# Oregon Vital Statistics Annual Report 2017

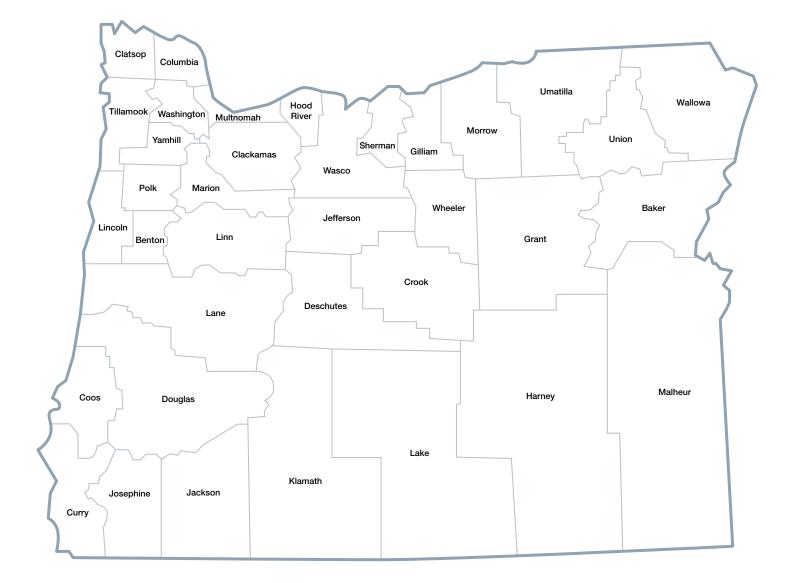
Natality

# Volume 1

- Induced termination of pregnancy
- Teen pregnancy



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



# Oregon Vital Statistics Annual Report 2017

# Volume 1



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## "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, policymakers and health professionals have a source of important knowledge they can use to form the basis for action and benchmarks for assessing progress.

## Structure of the report

To improve ease of use and timeliness, the Oregon 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: <u>https://www.oregon.gov/oha/PH/</u><u>BirthDeathCertificates/VitalStatistics/</u>.

Additional data are available in the form of simple crosstabulations. 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. Microfilmers 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.

## **Executive summary**

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. Volume 1 of the report includes data on live births, induced terminations of pregnancy, and teen pregnancy. In addition, Volume 1 contains counts of marriages, divorces, Oregon registered domestic partnerships and dissolutions of domestic partnership.

SUMMARY OF VITAL STATISTICS, VOLUME 1							
Vital statistic	2016						
Population	4,141,100	4,076,350					
Live births (residents)							
Number	43,630	45,533					
Crude birth rate	10.5	11.2					
Fertility rate	54.3	57.0					
Low birthweight infants (residents)							
Number	2,981	2,980					
Rate	68.3	65.5					
Births to unmarried mothers (residents)							
Number	15,738	16,221					
Ratio	361.8	357.1					
Induced abortions (occurrences)							
Number	8,506	8,942					
Ratio to live births	192.6	194.5					
Unions and dissolutions (occurrences)							
Marriages	27,604	28,041					
Divorces	14,009	13,602					
Domestic partnerships	83	71					
Dissolutions of domestic partnership	21	34					
Crude birth rates are per 1 000 population: fertility	rates are per 1 000 15 44	waar ald famalas:					

Crude birth rates are per 1,000 population; fertility rates are per 1,000 15–44-year-old females; unmarried mother ratio and low birthweight rate are per 1,000 live resident births; induced abortion ratio is per 1,000 live occurrence births. Rates and ratios exclude missing and unknown values.

Population source: Population Research Center, Portland State University.

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**SECTION 1: QUICK REFERENCE (VOLUME 1)** 

## Quick reference (Volume 1)

	Summary o	f Oregon Vital Events, 2017				
Population	4,141,100	The population increased 64,750, or 1.6% over 2016.				
Live births	Residents					
Number	43,630	The number of births decreased by 1,903. The crude rate				
Crude rate	10,000	decreased by 5.7% and the fertility rate decreased by 4.7%.				
Fertility rate	54.3					
Marriages	Occurrences	The number of marriages decreased by 437. The rate				
Number	27,604	decreased by 2.9%.				
Crude rate	6.7					
Diverse	0					
Divorces	Occurrences	The number of divorces increased by 407. The rate increased				
Number	14,009	by 3.0%.				
Crude rate	3.4					
Domestic partnerships	Occurrences	The number of demonstration where we have a set by 10 **				
Number	83	The number of domestic partnerships increased by 12.**				
	-	-				
Dissolutions of domestic	Occurrences	The number of dissolutions of domestic partnership				
partnership		decreased by 13.				
Number	21					
Unmarried mothers	Residents	The number of unmarried mothers giving birth decreased by				
Number	15,738	483. The proportion of births which were to unmarried mothers				
Ratio	361.8	increased by 1.3%.				
- Tallo	001.0					
Low birthweight infants	Residents	The number of low birthweight infents increased by 1. The rate				
Number	2,981	The number of low birthweight infants increased by 1. The rate increased by 4.3%.				
Rate	68.3	Increased by 4.5%.				
Induced abortions	Occurrences	The number of reported abortions decreased by 436, a				
Number	8,506	decrease of 4.9% from 2016. The abortion ratio decreased				
Ratio	192.6	1.0%.				
		ip rates are per 1,000 population; fertility rates per 1,000 15-44 year-old te, per 1,000 live resident births; induced abortion ratio per 1,000 live				
		uding missing and unknown values.				

Population source: Population Research Center, Portland State University.

\*\*Same-sex marriage became legal in Oregon on May 19, 2014.

# TABLE 1-1. Live births, births to unmarried mothers, low birthweight infants,and births with no prenatal care, U.S., selected years 1945-1965, 1970-2016

		-			-			
Year	Live birth	าร	Births unmarried r		Low birthwe	eight <sup>3</sup>	No prenatal	care <sup>4</sup>
	Number	Rate <sup>1</sup>	Number	Ratio <sup>2</sup>	Number	Ratio <sup>2</sup>	Number	Ratio <sup>2</sup>
1945	2,735,456	20.6	117,400	42.9	-	_	-	_
1950	3,554,149	23.6	141,600	39.8	-	-	-	_
1955	4,047,295	24.6	183,300	45.3	327,484	80.9	-	-
1960	4,257,850	23.7	224,300	52.7	311,014	73.0	-	_
1965	3,760,358	19.4	291,200	77.4	238,384	63.4	-	_
1970 1971 1972 1973 1974	3,731,368 3,555,970 3,258,411 3,136,965 3,159,958	18.4 17.2 15.6 14.8 14.8	398,700 401,400 403,200 407,300 418,100	106.9 112.9 123.7 129.8 132.3	219,556 202,117 202,185 200,726 198,887	58.8 56.8 62.1 64.0 62.9	49,658 45,260 40,065 37,635 36,024	13.3 12.7 12.3 12.0 11.4
1975 1976 1977 1978 1979	3,144,198 3,167,788 3,326,632 3,333,279 3,494,398	14.6 14.6 15.1 15.0 15.6	447,900 468,100 515,700 543,900 597,800	142.5 147.8 155.0 163.2 171.1	206,688 211,997 211,997 234,291 239,710	65.7 66.9 63.7 70.3 68.6	34,720 39,065 41,107 44,703 43,652	11.0 12.3 12.4 13.4 12.5
1980 1981 1982 1983 1984	3,612,258 3,629,238 3,680,537 3,638,933 3,669,141	15.9 15.8 15.9 15.5 15.5	665,747 686,605 715,277 737,893 770,355	184.3 189.2 194.3 202.8 210.0	246,292 246,749 248,104 247,668 246,105	68.2 68.0 67.4 68.1 67.1	46,211 48,131 54,610 57,849 59,937	12.8 13.3 14.8 15.9 16.3
1985 1986 1987 1988 1989	3,760,561 3,756,547 3,809,394 3,909,510 4,040,958	15.8 15.6 15.7 15.9 16.2	828,174 878,477 933,013 1,005,299 1,094,169	202.2 233.9 243.7 257.1 270.8	253,554 255,500 262,344 270,681 284,391	67.4 68.0 68.9 69.2 70.4	61,467 70,327 74,087 72,998 86,188	16.3 18.7 19.4 18.7 21.3
1990 1991 1992 1993 1994	4,158,212 4,110,907 4,065,014 4,000,240 3,952,767	16.7 16.2 15.9 15.5 15.2	1,165,384 1,213,769 1,244,876 1,240,172 1,289,592	280.3 295.3 300.0 310.0 326.3	289,418 292,230 287,493 288,482 287,607	69.6 71.1 70.7 72.1 72.8	80,406 76,864 68,657 62,487 –	19.3 18.7 16.9 15.6 –
1995 1996 1997 1998 1999	3,899,589 3,891,494 3,880,894 3,941,553 3,959,417	14.8 14.7 14.5 14.6 14.5	1,253,976 1,260,306 1,257,444 1,293,567 1,308,560	322.0 324.0 324.0 328.0 330.0	285,152 287,230 291,154 298,208 301,183	73.1 73.8 75.0 75.7 76.1	46,692 44,543 46,240 46,163 44,247	12.0 11.4 11.9 11.7 11.2
2000 2001 2002 2003 2004	4,058,814 4,025,933 4,021,726 4,089,950 4,112,052	14.7 14.1 13.9 14.1 14.0	1,347,043 1,349,249 1,365,966 1,415,995 1,470,189	332.0 335.1 339.6 346.0 358.0	307,030 308,747 314,077 324,064 331,772	75.6 76.7 78.1 79.2 80.7	44,629 41,728 39,107 39,456 33,164	11.0 10.4 9.7 9.6 8.1

See footnotes at end of table.

Year	Live births		Births unmarried r		Low birthwe	eight <sup>3</sup>	No prenatal care <sup>4</sup>	
	Number	Rate <sup>1</sup>	Number	Ratio <sup>2</sup>	Number	Ratio <sup>2</sup>	Number	Ratio <sup>2</sup>
2005	4,138,349	14.0	1,527,034	369.0	338,565	81.8	26,613	6.4
2006	4,265,555	14.2	1,641,946	385.0	351,974	82.5	26,984	6.3
2007	4,317,119	14.3	1,714,643	397.0	354,333	82.1	42,998	10.0
2008	4,247,694	14.0	1,726,566	406.0	347,209	81.7	48,642	11.5
2009	4,131,019	13.5	1,693,850	410.0	336,747	81.5	45,101	10.9
2010	4,000,279	13.0	1,633,785	408.0	325,563	81.4	47,511	11.9
2011	3,953,590	12.7	1,607,773	406.7	319,711	80.9	47,737	12.1
2012	3,952,841	12.6	1,609,619	407.2	315,709	79.9	47,821	12.1
2013	3,932,181	12.4	1,595,873	405.8	315,099	80.1	50,734	12.9
2014	3,985,924	12.5	1,604,495	402.5	318,847	80.0	57,606	14.5
2015	3,978,497	12.4	1,601,527	402.5	320,869	80.7	57,630	14.5
2016	3,945,875	12.2	1,569,796	397.8	321,839	81.6	61,226	15.5

#### TABLE 1-1. Live births, births to unmarried mothers, low birthweight infants, and births with no prenatal care, U.S., selected years 1945-1965, 1970-2016 - Continued

Rate per 1,000 population.

Ratio per 1,000 live births.

1 2 3 4 Low birthweight was defined as 2500 grams or less before 1979, and less than 2500 grams from 1979 forward.

Prenatal care data were not reported by all states until 1989. Data not available.

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All data in this table taken from Vital Statistics of the United States, Volume I, and the federal Centers for Disease Control and Prevention WONDER (Wide-ranging Online Data for Epidemiological Research) system (http://wonder.cdc.gov). Data may vary slightly from that published by the National Center for Health Statistics and the Oregon Center for Health Statistics due to different file closure dates and different population estimate methodologies.

# TABLE 1-2. Population, live births and births to unmarried mothers, marriages, and divorces, Oregon, selected years 1910-1940, 1945-2017

Year*	Population	Live bi	rths	Births unmarried		Marria	ges	Divor	ces
		Number	Rate <sup>1</sup>	Number	Ratio <sup>2</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
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 1946 1947 1948 1949	1,227,200 1,347,900 1,423,300 1,470,800 1,511,200	23,339 29,566 36,190 34,937 35,062	19.0 21.9 25.4 23.8 23.2	504 517 608 575 502	21.6 17.5 16.8 16.5 14.3	9,764 14,674 12,881 12,373 10,746	8.0 10.9 9.1 8.4 7.1	7,949 10,241 6,707 6,405 6,274	6.5 7.6 4.7 4.4 4.2
1950 1951 1952 1953 1954	1,521,341 1,568,000 1,602,100 1,636,800 1,662,680	35,991 37,317 39,752 39,866 38,550	23.7 23.8 24.8 24.4 23.2	667 623 780 772 909	18.5 16.7 19.6 19.4 23.6	11,300 10,118 9,998 10,502 9,567	7.4 6.5 6.2 6.4 5.8	5,943 6,133 6,311 6,373 6,130	3.9 3.9 3.9 3.9 3.9 3.7
1955 1956 1957 1958 1959	1,690,840 1,734,650 1,737,470 1,728,550 1,777,000	38,678 38,432 37,828 36,295 36,634	22.9 22.2 21.8 21.0 20.6	880 958 1,088 1,091 1,217	22.8 24.9 28.8 30.1 33.2	10,632 10,568 9,961 9,896 10,166	6.3 6.1 5.7 5.7 5.7	6,158 5,827 5,261 5,452 6,009	3.6 3.4 3.0 3.2 3.4
1960 1961 1962 1963 1964	1,768,687 1,816,345 1,825,138 1,856,190 1,906,000	38,347 37,475 36,983 34,863 33,500	21.7 20.6 20.3 18.8 17.6	1,250 1,433 1,499 1,708 1,754	32.6 38.2 40.5 49.0 52.4	10,590 10,798 11,122 11,786 12,297	6.0 5.9 6.1 6.3 6.5	5,711 6,023 6,074 6,180 6,486	3.2 3.3 3.3 3.3 3.3 3.4
1965 1966 1967 1968 1969	1,972,150 1,999,780 2,006,360 2,050,900 2,081,640	32,955 32,446 31,446 32,136 33,834	16.7 16.2 15.7 15.7 16.3	2,094 2,330 2,478 2,831 3,000	63.5 71.8 78.8 88.1 88.7	13,252 13,981 14,401 16,125 16,874	6.7 7.0 7.2 7.9 8.1	6,219 6,764 7,603 8,258 8,643	3.2 3.4 3.8 4.0 4.2
1970 1971 1972 1973 1974	2,091,385 2,143,010 2,183,270 2,224,900 2,266,000	35,353 33,344 31,308 30,902 32,506	16.9 15.6 14.3 13.9 14.3	2,912 2,603 2,552 2,599 2,984	82.4 78.1 81.5 84.1 91.8	17,302 18,100 19,265 19,661 20,002	8.3 8.4 8.8 8.8 8.8	9,583 10,687 11,706 12,382 13,538	4.6 5.0 5.4 5.6 6.0
1975 1976 1977	2,299,000 2,341,750 2,396,100	33,352 34,840 37,467	14.5 14.9 15.6	3,382 3,825 4,596	101.4 109.8 122.7	19,322 19,182 20,303	8.4 8.2 8.5	15,526 16,070 16,372	6.8 6.9 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, 1945-2017 - Continued

Year*	Population	Live bi	rths	Births unmarried		Marria	ges	Divoro	ces
		Number	Rate <sup>1</sup>	Number	Ratio <sup>2</sup>	Number	Rate <sup>1</sup>	Number	Rate <sup>1</sup>
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 1996 1997 1998 1999	3,132,000 3,181,000 3,217,000 3,267,550 3,300,800	42,715 43,645 43,765 45,228 45,193	13.6 13.7 13.6 13.8 13.7	12,350 12,944 12,606 13,451 13,738	289.1 296.6 288.0 297.6 304.0	25,292 25,815 26,074 25,424 25,876	8.1 8.1 7.8 7.8	15,289 14,944 14,864 15,234 15,647	4.9 4.7 4.6 4.7 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 2006 2007 2008 2009	3,631,440 3,690,505 3,745,455 3,791,075 3,823,465	45,905 48,684 49,373 49,117 47,188	12.6 13.2 13.2 13.0 12.3	15,254 16,675 17,311 17,686 16,613	332.8 343.3 350.8 360.7 352.9	26,471 26,715 26,664 26,139 25,239	7.3 7.2 7.1 6.9 6.6	15,033 14,915 14,921 14,809 14,948	4.1 4.0 3.9 3.9
2010 2011 2012 2013 2014	3,844,195 3,857,625 3,883,735 3,919,020 3,962,710	45,596 45,136 45,059 45,136 45,557	11.9 11.7 11.6 11.5 11.5	16,173 15,971 15,823 16,046 16,349	355.5 354.5 351.3 356.5 359.6	25,067 25,530 25,641 24,951 27,735	6.5 6.6 6.4 7.0	15,312 14,823 14,841 14,274 13,489	4.0 3.8 3.8 3.6 3.4
2015	4,013,845	45,656	11.4	16,380	359.6	27,794	6.9	13,831	3.4
2016	4,076,350	45,533	11.2	16,221	357.1	28,023	6.9	13,718	3.4
2017	4,141,100	43,630	10.5	15,738	361.8	27,604	6.7	14,009	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.

Population source: Population Research Center, Portland State University.

by county of occurrence, oregon, 2017									
County	Estimated population	Live bi	rths	Births to unmarried mothers Marriages		Marriages		ces	
	July 1, 2017	No.	Rate <sup>1</sup>	No.	Ratio <sup>2</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
Total	4,141,100	43,630	10.5	15,738	361.8	27,604	6.7	14,009	3.4
Baker	16,750	156	9.3	69	442.3	106	6.3	30	§ 1.8
Benton	92,575	696	§ 7.5	139	§ 200.0	410	§ 4.4	208	§ 2.2
Clackamas	413,000	4,084	§ 9.9	1,103	§ 270.4	3,006	§ 7.3	1,216	§ 2.9
Clatsop	38,820	373	9.6	154	412.9	622	§ 16.0	159	§ 4.1
Columbia	51,345	519	10.1	198	381.5	297	§ 5.8	194	3.8
Coos	63,310	601	§ 9.5	313	§ 521.7	408	6.4	229	3.6
Crook	22,105	263	11.9	97	368.8	159	7.2	80	3.6
Curry	22,805	168	§ 7.4	47	§ 522.2	172	7.5	83	3.6
Deschutes	182,930	1,808	§ 9.9	547	§ 302.9	1,476	§ 8.1	757	§ 4.1
Douglas	111,180	1,070	§ 9.6	514	§ 480.8	699	6.3	462	§ 4.2
Gilliam	1,995	14	7.0	7	500.0	1	§ 0.5	10	5.0
Grant	7,415	63	8.5	22	349.2	47	6.3	27	3.6
Harney	7,360	73	9.9	25	342.5	45	6.1	25	3.4
Hood River	25,145	264	10.5	84	318.2	374	§ 14.9	80	3.2
Jackson	216,900	2,249	10.4	976	§ 434.7	1,348	§ 6.2	886	§ 4.1
Jefferson	23,190	264	11.4	147	§ 556.8	152	6.6	69	3.0
Josephine	85,650	881	10.3	427	§ 485.8	451	§ 5.3	301	3.5
Klamath	67,690	789	§ 11.7	378	§ 480.3	395	§ 5.8	244	3.6
Lake Lane Lincoln Linn Malheur Marion	8,120 370,600 47,960 124,010 31,845 339,200	62 3,458 404 1,464 401 4,442	§ 7.6 § 9.3 § 8.4 § 11.8 § 12.6 § 13.1	24 1,431 206 551 203 1,851	387.1 § 414.4 § 509.9 376.6 § 506.2 § 417.3	40 2,136 766 767 216 2,440	4.9 § 5.8 § 16.0 § 6.2 6.8 § 7.2	41 1,366 176 542 88 1,263	§ 5.0 § 3.7 § 4.4 2.8 § 3.7
Morrow	11,890	169	§ 14.2	73	432.0	54	§ 4.5	25	§ 2.1
Multnomah	803,000	8,423	10.5	2,860	§ 340.0	5,930	§ 7.4	2,530	§ 3.2
Polk	81,000	860	10.6	307	357.4	457	§ 5.6	166	§ 2.0
Sherman	1,800	15	8.3	6	400.0	11	6.1	6	3.3
Tillamook	26,175	218	§ 8.3	93	428.6	544	§ 20.8	38	§ 1.5
Umatilla	80,500	952	§ 11.8	486	§ 511.0	401	§ 5.0	259	3.2
Union	26,900	298	11.1	118	396.0	162	6.0	106	3.9
Wallowa	7,195	64	8.9	21	328.1	76	§ 10.6	19	2.6
Wasco	27,100	314	11.6	131	417.2	201	7.4	115	§ 4.2
Washington	595,860	6,636	§ 11.1	1,740	§ 262.5	2,429	§ 4.1	1,856	§ 3.1
Wheeler	1,480	8	5.4	3	375.0	9	6.1	3	2.0
Yamhill	106,300	1,107	10.4	387	350.2	797	§ 7.5	348	3.3

#### TABLE 1-3. Population, live births and births to unmarried mothers, by county of residence, and marriages and divorces, by county of occurrence, Oregon, 2017

§ 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.

	Estimated	Birt	hs
City of residence	population July 1, 2017	Number	Rate
Albany (Linn, Benton)	52,710	723	13.7
Ashland (Jackson)	20,700	130	6.3
Baker City (Baker)	9,890	120	12.1
Beaverton (Washington)	95,685	2,129	22.3
Bend (Deschutes)	86,765	1,040	12.0
Canby (Clackamas)	16,660	210	12.6
Central Point (Jackson)	17,700	250	14.1
Cos Bay (Coos)	16,615	230	13.8
Cornelius (Washington)	11,915	192	16.1
Cornelius (Benton)	58,735	427	7.3
Corvallis (Benton) Cottage Grove (Lane) Dallas (Polk) Eugene (Lane) Forest Grove (Washington) Gladstone (Clackamas) Grants Pass (Josephine) Gresham (Multnomah) Happy Valley (Clackamas) Hermiston (Umatilla) Hillsboro (Washington) Keizer (Marion) Klamath Falls (Klamath) La Grande (Union) Lake Oswego (Clackamas, Multnomah, Washington) Lebanon (Linn) McMinnville (Yamhill)	9,920 15,570 167,780 23,555 11,840 37,135 109,820 19,985 17,985 101,540 38,345 21,770 13,245 37,490 16,720 33,665	$ \begin{array}{r}     144 \\     157 \\     1,565 \\     306 \\     116 \\     653 \\     981 \\     367 \\     321 \\     1,264 \\     484 \\     493 \\     197 \\     246 \\     255 \\     370 \\ \end{array} $	14.5 10.1 9.3 13.0 9.8 17.6 8.9 18.4 17.8 12.4 12.6 22.6 14.9 6.6 15.3 11.0
Medford (Jackson)	79,590	1,060	13.3
Milwaukie (Clackamas)	20,550	581	28.3
Newberg (Yamhill)	23,480	257	10.9
Newport (Lincoln)	10,215	90	8.8
Ontario (Malheur)	$\begin{array}{c} 11,465\\ 34,240\\ 16,880\\ 639,100\\ 9,880\\ 28,265\\ 24,015\\ 163,480\\ 10,855\\ 19,350\\ \end{array}$	228	19.9
Oregon City (Clackamas)		553	16.2
Pendleton (Umatilla)		216	12.8
Portland (Clackamas, Multnomah, Washington)		7,932	12.4
Prineville (Crook)		177	17.9
Redmond (Deschutes)		444	15.7
Roseburg (Douglas)		383	15.9
Salem (Marion, Polk)		2,667	16.3
Sandy (Clackamas)		207	19.1
Sherwood (Washington)		209	10.8
Silverton (Marion)	$\begin{array}{c} 10,070\\ 60,655\\ 13,240\\ 14,625\\ 50,985\\ 16,070\\ 26,960\\ 25,695\\ 24,315\\ 24,685\end{array}$	139	13.8
Springfield (Lane)		856	14.1
St. Helens (Columbia)		179	13.5
The Dalles (Wasco)		215	14.7
Tigard (Washington)		665	13.0
Troutdale (Multnomah)		224	13.9
Tualatin (Clackamas, Washington)		296	11.0
West Linn (Clackamas)		219	8.5
Wilsonville (Clackamas, Washington)		298	12.3
Woodburn (Marion)		392	15.9

TABLE 1-4. Population and births by city of residence, Oregon, 2017

Includes top 50 cities by population. Counties listed in parentheses. Population source: Population Research Center, Portland State University. Rate per 1,000 population.

Year	Low birthweight	First trimester care	No care	Inadequate care <sup>1</sup>	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
2015	64.2	789.5	7.2	57.2	37.9	30.9
2016	65.5	797.4	8.4	60.4	39.3	33.3
2017	68.3	799.1	8.1	61.1	39.4	34.3

## TABLE 1-5. Oregon rates of low birthweight, and measures of prenatal care, 1980-2017

<sup>1</sup> 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, 2017

	Estimated	Do	Dissolutions		
County	population July 1, 2017	Total	Male- Male	Female- Female	of domestic partnership
Total	4,141,100	83	25	58	21
Baker	16,750	-	-	-	-
Benton	92,575	1	1	_	1
Clackamas	413,000	2	_	2	1
Clatsop	38,820	-	_	-	-
Columbia	51,345	-	-	-	-
Coos	63,310	1	_	1	-
Crook		_	_	_	_
Curry		1	1	-	-
Deschutes		1	-	1	-
Douglas		-	-	-	-
Gilliam	,	-	-	-	-
Grant	7,415	_	_	-	_
Harney	7,360	-	-	-	-
Hood River		1	1	-	_
Jackson	216,900	3	1	2	_
Jefferson	23,190	-	_	-	-
Josephine	85,650	2	_	2	-
Klamath	67,690	_	_	-	-
Lake	8,120	_	_	_	_
Lane	370,600	-	-	-	2
Lincoln	47,960	-	-	-	-
Linn	,	_	_	-	-
Malheur		-	-	-	-
Marion	339,200	2	-	2	2
Morrow	11,890	_	_	-	1
Multnomah	803,000	54	21	33	9
Polk	81,000	-	-	-	1
Sherman	1,800	-	-	-	-
Tillamook	26,175	-	-	-	-
Umatilla	80,500	_	-	-	-
Union	26,900	_	-	_	_
Wallowa	7,195	_		-	
Wasco	27,100	-		-	
Washington	595,860	15	-	15	4
Wheeler	1,480	-		-	-
Yamhill	106,300	—	-		-

<sup>-</sup> Quantity is zero.

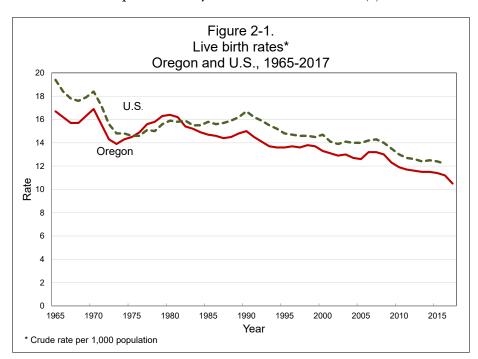
# **SECTION 2: NATALITY**

## Natality

In 2017, Oregon recorded **43,630 resident births**, 1,903 fewer than in 2016. The **crude birth rate** (the number of babies born divided by the total state population) was 10.5 per 1,000 population (see Table 1-2). Oregon's crude birth rate peaked in 1947 at 25.4 per 1,000 population and has been consistently in the mid- to low-teens since the 1960s. Except for the period between 1976 and 1981, Oregon's crude birth rate has remained lower than the national rate since 1953. In 2016, the most recent year for which final U.S. data are available, Oregon's rate was 8.2% lower than the national rate (11.2 vs. 12.2; see Figure 2-1).(1)

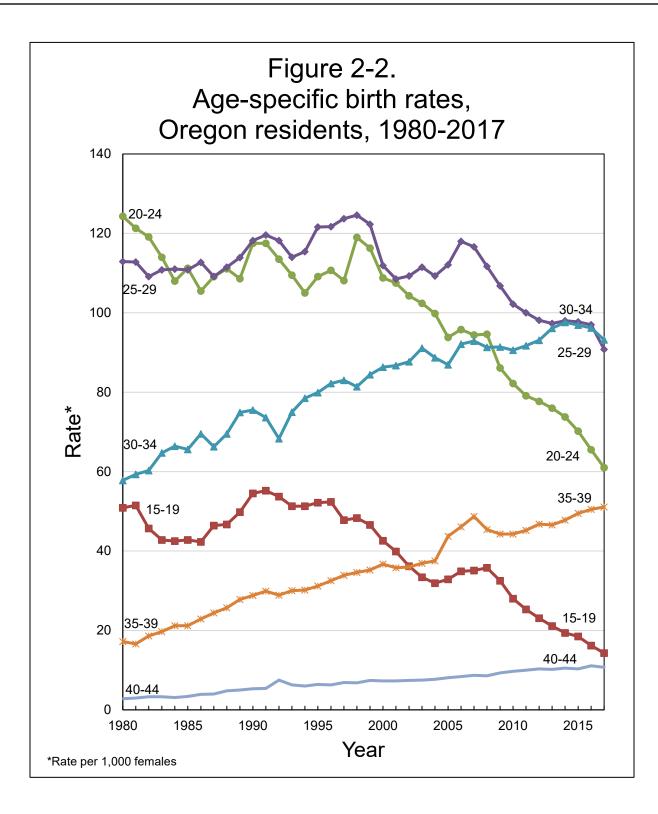
Fertility rate is defined as the number of births per 1,000 women ages 15–44 (see Appendix B). The fertility rate is a more precise measurement of changes in behavioral patterns than crude birth rate. The fertility rate relates only to women of typical childbearing age, while the crude rate is based on the entire population.

