	–	4	20	11	16	16	3	4	4
Japanese	20	–	2	4	7	1	2	2	–	2
Hawaiian	23	–	2	4	8	3	4	–	–	2
Filipino	29	–	3	11	4	7	3	–	1	–
Other Asian/Pacific Islander ...	195	–	11	66	41	37	20	14	1	5
Other non-white	244	–	36	79	53	24	25	9	2	16
Unknown	279	2	41	84	60	35	27	13	–	17
Hispanic	992	7	154	327	228	120	91	30	3	32
White	644	4	96	212	152	80	64	15	2	19
African American	28	–	5	14	7	–	1	1	–	–
American Indian	46	–	6	19	9	6	2	3	–	1
Chinese	2	–	–	–	–	2	–	–	–	–
Japanese	1	–	–	–	1	–	–	–	–	–
Hawaiian	–	–	–	–	–	–	–	–	–	–
Filipino	2	–	–	1	–	1	–	–	–	–
Other Asian/Pacific Islander	3	–	2	–	1	–	–	–	–	–
Other non-white	117	–	18	38	26	7	13	5	–	10
Unknown	150	2	28	50	28	20	12	7	–	3
Non-Hispanic	6,988	14	680	2,052	1,841	1,231	704	269	26	171
White	5,744	13	556	1,666	1,528	1,009	587	226	18	141
African American	544	–	69	181	158	90	31	6	–	9
American Indian	189	1	28	74	47	19	14	1	–	5
Chinese	74	–	4	20	11	13	15	3	4	4
Japanese	19	–	2	4	6	1	2	2	–	2
Hawaiian	23	–	2	4	8	3	4	–	–	2
Filipino	27	–	3	10	4	6	3	–	1	–
Other Asian/Pacific Islander	187	–	9	64	40	36	19	14	1	4
Other non-white	92	–	15	26	23	11	8	2	2	5
Unknown	79	–	7	25	20	10	10	5	–	2
Ethnicity unknown	251	1	30	66	59	45	23	6	0	21
Marital status										
Never married	5,250	20	722	1,901	1,413	710	302	70	3	109
Now married	1,085	–	11	142	257	312	217	113	13	20
Widowed	30	–	–	1	4	8	9	7	–	1
Divorced	472	–	2	28	107	123	129	64	8	11
Separated	206	–	1	30	51	68	41	9	1	5
Unknown	1,188	2	128	343	296	175	120	42	4	78

– Quantity is zero.

NOTE: Subsets may not add to the category totals due to persons reporting multiple races.

N.S. = Not stated.

TABLE 3-4. Abortions in relation to length of gestation by method, complications, and age of patient, Oregon occurrence, 2014

Method, complications and age of patient	Total	Weeks gestation						
		< 9	9-12	13-16	17-20	21-22	23+	Unk.
Total	8,231	5,213	1,746	538	310	99	47	278
Suction curette	3,456	1,861	1,262	213	7	4	1	108
Medical (non-surgical)	2,434	2,241	71	13	6	6	6	91
Dilation & evacuation	2,288	1,088	409	308	285	87	35	76
Intra-uterine instillation	6	1	1	–	1	1	1	1
Vaginal prostaglandin	10	–	–	–	6	1	2	1
Sharp curettage	3	1	1	–	1	–	–	–
Other	12	4	–	3	3	–	2	–
Unknown	22	17	2	1	1	–	–	1
Complications								
None	7,983	4,999	1,727	532	307	99	47	272
Hemorrhage	3	1	–	1	1	–	–	–
Infection	10	6	3	1	–	–	–	–
Uterine perforation	1	1	–	–	–	–	–	–
Retained products	48	36	7	2	2	–	–	1
Failure of first method	19	18	1	–	–	–	–	–
Other	133	120	8	2	–	–	–	3
Multiple complications ¹	32	30	–	–	–	–	–	2
Unknown	2	2	–	–	–	–	–	–
Age groups								
< 15	22	12	7	2	1	–	–	–
15-19	864	495	228	69	30	7	10	25
20-24	2,445	1,495	582	168	96	26	10	68
25-29	2,128	1,389	416	132	76	31	14	70
30-34	1,396	902	269	87	60	13	8	57
35-39	818	562	137	46	31	13	4	25
40-44	305	211	47	19	11	5	–	12
45+	29	21	3	–	1	1	–	3
N.S.	224	126	57	15	4	3	1	18

– Quantity is zero.

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

N.S. = Not stated.

TABLE 3-5. Contraceptive use, number of previous abortions, and number of living children by age of patient, Oregon occurrence, 2014

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	8,231	22	864	2,445	2,128	1,396	818	305	29	224
None used	5,868	17	666	1,759	1,497	947	573	215	22	172
No previous abortion	3,466	17	561	1,163	796	457	256	102	13	101
One	1,281	—	66	385	362	226	152	49	5	36
Two	549	—	9	110	167	129	84	34	2	14
Three	208	—	2	37	68	56	30	10	—	5
Four or more	187	—	—	20	67	56	29	12	—	3
Pills used	734	2	83	243	203	113	53	16	1	20
No previous abortion	395	2	68	143	89	54	21	7	—	11
One	191	—	8	67	66	25	14	4	1	6
Two	79	—	2	19	24	21	8	3	—	2
Three	21	—	—	2	9	5	5	—	—	—
Four or more	19	—	—	3	8	5	2	1	—	—
Condoms used	1,064	3	86	305	270	214	122	43	3	18
No previous abortion	567	3	73	181	136	91	52	20	1	10
One	298	—	10	87	79	69	39	11	1	2
Two	98	—	—	18	28	28	14	6	1	3
Three	29	—	—	6	6	10	5	1	—	1
Four or more	37	—	—	4	11	9	8	4	—	1
Other contraceptive	630	—	38	159	170	136	78	31	3	15
No previous abortion	326	—	33	92	87	54	36	13	2	9
One	163	—	3	40	47	38	22	7	1	5
Two	62	—	1	14	13	19	12	3	—	—
Three	35	—	1	5	14	7	3	5	—	—
Four or more	26	—	—	2	6	13	2	3	—	—
Contraceptive use unknown ..	95	—	10	25	17	15	12	3	—	13
No previous abortion	48	—	5	19	6	4	7	2	—	5
One	19	—	1	4	8	4	2	—	—	—
Two	7	—	—	1	1	3	1	—	—	1
Three	—	—	—	—	—	—	—	—	—	—
Four or more	1	—	—	—	—	1	—	—	—	—
Number of living children										
No children ¹	3,807	21	721	1,434	907	415	168	42	8	91
Total with children	4,267	1	117	965	1,192	960	635	258	20	119
One	1,834	1	98	625	487	323	178	71	5	46
Two	1,506	—	17	276	465	350	244	108	8	38
Three	608	—	2	55	161	183	135	44	6	22
Four	228	—	—	8	63	77	52	17	1	10
Five or more	91	—	—	1	16	27	26	18	—	3

— 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.

N.S. = Not stated.

TABLE 3-6. Induced terminations of pregnancy by residence and age group of patient, Oregon occurrence, 2014

County of residence	Total	Age groups								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	8,231	22	864	2,445	2,128	1,396	818	305	29	224
Baker	5	1	–	2	2	–	–	–	–	–
Benton	112	–	11	49	25	12	7	5	–	3
Clackamas	643	3	75	186	174	95	62	30	1	17
Clatsop	67	–	5	17	20	13	6	3	1	2
Columbia	67	–	7	20	22	7	9	2	–	–
Coos	54	1	8	18	11	7	5	1	1	2
Crook	20	–	3	3	4	9	1	–	–	–
Curry	15	–	1	3	5	1	2	2	–	1
Deschutes	305	1	31	73	79	57	41	16	–	7
Douglas	109	–	14	35	25	14	11	3	–	7
Gilliam	2	*	*	*	*	*	*	*	*	*
Grant	6	–	1	1	2	2	–	–	–	–
Harney	5	–	2	1	1	1	–	–	–	–
Hood River	25	1	2	5	8	3	4	2	–	–
Jackson	336	1	42	104	85	51	30	15	4	4
Jefferson	34	–	4	11	11	3	2	2	–	1
Josephine	117	1	15	38	29	14	12	4	–	4
Klamath	64	–	8	22	12	13	3	2	1	3
Lake	7	–	–	6	–	1	–	–	–	–
Lane	692	–	85	216	183	109	61	15	1	22
Lincoln	55	–	7	12	20	8	4	3	–	1
Linn	122	–	19	39	20	22	9	7	–	6
Malheur	10	–	2	2	1	3	–	1	–	1
Marion	545	3	63	188	122	84	51	16	2	16
Morrow	3	–	–	1	1	–	–	–	–	1
Multnomah	2,478	1	208	687	703	475	263	80	10	51
Polk	78	–	8	25	19	7	10	2	–	7
Sherman	–	*	*	*	*	*	*	*	*	*
Tillamook	47	–	10	18	11	4	3	–	–	1
Umatilla	16	–	2	9	–	3	2	–	–	–
Union	6	1	–	2	1	–	2	–	–	–
Wallowa	2	–	1	–	1	–	–	–	–	–
Wasco	39	–	6	11	7	7	6	–	–	2
Washington	1,120	4	123	329	289	197	97	56	3	22
Wheeler	1	*	*	*	*	*	*	*	*	*
Yamhill	117	1	13	41	21	19	12	4	–	6
Out of state	781	3	77	236	193	131	88	27	5	21
Not stated	126	–	9	35	21	24	14	7	–	16

– Quantity is zero.
 * Detailed reporting of small numbers may breach confidentiality.
 N.S. = Not stated.

TABLE 3-7. Induced terminations of pregnancy by county of residence and county of occurrence, Oregon occurrence, 2014

County of residence	Total	County of occurrence								
		Benton	Clackamas	Deschutes	Jackson	Lane	Marion	Multnomah	Washington	Yamhill
Total	8,231	7	9	392	398	849	483	5,352	720	21
Baker	5	—	—	2	—	—	—	3	—	—
Benton	112	6	—	2	—	19	33	41	11	—
Clackamas	643	—	4	—	—	2	5	581	51	—
Clatsop	67	—	—	—	—	1	—	61	5	—
Columbia	67	—	—	—	—	—	—	58	9	—
Coos	54	—	—	—	1	44	—	9	—	—
Crook	20	—	—	20	—	—	—	—	—	—
Curry	15	—	—	—	5	6	—	4	—	—
Deschutes	305	—	—	274	1	5	2	22	1	—
Douglas	109	—	—	1	7	77	1	23	—	—
Gilliam	2	—	—	—	—	—	—	2	—	—
Grant	6	—	—	5	—	—	—	—	1	—
Harney	5	—	—	4	—	1	—	—	—	—
Hood River	25	—	—	—	—	—	2	21	2	—
Jackson	336	—	—	7	254	45	2	27	1	—
Jefferson	34	—	—	31	—	—	—	3	—	—
Josephine	117	—	—	1	75	24	—	16	—	1
Klamath	64	—	—	11	31	12	—	10	—	—
Lake	7	—	—	2	—	3	—	2	—	—
Lane	692	—	—	6	7	560	15	96	7	1
Lincoln	55	—	—	—	—	9	12	29	2	3
Linn	122	1	—	1	—	16	39	58	6	1
Malheur	10	—	—	4	—	—	—	6	—	—
Marion	545	—	—	—	—	2	280	216	44	3
Morrow	3	—	—	—	—	—	—	3	—	—
Multnomah	2,478	—	4	3	—	—	5	2,319	147	—
Polk	78	—	—	—	—	—	46	26	4	2
Sherman	—	—	—	—	—	—	—	—	—	—
Tillamook	47	—	—	—	—	—	4	35	8	—
Umatilla	16	—	—	2	1	—	—	12	1	—
Union	6	—	—	1	—	—	—	4	1	—
Wallowa	2	—	—	—	—	—	—	2	—	—
Wasco	39	—	—	—	—	—	—	37	2	—
Washington	1,120	—	1	1	—	1	11	748	357	1
Wheeler	1	—	—	1	—	—	—	—	—	—
Yamhill	117	—	—	—	—	1	18	62	29	7
Out of state	781	—	—	5	7	6	4	730	28	1
Not stated	126	—	—	8	9	15	4	86	3	1

— Quantity is zero.

SECTION 4: TEEN PREGNANCY

Teen pregnancy

Introduction

In 2014, 3,253 pregnancies occurred among Oregon females under the age of 20. Forty pregnancies occurred among females under age 15. Twenty girls aged 10–14 gave birth during 2014, five more than the previous year (see Table 4-2). The youngest female to give birth was 13 and the youngest female to obtain an abortion was 12.

Due to differences in risk and severity of outcomes, this report bases its analysis on two separate age groups to aid in understanding teen pregnancy trends: females aged 15–17 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, females that obtain an out-of-state abortion are not always included in this count (see Appendix B).

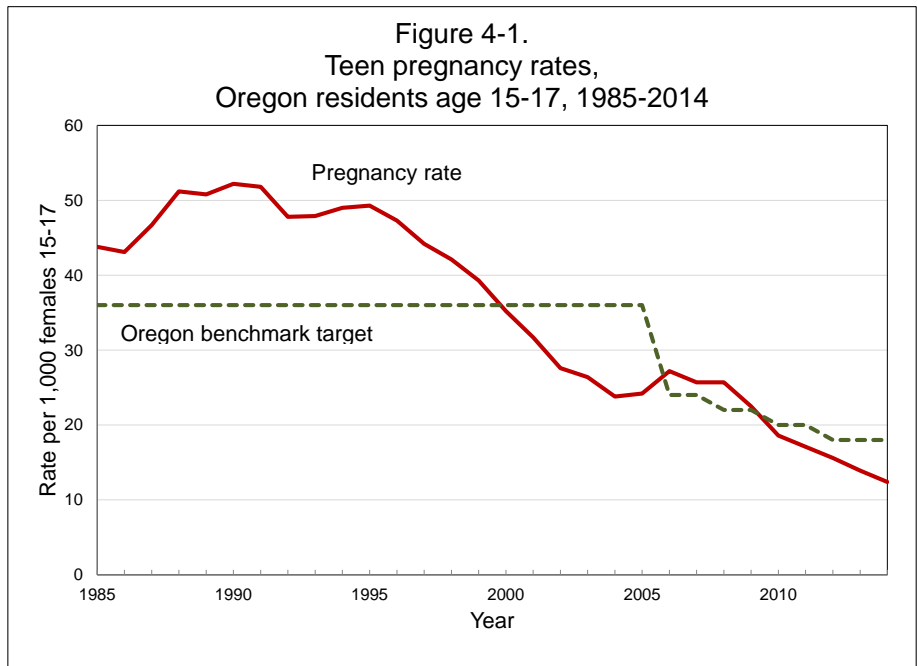
Oregon females, aged 15–17

Efforts to prevent teen pregnancies focus primarily on females aged 15–17. During 2014, 889 pregnancies were recorded for Oregon females aged 15–17, 113 fewer than in 2013. The statewide pregnancy rate among women aged 15–17 decreased 10.8%, from 13.9 in 2013 to a current low of 12.4 (see Table 4-1). Historically, the teen pregnancy rate has trended downward and the 2014 rate is 64.8% 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 2014 rate for teens 15–17 was 31.1% 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 ages 15 to 17 decreased by 10.8% from 2013

Table 4-A. Oregon benchmark teen pregnancy rates 15-17	
Year 2015 Goal: 18.0	
Year	Rate
1980	59.3
1985	43.8
1990	52.2
1991	51.8
1992	47.8
1993	47.9
1994	49.0
1995	49.3
1996	47.3
1997	44.2
1998	42.1
1999	39.3
2000	35.2
2001	31.7
2002	27.6
2003	26.4
2004	23.8
2005	24.2
2006	27.2
2007	25.7
2008	25.7
2009	22.5
2010	18.6
2011	17.1
2012	15.6
2013	13.9
2014	12.4