Oregon's **fertility rate** decreased 4.7% from the previous year, to 54.3 per 1,000 women ages 15–44 (see sidebar Table 2-A, Table 2-2). Age-specific birth rates decreased among all age groups of women except 35–39, which increased by 1.2%. The largest percentage decrease was among women ages 15–19 (11.7%), followed by women ages 20–24 (6.9%; see Table 2-2, Figure 2-2). In 2017 Oregon's fertility rate was 10.0% lower than the preliminary national rate of 60.3.(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.		
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		
2015	58.0	62.5		
2016	57.0	62.0		
2017	54.3	60.3		



## Natality

The youngest female to give birth in 2017 was 13 years old, and the oldest was 55 years old. Mother's median age for all births was 29 years, and the mean age was 29.3 years. The median age at first birth was 27 years, and the mean age was 27.5 years. The **rate of first birth** decreased from the previous year to 21.0 first births per 1,000 women ages 15–44. The proportion of first births among total births has been stable for almost two decades; 40.1% of births were first births in 2000 compared to 38.7% in 2017.

Information on the father was missing from 8.4% of birth certificates. The reported father's mean age for births was 31.9 years, and the median age was 32 years. The **birth rate per 1,000 men** ages 15–54 was 40.6 in 2017 for Oregon resident births.

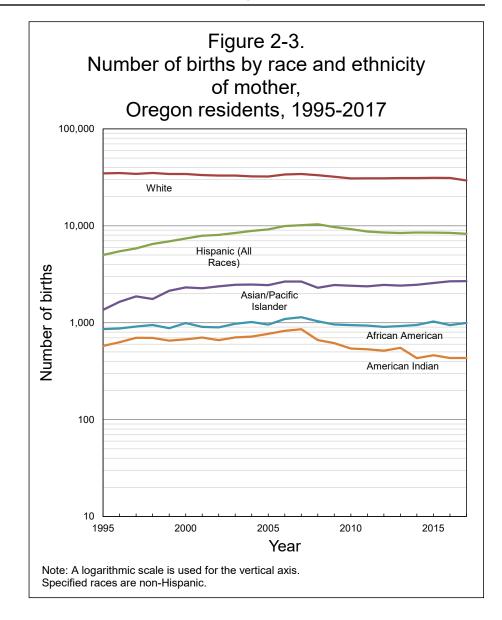
## **Demographics**

## Maternal race/ethnicity

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

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 addresses the complexity of race and ethnicity and facilitates an increase of self-reporting accuracy for Oregon.

Differences in perinatal outcomes 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.(3) 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 one. In Oregon, the ratio of births to unmarried mothers in 2017 was 3.6 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. In 2017, 36.2% 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 has had. Oregon's rate in 2016 was 10.2% lower than the national rate (see Figure 2-4).

Among women giving birth in 2017, the percentage of women who were unmarried varied widely by ethnic and racial group (see sidebar Table 2-B). For example, non-Hispanic American Indian women had the highest percentage of non-marital births (68.5%), followed by non-Hispanic Hawaiian/Pacific Islander women (53.6%) and African American women (52.9%). Non-Hispanic Asian women had the lowest percentage of unmarried mothers (12.0%; see Table 2-13).

Mothers under age 17 are likely to be unmarried. Note, persons younger than age 17 cannot legally marry in Oregon. More than four-fifths of teens ages 15–19 years who gave birth in 2017 were unmarried (88.1%), compared to 61.7% for women ages 20–24 and 36.0% for women ages 25–29 years. The percentage of unmarried women was lowest for mothers ages 35–39 years (21.8%) and 30–34 years (22.3%), while 25.4% of mothers ages 40-44 years were unmarried (see Table 2-3).

A county's non-marital birth proportion should be viewed, in part, as a function of its own specific population mix, especially age and race. Variations in population composition among counties will likely correspond to significant differences

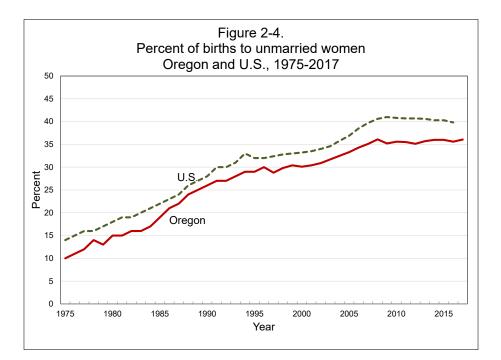


Table 2-B. Percent of unwed mothers by race/ethnicity, Oregon residents, 2017			
Total unmarried	36.2		
Non-Hispanic African American	52.9		
American Indian	68.5		
Asian Hawaiian/Pacific Islander	12.0 53.6		
Multiple races	53.6 50.5		
White	32.1		
Hispanic 50.1			

in non-marital births. Eleven of Oregon's 36 counties had proportions of non-marital births significantly higher than the state average (see Table 2-9). Among counties with statistically significant differences, Jefferson had the highest percentage (55.7%) of non-martial births followed by Coos (52.2%) and Umatilla (51.1%) (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 (20.0%).

#### **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 percentage of first trimester prenatal care. As educational attainment increased, so did the percentage of women who obtained first trimester care. Women with a master's degree, doctorate or other professional degree had the highest percentage of first trimester care (see sidebar Table 2-C, Table 2-19).

More than four-fifths of women who gave birth in 2017 had at least a high school diploma or GED (87.4%) and 32.5% had a bachelor's degree or higher. The racial/ethnic groups with the highest percentages of high school completion were non-Hispanic Asian (94.7%) and non-Hispanic White (92.6%) mothers. Hispanic mothers had the lowest percentage of completion of at least 12 years of education (68.5%; see Table 2-13).

care, Oregon residents, 2017			
Education	No first trimester		
	care (%)		
8th grade or less	35.7		
9th to 12th grade, no diploma	33.8		
High school graduate or GED	25.8		
Some college, no degree	20.3		
Associate's degree	16.5		
Bachelor's degree	12.2		
Master's degree	9.5		
Doctorate or professional degree	9.5		

# Table 2-C. Mothers' education and no first trimestercare, Oregon residents, 2017

## 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 national target:	98.6 %	
2017 Oregon actual:	91.0%	

Women who smoke when pregnant have a far higher incidence of low birthweight babies than do nonsmokers. Low birthweight infants are more likely to experience serious health problems, including increased rates of infant mortality. In Oregon, women who smoked had a low birthweight rate of 120.5 per 1,000 live births, compared to 63.0 per 1,000 among women who did not smoke. Approximately one in 10 mothers (9.0%) reported using tobacco during pregnancy, slightly less than the previous year (9.6%) (see sidebar Table 2-D).

For three decades, the federal Office of Disease Prevention and Health Promotion has developed 10-year national objectives for improving health.(4) One of the Healthy People 2020 objectives is to increase the nationwide percentage of mothers who did not use tobacco during pregnancy to 98.6%. In 2017, the percentage of mothers who used tobacco in Oregon remained below this objective at 91.0%.

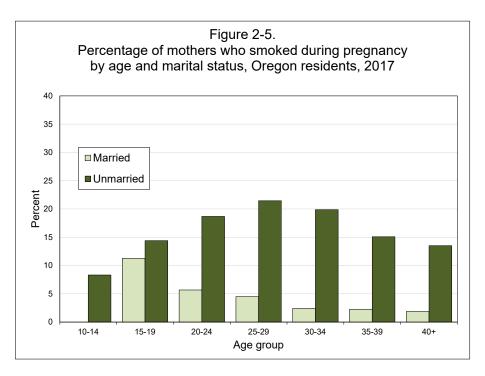
Among married women, the percentage of mothers who reported smoking during pregnancy generally decreased with age. Married mothers age 40 or older also reported the lowest percentage of smokers (1.9%), followed by married mothers ages 35–39 (2.3%).

In contrast, the percentage of tobacco use among unmarried women was more than five times that of married women (18.8% vs. 3.4%). For unmarried women, smoking rates peaked in the mid-20s and fell after age 25. The highest percentage of tobacco use during pregnancy in 2017 was among unmarried mothers ages 25–29 (21.4%) and unmarried mothers ages 30–34 (19.9%). For the youngest mothers, ages 10–14 years, 8.3% reported smoking during pregnancy (see Figure 2-5).

Smoking prevalence as reported on birth certificates also varied among racial and ethnic groups. In 2017, non-Hispanic American Indian women (18.6%) and non-Hispanic women reporting multiple races (15.4%) had the highest reported

## Women who smoked had a low birthweight rate of 120.5 per 1,000.

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	
2015	10.0	
2016	9.6	
2017	9.0	



proportion for smoking during pregnancy, while non-Hispanic Asian women (1.1%) and Hispanic women (3.2%) reported the lowest (see Table 2-25).

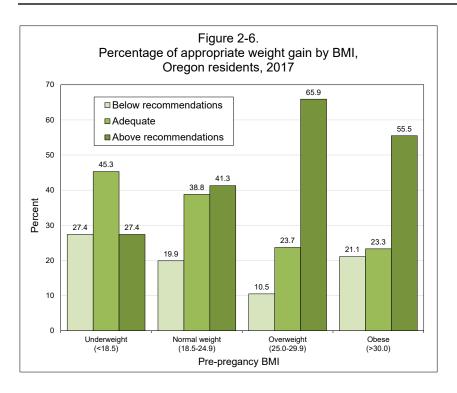
### Maternal weight and weight gain

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

In 2008, Oregon began collecting data on birth certificates about mothers' pre-pregnancy weight, weight at delivery and height. These new data allow for the calculation of body mass index (BMI) and provide 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).

In 2017, 51.0% of Oregon mothers gained more weight during pregnancy than recommended by the IOM guidelines. Additionally, 51.1% of Oregon women entered pregnancy overweight or obese, and had the highest percentage of weight gain above the guidelines (65.3% and 54.9%, respectively; see Figure 2-6). In contrast, women who were underweight at the

Table 2-E. Institute of guidelines for weight gure pregnancy	
Pre-pregnancy BMI	Weight gain
(kg/m²)	(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



start of their pregnancy had the highest percentage of weight gain below the IOM recommendations (27.8%) and had the highest percentage of low birthweight infants (12.6%).

## **Medical risk factors**

Maternal medical risk factors influence pregnancy complications and infant health and vary greatly based on the mother's age, race and ethnicity. In 2017, the most frequently reported medical risk factors were previous cesarean delivery (13.2%), gestational diabetes (8.7%) and pregnancy-associated hypertension (8.2%) (see Table 2-23, Table 2-26).

## Medical services utilization

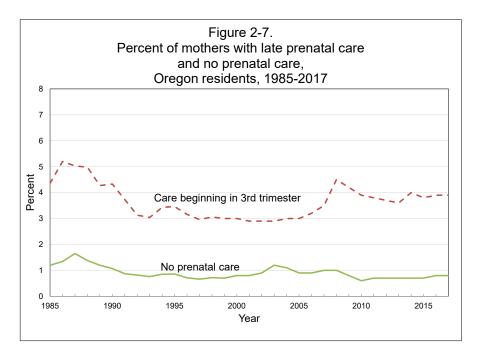
## **Prenatal care**

## National Healthy People 2020 objective

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

2020 national target:	77.9 %
2017 Oregon actual:	79.9 %

Public health workers and private care providers seek to minimize the risk of death and disability among infants. Additionally, they seek reductions in costs associated with low birthweight among 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, and
- "First trimester care," defined as care beginning in the first 12 weeks of pregnancy, regardless of the number of total prenatal visits.

Overall, 79.9% of women who gave birth during 2017 received early prenatal care (see Table 2-17, Table 1-5), which is nearly unchanged from the 2016 rate of 79.7%. Oregon's rate remains better than the Healthy People 2020 objective of 77.9%.

In 2017, 6.1% of women giving birth received inadequate prenatal care, and 20.1% received no first trimester care. The percentage of low birthweight infants was much higher for women who received inadequate prenatal care (13.3%) than for women who received adequate prenatal care (6.4%). The percentage of mothers who received no prenatal care was unchanged from the previous year (0.8%). Mothers who initiated care in the third trimester also stayed the same between 2016 and 2017 at 3.9% (see Figure 2-7).

Mother's race/ethnicity, residence, marital status, education and age continue to influence rates of 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 (31.7%) and non-Hispanic women of other or unknown race (16.6%). Non-Hispanic White and non-Hispanic Asian women had the lowest percentages of inadequate care (5.0% and 5.2%, respectively; see Table 2-18). Only one of Oregon's 36 counties had first trimester care rates significantly higher than the statewide rate in 2017: Washington County (84.1%). Seven counties had rates significantly lower than the state: Tillamook (65.4%), Morrow (65.5%), Curry (66.9%), Malheur (67.3%), Klamath (72.0%), Umatilla (74.0%) and Lane (75.8%) (see Table 2-20).

The Adequacy of Prenatal Care Utilization Index is an alternate measure of prenatal care based on the month prenatal care began and the number of prenatal visits, adjusting for gestational age. Care is determined to be intensive (exceeding recommended care by a ratio of expected visits to actual visits by at least 110%), adequate, intermediate or inadequate (see sidebar, Table 2-F). As with other measures of prenatal care, more women under the age of 20 received inadequate prenatal care, while more women age 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.

## Place of delivery and birth attendant

**Hospital births.** Hospitals were the most frequent place of birth, accounting for 96.4% of births within Oregon. Most inhospital births were planned to occur in the hospital (99.3%); 280 births were planned out-of-hospital at the onset of labor but subsequently delivered in the hospital. Medical doctors or osteopathic doctors delivered 78.5% of planned hospital births; certified nurse midwives delivered 21.1%, and other licensed medical professionals delivered 0.4% (see Table 2-38).

Table 2-F. Adequacy of Prenatal Care Utilization Index Oregon, 2011-2017					
Year	Intensive Adequate Intermediate Inadequate				
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	
2015	33.4	43.6	10.9	11.5	
2016	32.8	43.5	11.5	11.4	
2017	32.3	43.1	12.5	11.3	

**Out-of-hospital births.** In 2017, 3.6% of Oregon births occurred outside of a hospital. As in past years, most out-of-hospital births occurred in the mother's home (57.8%). Of those home births, 92.4% were planned home births, while the remaining 7.6% were not intended to occur at home. Freestanding birthing centers accounted for 637, or roughly two-fifths of out-of-hospital births.

2-12			Volume 1 • Oregon Vital Statistics Report 2017
Table 2-G. Out-of-hospital births Oregon occurrence			In 2011, the Oregon Legislature passed House Bill 2380,
Year	Deliveries	Rate <sup>1</sup>	which required the Oregon Public Health Division to add
1985	1,772	43.5	two questions to the Oregon Birth Certificate to capture
1986	1,520	37.9	planned place of birth and birth attendant. Every mother
1987	1,361	34.0	who delivered in the hospital was asked:
1988	1,217	29.4	who delivered in the hospital was asked.
1989	1,117	26.2	• Whether she planned to deliver at a private home or in a
1990	1,077	24.2	freestanding birthing center, and
1991	979	22.2	neestanding birtining center, and
1992	996	22.8	• The planned primary attendant type at the time she
1993	936	21.6	
1994	979	22.5	went into labor.
1995 1996 1997 1998 1999	967 979 970 914 948	21.7 21.4 21.5 19.8 20.6	Overall, 1,758 births were planned out-of-hospital (4.0%). Of these, 280 (15.9%) planned out-of-hospital births ultimately delivered in hospital. Transfers of newborn infants to a medical facility within 24 hours of birth were slightly more likely among
2000 2001 2002 2003 2004	1,047 1,007 947 1,000 1,003	22.4 21.7 20.6 21.3 21.6	women who planned an out-of-hospital birth (1.7% versus 1.3%; see Table 2-40). Women who planned out-of-hospital births tended to be 30 or older (61.0%), White non-Hispanic (84.6%), married (79.7%) and college-educated (48.5%) (see Table 2-39.)
2005 2006 2007 2008 2009	1,058 1,134 1,267 1,431 1,404	22.6 23.1 25.4 29.0 29.4	Women who planned out-of-hospital births generally experienced fewer medical interventions than those who planned hospital births. Medical intervention rates among planned out-of-hospital births included induction and

(4.8%). A woman planning to deliver in hospital was more than four times as likely to have a primary cesarean section than a woman who planned to deliver out of hospital (17.8%) vs. 4.3%). In 2017, 17.4% of women planning out-of-hospital births did not have a Group B streptococcal test compared to 3.5% for women planning a hospital birth (see Table 2-40).

augmentation of labor (11.3%), epidural or spinal anesthesia

(9.8%), operative vaginal birth (0.7%) and cesarean section

Women who 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 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 nursemidwifery program and have an active nurse practitioner license. They may attend deliveries in hospitals, freestanding birth centers and homes. LDMs are direct entry midwives who have volunteered for state licensure through the Oregon Health

2010

2011

2012

2013

2014

2015

2016

2017

1,574

1.680

1,739

1,702

1,878

1,798

1,772

1,582

34.3

36.9

38.2

37.3

40.7

39.0

38.5

35.8

Licensing Agency. They must meet qualifications and adhere to Oregon regulations. Lay midwives who are not licensed in Oregon may also certify births, but they must register with the Center for Health Statistics. A major shift during the past few decades has been the increasing prevalence of births attended by certified nurse midwives. In 2017, 21.1% of planned hospital deliveries were CNM-attended. Women who planned outof-hospital births reported the following planned attendants: CNMs (31.2%), LDMs (45.2%), naturopathic physicians (13.5%) and other midwives (7.7%; see Table 2-38). Non-medical attendants such as spouses or emergency first responders delivered 128 babies in total, including 7.4% of out-of-hospital births (see Table 2-36).

## Method of delivery

In 2017 the rate of cesarean delivery was 28.1%, which was below the 2016 national rate of 31.9%. Among all births, 2.3% were vaginal deliveries after a previous cesarean delivery, and 10.9% were repeat cesarean deliveries. Most births (69.6%) continue to be vaginal deliveries without prior cesarean (see Table 2-37). Cesarean rates peaked in 2009, accounting for 29.4% of resident births. In 2017, 27.1% of births were by cesarean delivery. The current proportion is 4.4% lower than in 2009 but represents a 3.3% increase from the previous year.

## Infant health characteristics

## Period of gestation

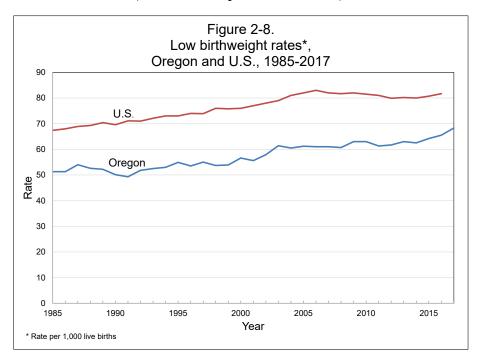
Preterm births (infants born prior to completion of 37 weeks' gestation) accounted for 8.3% of total births in 2017, lower than the provisional national rate for the year (9.9%; see Table 2-25). Proportions of preterm births were higher for non-Hispanic American Indian women (15.0%) and for non-Hispanic Hawaiian and Pacific Islanders (12.5%). Non-Hispanic Asian women had the lowest proportion of preterm births (7.5%; see Table 2-25).

Table 2-H. Certified nurse midwife deliveries, Oregon occurrence			
	Deliveries		
Year	<b>T</b> - 4 - 1	ln-	Out-of-
	Total	hospital	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
2015	9,238	8,894	344
2016	9,649	9,335	314
2017	9,444	9,050	394

#### Low birthweight

National Healthy People 2020 objective Percentage of live births resulting in low birthweight infant			
2017 Oregon actual:	6.8%		

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 "Chapter 7: Infant and fetal mortality" in Oregon Vital Statistics Annual Report 2017, Volume 2: Mortality.) The low birthweight rate is the proportion of infants who weigh less than 2,500 grams (5 pounds, 8 ounces) at birth. In 2017, 2,981 babies with low birthweight were 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 2017, the percentage of low birthweight births in Oregon remained well below this objective at 6.8%, or 68.3 per 1,000 live births. This rate is 3.0% higher than the previous year's. 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 2016, Oregon's rate was 19.8% lower than the national rate (65.5 vs. 81.7 per 1,000 births).



### **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).(5)

Among Oregon resident births in 2017, the prevalence of fetal macrosomia was 9.9%. As maternal age increases, the risk of fetal macrosomia tends to increase (see Table 2-24). Among women age 35 and older giving birth, 10.5% delivered infants weighing more than 4,000 grams. This is 5.9% greater than the state average (9.9%) and 64.1% higher than the rate for women under 20 years of age (6.4%; see Table 2-27).

In 2017, the prevalence of macrosomia was highest among non-Hispanic White women (10.9%). The lowest rates of macrosomia were found in non-Hispanic Asian women (4.5%) and non-Hispanic women of other or unknown race (6.5%; see Table 2-25).

### 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 are totaled. Total scores below 7, five minutes after birth, indicate poor to intermediate health at birth. In Oregon during 2017, 2.6% of infants had 5-minute Apgar scores below 7 (see tables 2-24 and 2-25). This percentage is nearly unchanged from 2016 (2.7%).

### Abnormal conditions and congenital anomalies

The most frequently reported conditions on birth certificates were admission to the neonatal intensive care unit, assisted ventilation required immediately after delivery, and assisted ventilation required for more than six hours (see tables 2-33 and 2-34). Congenital anomalies reported on birth certificates are shown in Table 2-35. Although Oregon occurrences of some anomalies were somewhat higher than national rates, congenital anomalies are believed to be underreported at the national level because their presence and severity at birth is difficult to recognize. Data users are advised to use caution in comparing annual occurrences for relatively small numbers.

### **Multiple births**

Although 3.6% of births in Oregon during 2017 were part of multiple births, the proportion varied widely by age, race and ethnicity. During 2017, mothers age 45 and older had the highest percentage of multiple births. The percentage of multiple births Among Oregon resident births in 2017, the biggest baby born was 14 lbs, 7 oz.

Table 2-I. Percentage of infants born weighing more than 4,000 grams, Oregon residents									
Year	Percent	Largest infant born (in grams)							
1990	14.2	6040							
1991	13.9	6265							
1992	13.8	5990							
1993	13.8	6010							
1994	13.8	5810							
1995	13.5	6265							
1996	13.1	6156							
1997	12.8	6060							
1998	13.0	6139							
1999	12.8	6293							
2000	12.8	6151							
2001	12.4	5981							
2002	11.8	5896							
2003	11.5	6180							
2004	10.9	5925							
2005	10.9	6497							
2006	10.7	5982							
2007	10.5	7000							
2008	10.7	7711							
2009	10.7	6804							
2010	10.4	6454							
2011	10.9	6401							
2012	10.6	6350							
2013	10.6	5845							
2014	10.7	5954							
2015	10.4	5970							
2016	10.3	6294							
2017	10.3	6549							

	delivery, Oreg Private	Self-	Medicaid
Year	insurance	pay	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
	0110	0.0	00
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
2015	51.7	1.5	45.5
2016	52.2	2.0	44.4
2010	51.5	2.0	45.1

for each age group ranged from 1.2% for mothers ages 15–19 to 16.0% of births to mothers age 45 and older. The percentage of multiple births generally increases with age (see Table 2-24). Non-Hispanic women of other or unknown race had the highest percentage of multiple births at 5.0% (see Table 2-25).

### Infertility treatment

Many infertility treatments increase a woman's chance of having twins, triplets or other multiples. Multiples are at higher risk for prematurity and low birthweight. During 2017, mothers age 45 and older had the highest rate of infertility treatment (410.0 per 1,000 births; see Table 2-23).

### Source of payment

The source of payment is reported as the expected primary payment source at the time of labor and delivery. 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. In 2017, reported birth certificate data indicated that private insurance companies paid for the majority of deliveries in Oregon (51.5%), down from 52.2% in 2016 (see sidebar Table 2-J). Medicaid programs (e.g., the Oregon Health Plan) paid for 45.1% of Oregon resident births. Note that delivery costs were more likely to be paid for by public insurance if the woman was under age 18 (see Table 2-14).

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Oregon resident births by age group of mother, selected years 1960-1995, 2000-2017 TABLE 2-1.

NS\* 0 0 4 8 470054 775 32023 0 - - 4 0  $\sim - -$ 0.2 0.2 0.2 0.2 0.2 0.2 0.02000 0.1 % 45+ ۶ 75 95 102 75 76 29 48 27 90 94 94 100 61 67 80 87 01 02 02 00 00 2.1 1.8 0.9 222222 2.2.2.3 0.5 0.4 2.0 2.0 ပထုတ္ထုတ္ 0 N N % ~~~~ പ്ന്ന് 40-44 1,007 1,008 1,036 1,067 1,102 1,343 1,468 1,419 799 582 324 167 185 281 585 848 1,051 1,084 1,114 1,101 1,165 202 242 287 282 340 ۶ 10.2 10.2 10.3 10.5 11.5 11.4 11.7 11.6 11.8 502 7.3 6.0 3.4 N4040 20200 % 15.1 ດ່ຕໍ່ດີຜູ້ດ 35-39 2,808 1,976 1,195 888 1,456 2,333 3,607 4,059 5,276 5,534 5,795 5,693 5,572 580 683 956 015 275 4,669 4,605 4,674 4,842 4,994 ,637 ,924 ,069 Å ີ ບໍ່ບໍ່ ບໍ່ ບໍ່ ບໍ່ oʻoʻ⊳ 13.8 11.5 9.5 10.7 15.1 20.3 20.9 21.6 21.7 22.3 22.8 22.8 23.6 23.4 22.7 23.0 23.1 23.4 24.5 20039 V - - 9 % 29. 29. 29. 28.27.25.29 Age group of mother 30-34 11,480 11,874 12,158 12,646 12,996 13,102 13,255 12,883 5,303 3,786 3,373 ,576 ,499 ,017 ,961 ,216 9,943 10,093 10,320 10,840 10,704 10,432 11,184 11,396 11,471 11,551 ۶ က်ယ်ထံထံတ် 24.4 23.2 27.7 27.7 27.4 28.0 28.4 28.4 <u>- 0 4 0 0</u> - 4 0 <del>γ</del>. ε က္ကထုထုတ္ - 4 M % 28.33.33. 29.29. 25-29 13,381 14,298 14,319 14,274 13,831 13,381 13,232 12,999 12,978 13,167 9,338 7,640 9,778 10,718 14,297 12,782 12,974 11,950 12,680 12,408 12,634 13,033 12,959 ,279 ,389 ,540 ۶ 0,0,0,0 ထုတ်က ထံ ဝဲ ထဲ တဲ ထဲ 25.4 25.0 24.8 24.4 23.1 22.6 21.9 21.5 21.1 20.3 n 4 o 0000 % 36.8 39.9 334.0 30.0 25.9 25.9 26.8 25.8 25.8 18.7 20-24 10,325 9,874 9,693 9,507 9,264 12,716 14,912 11,815 11,523 11,054 14,122 13,154 14,587 12,265 12,244 11,997 11,901 11,769 11,644 12,176 12,259 11,986 10,877 8,887 8,386 7,796 ۶ 11.1 9.8 9.0 8.7 15.4 17.5 17.0 15.6 13.1 10.5 11.9 12.7 5.0 4.4 8.7 8.8 9.1 9.7 8.6 7.7 6.9 6.3 5.7 5.3 % 15-19 5,090 4,819 4,410 3,980 ,992 ,263 ,328 ,474 ,074 5,896 5,758 6,027 5,206 5,658 4,136 5,080 5,437 ,511 ,135 ,849 ,595 ,392 ,289 ,008 ,809 ۶ . ຕໍ່ ຕໍ່ ດໍ່ ດໍ່ ດໍ່ 4 ດ່ ດ່ 🗝 0.00.0000 000 0.1 0.1.0 1.001.00 15 % o o o Under 67 71 76 104 52 50 33 39 39 66 51 55 55 27 23 20 20 15 13 23 41 41 ۶ 33,352 43,091 39,419 42,830 42,715 45,786 45,318 45,190 45,935 45,660 45,905 48,684 49,373 49,117 47,188 45,596 45,136 45,059 45,136 45,557 45,656 45,533 43,630 38,347 32,955 35,353 Total 2015 2016 2017 2010 2011 2012 2013 2013 1975 1980 1985 1990 1995 2000 2001 2003 2003 2004 2005 2006 2007 2008 2008 2009 Year 1960 1965 1970

indicates age not stated; the percentage is negligible.

SN

\*

			Age-specific	birth rates*			Fertility	Total
Year	15-19	20-24	25-29	30-34	35-39	40-44	15-44	fertility rate
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
2015	18.5	70.2	97.7	96.9	49.5	10.3	58.0	1,715.5
2016	16.2	65.5	97.0	96.2	50.5	11.1	57.0	1,681.2
2017	14.3	61.0	90.8	93.2	51.1	10.7	54.3	1,605.9

### TABLE 2-2. Age specific birth rates, fertility rates and totalfertility rates, Oregon, 1950, 1960, 1970, 1975-2017

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.' \_

	1	-	•			
Year			Age group	of mother	1	
real	15-19	20-24	25-29	30-34	35-39	40-44
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
2015	86.4	60.6	34.3	20.7	20.6	26.2
2016	85.1	61.3	35.0	21.0	20.8	28.7
2017	88.1	61.7	36.0	22.3	21.8	25.4
						<u> </u>

# TABLE 2-3. Percent of Oregon resident births tounmarried mothers by age of mother, 1975, 1980-2017

Live birth	Total	Age of mother									
order births	births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.	
Total	43,630	13	1,809	7,796	12,540	12,883	7,069	1,419	100	1	
First	16,878	13	1,572	4,194	4,799	4,104	1,800	369	27	_	
Second	14,237	_	213	2,595	4,188	4,383	2,437	394	27	_	
Third	7,161	-	20	808	2,300	2,438	1,343	237	14	1	
Fourth	3,213	_	4	176	900	1,193	745	186	9	_	
Fifth	1,254	-	-	20	265	491	372	96	10	-	
Sixth	455	_	_	1	60	162	182	49	1	-	
Seventh	216	_	_	2	20	62	95	33	4	_	
Eighth	106	_	_	_	4	33	50	17	2	_	
Ninth+	110	_	_	-	4	17	45	38	6	_	

TABLE 2-4. Age of mother by live birth order, Oregon resident births, 2017

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

	Boys		Girls				
Rank	Name	Count	Rank	Name	Count		
1	Oliver	233	1	Emma	211		
2	Liam	220	2	Olivia	209		
3	Benjamin	193	3	Sophia	159		
3	Henry	193	4	Charlotte	153		
5	William	181	5	Evelyn	147		
6	Noah	166	6	Amelia	145		
7	Logan	165	7	Harper	128		
8	James	160	8	Ava	120		
9	Wyatt	159	9	Міа	118		
10	Samuel	150	10	Abigail	116		
11	Elijah	147	11	Isabella	113		
12	Lucas	145	12	Hazel	109		
13	Daniel	138	13	Penelope	108		
14	Owen	131	14	Avery	99		
15	Mason	129	15	Emily	98		
16	Alexander	127	16	Audrey	92		
17	Ethan	121	17	Sofia	91		
17	lsaac	121	18	Elizabeth	89		
19	Michael	117	19	Lillian	88		
20	David	116	20	Paisley	86		
21	Carter	111	21	Aria	84		
22	Lincoln	110	22	Scarlett	83		
22	Theodore	110	23	Violet	82		
24	Jacob	107	24	Luna	80		
25	Levi	106	24	Nora	80		
26	Ezra	105	26	Ella	79		
27	Hunter	103	27	Addison	77		
28	Aiden	101	27	Lucy	77		
28	Jackson	101	29	Eleanor	75		
28	Luke	101	30	Aurora	74		
	Total boys' names: 4,629			Total girls' names: 6,164			

TABLE 2-5. Most frequently used baby names, Oregon occurrence,2017

Total 2017 Oregon occurrence births: 44,160

County of	All				Age grou	ups			
residence	ages	10-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	51,657	2,624	10,020	14,761	14,407	7,995	1,720	122	8
Baker	170	9	41	55	42	17	6	_	_
Benton	799	25	140	216	251	139	27	1	-
Clackamas	4,817	189	784	1,320	1,484	846	179	13	2
Clatsop	442	27	109	133	114	51	8	_	_
Columbia	614	42	132	199	145	83	13	_	_
Coos	662	44	173	209	152	66	16	2	_
Crook	285	22	80	83	60	30	10	_	_
Curry	187	17	43	59	42	21	5	-	-
Deschutes	2,179	90	379	602	678	351	75	4	_
Douglas	1,163	89	316	391	242	97	28	-	_
Gilliam	15	1	4	6	2	2	-	-	-
Grant	65	5	15	20	16	7	2	-	-
Harney	86	5	20	32	17	11	1	-	_
Hood River	294	17	46	77	85	48	21	—	_
Jackson	2,563	144	579	799	655	318	65	3	_
Jefferson	305	27	87	94	65	30	2	—	_
Josephine	1,000	67	253	300	237	116	25	2	-
Klamath	853	46	241	284	184	78	20	_	_
Lake	66	5	23	20	13	4	1	_	_
Lane	4,081	211	832	1,233	1,147	556	91	10	1
Lincoln	472	31	111	147	103	65	13	2	_
Linn	1,622	110	388	541	385	170	26	2	_
Malheur	430	42	139	134	73	40	2	_	_
Marion	5,065	336	1,134	1,588	1,244	589	162	12	_
Morrow	188	19	52	63	32	17	5	_	_
Multnomah	11,080	457	1,777	2,720	3,294	2,286	504	39	3
Polk	966	50	237	323	206	128	21	1	_
Sherman	15	_	3	6	5	1	_	_	_
Tillamook	252	15	55	81	65	25	9	2	_
Umatilla	1,154	107	294	359	264	105	23	2	-
Union	341	23	72	118	76	45	5	_	2
Wallowa	69	2	9	22	22	12	2	—	–
Wasco	351	23	78	110	96	38	6	_	_
Washington	7,743	268	1,127	2,028	2,537	1,436	321	26	_
Wheeler	10	-	3	_	6	1	_	_	_
Yamhill	1,252	59	244	389	367	166	26	1	l _

# TABLE 2-6. Pregnancies1 by age and county of residence,Oregon residents, 2017

Quantity is zero.
 N.S. = Not stated.
 Pregnancies include live births and induced abortions reported for Oregon residents.
 Detailed reporting of small numbers may breach confidentiality.

Detailed reporting of small numbers may breach confidentiality.

				Sing	le mention r	ace <sup>1</sup>			
т	Total		White	African American	American Indian	Chinese	Japanese	Other & unknown	Hispanic
	22.250	- 0	24.040	014	200	01	00	070	
	33,352		31,910	614	389	81	80	278	
	43,091		40,787	792	475	140	96	801	4 00
	39,419 42,830		35,877 39,808	784 917	519 745	141 230	129 162	745 968	1,22 2,96
	42,030			872	628	230	110		
·	42,710	15	39,566	072	028	222	110	1,317	4,99
. 4	45,786	36	41,584	1,015	727	273	142	2,045	7,39
	45,318		41,135	928	788	205	152	2,110	7,90
. 4	45,190	90	40,895	934	805	237	135	2,184	8,05
. 4	45,935	35	41,221	1,009	860	229	123	2,493	8,43
. 4	45,660	50	40,943	1,044	861	214	119	2,479	8,85
	45,905	15	41,180	995	846	214	120	2,550	9,16
	48,684		43,514	1,136	918	239	138	2,330	9,94
	49,373		44,082	1,177	953	235	108	2,808	10,12
	49,117		40,744	1,080	800	373	159	5,961	10,12
	47,188		39,222	1,000	720	368	147	5,725	9,69
	47,100		55,222	1,000	120	500	147	5,725	3,03
. 4	45,596	96	37,528	994	664	381	151	5,878	9,23
. 4	45,136	36	37,585	990	649	381	152	5,379	8,71
	45,059		37,238	971	636	435	134	5,645	8,52
. 4	45,136	36	37,384	989	665	398	144	5,556	8,44
. 4	45,557	57	37,377	996	559	439	125	6,061	8,51
	45 656	56	37 777	1 087	576	476	121	5 619	8,50
	,		· · ·			-		· ·	8,45
									8,26
. 2	45,557 45,656 45,533 43,630	56 33	37,377 37,777 37,246 35,367	996 1,087 1,008 1,075	559 576 541 550	439 476 479 499	125 121 114 127	5,619 6,145 6,012	

## TABLE 2-7. Resident births by race of mother, Oregon, selected years 1975-1995,2000-2017

			Any menti	on race and	ethnicity <sup>2</sup>				
	Total	White African American		Asian A		Native Hawaiian/ Other & Pacific unknown Islander		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	
2015	45,656	39,590	1,608	1,477	2,917	461	1,892	8,508	
2016	45,533	39,090	1,571	1,506	2,967	508	2,251	8,456	
2017	43,630	37,205	1,656	1,432	3,002	510	2,113	8,263	

\* Data not available.

1 Includes any ethnicity mention.

 2 Includes any entirety mention.
 2 Includes any race (one or more) and ethnicity mention.
 NOTE: Before 1981, neither Hispanic race nor ethnicity were recorded. Between 1981 and 1988, Hispanic was recorded as a race
 2 Refore 1981, neither Hispanic race nor ethnicity were recorded separately from race. For consistency, single mention race includes any 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.

County of	Total		Non	-Hispan	ic single	mentior	n race		
residence	births	White	Black	AI/ AN <sup>1</sup>	Asian	NH/ Pl <sup>2</sup>	Other/ NS <sup>3</sup>	Multiple races <sup>4</sup>	Hispanic <sup>5</sup>
Total	43,630	29,322	996	433	2,379	306	201	1,730	8,263
Baker	156	133	_	_	2	1	1	5	14
Benton	696	519	7	2	60	1	3	30	74
Clackamas	4,084	3,140	40	14	236	7	18	129	500
Clatsop	373	302	1	7	7	_	-	11	45
Columbia Coos	519 601	446 468	3 2	11 11	9 10	2	1 5	20 36	29 67
Coos	001	400	Z	11	10	Z	ວ	30	07
Crook	263	219	1	1	_	_	3	7	32
Curry	168	139	1	_	1	1	1	5	20
Deschutes	1,808	1,439	5	7	33	3	15	55	251
Douglas	1,070	947	3	12	10	2	1	34	61
Gilliam	14	13	-	-	-	-	-	1	_
Grant	63	59	—	-	_	-	-	1	3
Harney	73	65	_	3	_	_	_	_	5
Hood River	264	141	1	1	2	_	_	3	116
Jackson	2,249	1,607	12	12	38	13	15	115	437
Jefferson	264	126	1	61	2	1	3	10	60
Josephine	881	741	1	15	17	—	5	29	73
Klamath	789	546	6	39	7	1	7	47	136
Lake	62	55	_	1	_	_	1	2	3
Lane	3,458	2,616	34	32	107	6	33	180	450
Lincoln	404	302	4	9	8	_	1	11	69
Linn	1,464	1,180	10	13	25	1	2	64	169
Malheur	401	197	7	2	1	—	-	8	186
Marion	4,442	2,336	53	28	84	94	20	166	1,661
Morrow	169	75	_	2	_	_	1	2	89
Multnomah	8,423	5,215	582	43	686	93	34	403	1,367
Polk	860	625	3	19	18	4	5	22	164
Sherman	15	15	_	-	_	-	_	-	_
Tillamook	218	178	-	2	3	-	2	3	30
Umatilla	952	497	5	29	12	2	1	25	381
Union	298	258	_	3	5	8	_	4	20
Wallowa	64	61	_	_	_	_	_	1	2
Wasco	314	197	2	20	5	4	_	11	75
Washington	6,636	3,681	210	29	978	59	20	246	1,413
Wheeler	8	5	_	_	_	_	2	_	1
Yamhill	1,107	779	2	5	13	3	1	44	260

# TABLE 2-8. Ethnicity, race and county of residence of mother, Oregonresident births, 2017

Quantity is zero.

See footnotes at end of table.

TABLE 2-8. Ethnicity, race and county of residence of mother, Oregon resident
births, 2017 (continued)

	<b>- - - -</b>		Ar	ny mentic	on race a	nd ethn	icity <sup>6</sup>		
County of residence	Total births	White	Black	Al/ AN <sup>1</sup>	Asian	NH/ Pl <sup>2</sup>	Other	NS <sup>3</sup>	Hispanic <sup>5</sup>
Total	43,630	37,207	1,656	1,432	3,002	510	1,611	501	8,263
Baker	156	147	1	3	3	2	3	2	14
Benton	696	595	11	14	76	8	31	3	74
Clackamas	4,084	3,666	89	76	299	24	69	40	500
Clatsop	373	339	3	11	11	4	17	2	45
Columbia	519	491	8	30	11	1	4	-	29
Coos	601	548	6	40	17	6	8	18	67
Crook	263	254	2	7	1	_	4	2	32
Curry	168	161	2	7	1	1	3	1	20
Deschutes	1,808	1,662	23	46	47	6	87	11	251
Douglas	1,070	1,025	12	31	22	8	13	4	61
Gilliam	14	14	-	1	-	-	_	-	-
Grant	63	62	_	2	_	_	1	_	3
Harney	73	67	_	6	_	_	_	_	5
Hood River	264	259	2	4	4	_	_	_	116
Jackson	2,249	2,060	47	94	75	21	59	45	437
Jefferson	264	183	3	75	4	1	10	1	60
Josephine	881	823	5	43	21	2	18	7	73
Klamath	789	664	23	76	14	3	60	11	136
Lake	62	59	_	2	1	_	2	_	3
Lane	3,458	3,007	111	144	149	20	191	67	450
Lincoln	404	359	7	23	12	1	13	7	69
Linn	1,464	1,325	27	59	40	11	82	6	169
Malheur	401	373	11	11	1	1	15	3	186
Marion	4,442	3,463	107	151	125	117	586	131	1,661
Morrow	169	142	1	3	_	1	19	5	89
Multnomah	8,423	6,749	807	203	855	134	110	76	1,367
Polk	860	735	10	37	23	8	74	4	164
Sherman	15	15	_	_	_	_	_	_	_
Tillamook	218	202	1	5	4	_	6	3	30
Umatilla	952	833	21	49	19	4	47	17	381
Union	298	276	1	4	7	9	5	_	20
Wallowa	64	64	1	_	_	_	_	-	2
Wasco	314	278	4	31	8	5	1	-	75
Washington	6,636	5,251	296	116	1,125	102	50	25	1,413
Wheeler	8	6	-	-	-	-	-	2	1
Yamhill	1,107	1,050	14	28	27	10	23	8	260

Quantity is zero.
1 Includes American Indian and Alaskan Native.
2 Includes Native Hawaiian and Pacific Islander.
3 NS indicates race not stated.
4 Non-Hispanic, two or more mention race
5 Includes any race.
6 Includes any race (one or more) and ethnicity mention.

County of residence	Total births	Number unmarried	Percent unmarried <sup>1</sup>
Total	43,630	15,738	36.2
Baker	156	69	44.2
Benton	696	139	§ 20.0
Clackamas	4,084	1,103	§ 27.0
Clatsop	373	154	41.3
Columbia	519	198	38.2
Coos	601	313	§ 52.2
Crook	263	97	36.9
Curry	168	47	52.2
Deschutes	1,808	547	§ 30.3
Douglas	1,070	514	§ 48.1
Gilliam	14	7	50.0
Grant	63	22	34.9
Harney	73	25	34.2
Hood River	264	84	31.8
Jackson	2,249	976	§ 43.5
Jefferson	264	147	§ 55.7
Josephine	881	427	§ 48.6
Klamath	789	378	§ 48.0
Lake	62	24	38.7
Lane	3,458	1,431	§ 41.4
Lincoln	404	206	§ 51.0
Linn	1,464	551	37.7
Malheur	401	203	§ 50.6
Marion	4,442	1,851	§ 41.7
Morrow	169	73	43.2
Multnomah	8,423	2,860	§ 34.0
Polk	860	307	35.7
Sherman	15	6	40.0
Tillamook	218	93	42.9
Umatilla	952	486	§ 51.1
Union	298	118	39.6
Wallowa	64	21	32.8
Wasco	314	131	41.7
Washington	6,636	1,740	§ 26.3
Wheeler	8	3	37.5
Yamhill	1,107	387	35.0

#### TABLE 2-9. Births to unmarried mothers, Oregon residents, 2017

Percent of total live births where marital status is known.
Percent unmarried is significantly different from the state.

### TABLE 2-10. Age of mother and county of residence, Oregon resident births, 2017

County of residence	Total births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	43,630	13	1,809	7,796	12,540	12,883	7,069	1,419	100	1
Baker Benton Clackamas Clatsop Columbia Coos	156 696 4,084 373 519 601	- 1 1 - 1	8 12 102 15 30 33	38 98 570 90 101 158	54 192 1,139 112 169 195	38 239 1,360 103 135 141	15 129 756 45 74 58	3 25 146 7 10 13	- 1 10 - 2	- - - -
Crook Curry Deschutes Douglas Gilliam Grant	263 168 1,808 1,070 14 63	- - - -	18 12 54 74 1 4	73 38 271 297 4 14	76 57 502 361 6 20	58 36 614 223 2 16	28 20 309 89 1 7	10 5 54 26 - 2	- 4 - -	- - - -
Harney Hood River Jackson Jefferson Josephine Klamath	73 264 2,249 264 881 789		1 15 109 19 56 42	17 41 504 72 222 217	30 67 715 86 266 264	16 78 580 57 214 175	8 46 281 29 101 72	1 17 57 1 20 19	- - 3 - 2 -	- - - -
Lake Lane Lincoln Linn Malheur Marion	62 3,458 404 1,464 401 4,442	- 1 - - 1	5 140 27 86 34 259	23 636 95 340 128 962	18 1,082 125 493 130 1,399	13 1,033 91 369 68 1,139	3 485 54 153 39 522	- 72 10 22 2 149	- 9 2 1 - 11	- - - -
Morrow Multnomah Polk Sherman Tillamook Umatilla	169 8,423 860 15 218 952	1 3 - - 1	10 272 43 - 10 71	45 1,098 198 3 45 251	59 1,910 294 6 69 314	32 2,746 193 5 62 209	17 1,974 115 1 22 88	5 390 16 - 8 18	- 29 1 - 2 -	- 1 - - -
Union Wallowa Wasco Washington Wheeler Yamhill	298 64 314 6,636 8 1,107	- - 3 -	18  19 162 - 48	58 8 66 818 3 194	104 22 102 1,749 - 353	70 22 86 2,321 4 335	43 10 36 1,284 1 154	5 2 5 277 - 22	- - 22 - 1	- - - - -

Quantity is zero. N.S. = Not stated. \_

						-,				
County of residence	Total births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	15,738	13	1,594	4,812	4,519	2,870	1,541	360	28	1
Baker	69	_	6	24	24	8	5	2	_	_
Benton	139	_	9	51	39	24	13	3	_	_
Clackamas	1,103	1	87	316	314	221	131	31	2	-
Clatsop	154	1	11	50	45	33	13	1	-	_
Columbia	198	-	28	59	61	28	19	3	-	-
Coos	313	1	29	102	99	60	17	5	-	-
Crook	97	_	14	39	20	17	4	3	_	_
Curry	47	_	6	13	12	10	5	1	-	_
Deschutes	547	-	50	151	167	105	62	11	1	-
Douglas	514	-	60	182	168	58	36	10	-	-
Gilliam	7	_	1	3	3	-	-	-	-	_
Grant	22	_	3	10	5	1	1	2	-	-
Harney	25	_	1	10	9	5	_	-	_	_
Hood River	84	-	12	22	22	15	11	2	-	-
Jackson	976	-	95	321	264	193	79	23	1	-
Jefferson	147	-	19	52	43	24	9	_	-	-
Josephine	427	_	50	145	133	62	29	7	1	-
Klamath	378	_	35	144	115	60	20	4	-	-
Lake	24	_	4	14	3	2	1	_	_	_
Lane	1,431	1	125	422	441	281	132	25	4	_
Lincoln	206	_	25	68	60	29	21	3	-	_
Linn	551	-	77	187	147	107	28	5	-	-
Malheur	203	_	30	81	56	21	15	-	-	-
Marion	1,851	1	232	603	538	286	146	40	5	-
Morrow	73	1	9	31	20	4	6	2	-	_
Multnomah	2,860	3	247	704	764	627	411	94	9	1
Polk	307	_	40	121	90	30	24	2	-	_
Sherman	6	-	-	2	2	2	-	-	-	-
Tillamook	93	_	9	28	27	16	9	4	-	_
Umatilla	486	1	66	168	134	74	37	6	_	-
Union	118	_	14	33	39	18	12	2	-	_
Wallowa	21	-	-	6	8	4	3	_	-	_
Wasco	131	_	16	42	36	24	11	2	-	_
Washington	1,740	3	138	490	496	349	202	57	5	-
Wheeler	3	-		3		_		_	-	_
Yamhill	387	-	46	115	115	72	29	10	-	-

# TABLE 2-11. Unmarried mothers by age of mother and county of residence,Oregon resident births, 2017

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

# TABLE 2-12. Region and selected country of mother's birth by continent of<br/>father's birth, Oregon residents, 2017

Degion 9 colocted			Con	itinent of fa	ather's bi	rth	
Region & selected country of mother's birth	Total	North & Central America	South America	Europe	Asia	Africa	Other & unknown
Total	43,630	36,174	130	896	2,098	516	3,816
North America	38,794	34,380	81	380	353	115	3,485
Canada	153	<sup></sup> 135	_	2	7	2	, 7
Mexico	3,289	3,025	5	7	8	1	243
United States	35,352	31,220	76	371	338	112	3,235
Central America	403	349	1	-	2	-	51
El Salvador	93	79	_	_	1	_	13
Guatemala	221	193	_	_	_	_	28
Carribean	60	54	1	_	1	_	4
South America	179	123	39	6	5	2	4
Brazil	40	25	8	2	2	1	2
East Europe	724	187	_	362	152	2	21
Moldava	42	1	_	32	8	-	1
Romania	85	37	_	43	4	-	1
Russia	163	51	_	47	59	-	6
Ukraine	340	57	_	214	61	2	6
North Europe	137	95	-	29	9	1	3
United Kingdom	84	58	_	17	6	1	2
South Europe	88	45	_	37	1	1	4
West Europe	169	130	2	25	4	3	5
Germany	122	100	2	11	3	2	4
East Asia	717	280	3	8	415	1	10
China	371	83	1	4	278	_	5
Japan	113	76	1	1	33	1	1
South Korea	155	90	1	3	57	_	4
Taiwan	65	23	_	_	42	_	_
Southeast Asia	689	303	2	8	347	6	23
Laos	20	1	-	-	18	-	1
Philippines	207	144	1	6	49	2	5
Thailand	90	60	-	-	26	2	2
Vietnam	268	61	-	1	195	1	10
South Asia	614	42	_	2	567	-	3
India	476	31	-	2	440	-	3
Central Asia	74	19	-	18	34	1	2
Middle East	268	42	-	15	198	9	4
Iraq	60	1	-	1	57	-	1
Saudi Arabia	68	5	-	-	56	5	2
East Africa	302	29	1	-	2	245	25
Ethiopia	99	6	-	-	— -	84	9
Somalia	134	5	-	-	1	119	9
North Africa	65	6	-	1	2	53	3
Oceania	209	53	-	2	3	-	151
Australia & New		<b>_</b> .		_			-
Zealand	31	24	-	2	1	-	4
Micronesia	154	19	-	-	-	-	135
Other & unknown				_	_		
countries	138	37	-	3	3	77	18

Quantity is zero.

TABLE 2-13. Race, ethnicity,		ind place (percent)	of birth o , Oregon ı	and place of birth of mother by selected demographic characteristics (percent), Oregon resident births, 2017	oy selec irths, 20	ted demoç 17	graphic .	characte	ristics
				Non-Hispanic single mention race	single me	ention race			
Characteristic of mother	Total	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ NS <sup>1</sup>	Multiple races	Hispanic <sup>2</sup>
Total Ratio of males to females <sup>3</sup>	43,630 1,060	29,322 1,062	996 1,110	433 1,107	2,379 1,063	306 987	201 1,094	1,730 1,133	8,263 1,031
			All t	All births					
All births	43,630 4.2	29,322 3.3	996 4.6	433 7.6	2,379 0.4	306 7.2	201 2.5	1,730 6.0	8,263 7.8
4 or more live births	12.3 36.2	10.7 32.1	19.1 52.9	23.3 68.5	4.0 12.0	26.5 53.6	14.4 44.6	12.3 50.5	18.4 50.1
Less than 12 years education	12.6	7.4	18.9	20.3	5.3	21.4	11.9	12.3	31.5
		Moth	lers born in	Mothers born in the United States	States				
Total born in the U.S.	35,352	27,564	566	429	454	143	150	1,625	4,421
Age 10-19	4.6 10.9	3.4 10.3	6.9 15.2	7.7 23.5	1.3 7.0	9.1 21.0	2.7 16.7	6.3 12.2	11.3 12.1
Unmarried mothers Less than 12 years education	38.1 9.3	33.5 7.4	72.0 11.5	68.5 20.5	25.8 3.1	48.3 10.6	49.7 7.8	52.6 12.5	55.1 18.6
		Mother	s born outsi	Mothers born outside the United States	ed States				
Total born outside of the U.S Age 10-19	8,278 2.3	1,758 0.9	430 1.6	4	1,925 0.2	163 5.5	51 2.0	105 1.0	3,842 3.9
4 or more live births Unmarried mothers Less than 12 years education	18.2 27.9 26.7	16.2 10.3 6.9	24.2 27.9 28.8	_ 75.0 _	3.2 8.8 5.9	31.3 58.3 30.7	7.8 29.2 22.5	12.4 18.1 9.5	25.8 44.4 46.5

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TABLE 2-13. Race, ethnicity, and place of birth of mother by selected demographic characteristics (percent), Oregon resident births, 2017 (continued)
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	an Jack	nu, oreg	oli residel	rcenty, Oregon resident birms, 2017 (continued)		ununea)			
				Any mention race and ethnicity <sup>4</sup>	ו race and	ethnicity <sup>4</sup>			
Characteristic of mother	Total	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic <sup>2</sup>
Total Ratio of males to females <sup>3</sup>	43,630 1,060	37,207 1,058	1,656 1,131	1,432 1,104	3,002 1,080	510 1,116	1,611 1,065	501 1,053	8,263 1,031
			AILE	All births					
All births Age 10-19	43,630 4.2	37,207 4.2	1,656 5.7	1,432 7.3	3,002 1.1	510 6.5	1,611 7.4	501 6.6	8,263 7.8
4 or more live births Unmarried mothers Less than 12 years education	12.3 36.2 12.6	11.9 35.8 11.5	17.4 58.7 16.8	17.2 60.4 18.0	4.9 16.5 5.9	21.2 51.0 17.4	20.3 49.0 33.7	18.4 50.4 33.1	18.4 50.1 31.5
		Moth	ners born in	Mothers born in the United States	States				
Total born in the U.S Age 10-19	35,352 4.6 10.9	32,603 4.4 10.6	1,191 7.3 15.2	1,392 7.4 17 2	981 2.8 7.4	326 7.4 16.3	706 12.5 10.9	267 6.0 14 6	4,421 11.3 12.1
Unmarried mothers Less than 12 years education		36.5 8.9	70.5 12.6		31.7 5.4	49.1 10.5	55.9 18.2	53.0 14.9	55.1 18.6
		Mother	s born outsi	Mothers born outside the United States	ed States				
Total born outside of the U.S Age 10-19	8,278 2.3	4,604 2.6	465 1.5	40 5.0	2,021 0.2	184 4.9	905 3.4	234 7.3	3,842 3.9
4 or more live births	18.2 27.9	21.5 30.7	23.0 28.6	17.5 35.0	3.7 9.2	29.9 54.3	27.6 43.7	22.6 47.4	25.8 44.4
Less than 12 years education	26.7	30.4	27.7	30.8	6.1	29.3	46.0	51.4	46.5

Quantity is zero.
 NS = Not stated.
 Hispanic ethnicity may include any race.
 Ratio of male live births per 1,000 female live births.
 Includes any race (one or more) and ethnicity mention.
 NOTE: Rates and percentages are calculated excluding missing and unknown values.