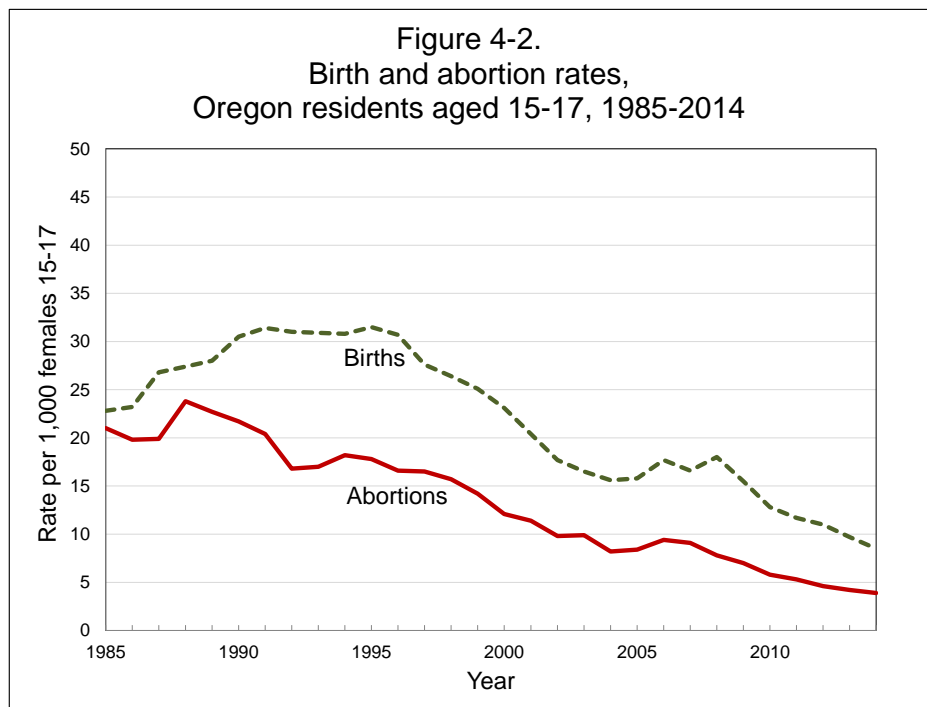
Pregnancy rate per 1,000 Oregon resident females ages 15-17.



Births to teens 15–17

Of pregnancies to teens age 15-17, 68.7% resulted in live births, compared to 46.2% in 1980 (see Table 4-1). There were 611 births to Oregon teens aged 15–17 in 2014. It was the mother’s first child in 93.3% of these births (see Table 4-9). The birth rate for females aged 15–17 was 8.5 per 1,000 females, a decrease of 12.4% from the previous year. Among those that took their pregnancies to term, 94.6% were unmarried at the time of birth (see Table 4-10).

Abortion rates for teens age 15 to 17 decreased 7.1% from 2013

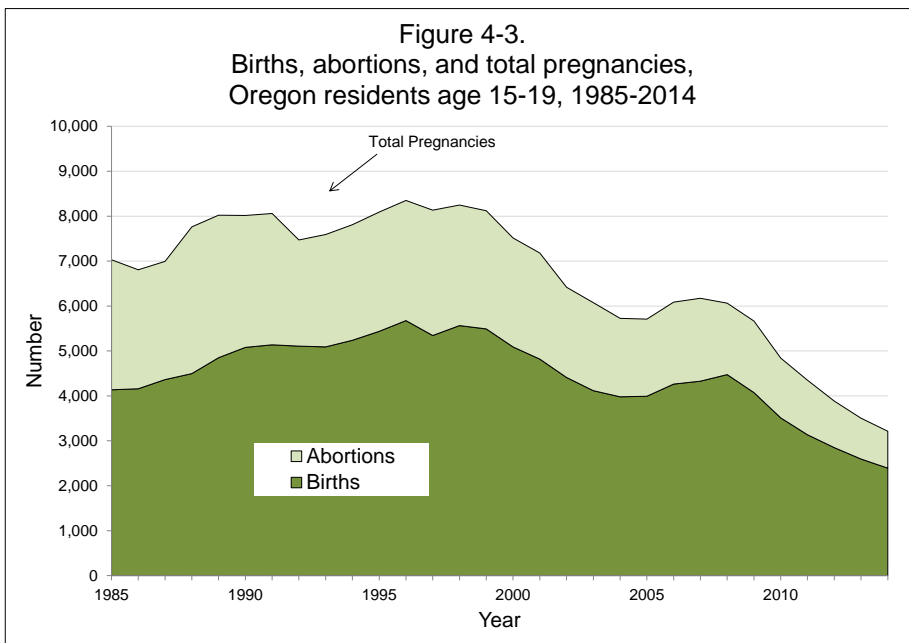


Abortion rates among teens 15–17

Abortion rates among teens decreased 7.1% from 2013. For females aged 15–17, the abortion rate was historically low in 2014 at 3.9 per 1,000 (see Table 4-1, Figure 4-2). There were 278 abortions among Oregon females aged 15–17 reported during 2014, 25 fewer abortions than in 2013. Since the record high abortion rate recorded in 1980, the rate for females aged 15–17 has decreased by more than 87.8% (from 31.9 to 3.9 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. Among teens under 15, 50.0% of the pregnancies resulted in a live birth in 2014 (see Table 4-2, Figure 4-4).

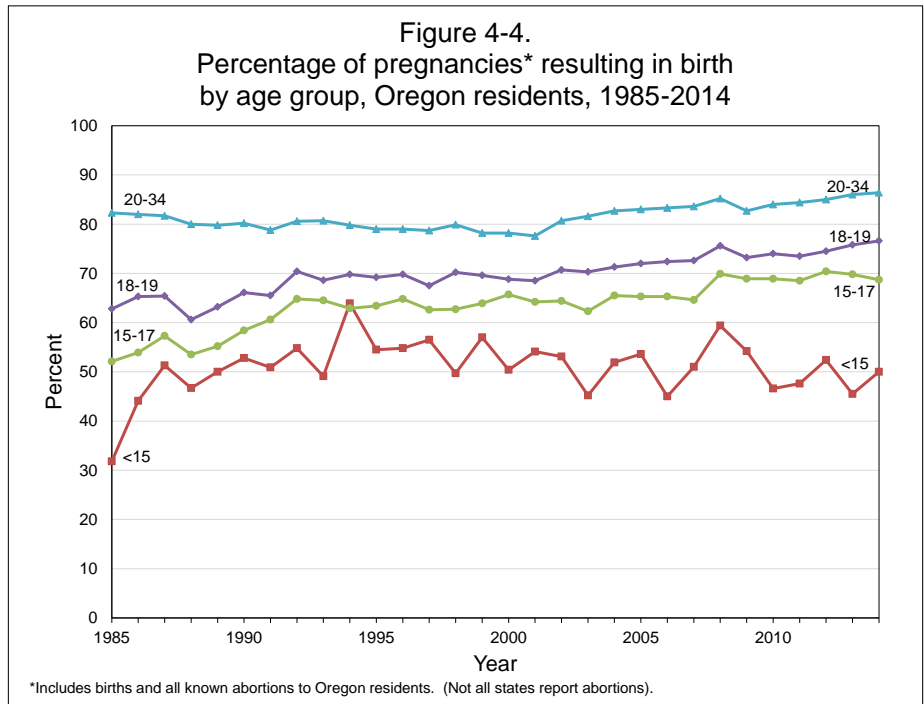
Birth rates for teens age 18 to 19 decreased by 6.2% from 2013



Oregon females, aged 18–19

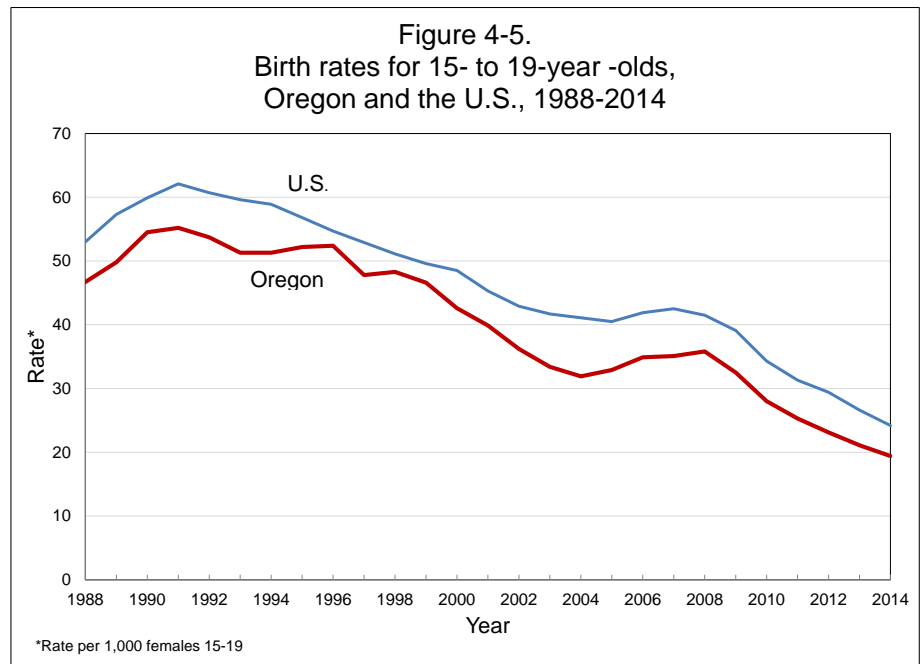
In 2014, the pregnancy rate for Oregonians aged 18–19 was 45.4 per 1,000 females, a 7.3% decrease from 2013. Comparisons with the 2013 figures show a decrease in the birth rate (6.2%) and the abortion rate (10.9%) among women aged 18–19 (see Table 4-1).

Of the 2,324 pregnancies among women aged 18–19, 76.6% (1,781) resulted in a live birth (see Figure 4-4). It was the first child for 83.4% 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 8.1% in 2014 (19.4 vs. 21.1 per 1,000 females in 2013; see Table 4-1). The 2014 rate was 64.9% 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 2014 birth rate for 15–19-year-old teens was 19.8% below the national rate.¹ (19.4 vs. 24.2 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 (which includes African Americans) 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 26.1 in 2014, a 69.7% decrease (see Table 4-1; for further discussion of Oregon’s demographic characteristics and teen pregnancy rates, see Appendix B: “Methodology”).

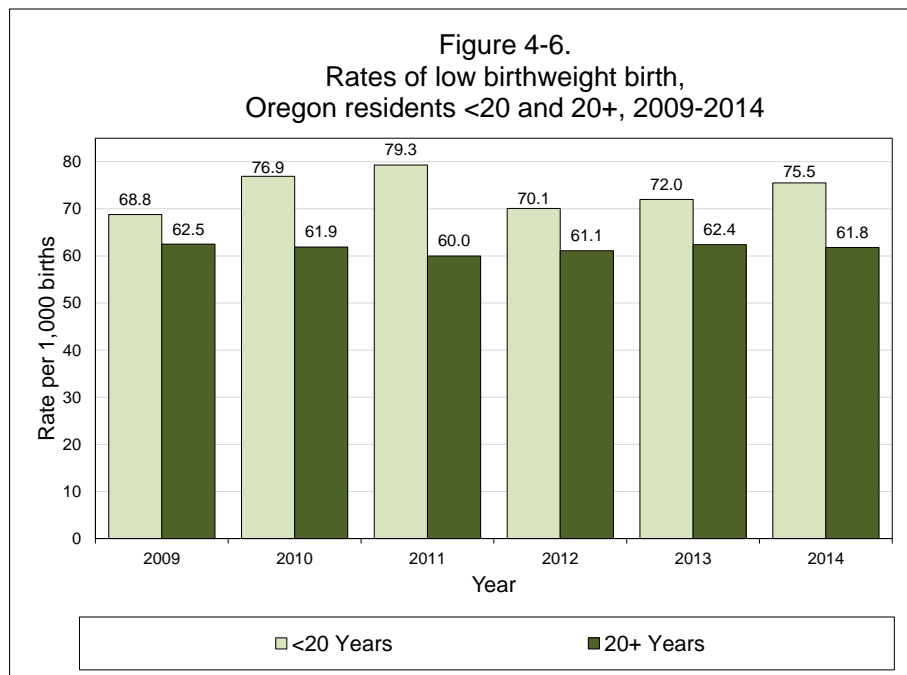
Age	Oregon		U.S.
	2014	2013	2014
15-17	8.5	9.7	10.9
18-19	34.8	37.1	43.8
15-19	19.4	21.1	24.2

¹ All rates per 1,000 females.

Level of infant health

Low birthweight

The best single measure of newborn infant health is low birthweight, 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 2014, the low birthweight rate for teen mothers aged 15–19 was 74.4 per 1,000 births (see Table 4-7), a 2.8% increase from 2013. For 15–17-year-olds, the rate (88.4 per 1,000) increased by 37.2%. The teen rate for low birthweight remained higher than for mothers aged 20 and older (61.8 per 1,000; see Table 2-27). The difference in the low birthweight rates between teen and older mothers continued to increase slightly in 2014 (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 2014, for example, 51.8% of unmarried Hispanics aged 15–17 started prenatal care during their first trimester, compared to 72.7% of married non-Hispanic White women aged 18–19 (see Table 4-7).

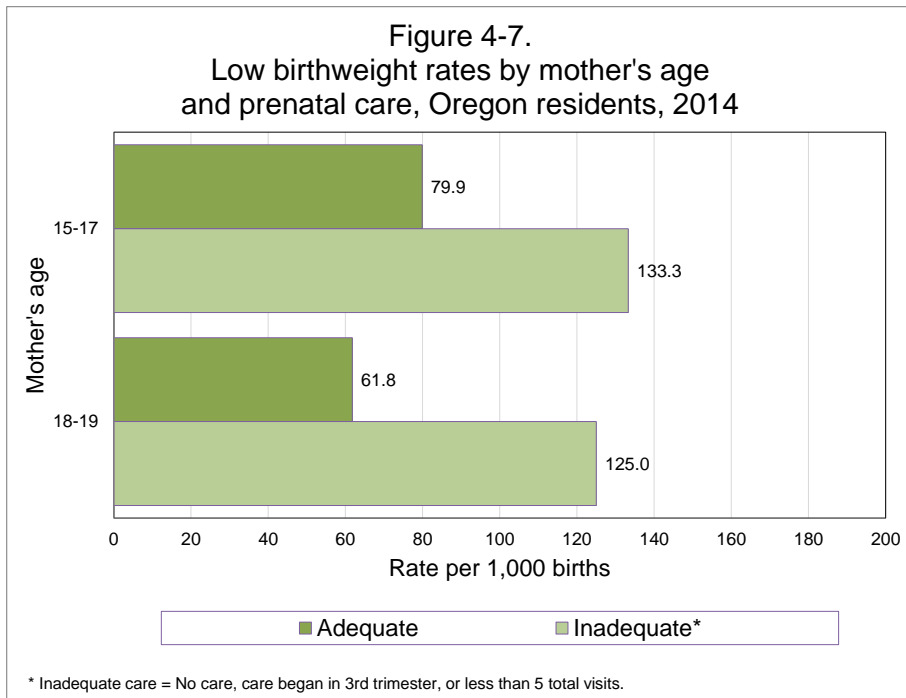
Low birthweight rates among teen mothers by racial/ethnic grouping are displayed in Table 4-7. Between 2013 and 2014, the rate of low birthweight infants for Hispanic teens aged 15–17 increased by 63.4%. The low birthweight rate for Hispanic teens aged 18–19 during this same period increased by 34.0%. Among non-Hispanic, non-White groups, the low birthweight rate for teens aged 15–17 decreased by 55.4%, while the rate for 18–19-year-olds increased by 10.2%.