Natality

Characteristics	Total	Private insurance	Medicaid- /OHP*	Self-pay	Other	Unknown
	Mothe	er's age and	marital stat	us		
TotalMarriedUnmarriedLess than 18MarriedUnmarried18-24MarriedUnmarried25-34MarriedUnmarried35+Married	43,630 27,761 15,738 394 9 385 9,224 3,151 6,034 25,423 17,963 7,389 8,588 6,638	22,407 18,696 3,669 63 1 62 2,554 1,308 1,239 14,129 12,408 1,694 5,660 4,979	19,632 7,911 11,700 322 8 314 6,391 1,686 4,699 10,294 4,796 5,485 2,625 1,421	885 677 196 3 - 3 130 81 47 567 449 112 185 147	593 418 120 4 - 4 125 72 30 368 272 71 96 74	113 59 53 2 - 24 4 19 65 38 27 22 17
Unmarried	1,929	673	1,202	34	15	5
		First trimes	ter care			
Total Married Unmarried Percent Married Unmarried	34,597 23,367 11,151 79.9 84.7 71.5	19,753 16,685 3,036 88.6 89.7 83.1	13,789 5,858 7,920 70.9 74.7 68.4	531 437 89 61.5 66.2 46.1	457 346 80 77.9 83.2 67.2	67 41 26 62.6 70.7 53.1
	Ina	adequate pro	enatal care			
Total Married Unmarried Percent Married Unmarried	2,636 1,051 1,564 6.1 3.8 10.1	590 426 161 2.7 2.3 4.4	1,823 513 1,302 9.4 6.6 11.3	163 90 68 18.8 13.6 35.4	39 14 20 6.7 3.4 16.8	21 8 13 19.6 13.8 26.5
		Tobacco	ouse			
Percent	9.2	2.4	17.1	6.4	8.8	20.6
		Alcohol	use			
Percent	0.9	1.1	0.6	1.5	0.6	2.2
		Low birth	weight			
Percent	6.8	6.2	7.7	3.8	8.1	3.5

### TABLE 2-14. Maternal characteristics by principal method of payment for delivery, Oregon resident births, 2017

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 represents expected prinical method of payment for delivery. Actual method of payment may differ.

#### Tobacco use County of Total Tobacco use by age of mother residence births Number % <20 20-24 25-29 30-34 35-39 40+ 9.0 43,630 3,891 1,068 1,330 Total ..... 19.4 Baker ..... 6.3 Benton ..... 4,084 5.5 Clackamas ..... Clatsop ..... 12.9 Columbia ..... 14.3 20.4 Coos ..... 19.5 Crook ..... 18.2 Curry ..... \_ 1,808 9.3 Deschutes ..... 20.0 1,070 Douglas ..... Gilliam ..... 28.6 Grant ..... 11.3 \_ \_ \_ Harney ..... 16.4 \_ \_ Hood River ..... 2.7 \_ \_ Jackson ..... 2,249 12.5 Jefferson ..... 12.0 \_ Josephine ..... 18.2 Klamath ..... 13.3 22.6 Lake ..... 3,458 12.0 Lane ..... Lincoln ..... 18.1 1,464 13.8 Linn ..... 14.2 Malheur ..... 8.1 4,442 Marion ..... 12.5 Morrow ..... 8,423 5.9 Multnomah ..... 9.4 Polk ..... Sherman ..... 13.3 \_ \_ 13.8 Tillamook ..... \_ Umatilla ..... 11.6 \_ Union ..... 14.8 Wallowa ..... 7.8 \_ \_ Wasco ..... 13.1 6,636 Washington ..... 3.4 Wheeler ..... \_\_\_\_ \_ Yamhill ..... 1,107 10.4

## TABLE 2-15. Reported use of tobacco by mother's ageand county of residence, Oregon births, 2017

- Quantity is zero.

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

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

					_				
County of residence	Total births	Inade- quate care <sup>1</sup>	Minority race/ ethnicity <sup>2</sup>	Age < 18	Age >=35	4+ live births	<12 years educ.	Unmar- ried	Tobacco use
				Percen	t of births	with risk	factor		
Total	43,630	6.1	32.8	0.9	19.7	12.3	12.6	36.2	9.0
	40,000	0.1	02.0	0.0	10.7	12.0	12.0	00.2	0.0
Baker	156	9.7	14.7	0.6	11.5	18.6	12.9	44.2	19.4
Benton	696	3.3	25.4	0.3	22.3	9.5	5.3	20.0	6.3
Clackamas	4,084	5.7	23.1	0.4	22.3	10.7	7.4	27.1	5.5
Clatsop	373	5.6	19.0	0.8	13.9	7.8	15.1	41.3	12.9
Columbia	519	6.9	14.1	0.8	16.2	13.5	12.2	38.2	14.3
Coos	601	7.7	22.1	1.0	12.1	16.3	17.1	52.2	20.4
Crook	263	3.5	16.7	0.4	14.4	12.5	14.2	36.9	19.5
Curry	168	9.2	17.3	_	14.9	10.1	16.9	52.2	18.2
Deschutes	1,808	2.7	20.4	0.7	20.3	10.1	8.9	30.3	9.3
Douglas	1,070	5.7	11.5	0.8	10.7	12.7	13.7	48.1	20.0
Gilliam	14	28.6	7.1		7.1		7.1	50.0	28.6
Grant	63	9.5	6.3	-	14.3	17.5	9.8	34.9	11.3
Harney	73	2.9	11.0	_	12.3	13.7	6.8	34.2	16.4
Hood River	264	6.9	46.6	_	23.9	13.6	17.8	31.8	2.7
Jackson	2,249	6.6	28.5	1.1	15.2	11.5	15.4	43.5	12.5
Jefferson	264	7.4	52.3	0.8	11.4	23.1	21.0	55.7	12.0
Josephine	881	7.1	15.9	1.6	14.0	12.5	12.9	48.6	18.2
Klamath	789	9.2	30.8	1.0	14.0	15.6	14.8	48.0	13.3
	709	9.2	50.0	1.1	11.5	15.0	14.0	40.0	15.5
Lake	62	8.1	11.3	1.6	4.8	6.5	27.4	38.7	22.6
Lane	3,458	7.4	24.3	1.0	16.4	10.8	10.6	41.4	12.0
Lincoln	404	5.0	25.2	1.7	16.3	11.4	19.1	51.0	18.1
Linn	1,464	4.7	19.4	0.9	12.0	13.3	12.8	37.7	13.8
Malheur	401	12.3	50.9	2.2	10.2	22.2	23.6	50.6	14.2
Marion	4,442	6.2	47.4	1.6	15.4	17.7	18.5	41.7	8.1
Morrow	169	11.3	55.6	0.6	13.0	20.7	24.4	43.2	12.5
Multnomah	8,423	7.4	38.1	0.8	28.4	10.8	12.2	34.0	5.9
Polk	860	4.0	27.3	1.2	15.3	13.4	10.0	35.7	9.4
Sherman	15		_	_	6.7	13.3	13.3	40.0	13.3
Tillamook	218	6.9	18.3	1.8	14.7	14.7	10.2	42.9	13.8
Umatilla	952	6.0	47.8	1.0	11.1	18.0	21.1	51.1	11.6
Union	298	9.9	13.4	0.7	16.1	17.8	12.1	39.6	14.8
Wallowa	64	3.2	4.7	-	18.8	15.6	4.7	32.8	7.8
Wasco	314	6.5	37.3	0.3	13.1	17.5	18.2	41.7	13.1
Washington	6,636	4.4	44.5	0.7	23.9	9.8	10.2	26.3	3.4
Wheeler	<sup>′</sup> 8	-	*	_	*	*		*	-
Yamhill	1,107	5.2	29.6	0.6	16.0	11.0	10.6	35.1	10.4

TABLE 2-16. Maternal risk factors by county of residence, Oregon, 2017

Quantity is zero.
 Less than five prenatal visits or care began in the third trimester.
 Includes nonwhite race and Hispanic ethnicity.

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

NOTE: Risk factors expressed as a percentage of mothers within each risk category. Rates and percentages are calculated excluding missing and unknown values.

### TABLE 2-17. Prenatal care by mother's age, Oregon residents, 2017

Mother's age	Total	First trime	ester care	Inadequat cai	e prenatal <sup>re1</sup>
	births	Number	Percent	Number	Percent
Total	43,630	34,597	79.9	2,636	6.1
Less than 15	13	7	53.8	4	30.8
15-19	1,809	1,194	66.6	170	9.5
20-24	7,796	5,768	74.7	669	8.7
25-29	12,540	9,904	79.5	747	6.0
30-34	12,883	10,707	83.7	590	4.6
35-39	7,069	5,834	83.2	367	5.3
40-44	1,419	1,099	78.3	87	6.2
45+	100	83	83.0	2	2.0
Unknown	1	1	100.0	_	_

Quantity is zero.
 Less than five prenatal visits or care began in the third trimester.

<b>TABLE 2-18</b> .	Prenatal care by mother's race and ethnicity,
	Oregon residents, 2017

Mother's race/ethnicity	Total	First trime	ester care	Inadequat car		Adeq	uate			
	births	Number	Percent	Number	Percent	Number	Percent			
Total	43,630	34,597	79.9	2,636	6.1	40,485	93.9			
	Non	-Hispanic si	ngle mentio	n race						
Total non-Hispanic	35,367	28,539	81.2	2,009	5.7	33,023	94.3			
White	29,322	24,087	82.7	1,449	5.0	27,601	95.0			
African American	996	694	70.5	, 111	11.3	873	88.7			
American Indian	433	281	65.8	55	12.9	370	87.1			
Asian	2,379	1,930	81.6	122	5.2	2,240	94.8			
Hawaiian/Pacific Islander	306	129	42.4	96	31.7	207	68.3			
Other/unknown	201	124	63.9	32	16.6	161	83.4			
Multiple races	1,730	1,294	75.1	144	8.4	1,571	91.6			
Hispanic single mention race										
Total Hispanic	8,263	6,058	74.2	627	7.8	7,462	92.2			
White	6,047	4,435	74.3	469	7.9	5,445	92.1			
African American	79	61	77.2	5	6.3	74	93.7			
American Indian	117	85	72.6	11	9.5	105	90.5			
Asian	29	22	75.9	3	10.3	26	89.7			
Hawaiian/Pacific Islander	10	6	66.7	1	11.1	8	88.9			
Other/unknown	1,761	1,295	74.2	121	7.0	1,605	93.0			
Multiple races	220	154	70.6	17	7.9	199	92.1			
	Ang	y mention ra	ce and ethr	nicity <sup>2</sup>						
White	37,207	29,897	81.0	2,069	5.6	34,721	94.4			
African American	1,656	1,188	72.3	172	10.5	1,466	89.5			
American Indian	1,432	997	70.2	146	10.4	1,263	89.6			
Asian	3,002	2,409	80.8	161	5.4	2,817	94.6			
Hawaiian/Pacific Islander	510	275	54.7	114	22.8	387	77.2			
Other	1,611	1,184	74.0	115	7.3	1,467	92.7			
Unknown	501	342	69.9	50	10.4	433	89.6			
Hispanic	8,263	6,058	74.2	627	7.8	7,462	92.2			

Less than five prenatal visits or care began in the third trimester.
 Includes any race (1 or more) and ethnicity mention.

#### Inadequate prenatal First trimester care care<sup>1</sup> Mother's Total education births Number Percent Number Percent Total ..... 43,630 34,597 79.9 2,636 6.1 8th grade or less ..... 1,243 783 64.3 161 13.4 9th to 12th grade, no diploma ...... 4,212 2,754 66.2 545 13.2 High school graduate or GED ..... 9,893 7,281 74.2 792 8.1 Some college, no degree ..... 10,421 8,253 79.7 580 5.6 Associate degree ..... 3,555 2,952 83.5 143 4.1 Bachelor's degree ..... 8,798 7,682 87.8 248 2.8 Master's degree ..... 90.5 2.4 3,923 3,530 92 Doctorate or professional degree ... 1,367 1,232 90.5 38 2.8 62.8 Unknown ..... 218 130 37 18.0

### TABLE 2-19. Prenatal care by mother's education,<br/>Oregon residents, 2017

<sup>1</sup> Less than five prenatal visits or care began in the third trimester.

County of	Total	First trime	ester care	Inadequat cai	
residence	births	Number	Percent	Number	Percent
Total	43,630	34,597	79.9	2,636	6.1
Baker	156	125	80.6	15	9.7
Benton	696	567	81.7	23	§ 3.3
Clackamas	4,084	3,311	81.7	231	5.7
Clatsop	373	288	77.2	21	5.6
Columbia	519	411	80.3	35	6.9
Coos	601	487	81.7	46	7.7
Crook	263	206	79.8	9	3.5
Curry	168	109	§ 66.9	15	9.2
Deschutes	1,808	1,516	84.4	49	§ 2.7
Douglas	1,070	891	83.5	61	5.7
Gilliam	14	9	64.3	4	28.6
Grant	63	53	84.1	6	9.5
Harney	73	61	84.7	2	2.9
Hood River	264	222	87.1	17	6.9
Jackson	2,249	1,773	79.3	148	6.6
Jefferson	264	190	73.9	19	7.4
Josephine	881	697	79.5	62	7.1
Klamath	789	566	§ 72.0	72	§ 9.2
Lake	62	41	66.1	5	8.1
Lane	3,458	2,612	§ 75.8	254	§ 7.4
Lincoln	404	338	83.9	20	5.0
Linn	1,464	1,214	83.4	69	4.7
Malheur	401	267	§ 67.3	49	§ 12.3
Marion	4,442	3,407	77.2	270	6.2
Morrow	169	110	§ 65.5	19	§ 11.3
Multnomah	8,423	6,616	79.0	618	§ 7.4
Polk	860	671	78.4	34	§ 4.0
Sherman	15	13	86.7	-	–
Tillamook	218	142	§ 65.4	15	6.9
Umatilla	952	693	§ 74.0	56	6.0
Union	298	245	83.6	29	§ 9.9
Wallowa	64	52	82.5	2	3.2
Wasco	314	254	82.7	20	6.5
Washington	6,636	5,508	§ 84.1	284	§ 4.4
Wheeler	8	*	*	*	*
Yamhill	1,107	925	83.9	57	§ 5.2

# TABLE 2-20. Prenatal care by mother'scounty of residence, Oregon residents, 2017

Quantity is zero.

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.

County of	Total	First trime	ester care	Inadequat cai	
residence	births	Number	Percent	Number	Percent
Total	15,738	11,151	71.5	1,564	10.1
Baker	69	52	75.4	7	10.1
Benton	139	94	67.6	6	§ 4.3
Clackamas	1,103	788	71.8	116	10.6
Clatsop	154	111	72.1	10	6.5
Columbia	198	145	75.1	22	11.5
Coos	313	232	75.3	32	10.4
Crook	97	76	78.4	5	5.2
Curry	47	30	65.2	6	12.8
Deschutes	547	403	74.5	24	§ 4.5
Douglas	514	405	78.8	44	8.6
Gilliam	7	*	*	*	*
Grant	22	17	77.3	2	9.1
Harney	25	15	62.5	2	8.7
Hood River	84	64	80.0	8	10.4
Jackson	976	725	74.5	103	10.6
Jefferson	147	102	71.3	13	9.2
Josephine	427	319	75.2	44	10.4
Klamath	378	244	65.1	46	12.2
Lake	24	15	62.5	3	12.5
Lane	1,431	972	68.4	157	11.1
Lincoln	206	166	81.0	14	6.8
Linn	551	430	78.8	32	§ 5.9
Malheur	203	127	63.2	35	§ 17.4
Marion	1,851	1,256	68.5	201	11.2
Morrow	73	40	55.6	11	15.3
Multinamah	0.000	4 0 7 0	00.0	200	\$ 40 -

#### TABLE 2-21. Prenatal care by resident county for unm

-1 Quantity is zero.

Multnomah .....

Polk .....

Sherman .....

Tillamook .....

Umatilla .....

Union .....

Wallowa .....

Wasco .....

Washington ......

Wheeler .....

Yamhill .....

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

§ Percent is significantly different from the state.

2,860

307

6

93

486

118

21

131

387

3

1,740

Detailed reporting of small numbers may breach confidentiality. WARNING: Rates and percentages based on less than five events are unreliable.

1,978

216

53

332

85

16

101

304

1,227

69.6

70.6

57.6

69.2

73.3

80.0

78.3

72.1

79.6

360

20

8

40

14

12

25

138

§ 12.7 6.7

8.7

8.3

12.1

9.3

6.6

§ 8.2

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

Birthweight	Total	First trime	Inadequate care <sup>1</sup>							
(in grams)	births	Number	Percent	Number	Percent					
Total	43,630	34,597	79.9	2,636	6.1					
Low birthweight										
Total low birthweight	2,981	2,307	78.4	350	12.0					
499 & less	58	47	85.5	33	60.0					
500-999	152	115	77.7	48	33.1					
1000-1499	247	188	77.7	32	13.2					
1500-1999	555	417	76.1	64	11.8					
2000-2499	1,969	1,540	79.0	173	8.9					
Birt	hweight gr	eater than	2499 gram	S						
2500-2999	6,917	5,409	78.9	489	7.2					
3000-3499	16,434	12,952	79.4	989	6.1					
3500-3999	12,967	10,414	80.9	630	4.9					
4000-4499	3,684	2,994	81.7	153	4.2					
4500-4999	581	466	80.6	23	4.0					
5000 & over	61	51	86.4	2	3.4					
Unknown	5	4	80.0	-	-					

## TABLE 2-22. Prenatal careby birthweight, Oregon residents, 2017

- Quantity is zero.

<sup>1</sup> Less than five prenatal visits or care began in the third trimester.

### TABLE 2-23. Rates<sup>1</sup> of selected medical risk factors by age of mother, Oregon residents, 2017

Medical risk factor of mother	Total births <sup>2</sup>	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Total births	43,630	13	1,809	7,796	12,540	12,883	7,069	1,419	100
Diabetes-chronic Diabetes-gestational	9.4 87.3	_ 76.9	3.3 28.2	6.7 52.6	7.3 70.6	9.3 98.5	15.7 124.9	19.7 202.3	20.0 250.0
Hypertension-chronic Hypertension-gestational	20.0 82.3	_ 153.8	7.7 99.5	10.8 86.7	15.6 76.1	23.1 77.9	28.9 88.8	49.3 96.5	80.0 80.0
Eclampsia	5.4	_	12.2	5.0	6.2	4.0	5.2	6.3	10.0
Previous preterm infant <sup>3</sup>	36.0	-	7.2	30.7	33.7	38.2	46.1	50.7	50.0
Infertility treatment <sup>4</sup>	27.5	_	_	5.4	14.4	31.0	57.2	94.4	410.0
Previous cesarean delivery	132.4	_	19.3	73.5	121.7	157.2	181.9	216.3	240.0

\_ 1 Quantity is zero.

Rates per 1,000 mothers.

Kates per 1,000 mores.
Total includes mothers with unstated age.
Gestation less than 37 completed weeks.
Includes pregnancies resulting from fertility enhancing drugs and/or assisted reproductive technology. NOTE: Rates and percentages are calculated excluding missing and unknown values.

	Total												
Characteristic	births <sup>1</sup>	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+				
All births - mother													
Total births	43,630	13	1,809	7,796	12,540	12,883	7,069	1,419	100				
First trimester care	79.9	53.8	66.6	74.7	79.5	83.7	83.2	78.3	83.0				
Inadequate care <sup>2</sup>	6.1	30.8	9.5	8.7	6.0	4.6	5.3	6.2	2.0				
No prenatal care	0.8	-	1.3	1.2	0.8	0.6	0.8	0.6	_				
Out-of-hospital birth	3.6	-	0.7	1.9	3.4	4.3	5.0	4.2	2.0				
Primary cesarean	17.2	15.4	14.4	16.2	16.0	17.1	19.3	26.1	34.0				
Repeat cesarean	10.9	-	1.7	6.2	9.9	12.7	15.5	17.8	20.0				
Multiple births	3.6	-	1.2	2.6	3.1	4.0	4.8	4.9	16.0				
Tobacco use	9.0	8.3	14.1	13.8	10.6	6.3	5.1	5.1	1.0				
Overweight/obese <sup>3</sup>	51.1	_	41.5	51.5	52.3	50.3	51.8	55.4	52.0				
All births - infant													
Preterm births <sup>4</sup>	8.3	_	9.1	8.8	7.6	7.8	9.2	11.6	16.0				
Very low birthweight <sup>5</sup>	1.0		1.8	1.1	0.9	0.9	1.3	1.6	2.0				
Low birthweight <sup>6</sup>	6.8	_	8.6	7.3	6.3	6.2	7.3	9.3	13.0				
Fetal macrosomia <sup>7</sup>	9.9	_	6.5	7.9	10.1	11.0	10.8	9.4	3.0				
5 minute Apgar < 7	2.6	_	3.7	2.7	2.7	2.4	2.5	3.0	1.0				
	2.0		0.7	2.1	2.1	2.1	2.0	0.0	1.0				
		м	others b	orn in the	e U.S.								
Total births	35,352	11	1,624	6,669	10,284	10,265	5,479	953	67				
First trins a star a sur	04.0	<u> </u>	07.0	70 5	00.0	05.4	05.0	00 5	00.0				
First trimester care	81.3	63.6	67.8	76.5	80.8	85.1	85.0	80.5	86.6				
Inadequate care <sup>2</sup>	5.6	18.2	8.6	7.9	5.4	4.2	4.9	5.6	1.5				
No prenatal care	0.9	_	1.0	1.2	0.9	0.6	0.9	0.4	20				
Out-of-hospital birth	4.1	10.0	0.7	2.2	3.9	4.9	5.9	5.9	3.0				
Primary cesarean	17.4	18.2	14.7	16.7	16.1	17.3	19.9	27.9	32.8				
Repeat cesarean	10.5	_	1.4	6.1	9.9	12.6	14.6	16.3	22.4				
Multiple births	3.8	10.0	1.1	2.8	3.3	4.3	5.0	5.7	17.9				
Tobacco use Overweight/obese <sup>3</sup>	10.9 51.8	10.0	15.6	15.9	12.7	7.8	6.4	7.1	1.5 53.0				
Overweight/obeses	51.0		42.2	52.3	53.5	51.0	51.9	54.4	55.0				
		Infants	of moth	ers born	in the U.S	-							
Preterm births <sup>4</sup>	8.5	_	9.3	9.0	7.8	8.1	9.2	11.8	14.9				
Very low birthweight <sup>5</sup>	1.0	_	2.0	1.1	0.9	0.8	1.2	1.4	3.0				
Low birthweight <sup>6</sup>	6.9	_	8.7	7.5	6.4	6.2	7.2	10.0	11.9				
Fetal macrosomia <sup>7</sup>	10.3	_	6.7	8.2	10.3	11.5	11.4	10.5	3.0				
5 minute Apgar < 7	2.8	_	3.7	2.7	2.7	2.6	2.8	3.5					
	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>						

# TABLE 2-24. Selected medical or health characteristics by mother's age<br/>(percents), Oregon resident births, 2017

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, 2017 (continued)

	Total				Age of r	nother					
Characteristic	births <sup>1</sup>	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+		
Mothers born outside the U.S.											
Total births	8,278	2	185	1,127	2,256	2,618	1,590	466	33		
First trimester care	74.1	_	55.2	63.8	73.6	78.3	77.3	73.7	75.8		
Inadequate care <sup>2</sup>	8.3	100.0	17.7	13.7	8.7	6.4	6.4	7.5	3.0		
No prenatal care	0.6	_	3.9	0.8	0.7	0.4	0.3	0.9	_		
Out-of-hospital birth	1.5	_	1.1	0.5	1.3	2.0	1.7	0.6	_		
Primary cesarean	16.1	_	12.4	12.9	15.5	16.1	17.3	22.3	36.4		
Repeat cesarean	12.8	_	4.3	6.7	10.2	13.3	18.6	21.0	15.2		
Multiple births	2.7	—	2.2	1.6	2.1	2.9	4.0	3.2	12.1		
Tobacco use	0.8	—	1.1	0.8	1.2	0.5	0.5	1.1	_		
Overweight/obese <sup>3</sup>	48.2	-	34.6	47.0	46.5	47.5	51.4	57.3	50.0		
	Ir	fants of	mothers	s born ou	tside the l	J.S.					
Preterm births <sup>4</sup>	7.6	_	7.6	7.5	6.7	6.7	9.0	11.4	18.2		
Very low birthweight <sup>5</sup>	1.1	_		1.0	0.8	1.1	1.4	1.9	-		
Low birthweight <sup>6</sup>	6.6	_	7.6	6.1	6.1	6.3	7.7	8.0	15.2		
Fetal macrosomia <sup>7</sup>	8.4	_	4.9	6.1	9.2	9.1	8.7	7.3	3.0		
5 minute Apgar < 7	2.1	-	3.8	2.6	2.4	1.7	1.6	1.9	3.0		

\_ Quantity is zero.

1 Total includes one birth with unknown age of mother.

<sup>2</sup> Less than five prenatal visits or care began in the third trimester.

Body Mass Index of greater than 25.0 kg/m<sup>2</sup> for women over 15.
 Born prior to 37 completed weeks of gestation.

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

Birthweight of less than 2,500 grams (5 lb 8 oz).
Birthweight of more than 4,000 grams (8 lb 13 oz).

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

			N	on-Hispanic	single me	ention race						
Characteristic	Total births	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ unk.	Mult. races	Hispanic <sup>2</sup>			
All births - mother												
Total births	43,630	29,322	996	433	2,379	306	201	1,730	8,263			
First trimester care Inadequate care <sup>3</sup> No prenatal care Out-of-hospital birth Primary cesarean Repeat cesarean Multiple births Tobacco use Overweight/obese <sup>4</sup>	79.9 6.1 0.8 3.6 17.2 10.9 3.6 9.0 51.1	82.7 5.0 0.7 4.6 17.5 10.2 3.8 10.8 49.0	70.5 11.3 2.1 1.5 17.8 15.1 4.3 7.2 56.4	65.8 12.9 1.6 2.1 19.9 12.2 3.5 18.6 66.8	81.6 5.2 0.3 1.1 20.1 10.9 3.7 1.1 28.2	42.4 31.7 3.3 1.0 16.3 19.6 4.6 6.2 71.4	63.9 16.6 5.7 10.4 23.9 9.0 5.0 7.8 45.0	75.1 8.4 0.9 3.1 17.4 11.3 3.3 15.4 53.0	74.2 7.8 0.8 1.2 14.9 12.4 2.8 3.2 62.9			
	51.1	43.0		oirths - infan		/ 1.4	43.0	55.0	02.9			
Preterm births <sup>5</sup> Very low birthweight <sup>6</sup> Low birthweight <sup>7</sup> Fetal macrosomia <sup>8</sup> 5 minute Apgar < 7	8.3 1.0 6.8 9.8 2.6	7.9 0.9 6.4 10.9 2.7	9.8 1.8 8.9 7.4 4.2	15.0 0.9 9.7 10.6 3.7	7.5 0.8 8.6 4.5 2.0	12.5 1.0 6.9 10.1 2.6	12.0 2.5 11.4 6.5 4.1	9.7 1.7 7.8 8.7 3.7	9.1 1.3 7.0 7.9 2.2			
			Mothers	born in the	U.S.							
Total births	35,352	27,564	566	429	454	143	150	1,625	4,421			
First trimester care Inadequate care <sup>3</sup> No prenatal care Out-of-hospital birth Primary cesarean Repeat cesarean Multiple births Overweight/obese <sup>4</sup>	81.3 5.6 0.9 4.1 17.4 10.5 3.8 10.9 51.8	83.1 4.9 0.7 4.6 17.6 10.3 3.8 11.4 49.7	73.9 10.4 3.0 2.1 17.1 15.9 6.0 12.2 59.9	65.7 12.6 1.7 2.1 20.0 12.1 3.5 18.3 67.0	82.2 5.1 0.7 2.0 19.2 7.0 4.8 3.5 39.5	58.7 18.9 0.7 12.6 16.8 8.4 9.8 72.1	61.8 17.4 7.6 13.3 20.0 7.3 4.7 9.1 47.5	75.2 8.3 1.0 3.0 17.5 11.6 3.4 16.2 53.8	75.7 6.9 1.0 1.7 16.0 10.5 3.4 5.6 62.5			
		Ir	fants of mo	thers born i	n the U.S	S.						
Preterm births <sup>5</sup> Very low birthweight <sup>6</sup> Low birthweight <sup>7</sup> Fetal macrosomia <sup>8</sup> 5 minute Apgar < 7	8.5 1.0 6.9 10.2 2.8	8.0 0.9 6.5 10.9 2.7	11.8 2.5 11.1 4.8 3.9	15.2 0.9 9.6 10.3 3.7	9.9 0.9 10.4 2.6 2.9	13.3 1.4 9.1 9.1 4.2	12.1 2.0 10.7 8.0 4.1	9.7 1.8 7.5 8.9 3.9	9.8 1.3 7.5 7.7 2.3			

# TABLE 2-25. Selected medical or health characteristics by mother's race (percents),Oregon resident births, 2017

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Quantity is zero. See footnotes at end of table.