Prenatal care

Table 4-6 shows the association between inadequate prenatal care and frequency of low birthweight infants for teens that gave birth in 2014. 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 (127.8 vs. 66.3 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 79.9 vs. 133.3; for mothers 18–19, the rates were 61.8 vs. 125.0.

- **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 2014, only 64.2% of teen mothers started prenatal care during the first trimester, compared to 78.2% for women aged 20 and older (see sidebar Table 4-C). Only 56.7% of those 15–17 received first trimester prenatal care, a decrease from 57.9% in 2013 (see Table 4-10).

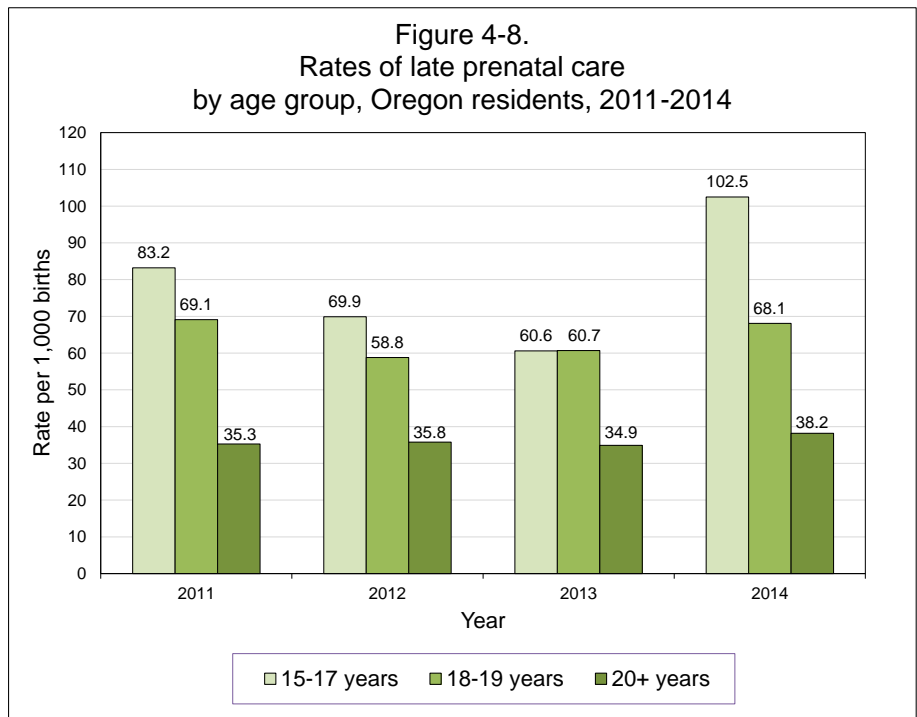
- **Inadequate prenatal care**

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, 14.9% of 15–17-year-old teens and 10.1% of 18–19-year-old teens received inadequate prenatal care in 2014. This compares with 5.7% 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 25.3% in 2014, to 11.5% from 9.2% in 2013.

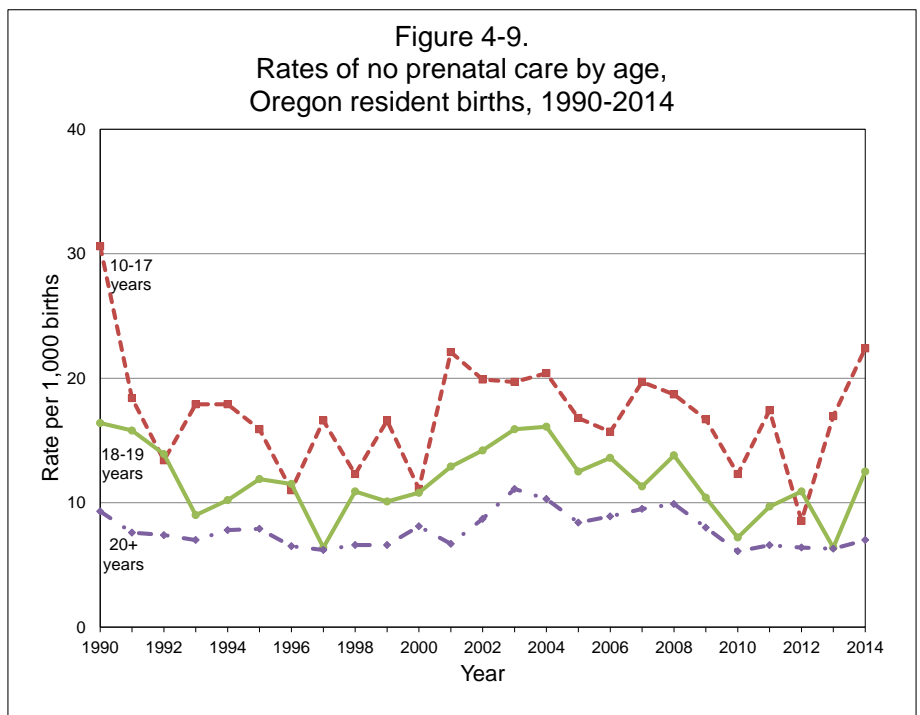
- **Late care or no prenatal care**

From 2013 to 2014, the proportion of teens aged 15–17 that began prenatal care during the third trimester

Table 4-C. Oregon benchmark: <i>first trimester prenatal care, 2014</i>	
Year 2015 goal: 90%	
All Women	77.5
All Teens	64.2
15-17 Years	56.7
18-19 Years	67.1
20+ Years	78.2



increased 69.1% to 102.5 per 1,000 live births (see Figure 4-8). In 2014, 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 23.1 per 1,000 live births, more than three times the rate of women aged 20 and older (7.0 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 2014, the low five-minute Apgar rate for newborns of mothers aged 15–17 was 45.9 per 1,000 births (Table 4-9), a 77.9% increase from 2013 (25.8 per 1,000). The low five-minute Apgar rate for infants born to women under age 20 was 63.3% higher than the rate for infants born to women 20 years or older (41.2 compared to 25.2 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 2014 was just over 1.5 times higher than the percentage reported by women aged 20 and older (16.7% vs. 10.0%; 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 (109.2 vs. 56.3 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.

Alcohol

Teens aged 15–19 reported less use of alcohol during pregnancy than women aged 20 and older (3.0 per 1,000 births vs. 12.0 per 1,000 births).

	<20	20+
Nonsmokers	71.0	56.3
Smokers	99.3	109.2

¹ All Rates per 1,000 births

Source of payment

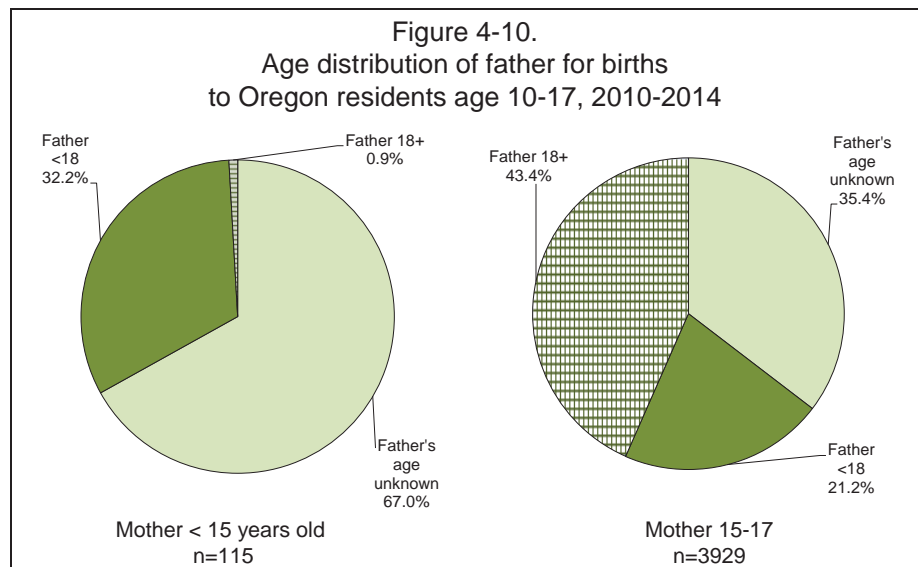
The percentage of teen mothers that used public funds to pay the costs associated with birth was nearly twice that of older mothers. In 2014, Medicaid/Oregon Health Plan paid for 76.2% of births to teens aged 15–19 and 43.0% of births to women aged 20 and older where source of payment was reported (see Table 4-10).

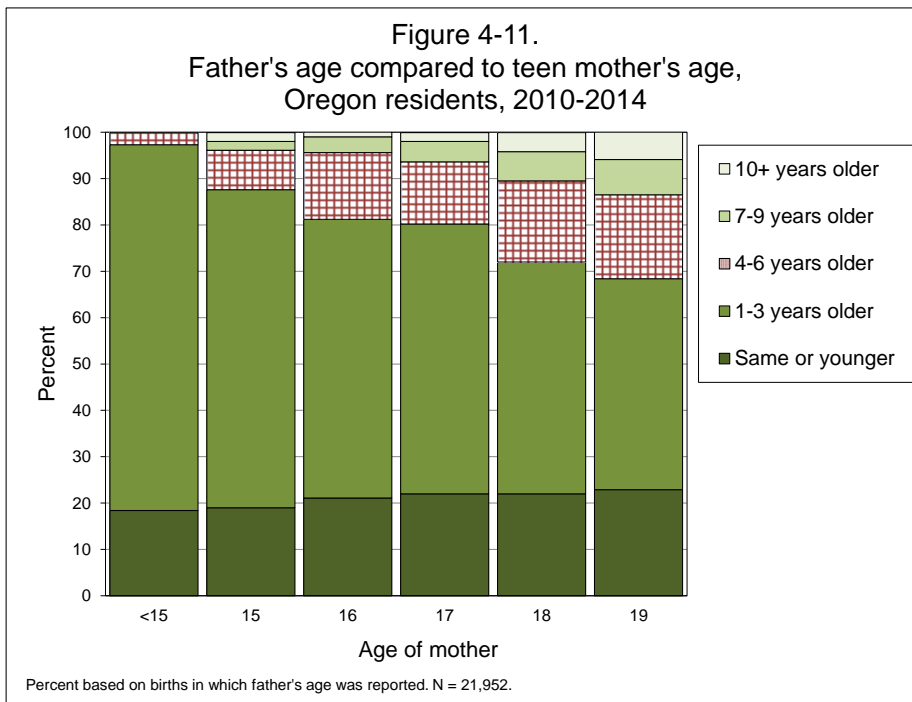
**Medicaid/OHP paid for
76.2 percent of births
to teens in 2014**

Age of father

Between 2010 and 2014, 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 (67.0%) 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, 97.4% were younger than age 18 and 2.6% were aged 18 or older. Birth records for mothers aged 15–17 report father's age for 64.6% of births. Where the father's age was reported, 32.8% of fathers were under age 18 and 67.2% 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 10.8% of the births for the 2010–2014 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 0% of births to mothers under age 15, to a high of 13.6% for 19-year-old teens (see Figure 4-11).





Endnotes

1. Centers for Disease Control and Prevention (CDC). Births: preliminary data for 2014. National Vital Statistics Reports. 2015 June 17; 64(6).
2. U.S. Census Bureau. 2000 census of population and housing, summary population and housing characteristics PHC-1-39, Oregon. 2002 June [cited 2015 July 28]. Available from: www.census.gov/prod/cen2000/phc-1-39.pdf.
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TABLE 4-1. Oregon pregnancies to teens 15-19 years, 1975-2014

Year	Pregnancies ¹						Births			
	15 - 17		18 - 19		15 - 19		15 - 17		18 - 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
2014	889	12.4	2,324	45.4	3,213	26.1	611	8.5	1,781	34.8

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

TABLE 4-1. Oregon pregnancies to teens 15-19 years, 1975-2014 (continued)

Births		Abortions ²							N.S.	Year
15 - 19		15 - 17		18 - 19		15 - 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	
2,392	19.4	278	3.9	543	10.6	821	6.7	202	2014	

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

All rates are per 1,000 females.

NA = Not available

N.S. = Not stated

TABLE 4-2. Oregon pregnancies to young teens 10-17 years, 1975-2014

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
2014	40	929	4.9	20	631	3.3	20	298	1.6	50.0	67.9

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, 2014

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	53,241	40	889	2,324	3,213	4.9	12.4	45.4	26.1
Baker	175	1	1	11	12	2.7	3.5	84.6	28.7
Benton	851	–	8	26	34	§ 2.2	§ 5.2	§ 9.2	§ 7.8
Clackamas	4,739	5	56	151	207	§ 2.9	§ 6.9	§ 34.5	§ 16.6
Clatsop	478	–	8	21	29	4.7	13.0	46.2	27.1
Columbia	561	–	10	26	36	3.9	10.2	50.0	24.0
Coos	679	1	9	41	50	3.7	8.4	58.6	28.2
Crook	241	–	5	19	24	5.1	13.5	§ 110.5	§ 44.3
Curry	160	–	1	4	5	1.3	3.2	26.8	10.9
Deschutes	2,092	1	32	77	109	4.0	10.6	44.7	23.0
Douglas	1,215	–	19	94	113	3.8	9.7	§ 84.3	§ 36.8
Gilliam	20	*	*	*	1	*	*	*	25.0
Grant	70	–	*	*	4	*	*	*	24.4
Harney	93	–	2	9	11	5.7	14.5	§ 121.6	51.9
Hood River	332	1	3	23	26	3.0	5.9	§ 90.6	34.2
Jackson	2,635	2	49	145	194	5.1	12.8	§ 57.4	§ 30.5
Jefferson	316	–	7	18	25	5.9	15.4	74.1	35.8
Josephine	984	3	24	45	69	7.0	16.8	55.3	30.8
Klamath	856	–	15	69	84	4.6	12.2	§ 82.5	§ 40.6
Lake	89	–	*	*	8	*	*	*	40.4
Lane	4,379	–	89	204	293	5.7	14.2	§ 32.3	23.3
Lincoln	483	1	15	21	36	§ 9.3	§ 23.7	54.7	35.4
Linn	1,557	1	30	88	118	4.9	12.9	§ 60.4	31.1
Malheur	435	1	17	28	45	§ 10.7	§ 27.9	65.3	§ 43.4
Marion	4,947	12	124	244	368	§ 7.6	§ 18.3	§ 52.3	§ 32.1
Morrow	175	–	4	12	16	5.5	14.5	83.3	38.2
Multnomah	11,971	4	162	444	606	5.4	14.3	48.3	§ 29.6
Polk	932	–	20	38	58	4.7	12.8	§ 25.1	§ 18.9
Sherman	19	*	*	*	1	*	*	*	23.8
Tillamook	304	–	9	16	25	8.2	21.1	77.3	39.5
Umatilla	1,163	–	26	82	108	6.0	15.8	§ 79.3	§ 40.3
Union	316	1	3	15	18	3.2	6.5	33.9	19.9
Wallowa	60	–	*	*	4	*	*	*	25.6
Wasco	346	–	6	16	22	4.6	12.5	57.3	29.0
Washington	8,182	5	104	270	374	§ 3.7	§ 9.6	42.5	§ 21.8
Wheeler	11	*	*	*	1	*	*	*	35.7
Yamhill	1,264	1	20	49	69	3.8	9.5	§ 28.0	§ 17.9

– Quantity is zero.
¹ All rates per 1,000 females.
² Total includes 111 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, 2014

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	45,557	20	611	1,781	2,392	3.3	8.5	34.8	19.4
Baker	166	—	1	9	10	1.4	3.5	69.2	23.9
Benton	737	—	7	16	23	1.9	4.5	§ 5.7	§ 5.3
Clackamas	4,092	2	33	97	130	§ 1.7	§ 4.1	§ 22.2	§ 10.5
Clatsop	409	—	6	18	24	3.5	9.8	39.6	22.4
Columbia	493	—	7	22	29	2.7	7.2	42.3	19.4
Coos	624	—	6	35	41	2.2	5.6	50.0	23.2
Crook	221	—	5	16	21	5.1	13.5	§ 93.0	§ 38.7
Curry	145	—	—	4	4	—	—	26.8	8.7
Deschutes	1,787	—	20	58	78	2.4	6.6	33.7	16.4
Douglas	1,104	—	16	83	99	3.2	8.2	§ 74.4	§ 32.2
Gilliam	18	*	*	*	—	*	*	*	—
Grant	62	—	*	*	3	*	*	*	18.3
Harney	88	—	2	7	9	5.7	14.5	§ 94.6	42.5
Hood River	304	—	2	22	24	1.5	4.0	§ 86.6	§ 31.6
Jackson	2,298	1	37	115	152	3.8	9.7	§ 45.5	§ 23.9
Jefferson	281	—	5	16	21	4.2	11.0	§ 65.8	30.1
Josephine	866	2	15	39	54	4.4	10.5	47.9	24.1
Klamath	792	—	11	65	76	3.4	8.9	§ 77.8	§ 36.7
Lake	82	—	*	*	8	*	*	*	40.4
Lane	3,682	—	55	152	207	3.5	8.8	§ 24.1	§ 16.4
Lincoln	428	1	11	18	29	§ 7.0	17.4	46.9	28.5
Linn	1,434	1	24	75	99	4.0	10.3	§ 51.5	§ 26.1
Malheur	393	—	14	26	40	§ 8.3	§ 23.0	§ 60.6	§ 38.5
Marion	4,397	9	95	210	305	§ 5.8	§ 14.0	§ 45.0	§ 26.6
Morrow	166	—	3	12	15	4.1	10.9	§ 83.3	35.8
Multnomah	9,463	3	98	297	395	3.3	8.7	32.3	19.3
Polk	854	—	17	33	50	4.0	10.9	§ 21.8	16.3
Sherman	19	*	*	*	1	*	*	*	23.8
Tillamook	257	—	3	12	15	2.7	7.0	58.0	23.7
Umatilla	1,032	—	24	64	88	5.5	§ 14.6	§ 61.9	§ 32.9
Union	290	—	2	14	16	1.6	4.3	31.6	17.7
Wallowa	57	—	*	*	3	*	*	*	19.2
Wasco	307	—	4	12	16	3.1	8.4	43.0	21.1
Washington	7,054	1	70	181	251	2.4	6.5	§ 28.5	§ 14.6
Wheeler	10	*	*	*	—	*	*	*	—
Yamhill	1,145	—	17	39	56	3.1	8.1	§ 22.3	14.6

— Quantity is zero.

¹ All rates per 1,000 females.

§ Birth rate is significantly different from the state rate.

* 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, 2014

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	7,680	20	277	543	820	1.6	3.8	10.6	6.7
Baker	9	1	—	2	2	1.4	—	15.4	4.8
Benton	114	—	1	10	11	0.3	0.6	§ 3.5	§ 2.5
Clackamas	647	3	23	54	77	1.2	2.9	12.3	6.2
Clatsop	69	—	2	3	5	1.2	3.3	6.6	4.7
Columbia	68	—	3	4	7	1.2	3.1	7.7	4.7
Coos	55	1	3	6	9	1.5	2.8	8.6	5.1
Crook	20	—	—	3	3	—	—	17.4	5.5
Curry	15	—	1	—	1	1.3	3.2	—	2.2
Deschutes	305	1	12	19	31	1.6	4.0	11.0	6.5
Douglas	111	—	3	11	14	0.6	1.5	9.9	4.6
Gilliam	2	*	*	*	*	*	*	*	*
Grant	8	—	*	*	1	*	*	*	6.1
Harney	5	—	—	2	2	—	—	27.0	9.4
Hood River	28	1	1	1	2	1.5	2.0	3.9	2.6
Jackson	337	1	12	30	42	1.3	3.1	11.9	6.6
Jefferson	35	—	2	2	4	1.7	4.4	8.2	5.7
Josephine	118	1	9	6	15	2.6	6.3	7.4	6.7
Klamath	64	—	4	4	8	1.2	3.2	4.8	3.9
Lake	7	—	—	—	—	—	—	—	—
Lane	697	—	34	52	86	2.2	5.4	8.2	6.8
Lincoln	55	—	4	3	7	2.3	6.3	7.8	6.9
Linn	123	—	6	13	19	1.0	2.6	8.9	5.0
Malheur	42	1	3	2	5	2.4	4.9	4.7	4.8
Marion	550	3	29	34	63	1.8	4.3	7.3	5.5
Morrow	9	—	1	—	1	1.4	3.6	—	2.4
Multnomah	2,508	1	64	147	211	2.1	§ 5.7	§ 16.0	§ 10.3
Polk	78	—	3	5	8	0.7	1.9	§ 3.3	§ 2.6
Sherman	—	*	*	*	*	*	*	*	*
Tillamook	47	—	6	4	10	§ 5.5	§ 14.1	19.3	§ 15.8
Umatilla	131	—	2	18	20	0.5	1.2	17.4	7.5
Union	26	1	1	1	2	1.6	2.2	2.3	2.2
Wallowa	3	—	*	*	1	*	*	*	6.4
Wasco	39	—	2	4	6	1.5	4.2	14.3	7.9
Washington	1,128	4	34	89	123	1.3	3.1	14.0	7.2
Wheeler	1	*	*	*	*	*	*	*	*
Yamhill	119	1	3	10	13	0.7	1.4	5.7	§ 3.4

— Quantity is zero.
¹ All rates per 1,000 females.
² Total includes 111 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, 2014

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	2,392	34	232	138	1,945	6	37
15-17	611	12	78	41	472	1	7
18-19	1,781	22	154	97	1,473	5	30
Non-Hispanic single mention race							
White							
15-19	1,239	17	114	57	1,030	3	18
15-17	267	6	31	16	212	1	1
18-19	972	11	83	41	818	2	17
African American							
15-19	75	2	7	7	58	–	1
15-17	15	–	3	–	12	–	–
18-19	60	2	4	7	46	–	1
American Indian							
15-19	35	–	6	1	28	–	–
15-17	8	–	4	–	4	–	–
18-19	27	–	2	1	24	–	–
Asian							
15-19	15	–	1	2	12	–	–
15-17	2	–	–	–	2	–	–
18-19	13	–	1	2	10	–	–
Hawaiian/Pacific Islander							
15-19	17	–	1	1	15	–	–
15-17	4	–	1	1	2	–	–
18-19	13	–	–	–	13	–	–
Other/unknown							
15-19	12	–	–	1	9	1	1
15-17	2	–	–	–	2	–	–
18-19	10	–	–	1	7	1	1
Multiple races							
15-19	156	1	15	10	128	–	2
15-17	44	1	3	1	38	–	1
18-19	112	–	12	9	90	–	1
Hispanic ethnicity							
Hispanic³							
15-19	843	14	88	59	665	2	15
15-17	269	5	36	23	200	–	5
18-19	574	9	52	36	465	2	10

– 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, 2014 (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	2,392	34	232	138	1,945	6	37
15-17	611	12	78	41	472	1	7
18-19	1,781	22	154	97	1,473	5	30
Multiple mention race and ethnicity							
White							
15-19	2,019	28	193	106	1,654	4	34
15-17	502	10	60	30	394	1	7
18-19	1,517	18	133	76	1,260	3	27
African American							
15-19	152	5	15	16	115	—	1
15-17	40	2	5	1	32	—	—
18-19	112	3	10	15	83	—	1
American Indian							
15-19	162	1	19	7	132	—	3
15-17	44	1	9	—	33	—	1
18-19	118	—	10	7	99	—	2
Asian							
15-19	48	—	5	5	38	—	—
15-17	12	—	—	2	10	—	—
18-19	36	—	5	3	28	—	—
Hawaiian/Pacific Islander							
15-19	39	1	6	4	28	—	—
15-17	8	—	1	1	6	—	—
18-19	31	1	5	3	22	—	—
Other							
15-19	193	2	19	17	151	2	2
15-17	71	—	8	10	53	—	—
18-19	122	2	11	7	98	2	2
Unknown							
15-19	21	—	2	2	17	—	—
15-17	8	—	2	—	6	—	—
18-19	13	—	—	2	11	—	—
Hispanic³							
15-19	843	14	88	59	665	2	15
15-17	269	5	36	23	200	—	5
18-19	574	9	52	36	465	2	10

— 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, 2014

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	2,392	178	74.4	1,525	644.5	266	113.2
15-17	611	54	88.4	343	566.9	90	149.3
18-19	1,781	124	69.6	1,182	671.2	176	100.8
Non-Hispanic single mention race							
White	1,239	77	62.1	842	686.8	131	107.6
15-17	267	23	86.1	164	618.9	37	139.6
Married	16	1	62.5	9	562.5	2	125.0
Unmarried	251	22	87.6	155	622.5	35	140.6
18-19	972	54	55.6	678	705.5	94	98.6
Married	164	8	48.8	117	726.7	17	106.9
Unmarried	806	46	57.1	561	703.0	76	96.0
African American	75	9	120.0	47	635.1	9	121.6
15-17	15	—	—	8	533.3	3	200.0
Married	—	—	—	—	—	—	—
Unmarried	15	—	—	8	533.3	3	200.0
18-19	60	9	150.0	39	661.0	6	101.7
Married	8	1	125.0	6	750.0	2	250.0
Unmarried	52	8	153.8	33	647.1	4	78.4
American Indian	35	1	28.6	22	628.6	6	171.4
15-17	8	—	—	3	375.0	4	500.0
Married	2	—	—	1	500.0	1	500.0
Unmarried	6	—	—	2	333.3	3	500.0
18-19	27	1	37.0	19	703.7	2	74.1
Married	1	—	—	1	1000.0	—	—
Unmarried	26	1	38.5	18	692.3	2	76.9
Asian/Pacific Islander⁴	32	3	93.8	18	562.5	2	62.5
15-17	6	1	166.7	2	333.3	1	166.7
Married	2	—	—	1	500.0	—	—
Unmarried	4	1	250.0	1	250.0	1	250.0
18-19	26	2	76.9	16	615.4	1	38.5
Married	8	1	125.0	4	500.0	—	—
Unmarried	18	1	55.6	12	666.7	1	55.6
Other/multiple races	168	13	77.4	108	650.6	16	97.6
15-17	46	2	43.5	28	622.2	4	88.9
Married	1	—	—	1	1000.0	—	—
Unmarried	45	2	44.4	27	613.6	4	90.9
18-19	122	11	90.2	80	661.2	12	100.8
Married	14	3	214.3	9	642.9	—	—
Unmarried	108	8	74.1	71	663.6	12	114.3
Hispanic ethnicity							
Hispanic⁵	843	75	89.0	488	585.8	102	123.5
15-17	269	28	104.1	138	518.8	41	155.3
Married	12	—	—	6	545.5	1	90.9
Unmarried	257	28	108.9	132	517.6	40	158.1
18-19	574	47	81.9	350	617.3	61	108.5
Married	101	4	39.6	60	600.0	6	60.6
Unmarried	473	43	90.9	290	621.0	55	118.8

— 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, 2014 (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	2,392	178	74.4	1,525	644.5	266	113.2
15-17	611	54	88.4	343	566.9	90	149.3
18-19	1,781	124	69.6	1,182	671.2	176	100.8
Multiple mention race/ ethnicity							
White	2,019	138	68.4	1,290	646.3	221	111.6
15-17	502	41	81.7	284	572.6	70	141.7
Married	26	1	38.5	15	600.0	3	120.0
Unmarried	476	40	84.0	269	571.1	67	142.9
18-19	1,517	97	63.9	1,006	670.7	151	101.5
Married	262	14	53.4	174	674.4	22	86.3
Unmarried	1,253	83	66.2	832	671.0	128	104.1
African American	152	21	138.2	95	629.1	20	132.5
15-17	40	3	75.0	24	600.0	7	175.0
Married	—	—	—	—	—	—	—
Unmarried	40	3	75.0	24	600.0	7	175.0
18-19	112	18	160.7	71	639.6	13	117.1
Married	12	3	250.0	9	750.0	2	166.7
Unmarried	100	15	150.0	62	626.3	11	111.1
American Indian	162	8	49.4	100	625.0	20	125.8
15-17	44	1	22.7	21	488.4	10	232.6
Married	2	—	—	1	500.0	1	500.0
Unmarried	42	1	23.8	20	487.8	9	219.5
18-19	118	7	59.3	79	675.2	10	86.2
Married	7	1	142.9	6	857.1	—	—
Unmarried	111	6	54.1	73	663.6	10	91.7
Asian/Pacific Islander⁴	81	10	123.5	51	629.6	9	111.1
15-17	19	3	157.9	11	578.9	1	52.6
Married	4	—	—	3	750.0	—	—
Unmarried	15	3	200.0	8	533.3	1	66.7
18-19	62	7	112.9	40	645.2	8	129.0
Married	14	3	214.3	7	500.0	—	—
Unmarried	48	4	83.3	33	687.5	8	166.7
Other/unknown	214	23	107.5	141	665.1	23	109.5
15-17	79	10	126.6	46	582.3	10	126.6
Married	4	—	—	1	250.0	1	250.0
Unmarried	75	10	133.3	45	600.0	9	120.0
18-19	135	13	96.3	95	714.3	13	99.2
Married	20	2	100.0	13	650.0	2	100.0
Unmarried	115	11	95.7	82	725.7	11	99.1
Hispanic⁵	843	75	89.0	488	585.8	102	123.5
15-17	269	28	104.1	138	518.8	41	155.3
Married	12	—	—	6	545.5	1	90.9
Unmarried	257	28	108.9	132	517.6	40	158.1
18-19	574	47	81.9	350	617.3	61	108.5
Married	101	4	39.6	60	600.0	6	60.6
Unmarried	473	43	90.9	290	621.0	55	118.8

— 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, 2014

County of residence	Total		Low weight births		First trimester care		Inadequate care ¹	
	Number	Rate ²	Number	Rate ³	Number	Rate ³	Number	Rate ³
Total	2,392	19.4	178	74.4	1,525	644.5	266	113.2
Baker	10	23.9	*	*	*	*	*	*
Benton	23	§ 5.3	1	43.5	13	565.2	2	87.0
Clackamas	130	§ 10.5	9	69.2	87	674.4	13	100.8
Clatsop	24	22.4	1	41.7	15	625.0	5	208.3
Columbia	29	19.4	—	—	17	586.2	4	137.9
Coos	41	23.2	1	24.4	25	609.8	2	48.8
Crook	21	§ 38.7	3	142.9	16	800.0	—	—
Curry	4	8.7	*	*	*	*	*	*
Deschutes	78	16.4	6	76.9	48	648.6	5	70.4
Douglas	99	§ 32.2	5	50.5	73	744.9	8	81.6
Gilliam	—	—	*	*	*	*	*	*
Grant	3	18.3	*	*	*	*	*	*
Harney	9	42.5	*	*	*	*	*	*
Hood River	24	§ 31.6	2	83.3	17	739.1	1	47.6
Jackson	152	§ 23.9	16	105.3	103	686.7	22	147.7
Jefferson	21	30.1	3	142.9	12	571.4	4	200.0
Josephine	54	24.1	3	55.6	37	685.2	3	55.6
Klamath	76	§ 36.7	6	78.9	56	746.7	9	123.3
Lake	8	40.4	*	*	*	*	*	*
Lane	207	§ 16.4	21	101.4	138	666.7	26	125.6
Lincoln	29	28.5	2	69.0	19	655.2	2	69.0
Linn	99	§ 26.1	4	40.4	78	804.1	5	52.1
Malheur	40	§ 38.5	4	100.0	17	425.0	7	175.0
Marion	305	§ 26.6	23	75.4	186	609.8	27	88.8
Morrow	15	35.8	2	133.3	6	400.0	2	133.3
Multnomah	395	19.3	27	68.4	240	609.1	57	144.7
Polk	50	16.3	4	80.0	37	770.8	3	63.8
Sherman	1	23.8	*	*	*	*	*	*
Tillamook	15	23.7	2	133.3	9	600.0	4	266.7
Umatilla	88	§ 32.9	5	56.8	64	744.2	2	§ 23.3
Union	16	17.7	1	62.5	12	750.0	2	125.0
Wallowa	3	19.2	*	*	*	*	*	*
Wasco	16	21.1	2	125.0	11	687.5	—	—
Washington	251	§ 14.6	19	75.7	130	§ 532.8	35	144.0
Wheeler	—	—	*	*	*	*	*	*
Yamhill	56	14.6	1	17.9	38	678.6	7	125.0

— 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 rate.