### TABLE 2-25. Selected medical or health characteristics by mother's race (percents), Oregon resident births, 2017 (continued)

			N	on-Hispanic	single me	ention race					
Characteristic	Total births	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ unk.	Mult. races	Hispanic <sup>2</sup>		
Mothers born outside the U.S.											
Total Births	8,278	1,758	430	4	1,925	163	51	105	3,842		
First trimester care Inadequate care <sup>3</sup> No prenatal care Out-of-hospital birth Primary cesarean Repeat cesarean Multiple births Tobacco use Overweight/obese <sup>4</sup>	74.1 8.3 0.6 1.5 16.1 12.8 2.7 0.8 48.2	76.0 6.5 0.6 4.2 15.0 8.9 3.7 1.6 38.2	66.0 12.5 0.9 0.7 18.6 14.0 2.1 0.7 51.7	75.0 50.0  - 25.0 - 50.0 50.0 50.0	81.5 5.2 0.3 0.8 20.4 11.8 3.5 0.5 25.5 side the	28.0 43.1 6.2 1.2 19.6 22.1 1.2 3.1 70.8	70.0 14.3 2.0 35.3 13.7 5.9 4.0 37.5	73.3 9.5 - 3.8 16.2 7.6 1.9 1.9 39.8	72.4 8.7 0.6 0.6 13.7 14.7 2.1 0.4 63.3		
Preterm births <sup>5</sup> Very low birthweight <sup>6</sup> Low birthweight <sup>7</sup> Fetal macrosomia <sup>8</sup> 5 minute Apgar < 7	7.6 1.1 6.6 8.3 2.1	6.1 0.9 5.3 11.7 2.0	7.2 0.9 6.0 10.9 4.7	 25.0 50.0 	6.9 0.8 8.2 4.9 1.8	11.7 0.6 4.9 11.0 1.2	11.8 3.9 13.7 2.0 4.0	9.5 1.0 12.4 4.8 1.0	8.3 1.3 6.4 8.2 2.0		

 Quantity is zero.
 Hispanic includes any mention of race.
 Hispanic includes any mention of race be Less than five prenatal visits or care began in the third trimester.

<sup>4</sup> Body Mass Index of greater than 25.0 kg/m<sup>2</sup>.

5 Born prior to 37 completed weeks of gestation.

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

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

<sup>8</sup> Birthweight of more than 4,000 grams (8 lb 13 oz).

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

			ŀ	Any mention	race and	ethnicity <sup>1</sup>			
Characteristic	Total births	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic <sup>2</sup>
			All bi	irths - mothe	ər				
Total births	43,630	37,207	1,656	1,432	3,002	510	1,611	501	8,263
First trimester care Inadequate care <sup>3</sup> No prenatal care Out-of-hospital birth Primary cesarean Repeat cesarean Multiple births Tobacco use	79.9 6.1 0.8 3.6 17.2 10.9 3.6 9.0 51.1	81.0 5.6 0.8 3.9 17.0 10.6 3.5 9.8 51.5	72.3 10.5 1.8 1.9 17.6 13.4 4.4 10.5	70.2 10.4 1.3 2.5 18.4 11.7 3.4 19.2 61.4	80.8 5.4 0.4 1.5 19.9 10.7 3.6 2.1 31.0	54.7 22.8 2.2 1.4 15.7 18.4 4.1 9.2	74.0 7.3 0.5 1.2 17.3 13.6 3.2 2.3 60.0	69.9 10.4 2.3 4.4 15.8 10.4 2.8 2.7 62.2	74.2 7.8 0.8 1.2 14.9 12.4 2.8 3.2 62.9
Overweight/obese <sup>4</sup>	51.1	51.5	57.3	births - infan		64.4	00.0	02.2	02.9
					•				
Preterm births <sup>5</sup> Very low birthweight <sup>6</sup> Low birthweight <sup>7</sup> Fetal macrosomia <sup>8</sup> 5 minute Apgar < 7	8.3 1.0 6.8 9.8 2.6	8.2 1.0 6.6 10.4 2.6	10.0 2.4 9.5 7.1 4.4	11.8 1.4 8.7 9.6 3.8	7.7 0.8 8.2 5.0 2.1	13.0 1.0 8.6 9.2 2.9	9.2 1.7 6.8 7.6 2.3	8.4 0.2 5.0 7.4 1.8	9.1 1.3 7.0 7.9 2.2
			Mothers	born in the	U.S.				
Total births	35,352	32,603	1,191	1,392	981	326	706	267	4,421
First trimester care Inadequate care <sup>3</sup> No prenatal care Out-of-hospital birth Primary cesarean Repeat cesarean Multiple births Tobacco use Overweight/obese <sup>4</sup>	81.3 5.6 0.9 4.1 17.4 10.5 3.8 10.9 51.8	82.0 5.3 0.8 4.2 17.4 10.4 3.7 11.0 51.3	74.4 9.6 2.1 2.3 17.4 13.4 5.2 14.1 59.8	70.4 10.2 1.3 2.6 18.0 11.5 3.2 19.4 61.5	80.2 5.6 0.6 19.3 8.7 4.2 5.3 41.3	67.3 12.8 0.3 1.5 14.1 16.3 5.8 12.9 61.8	76.0 6.3 1.0 1.7 17.8 11.3 4.2 4.3 59.6	66.7 12.4 4.3 7.5 15.0 7.9 3.0 4.7 57.0	75.7 6.9 1.0 1.7 16.0 10.5 3.4 5.6 62.5
		Ir	nfants of mo	thers born i	n the U.S	S.			
Preterm births <sup>5</sup> Very low birthweight <sup>6</sup> Low birthweight <sup>7</sup> Fetal macrosomia <sup>8</sup> 5 minute Apgar < 7	8.5 1.0 6.9 10.2 2.8	8.3 1.0 6.6 10.5 2.7	10.9 2.9 10.7 6.0 4.4	11.9 1.4 8.5 9.6 3.8	9.0 0.8 8.1 5.0 3.0	13.8 1.2 10.1 8.9 4.0	9.9 2.3 7.9 7.4 3.1	9.4 0.4 5.6 6.4 1.9	9.8 1.3 7.5 7.7 2.3

# TABLE 2-25. Selected medical or health characteristics by mother's race (percents)Oregon resident births, 2017 (continued)

See footnotes at end of table.

				Any me	ention rac	ce and ethnic	ity <sup>1</sup>				
Characteristic	Total births	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	Unk.	Hispanic <sup>2</sup>		
Mothers born outside the U.S.											
Total Births	8,278	4,604	465	40	2,021	184	905	234	3,842		
First trimester care Inadequate care <sup>3</sup> No prenatal care Out-of-hospital birth Primary cesarean Repeat cesarean Multiple births Tobacco use Overweight/obese <sup>4</sup>	74.1 8.3 0.6 1.5 16.1 12.8 2.7 0.8 48.2	73.7 8.0 0.7 2.0 13.7 12.2 2.6 0.8 53.3	67.0 12.8 0.9 1.1 18.1 13.3 2.4 1.1 50.6	62.5 15.8 - - 30.0 17.5 10.0 10.0 56.4	81.0 5.3 0.2 0.9 20.2 11.7 3.3 0.5 26.0 side the	32.4 40.3 5.5 1.1 18.5 22.3 1.1 2.7 69.4 <b>U.S.</b>	72.5 8.0 0.1 0.8 16.9 15.4 2.4 0.8 60.3	73.7 8.0 - 0.9 16.7 13.2 2.6 0.4 68.0	72.4 8.7 0.6 0.6 13.7 14.7 2.1 0.4 63.3		
Preterm births <sup>5</sup> Very low birthweight <sup>6</sup>	7.6	7.6	7.5 1.1	7.5 2.5	7.0	11.5 0.5	8.7 1.2	7.3	8.3 1.3		
Low birthweight <sup>7</sup> Fetal macrosomia <sup>8</sup> 5 minute Apgar < 7	6.6 8.3 2.1	6.3 9.5 2.1	6.5 10.1 4.5	15.0 12.5 2.5	8.3 5.0 1.7	6.0 9.8 1.1	6.0 7.8 1.7	4.3 8.5 1.7	6.4 8.2 2.0		

\_ 1 Quantity is zero.

Includes any race (one or more) and ethnicity mention.

2 Hispanic includes any mention of race.

3 4 Less than five prenatal visits or care began in the third trimester. Body Mass Index of greater than  $25.0 \text{ kg/m}^2$ .

5

Born prior to 37 completed weeks of gestation. Birthweight of less than 1,500 grams (3 lb 4 oz). 6

7

Birthweight of less than 2,500 grams (5 lb 8 oz). Birthweight of more than 4,000 grams (8 lb 13 oz). 8

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

			l	Non-Hispani	ic single r	nention race	)		
Medical risk factor of mother	Total births <sup>1</sup>	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ NS	Multiple races	Hispanic <sup>2</sup>
Total births	43,630	29,322	996	433	2,379	306	201	1,730	8,263
Diabetes-chronic Diabetes-gestational	410 3,811	205 2,083	14 100	9 36	16 387	8 36	1 20	22 157	135 992
Hypertension-chronic Hypertension-gestational Eclampsia	874 3,589 237	587 2,510 159	37 88 9	6 43 7	33 138 11	10 24 2	6 15 1	55 158 5	140 613 43
Previous preterm infant <sup>3</sup>	1,569	916	49	32	62	22	10	70	408
Infertility treatment <sup>4</sup>	1,202	933	17	5	128	1	5	27	86
Previous cesarean delivery	5,776	3,613	193	60	332	67	24	231	1,256

Medical risk factor of mother		Any mention race and ethnicity <sup>5</sup>								
	Total births	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other	NS	Hispanic <sup>2</sup>	
Total births	43,630	37,207	1,656	1,432	3,002	510	1,611	501	8,263	
Diabetes-chronic Diabetes-gestational	410 3,811	319 2,968	22 146	27 134	23 457	11 53	28 203	7 65	135 992	
Hypertension-chronic Hypertension-gestational Eclampsia	874 3,589 237	742 3,139 191	61 158 14	42 140 8	46 180 14	18 43 2	29 118 8	9 21 8	140 613 43	
Previous preterm infant <sup>3</sup>	1,569	1,283	80	84	79	32	89	19	408	
Infertility treatment <sup>4</sup>	1,202	1,025	27	17	139	4	20	7	86	
Previous cesarean delivery	5,776	4,763	281	191	404	106	258	69	1,256	

Quantity is zero.
Total includes mothers with unstated race/ethnicity.
Hispanic includes any race.
Gestation less than 37 completed weeks.
Includes pregnancies resulting from fertility enhancing drugs and/or assisted reproductive technology.
Includes any race (one or more) and ethnicity mention.
NS = Not stated.

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	43,630	13	1,809	7,796	12,540	12,883	7,069	1,419	100	1	
			Lc	w birthwo	eight						
Total low birthweight	2,981	_	156	569	795	798	517	132	13	1	
499 & less	58	_	3	9	17	15	11	3	_	_	
500-999	152	_	9	29	38	41	25	8	2	-	
1000-1499 1500-1999	247 555	_	21 18	46 101	57 138	57 166	55 110	11 22	_	_	
2000-2499	1,969		105	384	545	519	316	88	- 11	1	
2000 2400	1,000		100	004	0+0	010	010	00			
Birthweight greater than 2499 grams											
2500-2999	6,917	3	366	1,394	1,922	1,876	1,079	256	21	_	
3000-3499	16,434	7	712	3,075	4,788	4,762	2,550	505	35	-	
3500-3999	12,967	3	458	2,138	3,766	4,025	2,158	391	28	-	
4000-4499	3,684	_	103	537	1,069	1,206	655	111	3	-	
4500-4999	581	_	13	76	176	193	100	23	_	_	
5000 & over	61	_	1	5	23	22	10	_	_	_	
Unknown	5	_	_	2	1	1	_	1	_	_	
Column percent											
1499 & less	1.0	_	1.8	1.1	0.9	0.9	1.3	1.6	2.0	-	
1500-2499	5.8	100 0	6.8	6.2	5.4	5.3	6.0	7.8	11.0	100.0	
2500-4499 4500 & over	91.7 1.4	100.0	90.6 0.8	91.7 1.0	92.1 1.6	92.1 1.6	91.1 1.5	89.1 1.6	87.0	-	
4000 & Over	1.4	_	0.8	1.0	1.0	1.0	1.5	1.0	_	_	

### TABLE 2-27. Age of mother by birthweight, Oregon resident births, 2017

- Quantity is zero.

N.S. = Not stated.

Birthweight (in grams)	Total births	Age of mother									
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.	
Total	15,738	13	1,594	4,812	4,519	2,870	1,541	360	28	1	
Low birthweight											
Total low birthweight	1,356	_	144	381	369	261	155	40	5	1	
499 & less	30	_	3	7	11	6	2	1	_	_	
500-999	72	_	9	18	20	15	9	1	_	_	
1000-1499	117	_	20	38	20	19	18	2	_	-	
1500-1999	241	_	14	59	68	58	33	9	_	_	
2000-2499	896	-	98	259	250	163	93	27	5	1	
Birthweight greater than 2499 grams											
2500-2999	2,853	3	329	920	760	502	262	72	5	_	
3000-3499	6,103	7	630	1,936	1,754	1,101	551	115	9	_	
3500-3999	4,178	3	393	1,231	1,249	758	432	103	9	_	
4000-4499	1,069	_	85	307	330	209	113	25	_	_	
4500-4999	155	_	12	34	48	32	24	5	_	_	
5000 & over	24	-	1	3	9	7	4	-	-	-	
Unknown	_	_	_	_	_	_	_	_	_	_	
Column percent											
1499 & less	1.4		2.0	1.3	1.1	1.4	1.9	1.1	_		
1500-2499	7.2	_	7.0	6.6	7.0	7.7	8.2	10.0	17.9	100.0	
2500-4499	90.2	100.0	90.2	91.3	90.6	89.5	88.1	87.5	82.1		
4500 & over	1.1	-	0.8	0.8	1.2	1.4	1.8	1.4	-	_	
4500 & over	1.1	_	0.8	0.8	1.2	1.4	1.8	1.4	_		

### TABLE 2-28. Age of unmarried mothers by birthweight, Oregon resident births, 2017

- 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.

regon residents, 2017	
er and birthweight, O	
. Race of mothe	
TABLE 2-29	

	-oto F					ш	Birthweight (grams)	(grams)					
race/ethnicity	births	499 & less	500- 999	1000- 1499	1500- 1999	2000- 2499	2500- 2999	3000- 3499	3500- 3999	4000- 4499	4500- 4999	5000 & over	Unk.
Total births	43,630	58	152	247	555	1,969	6,917	16,434	12,967	3,684	581	61	5
				H-noN	ispanic si	Non-Hispanic single mention race	ition race						
Total non-Hispanic	35,367	48	117	183	454	1,603	5,519	13,118	10,655	3,111	508	47	4
White	29,322	35	87	146	365	1,258	4,309	10,741	9,142	2,753	445	37	4
African American	966	ო	4	11	12	59	218	385	230	65	7	2	I
American Indian	433	-	-	2	10	28	17	136	130	34	10	4	I
Asian	2,379	4	ω	8	38	146	517	991	557	96	13	-	I
Islander	306	7	I	-	5	13	63	118	72	25	9	~	I
Other/unknown	201	-	4	I	4	14	35	77	52	13	-	Ι	I
Multiple races	1,730	2	13	15	20	85	300	670	472	125	26	2	I
				His	panic sinç	Hispanic single mention race	on race						
Total Hispanic	8,263	10	35	64	101	366	1,398	3,316	2,312	573	73	14	-
White	6,047	10	27	47	62	268	1,013	2,416	1,692	427	55	12	~
African American	79	I	-	-	с	6	20	20	23	2	I	Ι	I
American Indian	117	I	-	2	2	10	20	35	33	14	I	I	I
Asian	29	I	I	I	I	~	Ø	16	ო	~	I	I	I
Islander	10	I	I	-	I	I	-	9	2	I	I	I	I
Other/unknown	1,761	I	ъ С	13	17	99	292	728	501	120	17	2	I
Multiple races	220	Ι	-	I	Ι	12	44	95	58	<b>б</b>	-	I	I

Quantity is zero.

, 2017
on residents,
:, Oregon
nweight
sace of mothe
TABLE 2-29. F

MOUTELS							0						
race/ethnicity	l otal births	499 & less	500- 999	1000- 1499	1500- 1999	2000- 2499	2500- 2999	3000- 3499	3500- 3999	4000- 4499	4500- 4999	5000 & over	Unk.
Total births	43,630	58	152	247	555	1,969	6,917	16,434	12,967	3,684	581	61	5
	-	-	-	Non-Hi	Non-Hispanic single mention race	ngle men	tion race		-				
Total non-Hispanic	35,367	48	117	183	454	1,603	5,519	13,118	10,655	3,111	508	47	4
White	29,322	35	87	146	365	1,258	4,309	10,741	9,142	2,753	445	37	4
African American	966	ო	4	1	12	59	218	385	230	65	7	7	I
American Indian	433	~	~	2	10	28	77	136	130	34	10	4	Ι
Asian	2,379	4	Ø	ω	38	146	517	991	557	96	13	-	I
Islander	306	0	I	-	5	13	63	118	72	25	9	-	I
Other/unknown	201	~	4	I	4	14	35	77	52	13	~	Ι	Ι
Multiple races	1,730	2	13	15	20	85	300	670	472	125	26	2	I
				Hisp	Hispanic single mention race	lle mentio	n race						
Total Hispanic	8,263	10	35	64	101	366	1,398	3,316	2,312	573	73	14	~
White	6,047	10	27	47	79	268	1,013	2,416	1,692	427	55	12	-
African American	79	I	~	~	с С	6	20	20	23	7	I	Ι	I
American Indian	117	Ι	~	2	2	10	20	35	33	14	Ι	Ι	Ι
Asian	29	I	I	I	I	~	ω	16	ო	~	Ι	I	I
Islander	10	I	I	~	I	I	~	9	2	I	I	Ι	I
Other/unknown	1,761	I	5	13	17	99	292	728	501	120	17	2	Ι
Multiple races	220	I	~	Ι	Ι	12	44	95	58	თ	~	Ι	Ι

7 (continued)
2017
gon residents,
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oirthweight
and
of mother
Race
<b>TABLE 2-29.</b>

-	- - H						Birthweight (grams)	nt (grams)					
Mother's race/ethnicity	births	499 & less	500- 999	1000- 1499	1500- 1999	2000- 2499	2500- 2999	3000- 3499	3500- 3999	4000- 4499	4500- 4999	5000 & over	Unk.
Total births	43,630	58	152	247	555	1,969	6,917	16,434	12,967	3,684	581	61	2
				Any	Any mention race and ethnicity	race and	ethnicity <sup>1</sup>					-	
White	37,207	47	124	206	461	1,612	5,650	13,876	11,338	3,310	527	51	ъ
African American	1,656	5	14	21	20	97	343	630	407	104	13	2	I
American Indian	1,432	~	10	6	21	84	237	531	398	113	22	9	I
Asian Hawaiian/Dacific	3,002	4	0	11	46	176	641	1,241	719	133	21	~	I
Islander	510	2	~	2	7	32	97	193	128	38	6	~	I
Other	1,611	~	11	15	19	64	261	670	444	111	13	2	I
Unknown	501	I	~	Ι	с	21	88	199	151	31	9	~	I
Hispanic	8,263	10	35	64	101	366	1,398	3,316	2,312	573	73	14	-

Quantity is zero.
 Includes any race (one or more) and ethnicity mention.

	Tatal	Lov	v birthweight in	fants	Lov	w birthweight ra	ites <sup>1</sup>
County of residence	Total births	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	43,630	2,981	457	2,524	68.3	10.5	57.9
Baker	156	13	-	13	83.3	-	83.3
Benton	696	42	4	38	60.3	5.7	54.6
Clackamas	4,084	270	36	234	66.1	8.8	57.3
Clatsop	373	18	Ξ.	18	48.3	-	48.3
Columbia	519	31	7	24	59.7	13.5	46.2
Coos	601	43	1	42	71.5	§ 1.7	69.9
Crook	263	9	2	7	§ 34.2	7.6	§ 26.6
Curry	168	10	2	8	59.5	11.9	47.6
Deschutes	1,808	124	11	113	68.6	6.1	62.5
Douglas	1,070	84	10	74	78.5	9.3	69.2
Gilliam	14	_	-	-	_	-	-
Grant	63	6	_	6	95.2	-	95.2
Harney	73	5	_	5	69.4	_	69.4
Hood River	264	7	1	6	§ 26.5	3.8	§ 22.7
Jackson	2,249	175	17	158	77.8	7.6	§ 70.3
Jefferson	264	21	2	19	79.5	7.6	72.0
Josephine	881	75	11	64	85.1	12.5	72.6
Klamath	789	63	11	52	79.8	13.9	65.9
Lake	62	10	2	8	§ 161.3	32.3	129.0
Lane	3,458	243	46	197	70.3	13.3	57.0
Lincoln	404	23	-	23	56.9	-	56.9
Linn	1,464	82	15	67	56.0	10.2	45.8
Malheur	401	40	9	31	§ 99.8	22.4	77.3
Marion	4,442	301	67	234	67.8	§ 15.1	52.7
Morrow	169	5	1	4	29.6	5.9	23.7
Multnomah	8,423	585	88	497	69.5	10.4	59.0
Polk	860	48	13	35	55.8	15.1	40.7
Sherman	15	1	_	1	66.7	_	66.7
Tillamook	218	14	3	11	64.2	13.8	50.5
Umatilla	952	51	7	44	53.6	7.4	46.2
Union	298	33	4	29	§ 111.1	13.5	§ 97.6
Wallowa	64	2	-	2	31.3	_	31.3
Wasco	314	24	3	21	76.4	9.6	66.9
Washington	6,636	445	63	382	67.1	9.5	57.6
Wheeler	<sup>′</sup> 8	_	_				
Yamhill	1,107	78	21	57	70.5	§ 19.0	51.5

TABLE 2-30. Low birthweight infants by county of residence, Oregon, 2017

Quantity is zero.

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<br/>mother, Oregon resident births, 2017

5	6,393 3,774 197 74 368 49 31 225 1,675	21-30 pounds 11,849 7,794 247 93 882 62 54 402 2,315 928 603 22	31-40 pounds 11,462 8,169 194 100 652 72 50 451 1,774 746 521	41+ pounds 9,997 7,330 206 116 342 80 44 514 1,365	Not stated 502 247 33 4 38 13 12 11 144 83
Total births         43,630         1,009         2,418           White         29,322         607         1,401           African American         996         49         70           American Indian         433         13         33           Asian         2,379         14         83           Hawaiian/Pacific Islander         306         7         23           Other/unknown         201         3         7           Multiple races         1,730         40         87           Hispanic         8,263         276         714	6,393 3,774 197 74 368 49 31 225 1,675 <b>s</b> 694 395 24	7,794 247 93 882 62 54 402 2,315 928 603	8,169 194 100 652 72 50 451 1,774 746	7,330 206 116 342 80 44 514 1,365	247 33 4 38 13 12 11 144
White       29,322       607       1,401         African American       996       49       70         American Indian       433       13       33         Asian       2,379       14       83         Hawaiian/Pacific Islander       306       7       23         Other/unknown       201       3       7         Multiple races       1,730       40       87         Hispanic       8,263       276       714	3,774 197 74 368 49 31 225 1,675 <b>s</b> 694 395 24	7,794 247 93 882 62 54 402 2,315 928 603	8,169 194 100 652 72 50 451 1,774 746	7,330 206 116 342 80 44 514 1,365	247 33 4 38 13 12 11 144
African American       996       49       70         American Indian       433       13       33         Asian       2,379       14       83         Hawaiian/Pacific Islander       306       7       23         Other/unknown       201       3       7         Multiple races       1,730       40       87         Hispanic       8,263       276       714	197 74 368 49 31 225 1,675 <b>s</b> 694 395 24	247 93 882 62 54 402 2,315 928 603	194 100 652 72 50 451 1,774 746	206 116 342 80 44 514 1,365 723	33 4 38 13 12 11 144
American Indian       433       13       33         Asian       2,379       14       83         Hawaiian/Pacific Islander       306       7       23         Other/unknown       201       3       7         Multiple races       1,730       40       87         Hispanic       8,263       276       714	74 368 49 31 225 1,675 <b>s</b> 694 395 24	93 882 62 54 402 2,315 928 603	100 652 72 50 451 1,774 746	116 342 80 44 514 1,365 723	4 38 13 12 11 144
Asian       2,379       14       83         Hawaiian/Pacific Islander       306       7       23         Other/unknown       201       3       7         Multiple races       1,730       40       87         Hispanic       8,263       276       714	368 49 31 225 1,675 <b>s</b> 694 395 24	882 62 54 402 2,315 928 603	652 72 50 451 1,774 746	342 80 44 514 1,365 723	38 13 12 11 144
Hawaiian/Pacific Islander       306       7       23         Other/unknown       201       3       7         Multiple races       1,730       40       87         Hispanic       8,263       276       714	49 31 225 1,675 <b>s</b> 694 395 24	62 54 402 2,315 928 603	72 50 451 1,774 746	80 44 514 1,365 723	13 12 11 144
Other/unknown         201         3         7           Multiple races         1,730         40         87           Hispanic         8,263         276         714             Under 37 weeks	31 225 1,675 <b>s</b> 694 395 24	54 402 2,315 928 603	50 451 1,774 746	44 514 1,365 723	12 11 144
Multiple races         1,730         40         87           Hispanic         8,263         276         714             Under 37 weeks	225 1,675 s 694 395 24	402 2,315 928 603	451 1,774 746	514 1,365 723	11 144
Hispanic	1,675 <b>s</b> 694 395 24	2,315 928 603	1,774 746	1,365 723	144
Under 37 weeks	694 395 24	603			83
	694 395 24	603			83
	395 24	603			83
	24		5Z I		
White         2,315         73         175           African American         08         7         8				510	38 3
African American         98         7         8           American Indian         65         4         4		22 17	16 14	18 13	3
Asian 178 1 12	50	53	32	24	6
Hawaiian/Pacific Islander 38 2 5	7	10	7	4	3
Other/unknown	6	4	3	3	2
Multiple races         167         4         8	32	38	37	45	3
Hispanic 753 41 114	167	181	116	106	28
37 - 40 weeks	<b>I</b>			1	
Total births         35,036         809         1,924	5,153	9,727	9,222	7,843	358
White         23,379         489         1,104	3,019	6,349	6,503	5,747	168
African American	151	197	154	158	25
American Indian         340         9         28	58	73	75	93	4
Asian 1,977 13 70	292	753	559	265	25
Hawaiian/Pacific Islander 239 5 18	38	46	55	68	9
Other/unknown 154 1 3	24	46	38	33	9
Multiple races         1,381         33         73	176	325	367	399	8
Hispanic         6,789         222         573	1,395	1,938	1,471	1,080	110
41 weeks and over	/er				
Total births         4,934         66         161	541	1,192	1,489	1,428	57
White         3,614         45         119	358	841	1,141	1,071	39
African American 121 5 7	22	28	24	30	5
American Indian 28 – 1	3	3	11	10	-
Asian 224 – 1	26	76	61	53	7
Hawaiian/Pacific Islander 28 – –	4	6	10	7	1
Other/unknown 22 – –	1	4	9	8	-
Multiple races         180         3         6           Uissessia         747         43         97	15	39	47	70	-
Hispanic         717         13         27	112	195	186	179	5

Quantity is zero.
Expressed in complete weeks.
Non-Hispanic single mention race and Hispanic ethnicity.
The subtotals for gestation period may not add to the total because of births of unknown gestation periods.