* 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, 2014

Birth outcomes	Total births	Mother's age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total births	45,557	20	79	183	349	680	1,101	2,392	43,142	3
Birthweight¹										
1499 grams or less										
<28 weeks	222	2	3	2	5	6	9	25	195	–
28-36 weeks	234	–	2	2	1	2	2	9	225	–
37-40 weeks	4	–	–	–	–	–	–	–	4	–
41+ weeks	–	–	–	–	–	–	–	–	–	–
Unknown	–	–	–	–	–	–	–	–	–	–
1500-2499 grams										
<28 weeks	–	–	–	–	–	–	–	–	–	–
28-36 weeks	1,504	2	2	5	15	21	41	84	1,418	–
37-40 weeks	871	–	3	5	9	16	27	60	810	1
41+ weeks	11	–	–	–	–	–	–	–	11	–
Unknown	1	–	–	–	–	–	–	–	1	–
2500+ grams										
<28 weeks	–	–	–	–	–	–	–	–	–	–
28-36 weeks	1,543	–	4	5	11	19	38	77	1,466	–
37-40 weeks	35,665	13	52	136	261	537	850	1,836	33,814	2
41+ weeks	5,469	3	13	27	46	79	132	297	5,169	–
Unknown	22	–	–	1	1	–	2	4	18	–
5 Minute apgar										
0-3	309	2	2	3	6	9	16	36	271	–
4-6	875	–	1	8	8	17	27	61	814	–
7-10	44,260	18	76	171	335	650	1,056	2,288	41,953	1
Not stated	113	–	–	1	–	4	2	7	104	2
Tobacco used										
Yes	4,709	4	9	25	43	110	212	399	4,306	–
No	40,700	16	70	156	306	568	885	1,985	38,698	1
Unknown	148	–	–	2	–	2	4	8	138	2
Alcohol used										
Yes	511	–	–	–	1	2	4	7	504	–
No	43,960	20	78	177	338	660	1,073	2,326	41,613	1
Not reported	867	–	1	5	9	17	23	55	812	–
Unknown	219	–	–	1	1	1	1	4	213	2
Birth order										
1 st	17,890	20	74	172	324	592	894	2,056	15,812	2
2 nd	14,784	–	5	9	24	79	179	296	14,487	1
3 rd	7,417	–	–	2	1	8	26	37	7,380	–
4 th	3,258	–	–	–	–	1	2	3	3,255	–
5+	2,208	–	–	–	–	–	–	–	2,208	–
Prenatal care										
No care	336	–	2	4	8	3	19	36	300	–
Little or late ²	2,356	7	20	24	32	69	85	230	2,119	–
Adequate ³	42,048	13	56	152	305	597	973	2,083	39,951	1
Unknown	817	–	1	3	4	11	24	43	772	2

– Quantity is zero.

¹ The birthweight was unknown for 11 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.

N.S. = Not stated.

TABLE 4-10. Demographic characteristics of mother by age, Oregon residents, 2014

Demographics of mother	Total births	Mother's age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total births	45,557	20	79	183	349	680	1,101	2,392	43,142	3
Ethnicity/race¹										
White	31,062	6	37	81	149	352	620	1,239	29,816	1
African American	948	–	5	4	6	25	35	75	873	–
American Indian	431	–	–	3	5	15	12	35	396	–
Asian	2,159	–	1	–	1	2	11	15	2,144	–
Native Hawaiian/Pacific Islander	304	1	2	–	2	5	8	17	286	–
Other and multiple races ² ...	2,134	3	5	12	29	38	84	168	1,961	2
Total Hispanic	8,519	10	29	83	157	243	331	843	7,666	–
Marital status										
Unmarried	16,349	20	77	179	322	595	888	2,061	14,268	–
Married	29,121	–	2	4	27	85	211	329	28,790	2
Unknown	87	–	–	–	–	–	2	2	84	1
Education										
8th grade or less	1,476	14	13	14	8	15	24	74	1,388	–
Some high school	5,072	6	65	154	277	316	325	1,137	3,929	–
High school graduate/GED	10,136	–	–	13	60	287	530	890	9,246	–
Some college	11,453	–	1	–	3	53	213	270	11,183	–
Associate's degree	3,673	–	–	–	–	1	7	8	3,665	–
Bachelor's degree	8,446	–	–	–	–	–	–	–	8,445	1
Postbaccalaureate	5,054	–	–	–	–	–	–	–	5,054	–
Unknown	247	–	–	2	1	8	2	13	232	2
Birth order										
1 st	17,890	20	74	172	324	592	894	2,056	15,812	2
2 nd	14,784	–	5	9	24	79	179	296	14,487	1
3 rd	7,417	–	–	2	1	8	26	37	7,380	–
4 th	3,258	–	–	–	–	1	2	3	3,255	–
5+	2,208	–	–	–	–	–	–	–	2,208	–
Unknown	–	–	–	–	–	–	–	–	–	–
Start of prenatal care										
1 st trimester	35,021	7	36	101	206	451	731	1,525	33,488	1
2 nd trimester	8,033	8	24	54	108	168	269	623	7,402	–
3 rd trimester	1,822	5	17	20	25	52	68	182	1,635	–
No care	336	–	2	4	8	3	19	36	300	–
Prenatal care										
Inadequate ³	2,692	7	22	28	40	72	104	266	2,419	–
Adequate	42,048	13	56	152	305	597	973	2,083	39,951	1
Source of payment										
Medicaid/OHP*	20,348	15	64	148	260	528	820	1,820	18,512	1
Private insurance	23,722	4	15	34	80	136	261	526	23,191	1
Self-pay	865	1	–	1	6	8	11	26	838	–
Other coverage	551	–	–	–	2	5	9	16	535	–
Unknown mention	71	–	–	–	1	3	–	4	66	1

– 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.

* Oregon Health Plan.

N.S. = Not stated.

TABLE 4-11. Demographic characteristics of abortion patients by age, Oregon residents, 2014

Demographics of patient	Total ¹	Patient's age								
		<15	15	16	17	18	19	15-19	20+	N.S.
Total abortions	7,684	20	56	95	127	249	294	821	6,644	199
Ethnicity/race										
Non-Hispanic White	5,310	13	36	60	96	160	170	522	4,654	121
Non-Hispanic African American	495	–	4	6	11	15	25	61	425	9
Non-Hispanic American Indian	175	–	6	2	2	6	11	27	143	5
Non-Hispanic Asian ²	285	–	–	3	2	3	8	16	260	9
Total Hispanic	968	6	9	23	15	45	62	154	778	30
Marital status										
Unmarried	5,166	17	46	75	111	193	228	653	4,390	106
Married	1,175	1	–	2	–	5	8	15	1,135	24
Unknown	1,343	2	10	18	16	51	58	153	1,119	69
Education										
8 th grade or less	147	12	5	4	2	–	2	13	114	8
9 th grade	98	5	24	11	2	3	3	43	47	3
10 th grade	206	1	15	48	25	6	9	103	100	2
11 th grade	551	–	1	10	65	52	26	154	376	21
12 th grade	2,274	1	–	6	16	122	138	282	1,937	54
Some college	2,022	–	1	1	1	20	60	83	1,893	46
College/postbaccalaureate	1,212	–	–	–	–	1	1	2	1,186	24
Unknown	1,174	1	10	15	16	45	55	141	991	41
Children now alive										
One	1,657	1	3	6	8	26	49	92	1,522	42
Two	1,353	–	–	–	1	6	9	16	1,303	34
Three	537	–	–	–	–	–	2	2	516	19
Four+	287	–	–	–	–	–	–	–	274	13
Unknown	345	–	4	6	6	16	21	53	280	12
Previous abortions										
None	4,493	20	54	86	107	214	235	696	3,660	117
One	1,768	–	–	2	12	27	40	81	1,646	41
Two	703	–	–	–	–	3	6	9	676	18
Three+	500	–	–	–	–	–	3	3	487	10
Unknown	220	–	2	7	8	5	10	32	175	13
Gestation										
Eight weeks or less	4,896	11	31	55	69	146	173	474	4,299	112
9-12	1,626	6	10	24	38	67	77	216	1,352	52
13-16	493	2	5	4	7	20	27	63	414	14
17+	411	1	9	7	6	11	11	44	360	6
Unknown	258	–	1	5	7	5	6	24	219	15
Contraceptive used										
None used	5,296	15	44	75	105	177	208	609	4,524	148
Pills used	658	2	2	4	8	28	30	72	565	19
Condom used	974	3	5	13	10	24	31	83	871	17
Other	579	–	3	2	4	11	15	35	530	14
Medical procedure										
Suction curettage	3,300	12	19	46	56	125	143	389	2,803	96
Medical (non-surgical)	2,387	5	20	23	34	73	90	240	2,085	57
Dilation & evacuation	1,948	3	17	26	35	50	61	189	1,713	43
Other specified	30	–	–	–	2	1	–	3	26	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, 2014

Father's age	Total	Mother's age								
		<15	15	16	17	18	19	20-24	25+	N.S.
Total	45,557	20	79	183	349	680	1,101	9,264	33,878	3
<15	3	1	1	–	–	–	–	–	1	–
15	23	–	9	8	4	1	–	1	–	–
16	55	4	9	17	9	9	7	–	–	–
17	129	1	8	25	42	28	9	12	4	–
18	267	–	9	29	50	86	54	34	5	–
19	477	–	1	11	56	118	139	138	14	–
20	613	–	2	7	32	80	154	308	30	–
21	846	–	1	8	14	72	129	557	65	–
22	1,113	–	–	4	12	49	107	817	124	–
23	1,318	–	–	1	4	16	82	971	244	–
24	1,568	–	–	1	7	13	65	1,058	424	–
25+	35,181	–	1	2	11	55	142	4,139	30,830	1
N.S.	3,964	14	38	70	108	153	213	1,229	2,137	2

– Quantity is zero.

N.S. = Not stated.

TABLE 4-13. Age of father by age of mother, Oregon residents, 2010-2014

Father's age	Total	Mother's age								
		<15	15	16	17	18	19	20-24	25+	N.S.
Total	226,484	115	498	1,200	2,231	4,056	6,497	48,663	163,215	9
<15	20	7	9	1	1	–	–	1	1	–
15	109	8	40	31	15	9	2	4	–	–
16	378	14	67	122	90	50	25	7	3	–
17	777	8	59	161	235	169	84	49	12	–
18	1,585	–	51	175	324	469	316	233	17	–
19	2,708	1	12	103	342	635	772	758	85	–
20	3,811	–	5	51	236	535	944	1,857	183	–
21	4,741	–	5	34	109	411	806	3,024	352	–
22	5,804	–	1	20	67	263	631	4,161	661	–
23	6,639	–	3	10	32	178	419	4,819	1,178	–
24	7,800	–	1	13	33	114	322	5,193	2,124	–
25+	171,827	–	5	9	65	331	916	21,979	148,520	2
N.S.	20,285	77	240	470	682	892	1,260	6,578	10,079	7

– Quantity is zero.

N.S. = Not stated.

APPENDIX A: POPULATION

Appendix A: Population

Table A-1. Population distribution by age and sex, Oregon, 1950-2000 (selected years), 2005-2014

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
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

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, 1950-2000 (selected years), 2005-2014																	
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+
2009	3,823,465	234,555	243,024	253,412	257,141	258,627	265,937	259,627	260,379	257,872	269,503	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	100,934
F	1,949,316	115,936	115,670	118,168	123,807	124,789	132,127	129,509	125,627	124,153	131,596	139,183	139,892	123,574	91,988	66,968	146,330
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
2014	3,962,710	240,540	235,498	242,326	252,453	254,730	270,814	268,298	264,242	257,039	259,236	264,602	268,604	251,574	207,292	154,903	270,560
M	1,956,552	123,383	120,028	124,193	129,241	129,120	136,436	135,162	133,061	129,181	129,306	130,475	130,498	121,669	99,299	73,469	112,030
F	2,006,158	117,157	115,470	118,132	123,212	125,611	134,378	133,136	131,181	127,859	129,930	134,127	138,105	129,904	107,993	81,435	158,530

Table A-2. Population by age and sex for Oregon and its counties: July 1, 2014

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	3,962,710	240,540	235,498	242,326	148,155	104,299	254,730	270,814	268,298	264,242	257,039	259,236	264,602	268,604	251,574	207,292	154,903	109,835	78,444	82,281
BAKER	16,325	886	798	903	625	292	605	754	799	853	875	987	1,140	1,329	1,404	1,310	1,055	735	517	458
BENTON	88,740	3,573	3,907	4,375	3,174	5,663	13,816	6,398	5,077	4,506	4,432	4,797	5,235	5,591	5,169	4,239	3,078	2,287	1,607	1,816
CLATSOP	391,525	21,550	23,994	26,405	16,445	9,228	20,223	21,844	22,897	24,879	26,606	28,463	29,331	29,509	26,776	21,105	15,266	10,663	7,555	8,787
COLUMBIA	37,495	2,135	1,983	2,102	1,339	952	2,136	2,045	2,175	2,201	2,129	2,401	2,563	3,054	2,977	2,617	1,780	1,227	866	810
COOS	50,075	2,718	2,947	3,429	2,059	1,105	2,311	2,418	3,104	3,119	3,507	3,540	3,930	3,894	3,724	2,965	2,063	1,473	890	878
CROOK	62,900	3,402	3,087	3,288	2,140	1,441	2,885	3,102	3,403	3,254	3,295	3,804	4,379	5,025	5,247	4,800	3,955	2,796	1,943	1,655
CURRY	20,780	1,045	1,137	1,269	765	365	835	884	1,070	1,059	1,163	1,331	1,460	1,620	1,792	1,697	1,313	884	574	517
DESCHUTES	22,355	834	809	996	659	332	728	870	859	1,014	1,016	1,322	1,569	1,994	2,375	2,254	1,879	1,219	848	777
DOUGLAS	166,400	10,160	10,326	10,721	6,262	3,573	8,356	10,048	10,585	11,331	11,236	11,234	11,367	11,425	11,526	9,796	7,223	4,736	3,293	3,201
GILLIAM	109,385	5,672	5,544	6,205	4,058	2,401	5,203	5,209	5,735	6,623	5,957	6,623	7,568	8,441	8,857	8,054	6,639	4,879	3,378	3,329
GRANT	1,975	108	75	105	69	24	57	72	100	84	111	132	156	184	185	164	121	81	64	82
HARNEY	7,425	317	315	401	247	117	249	282	345	365	358	447	506	649	689	677	528	405	255	273
HOOD RIVER	7,265	392	404	435	316	161	278	358	401	383	391	450	502	579	605	542	399	304	182	183
JACKSON	23,730	1,504	1,658	1,704	1,028	566	1,229	1,419	1,481	1,541	1,713	1,717	1,770	1,684	1,358	1,093	724	603	421	518
JEFFERSON	208,375	12,250	11,412	12,634	7,697	4,996	11,824	11,871	12,005	11,972	12,270	13,042	14,060	15,128	15,093	13,124	10,228	7,548	5,471	5,751
JOSEPHINE	22,205	1,517	1,316	1,516	922	507	1,157	1,267	1,252	1,267	1,357	1,510	1,499	1,608	1,588	1,382	1,078	680	450	313
KLAMATH	83,105	4,208	4,180	4,838	3,047	1,737	3,670	3,836	4,268	4,176	4,411	5,017	5,653	6,263	7,014	6,295	5,246	3,785	2,682	2,779
LAKE	66,910	3,916	3,712	4,069	2,549	1,738	4,012	3,646	3,690	3,754	3,837	4,265	4,486	5,023	4,935	4,425	3,395	2,490	1,573	1,395
LANE	7,990	358	340	413	312	106	286	346	441	442	538	552	627	657	707	645	464	363	213	181
LANE	358,805	17,703	17,841	19,493	12,917	12,361	31,136	24,636	22,983	21,100	21,093	21,844	23,382	25,132	24,074	20,369	15,538	10,772	8,042	8,391
LINCOLN	46,890	2,345	1,991	2,173	1,402	839	1,882	2,171	2,423	2,399	2,428	2,784	3,382	4,175	4,587	4,178	3,150	2,058	1,349	1,174
LINN	119,705	7,802	7,607	8,030	4,718	2,979	6,825	7,275	7,394	7,520	7,107	7,717	7,871	8,359	7,782	6,759	5,171	3,664	2,620	2,509
MALHEUR	31,470	2,295	2,110	2,133	1,272	925	2,053	2,057	1,998	1,974	1,914	1,901	1,914	1,892	1,768	1,604	1,284	966	657	753
MARION	326,150	24,073	23,347	23,001	14,011	9,652	22,015	22,328	21,531	20,607	19,961	19,991	20,191	19,955	18,316	14,916	11,454	8,247	6,123	6,434
MORROW	11,525	769	849	917	554	321	613	657	648	738	685	726	787	768	777	590	463	312	190	159
MULTNOMAH	765,775	47,071	41,896	39,798	23,151	18,209	54,120	70,811	68,714	64,081	56,970	51,788	49,685	47,480	40,987	30,970	21,615	15,079	11,007	12,344
POLK	77,735	5,098	5,000	5,441	3,238	2,839	5,982	4,641	4,390	4,613	4,617	4,606	4,807	4,920	4,686	4,080	3,127	2,387	1,651	1,614
SHERMAN	1,785	101	85	100	60	29	64	76	101	103	85	124	130	129	162	122	114	89	60	51
TILLAMOOK	25,480	1,462	1,296	1,417	896	497	1,024	1,191	1,266	1,371	1,400	1,504	1,832	2,125	2,218	2,082	1,548	1,071	723	558
UMATILLA	78,340	5,834	5,639	5,618	3,408	2,184	4,973	5,270	4,993	5,078	4,898	4,900	4,946	5,017	4,444	3,657	2,716	1,948	1,450	1,366
UNION	26,485	1,749	1,638	1,602	1,037	912	1,826	1,562	1,348	1,411	1,402	1,538	1,677	1,855	1,828	1,586	1,232	907	649	727
WALLOWA	7,070	419	380	360	214	98	217	262	363	309	371	399	496	604	657	613	476	332	246	252
WASCO	26,105	1,715	1,595	1,622	1,042	601	1,349	1,494	1,504	1,498	1,494	1,526	1,726	1,848	1,911	1,594	1,207	918	624	836
WASHINGTON	560,465	38,969	39,426	37,645	22,120	13,050	33,799	43,543	42,675	43,001	40,777	39,596	37,132	34,000	29,095	21,744	15,607	11,011	8,186	9,090
WHEELER	1,440	71	55	77	55	20	36	58	65	69	55	84	92	133	115	148	102	94	58	51
YAMHILL	102,525	6,520	6,798	7,092	4,346	3,479	6,956	6,114	6,213	6,520	6,581	6,574	6,748	6,557	6,148	5,096	3,664	2,822	2,027	2,270

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, 2014

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	1,956,552	117,157	115,470	118,132	71,981	51,232	125,611	134,378	133,136	131,181	127,859	129,930	134,127	138,105	129,904	107,993	81,435	59,943	45,061	53,526
BAKER	8,270	466	385	450	288	130	284	348	363	384	418	466	582	673	719	646	539	359	276	280
BENTON	44,322	1,801	2,040	2,139	1,544	2,825	6,391	2,905	2,501	2,260	2,234	2,457	2,721	2,874	2,632	2,201	1,590	1,235	917	1,152
CLACKAMAS	192,046	10,261	11,813	12,740	8,064	4,374	9,841	10,844	11,535	12,596	13,513	14,495	14,950	15,174	13,817	11,012	8,164	5,897	4,468	5,921
CLATSOP	18,616	1,132	979	1,082	615	455	998	992	1,012	1,082	1,044	1,196	1,298	1,579	1,524	1,349	886	642	499	514
COLUMBIA	25,051	1,313	1,452	1,618	979	520	1,107	1,215	1,562	1,587	1,754	1,769	1,971	1,943	1,897	1,428	1,064	770	510	565
COOS	31,067	1,654	1,542	1,619	1,071	700	1,421	1,527	1,684	1,589	1,652	1,895	2,209	2,592	2,699	2,487	2,018	1,454	1,059	961
CROOK	10,272	501	562	610	371	172	405	455	551	538	593	696	730	866	924	835	637	458	290	315
CURRY	11,072	388	389	465	310	149	345	413	428	506	558	672	815	1,007	1,241	1,110	966	621	433	468
DESCHUTES	82,144	4,938	5,027	5,194	3,024	1,721	4,100	4,988	5,295	5,671	5,697	5,755	5,876	6,100	5,954	4,990	3,588	2,522	1,761	2,057
DOUGLAS	54,009	2,739	2,751	3,010	1,957	1,115	2,527	2,615	2,831	2,853	3,026	3,359	3,830	4,372	4,480	4,066	3,355	2,582	1,816	2,093
GILLIAM	1,021	47	41	42	31	9	22	32	43	33	51	64	70	101	81	92	59	43	35	58
GRANT	3,676	166	163	209	114	49	127	140	169	175	195	225	279	324	355	315	249	195	139	161
HARNEY	3,685	180	192	215	138	74	128	199	187	198	206	238	251	289	291	250	188	146	98	111
HOOD RIVER	11,902	749	761	830	506	254	561	687	739	758	889	846	892	827	658	556	373	321	257	364
JACKSON	101,519	5,995	5,632	6,222	3,827	2,528	5,962	5,877	6,092	5,915	6,187	6,581	7,202	7,855	7,941	6,840	5,318	4,095	3,126	3,662
JEFFERSON	11,642	697	656	725	455	243	532	599	564	571	625	702	718	759	793	678	485	332	235	193
JOSEPHINE	40,414	2,075	2,075	2,402	1,429	814	1,846	1,840	2,129	2,057	2,251	2,558	2,938	3,323	3,661	3,294	2,706	2,033	1,498	1,760
KLAMATH	33,202	1,959	1,760	2,024	1,233	836	1,983	1,819	1,838	1,871	1,911	2,138	2,290	2,574	2,502	2,225	1,728	1,288	855	873
LAKE	4,301	195	159	215	151	47	124	158	175	189	221	235	295	287	350	292	210	178	111	96
LANE	176,120	8,733	8,834	9,449	6,269	4,318	14,994	12,128	11,244	10,546	10,534	11,123	12,055	13,187	12,454	10,753	8,171	5,799	4,655	5,438
LINCOLN	22,812	1,166	969	1,085	632	384	874	1,049	1,190	1,147	1,264	1,410	1,796	2,249	2,448	2,216	1,614	1,113	721	752
LINN	59,013	3,694	3,670	3,937	2,334	1,456	3,458	3,671	3,760	3,759	3,557	3,889	3,979	4,247	3,990	3,496	2,740	2,006	1,449	1,599
MALHEUR	17,040	1,111	1,023	1,071	609	429	840	835	799	798	786	820	816	904	813	804	666	492	365	450
MARION	161,856	11,593	11,422	11,156	6,793	4,666	10,599	10,952	10,463	10,269	9,824	9,974	10,194	10,266	9,544	7,997	6,131	4,614	3,586	4,249
MORROW	5,914	365	426	448	275	144	275	299	328	351	333	343	393	392	368	304	234	154	87	91
MULTNOMAH	377,746	22,990	20,550	19,462	11,318	9,186	27,891	35,984	34,328	31,523	27,864	25,461	24,782	23,888	20,964	16,355	11,764	8,630	6,692	8,395
POLK	37,767	2,519	2,399	2,683	1,560	1,512	3,094	2,352	2,260	2,360	2,368	2,292	2,512	2,586	2,452	2,165	1,644	1,298	919	994
SHERMAN	908	53	43	48	27	15	30	43	46	42	42	58	65	66	75	63	63	44	34	22
TILLAMOOK	12,842	724	648	671	426	207	467	554	612	664	667	741	936	1,084	1,126	1,067	770	554	392	329
UMATILLA	41,017	2,794	2,853	2,707	1,644	1,034	2,189	2,292	2,195	2,305	2,215	2,275	2,367	2,387	2,198	1,837	1,334	1,033	812	852
UNION	13,088	850	777	801	460	443	967	738	663	733	675	826	853	928	929	788	608	496	373	488
WALLOWA	3,418	224	211	193	108	48	119	131	195	149	190	224	256	327	324	312	211	163	126	142
WASCO	12,927	871	787	827	479	279	671	709	748	740	747	786	871	940	951	766	616	494	362	533
WASHINGTON	273,859	19,070	19,168	18,283	10,817	6,347	16,976	22,097	21,573	21,760	20,527	20,089	18,895	17,702	15,503	11,699	8,764	6,314	4,924	6,098
WHEELER	716	30	25	39	23	5	18	25	22	37	31	49	50	69	66	67	59	47	31	32
YAMHILL	51,276	3,112	3,286	3,462	2,101	1,747	3,447	2,866	3,013	3,166	3,210	3,224	3,389	3,363	3,179	2,635	1,921	1,519	1,150	1,459

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, 2014

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	2,006,158	117,157	115,470	118,132	71,981	51,232	125,611	134,378	133,136	131,181	127,859	129,930	134,127	138,105	129,904	107,993	81,435	59,943	45,061	53,526
BAKER	8,055	466	385	450	288	130	284	348	363	384	418	466	582	673	719	646	539	276	359	280
BENTON	44,418	1,801	2,040	2,139	1,544	2,825	6,391	2,905	2,501	2,260	2,234	2,457	2,721	2,874	2,632	2,201	1,590	1,235	917	1,152
BLACKAMAS	199,479	10,261	11,813	12,740	8,064	4,374	9,841	10,844	11,535	12,596	13,513	14,495	14,950	15,174	13,817	11,012	8,164	5,897	4,468	5,921
CLATSOP	18,879	1,132	979	1,082	615	455	998	992	1,012	1,082	1,044	1,196	1,298	1,579	1,524	1,349	886	642	499	514
COLUMBIA	25,024	1,313	1,452	1,618	979	520	1,107	1,215	1,562	1,587	1,754	1,769	1,971	1,943	1,897	1,428	1,064	770	510	565
COOS	31,833	1,654	1,542	1,619	1,071	700	1,421	1,527	1,684	1,589	1,652	1,895	2,209	2,592	2,699	2,487	2,018	1,454	1,059	961
CROOK	10,508	501	562	610	371	172	405	455	551	538	593	696	730	866	924	835	637	458	290	315
CURRY	11,283	388	389	465	310	149	345	413	428	506	558	672	815	1,007	1,241	1,110	966	621	433	468
DESCHUTES	84,256	4,938	5,027	5,194	3,024	1,721	4,100	4,988	5,295	5,671	5,697	5,755	5,876	6,100	5,954	4,990	3,588	2,522	1,761	2,057
DOUGLAS	55,376	2,739	2,751	3,010	1,957	1,115	2,527	2,615	2,831	2,853	3,026	3,359	3,730	4,372	4,480	4,066	3,355	2,582	1,816	2,093
GILLIAM	954	47	41	42	31	9	22	32	43	33	51	64	70	101	81	92	59	43	35	58
GRANT	3,749	166	163	209	114	49	127	140	169	175	195	225	279	324	355	315	249	195	139	161
HARNEY	3,580	180	192	215	138	74	128	199	187	198	206	238	251	289	291	250	188	146	98	111
HOOD RIVER	11,828	749	761	830	506	254	561	687	739	758	889	846	892	827	658	556	373	321	257	364
JACKSON	106,856	5,995	5,632	6,222	3,827	2,528	5,962	5,877	6,092	5,915	6,187	6,581	7,202	7,855	7,941	6,840	5,318	4,095	3,126	3,662
JEFFERSON	10,563	697	656	725	455	243	532	599	564	571	625	702	718	759	793	678	485	332	235	193
JOSEPHINE	42,691	2,075	2,075	2,402	1,429	814	1,846	1,840	2,129	2,057	2,251	2,558	2,938	3,323	3,661	3,294	2,706	2,033	1,498	1,760
KLAMATH	33,708	1,959	1,760	2,024	1,233	836	1,983	1,819	1,838	1,871	1,911	2,138	2,290	2,574	2,502	2,225	1,728	1,288	855	873
LAKE	3,689	195	159	215	151	47	124	158	175	189	221	235	295	287	350	292	210	178	111	96
LANE	182,685	8,733	8,834	9,449	6,269	6,318	14,994	12,128	11,244	10,546	10,534	11,123	12,055	13,187	12,454	10,753	8,171	5,799	4,655	5,438
LINCOLN	24,078	1,166	969	1,085	632	384	874	1,049	1,190	1,147	1,264	1,410	1,796	2,249	2,448	2,216	1,614	1,113	721	752
LINN	60,692	3,694	3,670	3,937	2,334	1,456	3,458	3,671	3,760	3,759	3,557	3,889	3,979	4,247	3,990	3,496	2,740	2,006	1,449	1,599
MALHEUR	14,430	1,111	1,023	1,071	609	429	840	835	799	798	786	820	816	904	813	804	666	492	365	450
MARION	164,294	11,593	11,422	11,156	6,793	4,666	10,599	10,952	10,463	10,269	9,824	9,974	10,194	10,266	9,544	7,997	6,131	4,614	3,586	4,249
MORROW	5,611	365	426	448	275	144	275	299	328	351	333	343	393	392	368	304	234	154	87	91
MULTNOMAH	388,029	22,990	20,550	19,462	11,318	9,186	27,891	35,984	34,328	31,523	27,864	25,461	24,782	23,888	20,964	16,355	11,764	8,630	6,692	8,395
POLK	39,968	2,519	2,399	2,683	1,560	1,512	3,094	2,352	2,260	2,360	2,368	2,292	2,512	2,586	2,452	2,165	1,644	1,298	919	994
SHERMAN	877	53	43	48	27	15	30	43	46	42	42	58	65	66	75	63	63	44	34	22
TILLAMOOK	12,638	724	648	671	426	207	467	554	612	664	667	741	936	1,084	1,126	1,067	770	554	392	329
UMATILLA	37,323	2,794	2,853	2,707	1,644	1,034	2,189	2,292	2,195	2,305	2,215	2,275	2,367	2,387	2,198	1,837	1,334	1,033	812	852
UNION	13,397	850	777	801	460	443	967	738	663	733	675	826	853	928	929	788	608	496	373	488
WALLOWA	3,652	224	211	193	108	48	119	131	195	149	190	224	256	327	324	312	211	163	126	142
WASCO	13,178	871	787	827	479	279	671	709	748	740	747	786	871	940	951	766	616	494	362	533
WASHINGTON	286,606	19,070	19,168	18,283	10,817	6,347	16,976	22,097	21,573	21,760	20,527	20,089	18,895	17,702	15,503	11,699	8,764	6,314	4,924	6,098
WHEELER	724	30	25	39	23	5	18	25	22	37	31	49	50	69	66	67	59	47	31	32
YAMHILL	51,249	3,112	3,286	3,462	2,101	1,747	3,447	2,866	3,013	3,166	3,210	3,224	3,389	3,363	3,179	2,635	1,921	1,519	1,150	1,459

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.