		-		_				
			Mother's v	weight gaii	n during pi	egnancy		
Period of gestation <sup>1</sup> and race/ethnicity <sup>2</sup> of mother	All births <sup>3</sup>	Weight loss	1-10 pounds	11-20 pounds	21-30 pounds	31-40 pounds	41+ pounds	Not stated
			Perce	nt low birt	hweight in	fants		
		All ges	station pe	riods				
Total births	6.8	10.8	12.2	9.4	6.7	5.0	5.5	11.2
White	6.4	10.0 14.3	11.6	9.5	6.5	4.7 5.2	5.4	9.7 9.1
African American American Indian	8.9 9.7	23.1	14.3 12.1	12.7 9.5	8.5 10.8	9.0	6.3 7.8	9.1
Asian	8.6	14.3	13.3	11.7	8.5	5.8	7.9	21.1
Hawaiian/Pacific Islander	6.9	14.3	13.0	12.2	6.5	4.2	3.8	7.7
Other/unknown	11.4	66.7	57.1	12.9	13.0	6.0	6.8	-
Multiple races	7.8	7.5	8.0	9.3	8.2	7.1	7.0	27.3
Hispanic	7.0	10.9	13.0	8.1	6.2	5.1	4.8	11.8
		Und	ler 37 wee	eks	1		1	
Total births	56.0	59.7	65.8	62.5	56.0	49.2	51.9	54.2
White	55.8	56.2	66.3	65.8	55.7	48.8	51.8	52.6
African American	60.2	71.4	87.5	58.3	68.2	50.0	44.4	66.7
American Indian	50.8	75.0	25.0	46.2	58.8	42.9	53.8	-
Asian	63.5	100.0	58.3	62.0	62.3	53.1	75.0	100.0
Hawaiian/Pacific Islander	42.1	50.0	40.0	57.1	40.0	14.3	75.0	33.3
Other/unknown	66.7	100.0	100.0	50.0	50.0	66.7	100.0	
Multiple races Hispanic	59.3 54.6	75.0 58.5	50.0 66.7	53.1 59.3	52.6 55.2	59.5 49.1	68.9 38.7	66.7 50.0
	0		- 40 week					
				-				
Total births	2.7	3.6	4.0	3.3	2.8	2.2	2.2	2.8
White	2.5	4.1	4.2	3.3	2.6	2.0	2.2	1.8
African American	3.9	5.4	5.5	7.3	3.0	1.3	3.2	4.0
American Indian	2.6		10.7 5.7	1.7	- -	4.0	2.2 3.0	-
Asian Hawaiian/Pacific Islander	4.6 2.1	7.7	5.7 5.6	4.1	5.6	3.8 3.6	3.0	8.0
Other/unknown	4.5	-	5.0	4.2	10.9	2.6	_	_
Multiple races	2.6		4.1	2.3	4.0	2.0	1.3	12.5
Hispanic	2.4	2.7	3.0	2.7	2.2	2.2	2.3	2.7
		41 we	eks and	over	<u> </u>		<u> </u>	
Total births	0.2	_	_	_	0.2	0.3	0.1	_
White	0.1		_	-	0.1	0.3	0.1	_
African American		-	_	-			_	_
American Indian	–	-	_	–	-	-		_
Asian	0.4	-	_	–	-	_	1.9	_
Hawaiian/Pacific Islander	_	-	_	-	-	-	_	_
Other/unknown	–	_	_	_	-	-		_
Multiple races	–	–	_	–	–	_		_
Hispanic	0.3	-	-	–	0.5	0.5	-	-
		1			I			

### TABLE 2-32. Percent low birthweight by weight gain of mother, period of gestation, and race/ethnicity of mother, Oregon residents, 2017

Quantity is zero.
Expressed in complete weeks.
Non-Hispanic single mention race and Hispanic ethnicity.
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, 2017

Conditions of	Total				Mot	ther's age				
newborn	births	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total births	43,630	13	1,809	7,796	12,540	12,883	7,069	1,419	100	1
Immediate ventilation	2,555	1	132	447	657	731	466	113	8	-
Ventilator > 6 hrs Admission to NICU	1,008 3,285	-	50 151	177 586	259 859	298 921	179 579	41 176	4 13	_
Surfactant therapy	187	_	9	37	49	49	36	7	-	-
Antibiotics Seizures	952 27	1	56 -	224 7	268 8	249 8	122 4	30	2	_
No condition noted	38,973	11	1,572	6,949	11,297	11,581	6,275	1,202	85	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, 2017

Conditions of newborn	Total births	White	African American	American Indian	Asian	Hawaiian/ Pacific Islander	Other/ NS	Hispanic <sup>1</sup>		
		Non-His	panic single	e mention ra	ice					
Total births	43,630	29,322	996	433	2,379	306	1,931	8,263		
Immediate ventilation Ventilator > 6 hrs Admission to NICU	2,555 1,008 3,285	1,758 690 2,191	73 20 93	25 11 40	118 45 163	17 4 20	124 49 181	440 189 597		
Surfactant therapy Antibiotics Seizures	187 952 27	120 649 22	4 14 1	1 6 -	6 32 –	1 5 -	14 60 1	41 186 3		
No condition noted	38,973	26,185	862	382	2,163	277	1,683	7,421		
Any mention race and ethnicity <sup>2</sup>										
Total births	43,630	37,207	1,656	1,432	3,002	510	2,112	8,263		
Immediate ventilation Ventilator > 6 hrs Admission to NICU	2,555 1,008 3,285	2,199 868 2,798	112 37 155	95 48 148	161 57 213	34 9 41	112 51 143	440 189 597		
Surfactant therapy Antibiotics Seizures	187 952 27	163 828 26	13 33 1	11 40 —	6 49 1	1 5 -	11 60 _	41 186 3		
No condition noted	38,973	33,223	1,441	1,240	2,715	451	1,899	7,421		

<sup>2</sup> Includes any race (one or more) and ethnicity mention. NS = Not stated.

Quantity is zero.
 For single mention race, Hispanic includes any race.

Reported	All			Age of	mother		
congenital anomaly	ages <sup>1</sup>	<20	20-24	25-29	30-34	35-39	40+
Total births	43,630	1,822	7,796	12,540	12,883	7,069	1,519
No congenital anomaly reported	43,343	1,802	7,744	12,461	12,819	7,020	1,496
Anencephalus Spina bifida Heart disease Hypospadias Hernia Omphalocele	6 11 68 36 7 3	- 5 2 2	2  10 4 1 2	1 5 19 9 1 –	2 3 18 10 1 1	1 12 10 1	_ 2 4 1 1
Gastroschisis Limb reduction defect	14 7	3 _	5 2	6 3	- 1	- 1	
Cleft lip Cleft palate alone Down syndrome (confirmed) Down syndrome (suspected) Chromosomal disorder (confirmed) Chromosomal disorder (suspected)	47 16 17 23 15 32	- 3 - 2 4 3	13 3 2 5 - 4	14 2 3 4 11	13 4 2 3 7	6 4 5 4 2 4	1 - 6 7 2 3

# TABLE 2-35. Congenital anomalies by age of mother,Oregon resident births, 2017

Quantity is zero.
1 Total includes mothers with unstated age.

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

# TABLE 2-36. County of occurrence by type of institution and delivery<br/>attendant, Oregon occurrence births, 2017

			Во	rn in hospita	al or on arri	val	
County of occurrence	Total	Total hospital births	M.D.	D.O.	C.N.M.	Other licensed medical	Non- medical
Total	44,160	42,578	29,992	3,380	9,050	145	11
Baker Benton Clackamas Clatsop Columbia Coos	129 1,107 4,357 401 14 678	123 992 4,256 390 – 670	123 588 2,341 284 _ 351	35 200  85		- 8 1 7 -	_ _ _ _ _
Crook Curry Deschutes Douglas Gilliam Grant	1 7 2,283 895 1 47	_ 2,205 872 _ 46	_ 1,615 582 _ 28	_ 349 _ _ 18	 231 290 	- 9 - -	_ _ 1 _ _
Harney Hood River Jackson Jefferson Josephine Klamath	51 458 2,438 128 843 812	51 450 2,344 123 794 770	25 373 1,692 122 658 770	26 77 387 - 121 -	_ 238 _ _ _	_ 26 1 14 _	_ 1 _ 1 _
Lake Lane Lincoln Linn Malheur Marion	61 3,738 315 895 456 5,054	61 3,580 310 820 454 4,953	47 3,128 185 628 22 3,799	14 111 97 191 264 368	320 	_ 17 _ 1 _ 16	_ 4 _ _ _
Morrow Multnomah Polk Sherman Tillamook Umatilla	1 10,217 18 1 158 777	9,805 – 151 773	- 7,113 - 151 712	- 613 - - 59	2,056 - - - -	_ 21 _ _ _ 2	_ 2 _ _ _ _
Union Wallowa Wasco Washington Wheeler Yamhill	262 50 286 6,118 2 1,101	254 49 280 5,987 _ 1,015	122 49 213 3,562 - 709	132  143  90	58 2,268 215	- 9 12 - 1	_ _ _ _ _ _

Quantity is zero.

M.D. = Medical doctor

D.O. = Doctor of osteopathy

C.N.M. = Certified nurse midwife

N.D. = Naturopathic doctor L.D.M. = Licensed direct entry midwife

				Born out	-of-hospital			
County of occurrence	Total births	M.D./ D.O.	C.N.M.	N.D.	L.D.M.	Midwife	Other licensed medical	Non- medical
Total	1,582	3	394	221	740	93	14	117
Baker Benton Clackamas Clatsop Columbia Coos	6 115 101 11 14 8	- 1 - -	- 93 7 - 1 1	- 24 1 5 -	21 40 9 3 1	5  25 1 1 2	- 1 - -	1 1 3 - 4 4
Crook Curry Deschutes Douglas Gilliam Grant	1 7 78 23 1 1	- - - -	- 2 - 1 - -	- - 1 - -	1  71 1 1	- 3 1 19 - 1	- 1 - - -	- 1 5 2 -
Harney Hood River Jackson Jefferson Josephine Klamath	- 8 94 5 49 42	- 1 - -	_ _ _ _ 40	_ 4 32 _ 2 _	- 3 49 3 42 1	_ 1 _ _ _	_ 2 1 _	_ 10 1 5 1
Lake Lane Lincoln Linn Malheur Marion	158 5 75 2 101		- 81 - 1 - 35	_ _ _ _ 4	_ 50 2 65 _ 42	_ 11 2 4 _ 5	- - - 3	_ 16 1 5 2 12
Morrow Multnomah Polk Sherman Tillamook Umatilla	1 412 18 1 7 4		 113  	- 74 - - -	_ 201 14 1 7 _	- 4 - - 1	- 4 2 - - -	1 16 2 - 3
Union Wallowa Wasco Washington Wheeler Yamhill	8 1 131 2 86	- - 1 - -	- 1 10 - 8	- 1 73 -	- 1 3 4 - 74	4  2 - 1	- - - - -	4 - 12 2 3

# TABLE 2-36. County of occurrence by type of institution and delivery attendant,Oregon occurrence births, 2017 (continued)

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

	_					
Characteristics	Total births	Vaginal	Vaginal after previous C-section	Primary C-section	Repeat C-section	
	Da	y of birth				
All births	43,630	30,359	1,014	7,495	4,762	
Sunday Monday Tuesday Wednesday Thursday Friday Saturday	4,917 6,262 6,693 6,700 6,702 6,865 5,491	75.7 65.6 68.2 68.3 68.6 66.9 76.6	2.6 2.3 2.1 2.3 2.2 2.2 2.6	15.6 17.5 17.3 17.8 18.5 17.9 14.9	6.1 14.6 12.5 11.6 10.6 13.0 5.9	
	Mot	her's age				
<15	13 1,809 7,796 12,540 12,883 7,069 1,419 100 1	84.6 83.6 76.5 71.9 67.2 62.5 52.3 42.0 100.0	0.3 1.2 2.2 3.0 2.7 3.8 4.0	15.4 14.4 16.2 16.0 17.1 19.3 26.1 34.0 -	– 1.7 6.2 9.9 12.7 15.5 17.8 20.0 –	
Non-Hi	spanic sing	le mention r	ace/ethnicit	у		
White African American American Indian Asian Hawaiian/Pacific Islander Other/unknown Multiple races Hispanic	29,322 996 433 2,379 306 201 1,730 8,263	70.2 62.9 66.3 65.9 61.8 64.2 69.2 69.2 69.9	2.1 4.3 1.6 3.0 2.3 3.0 2.0 2.8	17.5 17.8 19.9 20.1 16.3 23.9 17.4 14.9	10.2 15.1 12.2 10.9 19.6 9.0 11.3 12.4	
	Paym	ent source <sup>1</sup>				
Medicaid/OHP* Private insurance Self-pay Other coverage Unknown mention	19,632 22,407 885 593 113	69.7 68.8 85.5 72.0 70.8	2.4 2.2 4.0 1.9 3.5	15.6 19.0 6.1 16.4 18.6	12.3 10.0 4.4 9.8 7.1	
	Body mass index in kg/m					
Underweight (< 18.5) Normal (18.5 - 24.9) Overweight (25.0 - 29.9) Obese (> 30.0) Unknown	1,303 19,801 10,813 11,268 445	77.3 74.8 69.6 59.6 67.4	1.8 2.2 2.5 2.4 3.1	14.0 15.3 16.5 21.6 16.2	7.0 7.7 11.4 16.4 13.3	

# TABLE 2-37. Delivery method by day of birth, mother's age, race/ethnicity, and payment source (percents), Oregon resident births, 2017

Quantity is zero.
 \* Oregon Health Plan.
 1 Expected principal method of payment for delivery. Actual method of payment may differ. Note: Rates and percentages are calculated excluding missing and unknown values.

	gen eee						
			Planned out-of-hospital birth				
Planned birth attendant <sup>1</sup>	Total births <sup>2</sup>	Planned hospital birth	Total	Intrapartum transfer to hospital	Neonatal transfer		
Total births	44,160	42,298	1,758	280	30		
All g	gestation	periods <sup>3</sup>					
Total M.D.s and D.O.s Certified nurse midwives Licensed direct-entry midwives Unlicensed direct-entry midwives Naturopathic physicians Other	44,160 33,210 9,489 799 136 240 286	42,298 33,207 8,937 - - - 154	1,758 548 794 136 238 42	280 158 59 43 19 1	30 - 13 14 1 2 -		
l	Jnder 37 v	weeks					
Total M.D.s and D.O.s Certified nurse midwives Licensed direct-entry midwives Unlicensed direct-entry midwives Naturopathic physicians Other	3,685 3,343 280 8 7 4 43	3,635 3,341 273 - - 21	28 - 7 8 7 4 2	15 - 5 4 3 3 -	4 - 1 2 1 -		
	37-38 we	eks					
Total M.D.s and D.O.s Certified nurse midwives Licensed direct-entry midwives Unlicensed direct-entry midwives Naturopathic physicians Other	9,922 7,799 1,934 77 11 28 73	9,714 7,799 1,868 - - 47	186 65 77 11 27 6	35 - 22 7 3 2 1	3 - 1 1 - 1 -		
	39-40 we	eks					
Total M.D.s and D.O.s Certified nurse midwives Licensed direct-entry midwives Unlicensed direct-entry midwives Naturopathic physicians Other	25,515 18,922 5,739 506 74 132 142	24,392 18,921 5,401 - - 70	1,070 	128 	17  7 10  		
41	41 weeks and over						
Total M.D.s and D.O.s Certified nurse midwives Licensed direct-entry midwives Unlicensed direct-entry midwives Naturopathic physicians Other	5,017 3,133 1,534 207 43 76 24	4,540 3,133 1,393 - - - 14	471 140 205 43 75 8	101 	6  4 1  1 		

# TABLE 2-38. Planned attendant by planned place of<br/>birth, Oregon occurrence, 2017

Quantity is zero.
 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.
 Total includes 104 births that occurred en route, were unplanned home deliveries, or were other out-of-hospital births not otherwise classified. Total also includes 21 births with unknown gestation.
 Includes reported clinical estimate of gestation in completed weeks and missing or unknown gestations.

# TABLE 2-39. Maternal characteristics by planned place of<br/>birth, Oregon occurrence, 2017

	Tatal	Plann	ed hospita	ıl birth	Planned out-of-hospital birth				
Selected maternal characteristics	Total births <sup>1</sup>	Clinical estimate of gestation							
		<37	37-40	41+	<37	37-40	41+		
Total births	. 44,160	3,635	34,106	4,540	28	1,256	471		
Mother's age	4 000	400	4 400	000			0		
<20		169	1,438	209	-	14 124	3 49		
20-24 25-29		681 949	6,207 9,771	816 1,416	6 9	343	137		
30-34		1,021	9,912	1,470	7	450	163		
35-39		631	5,531	590	6	281	100		
40+		184	1,247	39	_	44	19		
Single mention race <sup>2</sup>	-		,						
White		2,322	22,606	3,266	21	1,046	418		
African American		98	772	114	1	16	7		
American Indian		68	336	25	-	5	4		
Asian/Hawaiian/Pacific Islander		221	2,201	248	_	28	5		
Other/multiple races		197	1,489	186	2	62	16		
Hispanic Marital status	. 8,276	729	6,702	701	4	99	21		
Married	28,181	2,020	21,694	3,007	22	999	377		
Unmarried		1,614	12,409	1,533	6	257	94		
Mother's education	10,010	1,011	12,100	1,000	Ŭ	207	01		
8th grade or less	1,245	130	984	112	1	10	3		
Some high school	4,264	416	3,445	329	3	44	10		
High school graduate/GED	. 9,962	862	7,870	937	5	180	72		
Some college	. 10,553	980	8,129	1,023	8	289	100		
Associate degree	. 3,617	273	2,815	361	3	116	.41		
Bachelor's degree	. 8,947	578	6,671	1,109	4	407	156		
Postbaccalaureate	5,359	365	4,051	650	4	198	83		
Source of payment <sup>3</sup> Medicaid/Oregon Health Plan	19,828	1,854	15,646	1,889	8	274	98		
Private insurance		1,695	17,700	2,538	11	577	224		
Self-pay		29	283	45	8	379	139		
Other coverage		51	415	58	_	15	4		
Birth order			_			_			
1st		1,309	12,510	2,677	14	417	198		
2nd		1,038	11,640	1,095	7	415	141		
3rd		655	5,818	446	3	220	74		
4th +	. 5,389	633	4,138	322	4	204	58		
Pre-pregnancy body mass index Underweight (< 18.5)	1,326	135	1,041	95	_	34	16		
Normal (18.5 - 24.9)	20,055	1.484	15,183	2,243	13	789	290		
Overweight (25.0 - 29.9)	10,938	837	8,509	1,187	9	270	88		
Obese (> 30.0)	11,414	1,108	9,084	982	5	147	70		
Maternal tobacco use	,	,	-,		-		-		
Tobacco use	3,965	463	3,142	300	-	26	6		
No tobacco use	40,034	3,155	30,847	4,221	28	1,228	462		
Initiation of care	05.045	0.075	07 1-6						
1st trimester		2,859	27,452	3,494	15	846	323		
2nd trimester		516	4,946	781	8	307	117		
3rd trimester	·	130	1,305	217	1	56	12		
No care Prenatal care <sup>4</sup>	. 361	80	185	26	3	28	9		
Adequate	40,978	3,141	31,941	4,236	20	1,141	430		
Inadequate		420	1,828	4,230	20	94	28		
	,000	120	.,020	201		Ŭ.	20		

Quantity is zero. Total includes 104 births that occurred en route, were unplanned home deliveries, or other out-of-hospital births not otherwise classified. Total also includes 21 births with unknown gestation. Non-Hispanic single mention race. The Hispanic category may include any mention of race. Expected principal method of payment for delivery. Actual method of payment may differ. 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. 1

2

3 4

# TABLE 2-40. Characteristics of labor & delivery, and maternal & infant health characteristics by planned place of birth, Oregon occurrence, 2017

	Tatal	Plann	ed hospita	l birth	Planne	ed out-of-hospital birth			
Selected medical and health characteristics	Total births <sup>1</sup>	Clinical estimate of gestation							
		<37	37-40	41+	<37	37-40	41+		
Total births	44,160	3,635	34,106	4,540	28	1,256	471		
Chara	cteristics	of labor a	and delive	ry					
Premature rupture of the membrane <sup>2</sup> Precipitous labor <sup>3</sup> Prolonged labor <sup>4</sup> Induction/augmentation of labor Epidural/spinal anesthesia Antepartum/intrapartum transfer Chorioamnionitis Neonatal transfer	2,272 1,916 947 20,782 27,007 696 1,137 602	416 157 42 1,168 1,997 315 59 203	1,455 1,432 656 16,191 21,586 87 817 323	317 159 171 3,220 3,246 13 249 38	7 2 1 3 8 15 2 4	62 103 44 113 93 163 7 20	12 23 32 82 71 101 3 6		
	Metho	d of deliv	ery						
Vaginal Forceps Vacuum VBAC <sup>5</sup> Primary cesarean Repeat cesarean	29,535 221 1,017 993 7,619 4,775	1,730 16 44 85 1,267 493	22,832 169 803 773 5,382 4,147	3,243 32 160 86 894 125	22 1 - 1 4 -	1,175 2 5 29 39 6	416 5 15 32 3		
	Matern	al conditi	ons						
Multiples Diabetes-chronic Diabetes-gestational Hypertension-chronic Hypertension-gestational Eclampsia Group B streptococcal test Maternal transfusion 3 <sup>rd</sup> or 4 <sup>th</sup> degree perineal laceration Ruptured uterus Unplanned hysterectomy Admission to intensive care Unplanned operating room procedure	1,586 418 3,853 889 3,650 248 42,363 302 474 10 30 93 176	846 113 466 211 689 80 3,128 71 11 2 14 40 41	734 301 3,215 663 2,754 155 33,228 187 356 5 15 43 110	1 3 116 11 174 9 4,466 31 83 2 - 8 16	2 1 4 - 22 1 1 - -	- 38 2 18 3 1,035 7 12 - 5	- 13 1 393 4 11 1 2 4		
Characteristics of infant									
Immediate assisted ventilation Assisted ventilation 6+ hours Admission to NICU Surfactant therapy Antibiotics Seizure	2,573 1,018 3,359 185 971 27	957 693 1,930 155 464 5	1,337 286 1,252 22 412 16	218 21 124 3 74 3	3 2 7 1 4 -	36 8 24 3 7 3	17 3 7 4 -		

Quantity is zero.
 Total includes 104 births that were unplanned home deliveries, occurred en route, or were out-of-hospital births not otherwise classified. Total also includes 21 births with unknown gestation.
 Rupture of the membranes ≥ 12 hours.
 Precipitous labor < 3 hours.</li>
 Prolonged labor ≥ 20 hours.
 Vaginal birth after a cesarean section.

# TABLE 2-41. Live birth order by county of residence,Oregon resident births, 2017

County of	Total				Birth or	der			
residence	births	1st	2nd	3rd	4th	5th	6th	7th	8th+
Total	43,630	16,878	14,237	7,161	3,213	1,254	455	216	216
Baker	156	50	53	24	14	8	2	3	2
Benton	696	308	229	93	45	11	7	1	2
Clackamas	4,084	1,551	1,438	659	278	101	31	17	9
Clatsop Columbia	373 519	169 188	121 171	54 90	15 40	8 15	4 7	-3	2 5
Coos	601	227	174	102	40 60	20	, 11	5	2
Crook	263	107	79	44	24	4	3	_	2
Curry	168	64	53	34	14	3	_	-	_
Deschutes	1,808	711	653	262	117	47	10	4	4
Douglas	1,070	392	338	204	90	29	9	1	7
Gilliam	14	6	5	3	_		- 0	-	_
Grant	63	27	20	5	4	5	2	-	-
Harney	73	22	28	13	9	_	1	-	-
Hood River	264	99	83	46	21	7	6	2	-
Jackson	2,249	843	757	391	158	59	16	14	11
Jefferson	264	82	68	53	29	18	6	5	3
Josephine Klamath	881 789	330 272	287 240	154 154	70 74	33 24	5 12	1 9	1 4
	109	212	240	154	74	24	12	3	4
Lake	62	18	26	14	2	1	_	_	1
Lane	3,458	1,404	1,107	574	245	85	29	6	8
Lincoln	404	153	140	65	29	12	1	2	2
Linn	1,464	555	443	272	119	41	18	4	12
Malheur	401	112	107	93	48	29	6	4	2
Marion	4,442	1,471	1,335	848	456	188	66	35	43
Morrow	169	46	47	41	20	9	5	1	_
Multnomah	8,423	3,659	2,715	1,143	501	217	82	52	54
Polk	860	333	259	153	71	25	9	5	5
Sherman	15	6	5	2	1	1	-	_	_
Tillamook	218 952	82	70 287	34 181	20 98	7 46	2 17	1 5	2 5
Umatilla	952	313	207	101	98	40	17	Э	5
Union	298	93	102	50	33	10	5	5	_
Wallowa	64	23	21	10	4	4	-	1	1
Wasco	314	119	92	48	29	19	4	3	-
Washington	6,636	2,647	2,299	1,037	397	142	67	23	24
Wheeler	8	3	4 201	-	- 78	-	- 10	-	1 2
Yamhill	1,107	393	381	211	10	26	12	4	Z

Quantity is zero.

		<i>,</i> 0		· · · , ·		
County of residence	Total births	Private insurance	Medicaid /OHP*	Self- pay	Other	Unknown
Total	43,630	22,407	19,632	885	593	113
Baker Benton Clackamas Clatsop Columbia Coos	156 696 4,084 373 519 601	49 450 2,648 130 270 207	95 222 1,307 195 209 373	5 18 84 4 12 3	7 5 37 40 20 18	- 1 8 4 8 -
Crook Curry Deschutes Douglas Gilliam Grant	263 168 1,808 1,070 14 63	86 53 930 355 6 26	168 57 794 659 7 33	3 3 65 31 1 4	5 54 15 24 –	1 1 4 1 -
Harney Hood River Jackson Jefferson Josephine Klamath	73 264 2,249 264 881 789	30 116 942 67 269 260	41 139 1,225 182 566 466	1 54 3 31 38	1 3 25 12 14 24	- 1 3 - 1 1
Lake Lane Lincoln Linn Malheur Marion	62 3,458 404 1,464 401 4,442	27 1,606 112 694 96 1,991	34 1,704 266 714 286 2,322	- 67 36 15 84	1 34 17 18 4 43	- 47 3 2 - 2
Morrow Multnomah Polk Sherman Tillamook Umatilla	169 8,423 860 15 218 952	68 4,730 463 7 95 375	93 3,503 360 7 114 548	8 129 11 1 3 9	- 51 25 - 4 14	- 10 1 - 2 6
Union Wallowa Wasco Washington Wheeler Yamhill	298 64 314 6,636 8 1,107	116 32 104 4,398 1 598	171 25 204 2,062 5 476	10 5 3 116 1 16	- 1 2 60 - 15	1 1 - 1 2

### TABLE 2-42. Payment of delivery by county of residence, Oregon resident births, 2017

Quantity is zero.
 OHP = Oregon Health Plan.

NOTE: Table represents expected principal method of payment for delivery. Actual method of payment may differ.