The crude death rate increased between 1950 and 1960 from 9.1 to 9.5 deaths per 1,000 population.

But, an examination of the age-specific death rates for each

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

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

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

Step 4: Analyzing the data

The first three steps have been fairly mechanical:

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

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

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

Help

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

Endnote

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

Appendix B: Technical notes - formulas

GENERAL:

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

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

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

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

PREGNANCY:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DEATHS:

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

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

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

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

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

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

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

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

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

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

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

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

MARRIAGE AND DIVORCE:

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

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

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

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

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

CALCULATING CONFIDENCE INTERVALS FOR RATES:

Confidence limits for rates based on less than 100 events

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

Lower Limit = R x L

Upper Limit = R x U

where:

R = the rate

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

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

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

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

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

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

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

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

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

Confidence limits for rates based on 100 or more events

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

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

where:

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

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

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

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

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

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

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

DETERMINING STATISTICAL SIGNIFICANCE FOR RATES:

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

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

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

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

Baker County teen pregnancy rate for age 10-17

Lower Limit = 6.7

Upper Limit = 22.7

Jackson County teen pregnancy rate for age 10-17

Lower Limit = 11.5

Upper Limit = 16.0

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

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

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

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

where:

R_1 = the first rate

R_2 = the second rate

N_1 = the first number

N_2 = the second number

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

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

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

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

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

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

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

$$1.96 \sqrt{0.194}$$

$$= 1.96 \times .44$$

$$= 0.86$$

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

CALCULATING RATES ADJUSTED FOR SEX/AGE/RACE:

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

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

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

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

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

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

REFERENCES

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

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

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

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

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APPENDIX D: SAMPLE FORMS

Appendix D: Sample forms — Certificate of Live Birth



CERTIFICATE OF LIVE BIRTH

136-

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

State File Number

CHILD	1. CHILD — NAME (First, Middle, Other Middle, Last, Suffix)			
	2. SEX	3a. DATE OF BIRTH (Month, Day, Year)	3b. TIME OF BIRTH	4a. COUNTY OF BIRTH
	4b. FACILITY OF BIRTH		4c. CITY, TOWN, OR LOCATION OF BIRTH	
MOTHER	5a. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)		5b. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix)	
	5c. MOTHER'S RESIDENCE — STATE	5d. COUNTY	5e. CITY, TOWN, OR LOCATION	
	5f. STREET AND NUMBER			5g. ZIP CODE
	6a. DATE OF BIRTH (Month, Day, Year)	6b. BIRTHPLACE (State, Territory, or Foreign Country)		
FATHER/ SECOND PARENT	7. FATHER/SECOND PARENT'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)			
	8a. DATE OF BIRTH (Month, Day, Year)	8b. BIRTHPLACE (State, Territory, or Foreign Country)		
INFORMANT	9a. INFORMANT'S NAME		9b. INFORMANT'S RELATIONSHIP TO CHILD	
	9c. INFORMANT'S SIGNATURE — I certify that the personal information provided on this certificate is correct to the best of my knowledge and belief. SIGNATURE			
CERTIFIER	10a. CERTIFIER'S NAME	10b. CERTIFIER'S TITLE	10c. CERTIFIER'S ADDRESS	
	10d. CERTIFIER'S SIGNATURE — I certify that this child was born alive at the place, time and date stated. SIGNATURE			10e. DATE SIGNED (Month, Day, Year)
	11a. REGISTRAR'S SIGNATURE	11b. DATE FILED (Month, Day, Year)		

MOTHER	12a. WAS HOME DELIVERY PLANNED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		12b. IS ADOPTION/LEGAL PROCEEDING EXPECTED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
	13. MOTHER'S MAILING ADDRESS — <input type="checkbox"/> Check if same as Mother's residence, OR:			
	13a. STATE	13b. CITY, TOWN, OR LOCATION	13c. STREET AND NUMBER	13d. ZIP CODE
SSN	14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD? <input type="checkbox"/> Yes <input type="checkbox"/> No		14c. FATHER/SECOND PARENT'S — Social Security Number <input type="checkbox"/> Check if none	
	14b. MOTHER'S — Social Security Number <input type="checkbox"/> Check if none		14d. FATHER/SECOND PARENT'S — Social Security Number <input type="checkbox"/> Check if none	
PARENTAGE	15a. MOTHER MARRIED — at conception, at delivery, or within 300 days prior to birth of the child? <input type="checkbox"/> Yes <input type="checkbox"/> No			
	15b. MOTHER IN OREGON REGISTERED DOMESTIC PARTNERSHIP — at conception, at delivery, or within 300 days prior to birth of the child? <input type="checkbox"/> Yes <input type="checkbox"/> No			
MOTHER	15c. PATERNITY ACKNOWLEDGMENT — If answers to 15a and 15b are "no", has a paternity acknowledgment been signed? <input type="checkbox"/> Yes <input type="checkbox"/> No			
	16. EDUCATION (Check highest grade completed)			
	<input type="checkbox"/> 8th grade or less <input type="checkbox"/> High school diploma or GED <input type="checkbox"/> Associate's degree <input type="checkbox"/> Master's degree <input type="checkbox"/> Unknown <input type="checkbox"/> 9th–12th grade; no diploma <input type="checkbox"/> Some college credit but no degree <input type="checkbox"/> Bachelor's degree <input type="checkbox"/> Doctorate or Professional degree			
	17. HISPANIC ORIGIN (Check all that apply)			
FATHER/ SECOND PARENT	18. RACE (Check all that apply)			
	<input type="checkbox"/> White <input type="checkbox"/> Asian Indian <input type="checkbox"/> Korean <input type="checkbox"/> Guamanian or Chamorro <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Black or African American <input type="checkbox"/> Chinese <input type="checkbox"/> Vietnamese <input type="checkbox"/> Samoan <input type="checkbox"/> Unknown <input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Filipino <input type="checkbox"/> Other Asian (specify): _____ (specify tribe(s)): _____ <input type="checkbox"/> Japanese <input type="checkbox"/> Native Hawaiian <input type="checkbox"/> Other Pacific Islander (specify): _____			
MOTHER	19. EDUCATION (Check highest grade completed)			
	<input type="checkbox"/> 8th grade or less <input type="checkbox"/> High school diploma or GED <input type="checkbox"/> Associate's degree <input type="checkbox"/> Master's degree <input type="checkbox"/> Unknown <input type="checkbox"/> 9th–12th grade; no diploma <input type="checkbox"/> Some college credit but no degree <input type="checkbox"/> Bachelor's degree <input type="checkbox"/> Doctorate or Professional degree			
	20. HISPANIC ORIGIN (Check all that apply)			
FATHER/ SECOND PARENT	21. RACE (Check all that apply)			
	<input type="checkbox"/> White <input type="checkbox"/> Asian Indian <input type="checkbox"/> Korean <input type="checkbox"/> Guamanian or Chamorro <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Black or African American <input type="checkbox"/> Chinese <input type="checkbox"/> Vietnamese <input type="checkbox"/> Samoan <input type="checkbox"/> Unknown <input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Filipino <input type="checkbox"/> Other Asian (specify): _____ (specify tribe(s)): _____ <input type="checkbox"/> Japanese <input type="checkbox"/> Native Hawaiian <input type="checkbox"/> Other Pacific Islander (specify): _____			
MOTHER	22. DID MOTHER GET WIC FOOD? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	23. MOTHER'S HEIGHT (feet/inches)	24a. MOTHER'S WEIGHT (Pre-pregnancy) (pounds)	24b. MOTHER'S WEIGHT (At delivery) (pounds)
	25. CIGARETTE SMOKING BEFORE AND DURING PREGNANCY		26. ALCOHOL USE DURING THIS PREGNANCY? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	3 months before pregnancy # _____ Cigarettes 2nd 3 months of pregnancy # _____ Cigarettes 1st 3 months of pregnancy # _____ Cigarettes 3rd 3 months of pregnancy # _____ Cigarettes		If yes, average number of drinks per week?	
	27. MOTHER'S MEDICAL RECORD # (optional)	28. MOTHER'S MEDICAID #	29. DATE OF LAST MENSES (Month, Day, Year)	
30. PRINCIPAL METHOD OF PAYMENT			31a. DATE OF 1st PRENATAL CARE VISIT (Month, Day, Year) <input type="checkbox"/> Check if none	
<input type="checkbox"/> Medicaid/Oregon Health Plan <input type="checkbox"/> Self-pay <input type="checkbox"/> Champus/Tricare <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Private insurance <input type="checkbox"/> Indian Health Services <input type="checkbox"/> Other government <input type="checkbox"/> Unknown				
31b. TOTAL # OF PRENATAL CARE VISITS	32a. PREVIOUS LIVE BIRTHS (# now living)	32b. PREVIOUS LIVE BIRTHS (# now dead)	32c. DATE OF LAST LIVE BIRTH (Month, Year)	

SPACE ABOVE MUST BE LEFT BLANK

33. OTHER PREGNANCY OUTCOMES (Spontaneous and Induced terminations, ectopic pregnancies)		34. MOTHER TESTED FOR HIV?	
33a. COMBINED # OTHER OUTCOMES	33b. DATE OF LAST OTHER OUTCOME (Month, Year)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
35. PREGNANCY RISK FACTORS (Check all that apply)			
<input type="checkbox"/> Diabetes — Gestational <input type="checkbox"/> Diabetes — Pre-pregnancy <input type="checkbox"/> Hypertension — Pre-pregnancy (Chronic) <input type="checkbox"/> Hypertension — Gestational		<input type="checkbox"/> Hypertension — Eclampsia <input type="checkbox"/> Previous Preterm Births (<37 completed weeks gestation) <input type="checkbox"/> Pregnancy resulted from infertility treatment — fertility-enhancing drugs <input type="checkbox"/> Pregnancy resulted from infertility treatment — assisted reproductive technology	
		<input type="checkbox"/> Mother had a previous cesarean delivery How many? _____	
		<input type="checkbox"/> None of the above	
36. MOTHER TESTED FOR: (Check all that apply)	37. INFECTIONS PRESENT and/or TREATED (Check all that apply)	38. OBSTETRIC PROCEDURES (Check all that apply)	39. ONSET OF LABOR
<input type="checkbox"/> Syphilis <input type="checkbox"/> Group B Strep	<input type="checkbox"/> Gonorrhea <input type="checkbox"/> Hepatitis B <input type="checkbox"/> Syphilis <input type="checkbox"/> Hepatitis C <input type="checkbox"/> Chlamydia <input type="checkbox"/> None of the above	<input type="checkbox"/> Cervical cerclage <input type="checkbox"/> Tocolysis <input type="checkbox"/> External cephalic version successful <input type="checkbox"/> External cephalic version failed <input type="checkbox"/> None of the above	<input type="checkbox"/> Premature rupture ≥ 12 hours <input type="checkbox"/> Precipitous labor < 3 hours <input type="checkbox"/> Prolonged labor ≥ 20 hours <input type="checkbox"/> None of the above
40. CHARACTERISTICS OF LABOR AND DELIVERY (Check all that apply)			
<input type="checkbox"/> Induction of labor <input type="checkbox"/> Steroids for fetal lung maturation prior to delivery <input type="checkbox"/> Augmentation of labor <input type="checkbox"/> Antibiotics during labor		<input type="checkbox"/> Clinical chorioamnionitis diagnosed during labor or maternal temp. ≥ 38°C <input type="checkbox"/> Unknown <input type="checkbox"/> Epidural or spinal anesthesia during labor <input type="checkbox"/> None of the above	
41. METHOD OF DELIVERY			
41a. FETAL PRESENTATION AT DELIVERY	41b. FINAL ROUTE AND METHOD OF DELIVERY		
<input type="checkbox"/> Cephalic <input type="checkbox"/> Other <input type="checkbox"/> Breech <input type="checkbox"/> Unknown	<input type="checkbox"/> Vaginal/spontaneous <input type="checkbox"/> Vaginal/vacuum <input type="checkbox"/> Unknown <input type="checkbox"/> Vaginal/forceps <input type="checkbox"/> Cesarean — If Cesarean, was a trial of labor attempted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
42. MATERNAL MORBIDITY (Check all that apply)			
<input type="checkbox"/> Maternal transfusion <input type="checkbox"/> 3rd or 4th degree perineal laceration		<input type="checkbox"/> Ruptured uterus <input type="checkbox"/> Admission to intensive care unit <input type="checkbox"/> None of the above <input type="checkbox"/> Unplanned hysterectomy <input type="checkbox"/> Unplanned operating room procedure following delivery <input type="checkbox"/> Unknown at this time	
43. MOTHER TRANSFERRED TO THIS FACILITY PRIOR TO DELIVERY?		44. INFANT TRANSFERRED FROM THIS FACILITY AFTER DELIVERY?	
<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, name of facility: _____		<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, name of facility: _____	
45. INFANT'S MEDICAL RECORD # (optional)	46. BIRTH WEIGHT _____ lbs./oz. OR _____ g	47. APGAR _____ 5 min. _____ 10 min.	48. OBSTETRIC ESTIMATE OF GESTATION (weeks)
49. PLURALITY (Single, Twin, Triplet, etc.)	50. BIRTH ORDER (1st, 2nd, 3rd, 4th, etc.)	51. NUMBER BORN ALIVE THIS DELIVERY	52. INFANT ALIVE AT TIME OF REPORT? <input type="checkbox"/> Yes <input type="checkbox"/> No
53. INFANT BREASTFED AT DISCHARGE? <input type="checkbox"/> Yes <input type="checkbox"/> No	54. ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply)		
	<input type="checkbox"/> Assisted ventilation required immediately <input type="checkbox"/> Antibiotics received by newborn for suspected neonatal sepsis <input type="checkbox"/> Assisted ventilation for more than 6 hours <input type="checkbox"/> Seizure/serious neurologic dysfunction <input type="checkbox"/> NICU Admission <input type="checkbox"/> Other significant birth injury <input type="checkbox"/> Newborn given surfactant replacement therapy <input type="checkbox"/> None of the above		
55. CONGENITAL ANOMALIES (Check all that apply)			
<input type="checkbox"/> Anencephaly <input type="checkbox"/> Meningocele/Spina bifida <input type="checkbox"/> Cyanotic congenital heart disease <input type="checkbox"/> Congenital diaphragmatic hernia <input type="checkbox"/> Omphalocele <input type="checkbox"/> Gastroschisis		<input type="checkbox"/> Limb reduction defect <input type="checkbox"/> Cleft lip with or without cleft palate <input type="checkbox"/> Cleft palate alone <input type="checkbox"/> Down Syndrome, karyotype confirmed <input type="checkbox"/> Down Syndrome, karyotype pending <input type="checkbox"/> Down Syndrome, karyotype unknown	
		<input type="checkbox"/> Suspected chromosomal disorder, karyotype confirmed <input type="checkbox"/> Suspected chromosomal disorder, karyotype pending <input type="checkbox"/> Suspected chromosomal disorder, karyotype unknown <input type="checkbox"/> Hypospadias <input type="checkbox"/> None of the anomalies listed above	
56a. WAS HEARING TEST PERFORMED? <input type="checkbox"/> Inpatient <input type="checkbox"/> Refused <input type="checkbox"/> Missed <input type="checkbox"/> Outpatient <input type="checkbox"/> Transfer	56b. TEST DATE (Month, Day, Year)	56c. TEST RESULTS — Left ear <input type="checkbox"/> Pass <input type="checkbox"/> Equipment failure <input type="checkbox"/> Refer <input type="checkbox"/> Physical condition Equipment type used: <input type="checkbox"/> A-ABR <input type="checkbox"/> OAE	56d. TEST RESULTS — Right ear <input type="checkbox"/> Pass <input type="checkbox"/> Equipment failure <input type="checkbox"/> Refer <input type="checkbox"/> Physical condition Equipment type used: <input type="checkbox"/> A-ABR <input type="checkbox"/> OAE
57a. DID INFANT RECEIVE HEPATITIS B VACCINE? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused	57b. DATE ADMINISTERED (Month, Day, Year)	57c. MANUFACTURER <input type="checkbox"/> Glaxo <input type="checkbox"/> Merck <input type="checkbox"/> Other	57d. LOT NUMBER
58. MOTHER HBsAg+? <input type="checkbox"/> Positive <input type="checkbox"/> Negative <input type="checkbox"/> Unknown <input type="checkbox"/> Not screened			
59a. DID INFANT RECEIVE HEPATITIS B IMMUNE GLOBULIN (HBIG)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Refused	59b. DATE ADMINISTERED (Month, Day, Year)	59c. MANUFACTURER <input type="checkbox"/> Glaxo <input type="checkbox"/> Merck <input type="checkbox"/> Other	59d. LOT NUMBER