			Mat	ernal conditio	ns			Infant chai	racteristics	
County of occurrence	Total births	Eclampsia	Premature rupture of the membrane <sup>1</sup>	Antepartum / intrapartum transfer	Multiples	Transferred prior to delivery <sup>2</sup>	Immediate assisted ventilation	Assisted ventilation 6+ hours	Admission to NICU	Antibiotics
Total births	44,160	248	2,272	696	1,586	509	2,573	1,018	3,359	971
Baker	$\begin{array}{c} 129\\ 1,107\\ 4,357\\ 401\\ 14\\ 678\\ 7\\ 2,283\\ 895\\ 1\\ 47\\ 51\\ 458\\ 2,438\\ 128\\ 843\\ 812\\ 61\\ 3,738\\ 315\\ 895\\ 456\\ 5,054\\ 1\\ 10,217\\ 18\\ 158\\ 777\\ 262\\ 50\\ 286\\ \end{array}$	$ \begin{array}{c} 1\\ 9\\ 35\\ 4\\ -\\ 3\\ -\\ 11\\ 6\\ -\\ 2\\ -\\ 1\\ 11\\ 3\\ -\\ 7\\ 1\\ 10\\ 1\\ 10\\ -\\ 66\\ -\\ -\\ 1\\ 4\\ 7\\ 1\\ 4\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	5 71 144 24 1 99 - 66 4 - 5 11 96 5 4 5 11 96 5 4 5 11 96 5 4 125 19 14 155 826 1 155 826 1 2 3 1 2 3	20 226 3 48 4 48 4 733 3 7 8 128 4 73 3 7 8 128 4 3 7 262 7 262 1 262 1 262 1 262 1 262 1 262 1 262 1 263 1 264 1 273 1 274 1 2771 277177172 1		- 14 8 1 - 2 - 37 - - 2 66 3 5 - 2 66 3 5 - 2 - - - - - - - - - - - - - - - - -	10 62 178 28 29 - - 86 35 - 2 4 27 192 3 70 77 5 182 17 667 - 667 - 667 - 667 - 6	4 6 23 6 - 5 15 19 - 2 2 94 1 2 2 94 1 2 2 94 1 1 251 - - 8 - - - - - - - - - - - - - - - -	8 37 209 9 - 40 - 192 59 - 4 8 303 6 29 59 - 342 9 59 340 - 1,223 - 340 - 2 11 3 3 - 3 - 3 -	$\begin{array}{c} 5\\ 12\\ 37\\ 8\\ -\\ 35\\ -\\ -\\ 13\\ 26\\ -\\ -\\ 5\\ 79\\ -\\ 3\\ 42\\ 134\\ 4\\ 20\\ 3\\ 208\\ 216\\ -\\ -\\ 1\\ 13\\ -\\ 1\\ 13\\ -\\ 1\\ 1\end{array}$
Washington Wheeler Yamhill	6,118 2 1,101	29 1	611 	57 8	258 _ 16	31 4	421 68	192 5	417 22	92  13

## TABLE 2-43. Selected maternal conditions and infant characteristics by county of residence, Oregon occurrence, 2017

Quantity is zero.
 Rupture of the membranes ≥ 12 hours.
 Mother transferred during labor prior to delivery to a facility in designated county.

### Induced termination of pregnancy

### **Current trends**

During 2017, 8,506 induced terminations of pregnancy (abortions) were performed in Oregon. This total represents a 4.9% decrease from 2016, and a decrease of 45.9% 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 2017, 844 patients (9.9%) were out-of-state residents (see Table 3-6). Oregonians who obtained abortions in other states are not included in these data. Because rate calculations use Oregon population numbers, out-of-state residents' data are used as a substitute for the unknown number of Oregonians who obtained an abortion in another state (see Appendix B: "Technical notes," for a more extensive discussion of the completeness of abortion data).

The national abortion rate has been declining since 1980 from approximately 25 per 1,000 women ages 15–44 years to 12.1 per 1,000 in 2014, the most recent year for which national data are available.1 In 2017, the Oregon rate fell to 10.6 per 1,000 women ages 15–44, a 4.5% decrease from 2016, and a 57.8% decrease from the record high seen in 1980 (25.1 per 1,000).

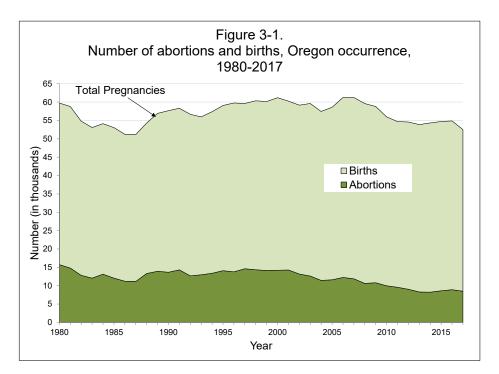


Table 3-A. Comparison of Oregon and U.S. abortion ratios, 1985-2014							
Year	U.S. abortion ratio <sup>1</sup>	Oregon's abortion ratio <sup>2</sup> as percent difference from U.S.					
1985	354	-16%					
1986	354	-21%					
1987	356	-21%					
1988	352	-9%					
1989	346	-6%					
1990	344	-11%					
1991	338	-4%					
1992	334	-13%					
1993	333	-10%					
1994	321	-4%					
1995	311 <sup>3</sup>	+2%					
1996	315	-4%					
1997	306	+6%					
1998	264 <sup>3</sup>	+17%					
1999	256 <sup>3</sup>	+12%					
2000	245 <sup>4</sup>	+24%					
2001	246 <sup>4</sup>	+25%					
2002	246 <sup>4</sup>	+16%					
2003	241 <sup>5</sup>	+12%					
2004	238 <sup>5</sup>	+4%					
2005	233 <sup>6</sup>	+7%					
2006	236 <sup>7</sup>	+6%					
2007	231 <sup>7</sup>	+4%					
2008	234 <sup>7</sup>	-8%					
2009	227 <sup>8</sup>	0%					
2010	228 <sup>7</sup>	-5%					
2011	219 <sup>9</sup>	-3%					
2012	210 <sup>7</sup>	-6%					
2013	200 <sup>7</sup>	-9%					
2014	*186 <sup>10</sup>	-4%					

<sup>1</sup> CDC. Abortion Surveillance - United States, 2014. MMWR November 24, 2017; 66(24);1-48

<sup>2</sup> See Table 3-2 <sup>3</sup> Alaska, California, Naw Ham

<sup>3</sup> Alaska, California, New Hampshire and Oklahoma did not report.

<sup>4</sup> Alaska, California and New Hampshire did not report.

<sup>5</sup> California, New Hampshire and West Virginia did not report.

<sup>6</sup> California, Louisiana and New Hampshire did not report.

<sup>7</sup> California, Maryland and New Hampshire did not report.

<sup>8</sup> California, Delaware, Maryland and New Hampshire did not report.

<sup>9</sup> Alaska, California, Delaware, Louisiana, Maryland, New Hampshire and West Virginia did not report.

<sup>10</sup> California, Louisiana, Maryland and New Hampshire did not report.

NOTE: These are original numbers reported by the CDC and may not reflect any subsequent changes.

\* Most recent data available

During the past 20 years, Oregon's abortion rate for women ages 15–44 years has generally declined — from a high of 20.3

### **Pregnancy outcomes**

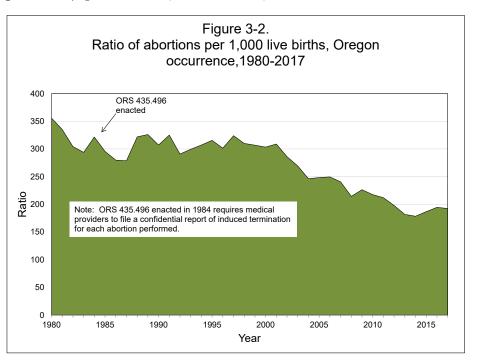
in 1998 to 10.6 per 1,000 women in 2017.

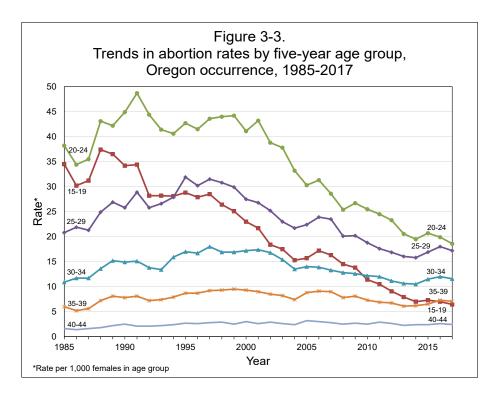
Figure 3-2 shows the ratio of abortions to births occurring in Oregon. Both the highest abortion rate (number of abortions per 1,000 female population) and the highest ratio of abortions (number of abortions per 1,000 births) occurred in 1980. In 1984, the level of reporting increased due to new legislation that required providers to report all abortions performed. The overall abortion ratio has gradually declined since 1980, with periodic spikes (see Figure 3-2).

In 2017, there were 192.6 abortions per 1,000 births in Oregon. This represents a 1.0% decrease from 2016 and a 45.9% decrease from 1980 when this ratio was 355.8 per 1,000 births (see Table 3-2). From 1973, when the U.S. Supreme Court's decision in Roe v. Wade legalized abortion, to the mid-2000s, Oregon's abortion ratio fluctuated relative to the national ratio. Since then, however, Oregon's abortion ratio has remained near the national ratio (see sidebar Table 3-A).

### **Abortion patients**

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





### Age

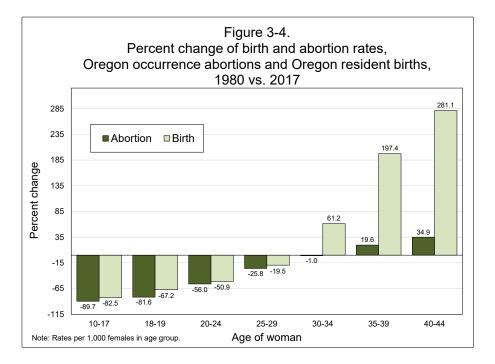
Abortion rates vary widely among age groups. The highest rate in 2017 occurred among women ages 20–24 years (18.6 per 1,000). The lowest rates were among women under age 15 and women 45–49 years (0.1 per 1,000 and 0.2 per 1,000; see sidebar Table 3-B). The youngest person to obtain an abortion in 2017 was 13 years old.

The 2017 abortion rate among teens ages 10–17 years was 89.6% lower than the rate in 1980, when the statewide abortion rate was highest; the rate for 18- to 19-year-olds was 81.6% lower (see Figure 3-4). The absence of a corresponding increase in the birth rates among teens suggests success in avoiding unwanted pregnancy, rather than an increase in decisions to carry unwanted pregnancies to term. In contrast, among women ages 35–39 years, abortion rates were 19.6% higher in 2017 than in 1980.

Table 3-B.	Abortion rates by	y age and
	centage distributi	
Oreg	on occurrence <sup>1</sup> , 2	2017
Age	Rate <sup>2</sup>	%
<15	0.1	0.2
15-19	6.4	9.6
20-24	18.6	27.9
25-29	17.2	27.9
30-34	11.6	18.8
35-39	7.1	11.5
40-44	2.4	3.8
45-49	0.2	0.3
15-44	10.6	99.5

<sup>1</sup> 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.

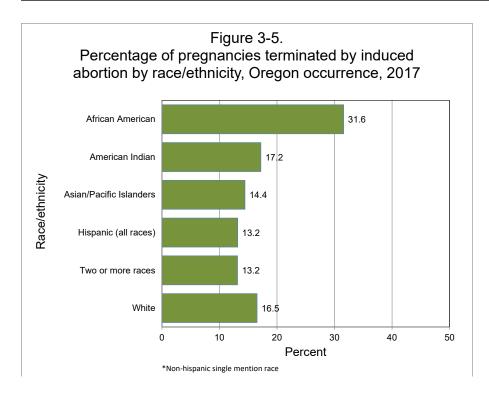
Per 1,000 females in age group



### **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 2017 with 31.6% and 17.2%, respectively. Oregon's demographic composition is predominately White, and, by count in 2017, White women obtained most of the abortions. Note that the third highest percentage of pregnancies terminated, which was 47.6% lower than that among African American women, was reported among White women. The lowest percentage of pregnancies terminated was among women of Hispanic ethnicity (13.2%), followed by that among Asian/Pacific Islander women (14.4%) (see Figure 3-5).

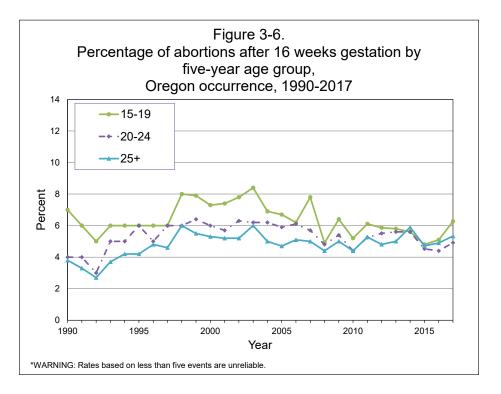


### **Contraceptive use**

For most abortions that occur in Oregon, the pregnancy is not a result of contraceptive failure. In 2017, based upon data obtained from abortion reports, 33.3% of women had used some method of contraception to avoid pregnancy. Of the 66.7% of abortion patients who did not report using contraceptives, 35.8% had previously obtained an abortion (see Table 3-5).

### **Medical procedures**

For abortions with known gestation periods, 88.6% were performed prior to the 13th week of pregnancy (see Table 3-4). Approximately one in 20 (5.3%) induced terminations with known gestation was performed after 16 weeks. Women younger than 20 years old obtained an abortion past 16 weeks' gestation in 6.4% of cases, which was 22.8% more often than women age 20 and older. The percentage of abortions occurring after 16 weeks' gestation increased for all age groups in 2017 (see Figure 3-6). Medical (non-surgical) was the procedure used in 48.8% of terminations prior to the 13th week where method was reported. Dilation and evacuation was the procedure in 89.3% of terminations occurring after 16 weeks' gestation.



Complications at the time of the induced termination procedure were reported for 312 terminations (3.7% of abortion patients). Retained products (91 patients) and failure of first method (50 patients) were the most common complications. In Oregon, no woman is reported to have died as the result of a legally induced termination.

### **Geographic distribution**

Abortion rates varied widely within Oregon, with 35 of 36 counties reporting at least one resident who obtained an abortion in 2017. Service providers, conversely, were geographically concentrated. Abortions were reported in seven counties in 2017, with 90.3% of all abortions obtained in five counties: Deschutes, 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 may be limited for some Oregon women.

### References

Jatlaoui TC, Shah J, Mandel MG, et al. Abortion surveillance

 United States, 2014. MMWR Surveill Summ 2017;66(No. SS-24):1–48. DOI: [cited 2018 Dec 28]. Available from: <u>http://dx.doi.org/10.15585/mmwr.ss6624a1</u>.

es, births, and abortions to	<b>5, 1990, 1995-2017</b>
TABLE 3-1. Number, rate, and percent change for pregnancies, births, and abortions	15- to 44-year-olds, Oregon, selected years 1980, 1985, 1990, 1995-2017

3-8

Year No. Rate 1980 58,592 94.4 1985 51,287 81.1 1995 56,315 85.8 1996 56,315 85.8 1996 57,175 83.1 1997 58,106 84.0 1998 59,284 84.5 1999 59,067 84.5	<ul> <li>% change in rate from</li> <li>previous year</li> <li>1.6</li> <li>1.2.9</li> </ul>	No. 43,007 39,364 42,741 42,568 43,515 43,619 45,075	Rate	% change in rate from		Ĺ	% change in	% of pregnancies	% change in
58,592 51,287 56,315 56,521 57,175 58,106 59,284		43,007 39,364 42,741 42,568 43,515 43,619 45,075	60 3	previous year	No.	Kate	rate from previous year	ending in abortion	percent from previous year
51,287 56,315 56,521 56,521 58,106 59,284 59,067	-	39,364 42,741 42,568 43,515 43,619 45,075	0.00	0.3	15,585	25.1	5.3	26.6	3.7
56,315 56,521 57,175 58,106 59,284 59,067		42,741 42,568 43,515 43,619 45,075	62.2	-1.0	11,923	18.8	-9.1	23.2	-6.5
56,521 57,175 58,106 59,284 59,067	1.3	42,568 43,515 43,619 45,075	65.2	3.0	13,754	20.7	-3.0	24.1	-4.4
57,175 58,106 59,284 59,067		43,515 43,619 45,075	62.4	2.1	13,953	20.4	4.6	24.7	2.1
58,106 59,284 59,067		43,619 45,075	63.2	1.3	13,660	19.9	-2.5	24.4	-1.2
59.067	3.1 0.6	0.00	63.0 64.2	6.0 0	14,487 14 200	20.9 20.3	5.0	24.9 24.0	2.0 -3.6
500		45,039	64.2	0.0	14,028	20.0	-1.5	23.7	-1.3
2000 59,758 82.4		45,654	62.9	-2.0	14,104	19.4	-3.0	23.6	-0.4
59,348		45,177	61.6	-2.1	14,171	19.3	-0.5	23.9	1.3
58,172	3.0	45,071	60.9	-1.1	13,101	17.7	-8.3	22.5	-5.9
58,337		45,799	61.2	0.5	12,538	16.7	-5.6	21.5	-4.4
2004 56,865 74.9		45,508	60.0	-2.0	11,357	15.0	-10.2	20.0	-7.0
2005 57,271 77.9		45,776	62.2	3.7	11,495	15.6	4.0	20.1	0.5
60,678		48,539	65.5	5.3	12,139	16.4	5.1	20.0	-0.5
60,885		49,211	66.0	0.8	11,674	15.7	-4.3	19.2	-4.2
2008 59,496 78.4 2009 57,804 76.1	1 -4.0 -2.9	48,999 47,070	64.6 62.0	-2.2 -4.0	10,497 10,734	13.8 14.1	-11.6 2.2	17.6 18.6	-8.0 5.3
2010 55,395 73.1		45,479	60.0	-3.2	9,916	13.1	-7.5	17.9	-3.6
54,562	-1.8	45,040	59.3	-1.2	9,522	12.5	-4.6	17.5	-2.2
53,845		44,942	58.8	-0.8	8,903	11.7	-6.4	16.7	-4.6
		45,023	58.6	-0.3	8,159	10.6	-9.4	15.3	-8.4
53,390		45,434	58.6	0.0	7,956	10.3	-2.8	14.9	-2.6
		45,537	58.0	-1.0	8,560	10.9	5.8	15.8	6.0
54,318	-1.2	45,430	57.0	-1.7	8,888	11.1	1.8	16.4	3.8
2017 51,981 64.8		43,516	54.3	-4.7	8,465	10.6	-4.5	16.3	-0.6

Pregnancies include resident births and occurrence abortions, but exclude fetal deaths and spontaneous abortions.
 Births to Oregon residents (includes 15-44 year-old females only).
 Abortions occurring in Oregon (includes 15-44 and unknown age females).
 NOTE: Rates per 1,000 females 15-44 years of age.

		Induced a	bortions
Year	Births	Number	Ratio
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
2015	46,102	8,610	186.8
2016	45,977	8,942	194.5
2017	44,160	8,506	192.6

# Table 3-2. Live births and induced abortionsoccurring in Oregon, 1980-2017

\* 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.

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TABLE 3-3					e/ethni rence,		arital s	tatus		
Race/ethnicity and	Total				Α	ge grou	os			
marital status	Total	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total White	8,506 6,709	15 13	817 669	2,374 1,867	2,375 1,897	1,601 1,256	975 751	323 241	24 14	2 1

1,941

1,645

1.985

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Marital status

-	Quantity	is zero.	
	Quantity	10 2010.	

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

African American .....

American Indian .....

Chinese .....

Japanese .....

Hawaiian .....

Filipino .....

Other Asian/Pacific Islander ...

Other non-white .....

Unknown .....

Hispanic .....

White .....

African American .....

American Indian .....

Chinese .....

Japanese .....

Hawaiian .....

Filipino .....

Other non-white .....

Unknown .....

Non-Hispanic White .....

African American .....

American Indian .....

Chinese .....

Japanese .....

Hawaiian .....

Filipino .....

Other non-white .....

Unknown .....

Ethnicity unknown .....

Never married .....

Now married .....

Widowed .....

Divorced/dissolution .....

Separated .....

Domestic partnership .....

Unknown .....

Islander .....

Other Asian/Pacific

Islander .....

Other Asian/Pacific

1,254

7,252

6,054

5.622

1,251

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### TABLE 3-4. Abortions in relation to length of gestation by method, complications, and age of patient, Oregon occurrence, 2017

Method, complications and	<b>T</b> . ( . )			Wee	ks gesta	ation		
age of patient	Total	< 9	9-12	13-16	17-20	21-22	23+	Unk.
Total	8,506	6,078	1,419	512	279	84	87	47
		Me	ethod		1			
Suction curette	2,781	1,736	840	185	2	_	_	18
Medical (non-surgical)	3,693	3,428	234	3	11	3	6	8
Dilation & evacuation	1,911	841	329	319	262	75	65	20
Vaginal prostaglandin	10	_	_	1	1	4	4	_
Sharp curettage	88	70	15	3	-	_	-	_
Other	23	3	1	1	3	2	12	1
		Compl	ications	1				
None	8,194	5,828	1,378	504	275	80	82	47
Hemorrhage	5	3	2	_		_	_	_
Infection	5	4	_	_	_	_	1	_
Uterine perforation	1	1	_	_	_	_	_	_
Retained products	91	69	17	3	2	_	-	_
Failure of first method	50	42	7	-	-	_	1	_
Other	125	108	10	3	-	2	2	_
Multiple complications <sup>2</sup>	35	23	5	2	2	2	1	_
		Age	groups					
<15	15	7	2	4	1	_	1	_
15-19	817	521	179	63	31	8	12	3
20-24	2,374	1,695	409	139	77	18	21	15
25-29	2,375	1,725	380	130	84	24	17	15
30-34	1,601	1,174	246	94	42	19	20	6
35-39	975	697	145	63	36	13	14	7
40-44	323	241	54	17	6	2	2	1
45+	24	16	4	2	2	_	_	_
Not stated	2	2	-	-	-	_	-	_

Quantity is zero.
 Reported complications. Categorized as none if no specific complication was reported.
 Patients having more than one complication are listed here. Their individual complications are not listed above.

### TABLE 3-5. Contraceptive use, number of previous abortions, and number of living children by age of patient, Oregon occurrence, 2017

Contraceptive used, previous	Tatal				Α	ge grou	os			
abortions, and number of living children	Total	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	8,506	15	817	2,374	2,375	1,601	975	323	24	2
None used	5,447	13	554	1,547	1,505	1,017	574	218	18	1
No previous abortion	3,463	13	494	1,142	877	546	273	109	8	1
One	1,129		51	290	359	237	126	58	8	
Two	467	_	7	67	143	125	96	28	1	_
Three	177	_	1	17	63	48	36	12	_	_
Four or more	156	-	-	16	48	49	34	8	1	-
Pills used	933	_	102	291	303	133	89	14	1	_
No previous abortion	585	-	90	204	173	60	49	8	1	-
One	207	_	8	67	71	39	18	4	-	-
Two	80	_	1	9	39	18	11	2	_	-
Three	30	_	1	6	9	8	6	-	-	_
Four or more	24	-	1	3	9	7	4	-	-	-
Condoms used	1,065	2	78	262	268	222	181	47	4	1
No previous abortion	647	1	65	186	163	116	89	25	1	1
One	244	1	13	55	62	51	48	11	3	-
Тwo	99	-		11	26	31	25	6	-	-
Three	51	-		8	11	19	11	2	-	-
Four or more	22	-	-	1	6	4	8	3	-	-
Other contraceptive	821	_	48	194	232	203	111	32	1	_
No previous abortion	477	_	46	130	136	93	55	17	-	_
One	185	_	1	42	57	52	22	10	1	-
Тwo	88	_	1	12	24	28	20	3	-	-
Three	35	_	-	6	8	16	5	-	-	-
Four or more	29	-	-	1	5	12	9	2	-	-
Contraceptive use unknown	345	_	38	104	98	53	34	17	1	-
No previous abortion	220	_	31	70	55	29	23	11	1	-
One	80	-	6	27	22	16	6	3	-	-
Two	28	_	1	4	15	4	2	2	-	-
Three	4	-	-	1	2	1	-	-	-	-
Four or more	8	-	-	1	3	1	2	1	-	-
		Num	ber of liv	ving chile	dren					
No children <sup>1</sup>	4,181	15	724	1,486	1,115	567	216	52	5	1
Total with children	4,314	-	93	884	1,257	1,032	757	271	19	1
One	1,906	-	87	555	551	378	251	78	6	_
Тwo	1,460	_	6	270	425	374	280	100	5	_
Three	604	_	-	53	203	179	116	48	5	_
Four	221	-		3	57	58	74	26	2	1
Five or more	123	_		3	21	43	36	19	1	_

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

N.S. = Not stated.

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

County of					Α	ge grou	os			
residence	Total	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.
Total	8,506	15	817	2,374	2,375	1,601	975	323	24	2
Baker Benton Clackamas Clatsop Columbia Coos	4 101 721 67 83 60	- - 1 1 - -	1 13 85 10 12 9	42 210 17 25 15	1 22 181 21 24 14	2 12 122 11 10 11	- 10 90 6 9 8	- 29 1 3 3	- - 3 - -	
Crook Curry Deschutes Douglas Gilliam Grant	22 19 371 93 1 2	- - 1 *	4 5 36 14 * 1	7 5 108 19 * 1	7 2 100 30 *	2 64 19 *	2 1 42 8 *	- 21 2 *	- - - *	
Harney Hood River Jackson Jefferson Josephine Klamath	11 27 314 41 117 62	- - - 1	2 2 35 8 10 4	3 5 75 15 31 24	2 10 84 8 34 18	1 4 75 8 21 9	3 2 37 1 15 6	- 4 8 1 5 1	- - - - -	- - - - -
Lake Lane Lincoln Linn Malheur Marion	4 620 68 158 13 616	- 1 - 1 - 4	- 68 4 23 1 72	– 196 16 48 7 171	2 151 22 48 1 185	- 112 12 16 3 103	1 71 11 17 1 67	1 19 3 4 - 13	- 1 - 1 - 1	- 1 - - -
Morrow Multnomah Polk Sherman Tillamook Umatilla	1 2,629 106 - 34 10	- 2 - 1 -	- 180 7 - 4 1	1 671 39 - 10 3	- 798 29 - 12 1	– 546 13 – 3 3	- 308 13 - 3 1	- 114 5 - 1	- 10 - - -	- - - - -
Union Wallowa Wasco Washington Wheeler Yamhill	8 1 1,093 2 145	- - 1 * -	1 - 4 102 * 11	1 12 307 * 50	4  8 277 * 36	2  10 210 * 32	- 2 148 * 12	- 1 44 * 4	- - 4 *	
Out of state Not stated	844 1	1	88 –	239 _	243 _	156 1	79 –	33	4	1

### TABLE 3-6. Induced terminations of pregnancy by residence and age group of patient, Oregon occurrence, 2017

Quantity is zero.
 Detailed reporting of small numbers may breach confidentiality.

N.S. = Not stated.

				Count	y of occi	urrence		
County of residence	Total	Clacka- mas	Deschu- tes	Jackson	Lane	Marion	Multno- mah	Washing- ton
Total	8,506	408	458	417	765	568	5,272	618
Baker Benton Clackamas Clatsop Columbia Coos	4 101 721 67 83 60	– 1 185 2 5 –	3 - 1 - 1	- 3 - - 2	- 32 - 1 40	_ 31 9 1 _	1 31 495 49 73 17	- 3 31 15 4 -
Crook Curry Deschutes Douglas Gilliam Grant	22 19 371 93 1 2	- - - -	19 1 343 - 2	- 4 9 -	_ 7 1 60 _ _	- - 1 - -	3 7 25 24 1 –	- - 1 - -
Harney Hood River Jackson Jefferson Josephine Klamath	11 27 314 41 117 62	- - - -	10 - 3 30 2 7	- 248 - 80 40	- 28 - 22 10	- - 1 1	1 27 34 10 12 4	- - 1 - -
Lake Lane Lincoln Linn Malheur Marion	4 620 68 158 13 616	- 4 2 8 - 42	4 1 - 1 11 3	_ 21 _ _ 2	_ 506 7 31 _ 6	- 8 26 73 - 321	- 79 32 44 2 228	- 1 1 - 14
Morrow Multnomah Polk Sherman Tillamook Umatilla	1 2,629 106 – 34 10	_ 68 5 _ _	- 3 - - -	_ 2 _ _ _ _	_ 2 _ _ _ _	_ 4 51 _ 3 _	1 2,476 48 _ 21 10	- 74 2 - 10 -
Union Wallowa Wasco Washington Wheeler Yamhill	8 1 37 1,093 2 145	- - 40 - 10	- 1 3 2 -	- - - -	- - 2 -	- - 5 - 27	8  34 625  79	- 2 418 - 29
Out of state Not stated	844 1	36 _	6 -	5 1	10 _	5 –	771	11

# TABLE 3-7. Induced terminations of pregnancy by county of residenceand county of occurrence, Oregon occurrence, 2017

- Quantity is zero.