MOTHER

NEWBORN

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



REPORT OF INDUCED TERMINATION OF PREGNANCY

Information is PRIVATE and CONFIDENTIAL

STATE FILE NUMBER _____


TO BE COMPLETED BY PATIENT	1. Patient's ID number: _____ <small>(Patient ID/Facility Chart/Case No.)</small>		2. Date termination performed: _____ <small>(Month/Day/Year)</small>		3. Patient's age: _____	
	4. Patient's residence address: _____ <small>(City) (County) (State) (Zip)</small>				5. Inside city limits? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	6. Date last normal menses began: _____ <small>(Month/Day/Year)</small>		7. Clinical estimation of gestational age: _____ Facility use only Completed weeks			
	8. Previous live births (enter a number or "none"): a. Live births now living: _____ b. Live births now dead: _____		9. Previous terminations (enter a number or "none"): a. Spontaneous Abortions, Miscarriages, Stillbirths, Fetal Deaths: _____ b. Induced Abortions (Do NOT include this termination): _____			
	10. Marital status: <input type="checkbox"/> Never Married <input type="checkbox"/> Now Married <input type="checkbox"/> Declaration of Oregon Registered Domestic Partnership <input type="checkbox"/> Separated <input type="checkbox"/> Divorced/Dissolution of Domestic Partnership <input type="checkbox"/> Widowed <input type="checkbox"/> Unknown					
TO BE COMPLETED BY FACILITY	11. Education: <input type="checkbox"/> 8th grade or less; none <input type="checkbox"/> Some college credit, but no degree <input type="checkbox"/> Master's degree <input type="checkbox"/> 9th-12th grade; no diploma <input type="checkbox"/> Associate's degree <input type="checkbox"/> Doctorate or professional degree <input type="checkbox"/> High school graduate or GED <input type="checkbox"/> Bachelor's degree <input type="checkbox"/> Unknown					
	12. Is patient of Hispanic origin? <input type="checkbox"/> No, not Spanish/Hispanic/Latina <input type="checkbox"/> Yes, Mexican, Mexican-American, Chicano <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, other Hispanic Origin (specify): _____			13. Patient's race (select one or more): <input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native (specify tribe(s)): _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other Asian (specify): _____ <input type="checkbox"/> Native Hawaiian <input type="checkbox"/> Samoan <input type="checkbox"/> Guamanian or Chamorro <input type="checkbox"/> Other Pacific Islander (specify): _____ <input type="checkbox"/> Other (specify): _____		
	14. Was birth control being used at the time patient became pregnant? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, specify method(s) below (check all that apply): <input type="checkbox"/> Birth Control Pill <input type="checkbox"/> Hormone Implant <input type="checkbox"/> IUD/IUC <input type="checkbox"/> Patch <input type="checkbox"/> Condoms, Prophylactics <input type="checkbox"/> Rhythm <input type="checkbox"/> NuvaRing <input type="checkbox"/> Non-surgical sterilization; e.g., Essure <input type="checkbox"/> Emergency Contraception <input type="checkbox"/> Contraceptive Injection; e.g., Depo-Provera <input type="checkbox"/> Other (specify): _____					
	15. Name of facility where termination occurred: _____					
	16. Location of termination: _____ <small>(City) (County) (State) (Zip)</small>					
	17. Primary procedure that terminated this pregnancy (check only one): <input type="checkbox"/> Suction Curettage <input type="checkbox"/> Medical – Mifepristone <input type="checkbox"/> Other medical (Non-surgical); specify medication(s): _____ <input type="checkbox"/> Dilation and Evacuation (D & E) <input type="checkbox"/> Vaginal Prostaglandin <input type="checkbox"/> Sharp Curettage (D & C) <input type="checkbox"/> Hysterotomy/Hysterectomy <input type="checkbox"/> Other (specify): _____					
	18. Other procedures used for this termination (check all that apply): <input type="checkbox"/> Suction Curettage <input type="checkbox"/> Medical – Mifepristone <input type="checkbox"/> Other medical (Non-surgical); specify medication(s): _____ <input type="checkbox"/> Dilation and Evacuation (D & E) <input type="checkbox"/> Vaginal Prostaglandin <input type="checkbox"/> Sharp Curettage (D & C) <input type="checkbox"/> Hysterotomy/Hysterectomy <input type="checkbox"/> None <input type="checkbox"/> Other (specify): _____					
	19. Was follow-up visit recommended? <input type="checkbox"/> Yes <input type="checkbox"/> No			20. Was post-operative/after-care information provided? <input type="checkbox"/> Yes <input type="checkbox"/> No		
	21. Were there complications at the time of the procedure? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, specify complications (check all that apply): <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): _____					
	22. At time of completion of this report, had follow-up visit occurred at this facility? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, specify complications (check all that apply): 22a. Complications: <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): _____					
23. At time of completion of this report, had follow-up visit occurred outside this facility? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, specify location of follow-up visit AND specify complications (check all that apply): 23a. Type of location of follow-up visit: <input type="checkbox"/> Physician's Office <input type="checkbox"/> Clinic <input type="checkbox"/> Hospital <input type="checkbox"/> Unknown <input type="checkbox"/> Other (specify): _____ 23b. Complications: <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"/> Unknown <input type="checkbox"/> Other (specify): _____						

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

(See information on the back side of this form.)

45-113 (01/15)

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


136-
 Authority CENTER FOR HEALTH STATISTICS

Local file number **APPLICATION, LICENSE, AND RECORD OF MARRIAGE** State file number

LOCAL OFFICIAL	County:	License effective on or after:	License expires (month, day, year):	
PARTY A: Groom, Bride or Spouse CONSENT FORM WAIVER <input type="checkbox"/> <input type="checkbox"/>	PARTY A is (check one): <input type="checkbox"/> Groom <input type="checkbox"/> Bride <input type="checkbox"/> Spouse			
	1a. Legal name: First		Middle	Last
	1b. Legal name at birth (if different):		1c. Previous name (if different):	
	2. Birthplace (state or foreign country):		3. Date of birth (month, day, year):	
	4. Age (18 or older, 17 with consent):		5. Sex:	
	6. Occupation:		7. Previous marital status (single, widowed, divorced):	
	8a. Father's name (first, middle, legal surname prior to first marriage):		8b. Birthplace (state or foreign country):	
	9a. Mother's name (first, middle, legal surname prior to first marriage):		9b. Birthplace (state or foreign country):	
	10a. Address: Street and number		City or town	State/country
			ZIP	10b. County of residence:
	11. Legal name taken after marriage: First		Middle	Last
PARTY B: Groom, Bride or Spouse CONSENT FORM WAIVER <input type="checkbox"/> <input type="checkbox"/>	PARTY B is (check one): <input type="checkbox"/> Groom <input type="checkbox"/> Bride <input type="checkbox"/> Spouse			
	12a. Legal name: First		Middle	Last
	12b. Legal name at birth (if different):		12c. Previous name (if different):	
	13. Birthplace (state or foreign country):		14. Date of birth (month, day, year):	
	15. Age (18 or older, 17 with consent):		16. Sex:	
	17. Occupation:		18. Previous marital status (single, widowed, divorced):	
	19a. Father's name (first, middle, legal surname prior to first marriage):		19b. Birthplace (state or foreign country):	
	20a. Mother's name (first, middle, legal surname prior to first marriage):		20b. Birthplace (state or foreign country):	
	21a. Address: Street and number		City or town	State/country
			ZIP	21b. County of residence:
	22. Legal name taken after marriage: First		Middle	Last
AFFIDAVIT OF AGE	23. <input type="checkbox"/> Party A — name and address of affiant:			
24. <input type="checkbox"/> Party B — name and address of affiant:				
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.			
25. Party A's legal signature:		Date:	26. Party B's legal signature:	
			Date:	
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.			
27. Date license issued:		28. Signature of issuing official:	29. Title of issuing official:	
CEREMONY	30a. Date of marriage:		30b. Where married (city, town or location):	
		OREGON		
31a. I certify that the above named persons were married on the date listed above (30a). Signature of person performing ceremony (officiant):		31b. Title:		
31c. Name and address of officiant (person performing ceremony):		31d. Name and address of authorizing religious congregation/organization of officiant:		
Name:		Name:		
Address:		Address:		
Phone:		Phone:		
32. Witness name (print):		33. Witness name (print):		
LOCAL OFFICIAL	34. Signature of county official:		35. Date filed by county official (month, day, year):	

ORS.432.010 required statistical information: The information below will not appear on the certified copies of the record.

36. Party A's Social Security number (specify number, none or unknown):		37. Party B's Social Security number (specify number, none or unknown):	
PARTY A	38a.	39a.	39b.
	38b.	39c.	39d.
PARTY B	40a.	40b.	41a.
	41b.		

The authorized person performing this marriage is required to return the original copy of this form to the county clerk within five (5) days following the date of the marriage (ORS 432.173). A penalty may be assessed (ORS 106.990).

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

Local file number

State file number

Declaration of Oregon Registered Domestic Partnership

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

Partner A	1. Partner A – Legal name: First Middle Last						
	2. Surname at birth (if different than current legal name):			3. Other legal surnames used:			
	4. Birthplace (state or foreign country):		5. Date of birth (month, day, year):		6. Age (18 or older):		
	7. Sex:	8. Current status (never married, widowed, divorced):	9a. Resident county:	9b. Resident state:			
	9c. Mailing address: Number and street		City or town	State	Country	ZIP code	
	10. Partner A legal name taken after domestic partnership: First Middle Last						
	Partner B	11. Partner B – Legal name: First Middle Last					
		12. Surname at birth (if different than current legal name):			13. Other legal surnames used:		
		14. Birthplace (state or foreign country):		15. Date of birth (month, day, year):		16. Age (18 or older):	
		17. Sex:	18. Current status (never married, widowed, divorced):	19a. Resident county:	19b. Resident state:		
19c. Mailing address: Number and street		City or town	State	Country	ZIP code		
20. Partner B legal name taken after domestic partnership: First Middle Last							
Signatures/notaries	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.						
	Signature partner A (current name) _____ Date _____ State of _____ county of _____. This instrument was acknowledged before me on _____ (date), by _____ (name(s) of person(s)).						
	Signature of notarial officer: _____						
	My commission expires: _____						
	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.						
	Signature Partner B (current name) _____ Date _____ State of _____ county of _____. This instrument was acknowledged before me on _____ (date), by _____ (name(s) of person(s)).						
	Signature of notarial officer: _____						
	My commission expires: _____						
	Local Official	County of filing: _____			Signature of county official at county of filing: _____		
		Date registered at county: _____			Name of issuing official (print): _____		

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

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

Appendix D: Sample forms — Record of Dissolution of Marriage, Annulment or Registered Domestic Partnership



RECORD OF DISSOLUTION OF MARRIAGE, ANNULMENT OR REGISTERED DOMESTIC PARTNERSHIP

136-

State file number:

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 judgment.

Case number: _____		
Judgment type: <input type="checkbox"/> Dissolution of marriage <input type="checkbox"/> Annulment <input type="checkbox"/> Dissolution of registered domestic partnership(RDP)		
Spouse / Partner A	1. Spouse/Partner A – Legal name: (first, middle, last, suffix) 2. Last name at birth: (not required for RDP)	
	3. Residence or legal address: (street and number) (city or town) (county) (state)	
	4. Other legal last names used:	
	5. Date of birth: (mm/dd/yyyy) 6. Birthplace: (state, territory or foreign country)	
Spouse / Partner B	7. Spouse/Partner B – Legal name: (first, middle, last, suffix) 8. Last name at birth: (not required for RDP)	
	9. Residence or legal address: (street and number) (city or town) (county) (state)	
	10. Other legal last names used:	
	11. Date of birth: (mm/dd/yyyy) 12. Birthplace: (state, territory or foreign country)	
Marriage / Declaration	13. Date of marriage / filing of RDP declaration: (mm/dd/yyyy) 14. Date couple last resided in same household: (mm/dd/yyyy)	
	15a. Place of marriage/RDP: (city, town or location) 15b. County: 15c. State or foreign country:	
	16. Number of children under 18 in this household as of the date in item 14: Number: _____ None <input type="checkbox"/>	17. Petitioner: <input type="checkbox"/> Spouse/Partner A <input type="checkbox"/> Spouse/Partner B <input type="checkbox"/> Both
	18a. Name of petitioner's attorney: (print) 18b. Address: (street and number or rural route number, city or town, state, ZIP code)	
Attorney	19a. Name of respondent's attorney: (print) 19b. Address: (street and number or rural route number, city or town, state, ZIP code)	
	20. Marriage/RDP declaration of the above named persons was dissolved on: (mm/dd/yyyy) 21. Date judgment becomes effective: (mm/dd/yyyy)	
Judgment	22. Number of children under 18 whose physical custody was awarded to: ____ Spouse/Partner A ____ Spouse/Partner B ____ Joint (shared custody) ____ Other (specify) _____ <input type="checkbox"/> No children	
	23. County of decree: _____ 24. Title of court: Circuit	
	25. Signature of court official: _____ 26. Title of court official: _____ 27. Date signed: (mm/dd/yyyy)	

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

28. Spouse A's Social Security number: (not required for RDP)				29. Spouse B's Social Security number: (not required for RDP)					
30. Number of this marriage/RDP – first, second, etc.:		31. If previously married or in a RDP date last marriage/RDP ended:		32. Hispanic origin: Cuban, Mexican, Puerto Rican		33. Race(s): Black, White, etc.		34. Education – Specify only highest grade completed:	
By death, divorce, dissolution or annulment (specify below) Date: (mm/dd/yyyy)		List all that apply (specify below)		List all that apply (specify below)		Elementary/Secondary: (grades 0-12)		College: (1-4 or 5+)	
30a.	30b.	31a.	31b.	32a.	33a.	34a.	34b.		
30c.	30d.	31c.	31d.	32b.	33b.	34c.	34d.		

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PUBLIC HEALTH DIVISION
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