# **SECTION 4: TEEN PREGNANCY**

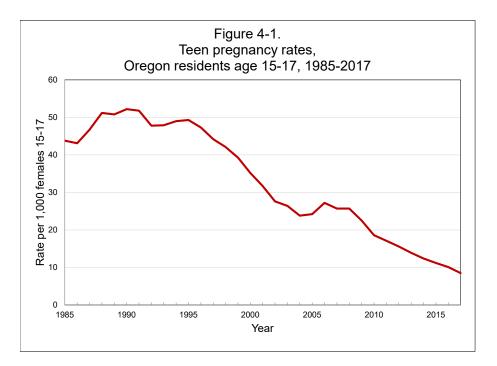
### Introduction

In 2017, 2,624 pregnancies occurred among Oregon females under the age of 20 years. Twenty-nine pregnancies occurred among females under age 15 years. Thirteen girls in the 10–14 age category gave birth during 2017, three more than in the previous year (see Table 4-2). The youngest female to give birth was 13 years old, and the youngest to obtain an abortion was 13 years old.

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 ages 15–17 and females ages 18–19 years. These two groups are compared to each other and to women age 20 years 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, persons who obtain an abortion out of state are not always included in this count (see Appendix B).

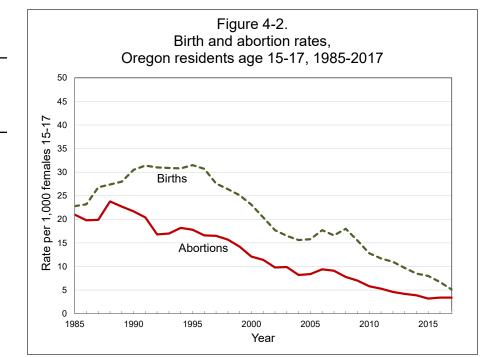
### Oregon females, ages 15–17

Efforts to prevent teen pregnancies focus primarily on females ages 15–17 years. During 2017, 639 pregnancies were recorded for Oregon females ages 15–17 years, 87 fewer than in 2016. The statewide pregnancy rate among women ages 15–17 years decreased 15.8%, from 10.1 in 2016 to a current low of 8.5 (see Table 4-1). The teen pregnancy rate has trended downward since the 1990s, and the 2017 rate is 75.9% lower than it was in 2000 (see Figure 4-1). Pregnancy rates for teens ages 15–17 years varied by county. Six counties had rates significantly different than the state rate (see Table 4-3). Pregnancy rates for Oregonians ages 15 to 17 decreased by 15.8% from 2016.



### Births to teens, ages 15–17

Of pregnancies to teens 15–17 years, 59.6% resulted in a live birth, compared to 46.2% in 1980 (see Table 4-1). There were 381 births to Oregon teens ages 15–17 years in 2017. It was the mother's first child in 94.8% of these births (see Table 4-9). The birth rate for females ages 15–17 years was 5.1 per 1,000 females, a decrease of 23.9% from the previous year. Among those who took their pregnancies to term, 97.6% were unmarried at the time of birth (see Table 4-10).

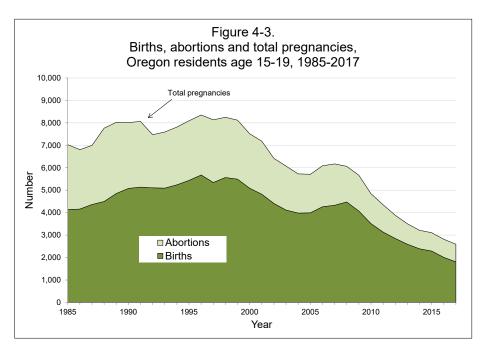


Abortion rate for teens age 15 to 17 is unchanged from 2016.

### Abortion rates among teens, ages 15–17

Abortion rates among teens ages 15–17 years remained static at 3.4% from 2016. This is a slight increase from the historic low in 2015 of 3.2 (see Table 4-1, Figure 4-2). There were 258 abortions among Oregon females ages 15–17 years reported during 2017, 13 more than in 2016. Since the record high abortion rate in 1980, the rate for females ages 15–17 years has decreased by 89.3% (from 31.9 to 3.4 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, 44.8% of pregnancies resulted in a live birth in 2017 (see Table 4-2, Figure 4-4).

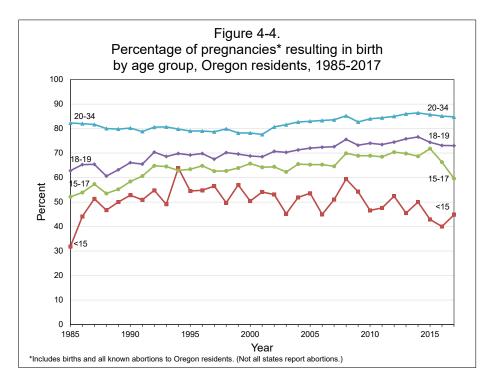


### Birth rates for teens age 18 to 19 decreased by 6.1% from 2016.

### Oregon females, ages 18–19

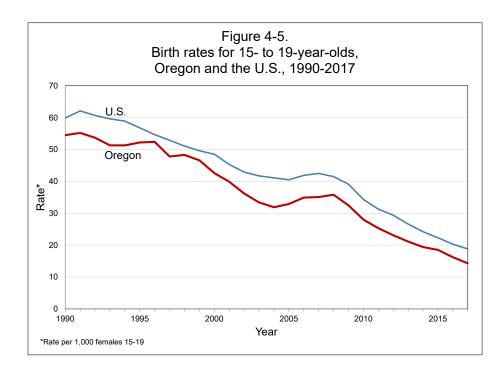
In 2017, the pregnancy rate among Oregon females ages 18–19 years was 37.6 per 1,000, a 6.0% decrease from 2016. Comparisons with the 2016 figures show a decrease in the birth rate (6.1%) and a decrease in the abortion rate (5.6%) among women ages 18–19 years (see Table 4-1).

Of the 1,956 pregnancies among women ages 18–19 years, 73.0% (1,428) resulted in a live birth (see Figure 4-4). It was the first child for 84.8% 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 11.7% in 2017 (14.3 vs. 16.2 per 1,000 females in 2016; see Table 4-1). The 2017 rate was 74.1% lower than the 1991 rate of 55.2 per 1,000, which is the highest rate recorded since that time (see Figure 4-5).



Oregon's 2017 birth rate for 15–19-year-old teens was 23.9% below the preliminary national rate (14.3 vs. 18.8 per 1,000 females; see sidebar Table 4-A).(1) Oregon's lower teen birth rate continued to decrease at the same time the state became more diverse. Historically, African American and Hispanic populations have had higher teen birth rates and have been underrepresented in the state's population. Between the 1990 and 2010 census, the proportion of racial minorities was 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 20.5 in 2017, a 76.2% decrease (see Table 4-1). For further discussion of Oregon's demographic characteristics and teen pregnancy rates, see Appendix B: "Methodology."

## Level of infant health

## Low birthweight

Whether reflecting premature delivery or small size for gestational age, the strongest single measure of newborn infant health is the rate of low birthweight, defined as less than 2,500 grams (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.

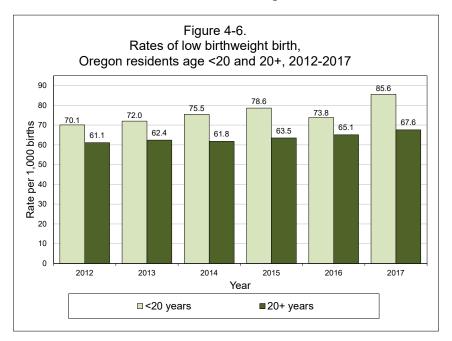


Table 4-A. Teen birth rates <sup>1</sup>										
Age Oregon U.										
Age	2017	2016 <sup>2</sup>								
15-17	5.1	6.7	8.8							
18-19	27.5	29.3	37.5							
15-19	14.3	16.2	20.3							
<sup>1</sup> All rates per 1,000 females.										
<sup>2</sup> Most rece	nt year US	data are av	ailable.							

In 2017, the low birthweight rate for mothers ages 15–19 years was 86.2 per 1,000 births (see Table 4-7), a 16.2% increase from 2016. For 18–19-year-olds, the rate (85.4 per 1,000) increased by 23.1%. The teen rate for low birthweight remained higher than for mothers age 20 years and older (67.6 per 1,000; see Table 2-27 and 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 2017, for example, 58.3% of unmarried Hispanics ages 15–17 years started prenatal care during their first trimester, compared to 71.3% of married non-Hispanic White women ages 18–19 years (see Table 4-7).

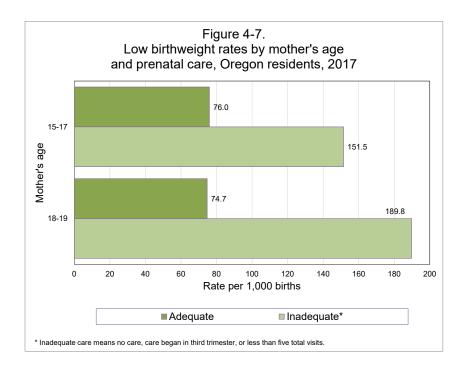
Low birthweight rates among teen mothers by racial/ethnic grouping are displayed in Table 4-7. Between 2016 and 2017, rates of low birthweight increased across race and ethnicity, excluding Asian and Pacific Islanders. The rate of low birthweight infants born to Hispanic teens ages 15–19 years increased by 18.5%, and for non-Hispanic White 15- to 19-year-olds the rate increased by 11.0%. For all non-Hispanic non-white or multiracial teens ages 15–19 years, the rate of low birthweight infants increased by 38.1% from 2016.

### **Prenatal care**

Table 4-6 shows the association between inadequate prenatal care and frequency of low birthweight infants for teens who gave birth in 2017. Among mothers ages 15–19 years, those who received inadequate prenatal care had a greater likelihood of low birthweight babies than those who had received adequate care (182.4 vs. 75.1 per 1,000 live births). Figure 4-7 shows low birthweight rates per 1,000 live births by adequate and inadequate prenatal care. For 15- to 17-year-old mothers, the rates were 151.5 vs. 76.0; for 18- to 19-year-olds, the rates were 189.8 vs. 74.7.

#### • 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. In 2017, 66.5% of teen mothers started prenatal care during the first trimester, compared to 80.5% for women age 20 years and older (see sidebar Table 4-B). Only 64.5% of those 15–17 years received first trimester prenatal care, an increase from 59.2% in 2016 (see Table 4-10).



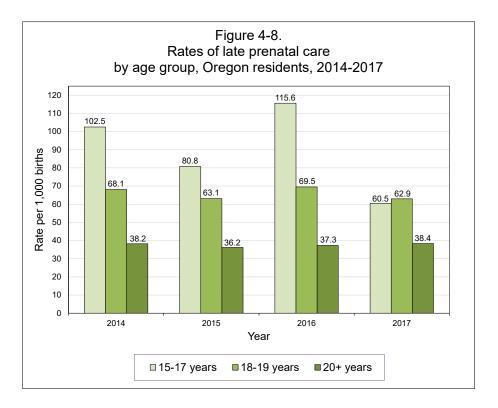
## • Inadequate prenatal care

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, 8.8% of 15- to 17-year-old teens and 9.7% of 18- to 19-year-old teens received inadequate prenatal care in 2017. This compares with 6.0% of women age 20 or older that received inadequate care (see Table 4-10). The proportion of women under age 20 that received inadequate prenatal care decreased by 18.7% in 2017, to 9.7 from 11.9 in 2016.

#### Late care or no prenatal care

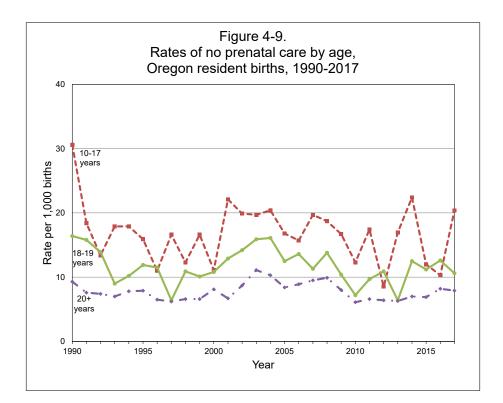
The proportion of teens ages 15–17 years that began prenatal care during the third trimester decreased 47.6% in 2017 to 60.5 per 1,000 live births (see Figure 4-8). Compared to women 20 years and older, a higher percentage of teens under age 18 went through pregnancy without a single visit to a medical provider. The rate of no prenatal care among teens 15–17 was 21.1 per 1,000 live births, which was more than two and a half times the rate among women age 20 and older (7.9 per 1,000 live births; see Table 4-10, Figure 4-9).

	Table 4-B. First trimester prenatal care, Oregon 2017								
All women	79.9								
All teens	66.5								
15-17 years	64.5								
18-19 years	67.1								
20+ years	80.5								



#### 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 under 7 is considered low and indicates an infant at greater than normal risk for morbidity and mortality.4 In 2017, the rate of low five-minute Apgar



scores for newborns of mothers ages 15–17 was 36.7 per 1,000 births (Table 4-9), a 16.2% decrease from 2016 (43.8 per 1,000). The low five-minute Apgar rate for infants born to women under age 20 was 36.8% higher than the rate for infants born to women 20 years or older (36.9 compared to 25.9 per 1,000).

## Substance use during pregnancy

Estimates of tobacco and alcohol use during pregnancy are presumed to be minimum counts due to underreporting on birth certificates. The legal age to purchase alcohol in Oregon is 21 years (ORS 471.410), while the legal age to purchase tobacco products was 18 years in 2017 (ORS 167.401). Teen mothers may be deterred by age limits placed by Oregon law on the purchase or possession of these substances.

### Tobacco

The percentage of teens ages 15–19 years who reported smoking during pregnancy in 2017 was just over 1.6 times as high as the percentage reported by women age 20 years and older (14.1% vs. 8.7%; see Table 4-9). Women who smoked during pregnancy had a higher likelihood of having low birthweight babies than did nonsmokers. Mothers age 20 or older showed the greatest difference between low birthweight rates and tobacco use (119.3 vs. 62.4 per 1,000 live births). One possible explanation for this finding is that the low birthweight rate for teen mothers ages 15–19 years was higher than for women age 20 and older (see sidebar Table 4-C).

### Alcohol

Teens ages 15–19 years reported less use of alcohol during pregnancy than did women age 20 years and older (2.3 per 1,000 births vs. 9.1 per 1,000 births).

## Source of payment

The source of payment is reported as the expected primary payment source at the time of labor and delivery. The percentage of teen mothers that reported the use of public funds to pay the costs associated with birth was nearly twice that of older mothers. According to the 2017 birth certificate data, Medicaid/Oregon Health Plan was the primary payment source for 80.6% of the births by teens ages 15–19 and 43.6% of births to women age 20 and older (see Table 4-10).

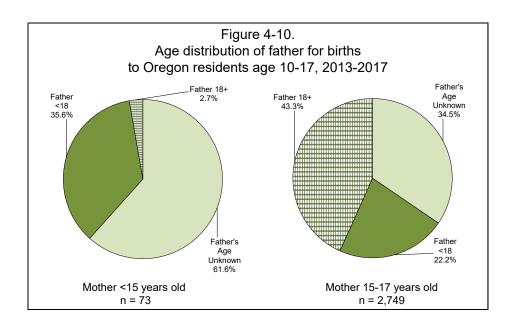
Table 4-C. Low birthweight rates <sup>1</sup>								
by mother's age and								
smoking status, Oregon, 2017								
0.08	<20 20+							
Nonsmokers	77.2	62.4						
Smokers 137.8 119.3								
<sup>1</sup> All Rates per 1,000 births								

## Age of father

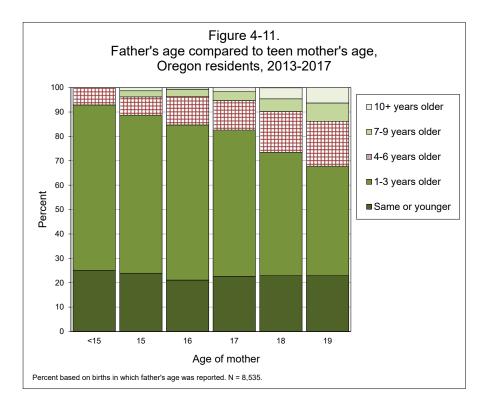
Between 2013 and 2017, certificates of 61.6% of births to mothers under age 15 years either did not indicate the father's age or the father was not identified (see Figure 4-10, Table 4-13). For those records where the father's age was reported, 92.9% were younger than age 18 years, and 7.1% were age 18 years or older.

The father's age was reported on the records of 65.5% birth mothers 15–17 years of age. Approximately one-third (33.4%) of those fathers were under age 18, and 66.6% were age 18 or older.

For all teens giving birth in Oregon during 2013–2017 where the father's age was reported, including those less than 15 years of age, 10.6% of the fathers were more than six years older than the mother. 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 13.8% for 19-year-old teens (see Figure 4-11).



Medicaid/OHP paid for 80.5 percent of births to teens in 2017.



## References

- Centers for Disease Control and Prevention (CDC). Births in the United States, 2017. NCHS Data Brief. August 2018; No.318.
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- 3. U.S. Census Bureau. Census 2010. 2010 census of population and housing, Oregon: 2010 summary population and housing characteristics. Issued June 2012, CPH -1–39.
- 4. Casey BM, McIntire DD, Leveno KJ. Feb. 15, 2001. The continuing value of the Apgar score for the assessment of newborn infants. N Engl J Med. 344 (7): 467–471.

			Pregna	incies <sup>1</sup>				Bir	ths	
Year	15 t	15 to 17		o 19	15 t	o 19	15 t	o 17	18 te	o 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
2015	804	11.2	2,300	44.5	3,104	25.1	577	8.0	1,712	33.2
2016	726	10.1	2,089	40.0	2,815	22.7	481	6.7	1,527	29.3
2017	639	8.5	1,956	37.6	2,595	20.5	381	5.1	1,428	27.5

 TABLE 4-1. Oregon pregnancies to teens 15-19 years, 1975-2017

<sup>1</sup> Pregnancy estimates are based on the total number of births and abortions. All rates are per 1,000 females.

NA = Not Available

		Abortions <sup>2</sup>								
Year		o 19	15 to	o 19	18 to	o 17	15 to		<b>Bir</b> 15 to	
	NS	Rate	No.	Rate	No.	Rate	No.	Rate	No.	
1975	23	33.1	3,647	NA	1,797	NA	1,850	47.2	5,206	
1070		00.1	0,047		1,707		1,000	τι. <u>κ</u>	0,200	
1980	903	42.9	4,762	58.1	2,693	31.9	2,069	50.9	5,658	
1985	737	29.9	2,893	43.9	1,653	21.0	1,240	42.8	4,136	
1986	114	26.9	2,648	37.5	1,480	19.8	1,168	42.3	4,159	
1987	47	28.0	2,631	40.0	1,509	19.9	1,122	46.4	4,363	
1988	48	33.9	3,266	48.2	1,920	23.8	1,346	46.7	4,496	
1989	222	32.6	3,172	44.9	1,940	22.7	1,232	49.8	4,850	
1990	122	31.5	2,936	45.2	1,754	21.7	1,182	54.5	5,080	
1991	131	31.4	2,923	48.2	1,774	20.4	1,149	55.2	5,137	
1992	169	24.9	2,363	37.2	1,394	16.8	969	53.7	5,108	
1993	256	25.2	2,501	37.7	1,486	17.0	1,015	51.3	5,091	
1994	180	25.2	2,573	35.9	1,447	18.2	1,126	51.3	5,238	
							1,120			
1995	25	25.5	2,655	37.0	1,539	17.8	1,116	52.2	5,437	
1996	21	24.7	2,674	37.1	1,581	16.6	1,093	52.4	5,676	
1997	3	25.0	2,790	38.2	1,663	16.5	1,127	47.8	5,344	
1998	43	23.3	2,683	35.4	1,570	15.7	1,113	48.3	5,565	
1999	18	22.3	2,630	34.9	1,616	14.2	1,014	46.6	5,491	
2000	20	20.3	2,425	32.6	1,554	12.1	866	42.6	5,090	
2001	8	19.5	2,361	31.8	1,538	11.4	823	39.9	4,819	
2002	7	16.5	2,008	26.6	1,284	9.8	724	36.2	4,410	
2003	33	15.9	1,959	25.0	1,219	9.9	740	33.4	4,116	
2004	12	14.0	1,746	22.8	1,128	8.2	618	31.9	3,980	
2005	24	14.2	1,717	22.8	1,106	8.4	611	32.9	3,992	
2005	18	14.2	1,824	23.2	1,131	9.4	693	34.9	4,263	
2007	24	15.0	1,845	23.8	1,171	9.1	674	35.1	4,328	
2008	47	12.7	1,590	20.1	1,008	7.8	582	35.8	4,474	
2009	34	12.7	1,592	21.3	1,065	7.0	527	32.5	4,074	
2010	49	10.6	1,331	17.9	894	5.8	437	28.0	3,511	
2011		9.8	1,214	16.1	823	5.3	391	25.3	3,135	
2012		8.4	1,036	13.7	701	4.6	335	23.1	2,849	
2013		7.4	909	11.9	606	4.2	303	21.1	2,595	
2014		6.7	821	10.6	543	3.9	278	19.4	2,392	
2015		6.6	Q1E	11 /	500	3.0	207	19 5	2 200	
		6.6	815	11.4	588 562	3.2	227	18.5	2,289	
2016		6.5	807	10.8	562	3.4	245	16.2	2,008	
2017	8	6.2	786	10.2	528	3.4	258	14.3	1,809	

TABLE 4-1.	Oregon pregnancies	to teens 15-19 years	, 1975-2017 (continued)
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<sup>2</sup> Abortion estimates are based on reports for Oregon residents whether occurring in Oregon or another state. For years prior to 1985 (and in 1986-1987) abortion estimates were based on Oregon occurrences only, but included abortions obtained by out-of-state residents. Because some neighboring states do not report abortions to the state of residence (especially California), this results in minimal estimates for both abortions and pregnancies.

NA = Not Available

All rates are per 1,000 females.

Year		egnancie	3		Births		/ /	bortions <sup>2</sup>		Live births <sup>3</sup>	
i cai	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	Per	cent
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
1966							-				
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
1004	100	0,214	10.0		2,022	11.0	00	1,102	1.0	00.0	02.0
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											63.6
1999	151	2,961	15.9	86	1,882	10.1	65	1,079	5.8	57.0	03.0
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
2002											
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		8.9	39		6.1	33		2.8		68.3
2009	12	1,768	0.9	39	1,208	0.1	33	560	2.0	54.2	00.3
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
2013	40	929	4.9	20	631	3.3	20	298	1.6	50.0	67.9
2015	35	839	4.4	15	592	3.1	20	247	1.3	42.9	70.6
2016	25	751	3.9	10	491	2.6	15	260	1.4	40.0	65.4
2017	29	668	3.4	13	394	2.0	16	274	1.4	44.8	59.0

TABLE 4-2. Oregon pregnancies to young teens 10-17 years, 1975-2017

 Pregnancy estimates are based on the total number of births and abortions.
 Abortion estimates are based on reports for Oregon residents whether occurring in Oregon or another state. For years prior to 1985 Abortion estimates are based on reports for Oregon residents whether occurring in Oregon of another state. For years prior to 1965 (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.
 Percentage of pregnancies resulting in a live birth.

NA = Not Available

All rates are per 1,000 females.

County of	Total		Aç	ge			Pregnar	ncy rate <sup>1</sup>	
residence	pregnancies (all ages)	<15	15-17	18-19	15-19	10-17	15-17	18-19	15-19
Total <sup>2</sup>	51,657	29	639	1,956	2,595	3.4	8.5	37.6	20.5
Baker Benton Clackamas Clatsop Columbia Coos	170 799 4,817 442 614 662	- 2 2 - 1	1 45 7 6 8	8 21 142 18 36 35	9 25 187 25 42 43	1.3 § 1.0 § 2.2 5.0 2.3 3.3	3.5 § 2.5 § 5.3 11.1 6.1 7.5	63.0 § 7.3 § 31.9 39.6 § 70.7 51.6	21.7 § 5.6 § 14.5 23.0 28.2 24.7
Crook Curry Deschutes Douglas Gilliam Grant	285 187 2,179 1,163 15 65	- - 1 - *	3 1 29 13 - *	19 16 61 75 1 *	22 17 90 88 1 5	3.0 1.3 3.2 2.8 - *	7.8 3.3 8.7 6.7 *	§ 109.2 § 114.3 33.1 § 69.2 111.1	§ 39.4 § 38.7 17.4 § 29.0 25.6 33.1
Harney Hood River Jackson Jefferson Josephine Klamath	86 294 2,563 305 1,000 853	- - - 1	2 - 36 5 18 10	3 17 108 22 48 36	5 17 144 27 66 46	5.6 - 3.4 4.1 4.8 3.0	14.8 9.2 10.9 12.5 8.3	42.3 65.6 43.0 § 92.1 § 59.9 45.1	24.3 21.7 22.5 § 38.7 § 29.4 22.9
Lake Lane Lincoln Linn Malheur Marion	66 4,081 472 1,622 430 5,065	* _ 1 _ 5	* 9 25 13 95	* 159 22 84 29 236	5 209 31 109 42 331	* 5.1 4.0 § 7.6 § 5.3	* 7.7 14.4 10.4 § 21.2 § 13.4	* \$ 24.9 59.3 \$ 57.3 \$ 69.0 \$ 49.6	27.2 § 16.2 31.1 § 28.1 § 40.7 § 27.9
Morrow Multnomah Polk Sherman Tillamook Umatilla	188 11,080 966 15 252 1,154	1 5 - 1 1	4 117 10 - 6 27	14 335 40 - 8 79	18 452 50 - 14 106	6.8 3.7 2.2 - 6.0 § 6.2	14.2 9.9 6.2 	§ 97.2 35.8 § 26.1 - 38.6 § 75.7	§ 42.3 21.3 15.9 21.8 § 38.6
Union Wallowa Wasco Washington Wheeler Yamhill	341 69 351 7,743 10 1,252	2 * - 4 -	3 * 79 - 9	18 * 20 185 _ 50	21 23 264 - 59	3.8 * 2.2 2.7 _ § 1.6	6.4 * 6.0 6.8 _ § 4.1	40.8 * \$ 70.7 \$ 28.0 _ 28.3	23.1 12.4 29.4 § 14.5  § 15.0

TABLE 4-3. Pregnancy rates of teens by county of residence, Oregon, 2017
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Quantity is zero.
 All rates per 1,000 females.
 Total includes one pregnancy 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.

	_			<b>,</b>			,	, -	
County of	Total births		A	ge			Birth	rate <sup>1</sup>	
residence	(all ages)	<15	15-17	18-19	15-19	10-17	15-17	18-19	15-19
Total	43,630	13	381	1,428	1,809	2.0	5.1	27.5	14.3
Baker Benton Clackamas Clatsop Columbia Coos	156 696 4,084 373 519 601	- 1 1 - 1	1 2 17 2 4 5	7 10 85 13 26 28	8 12 102 15 30 33	1.3 0.5 § 0.8 1.7 1.5 2.2	3.5 § 1.2 § 2.0 3.2 4.1 4.7	55.1 § 3.5 § 19.1 28.6 § 51.1 41.3	19.3 § 2.7 § 7.9 13.8 20.1 18.9
Crook Curry Deschutes Douglas Gilliam Grant	263 168 1,808 1,070 14 63	_ _ _ *	1 - 13 9 - *	17 12 41 65 1 *	18 12 54 74 1 4	1.0 - 1.4 1.8 - *	2.6  3.9 4.6 _ *	§ 97.7 § 85.7 22.2 § 60.0 111.1 *	§ 32.2 27.3 10.5 § 24.4 25.6 26.5
Harney Hood River Jackson Jefferson Josephine Klamath	73 264 2,249 264 881 789	_ _ _ _ _	- 24 2 14 9	1 15 85 17 42 33	1 15 109 19 56 42	- 2.3 1.7 3.6 2.7	- 6.2 4.4 9.7 7.5	14.1 § 57.9 33.8 § 71.1 § 52.4 41.3	4.9 19.1 17.0 § 27.2 § 25.0 § 20.9
Lake Lane Lincoln Linn Malheur Marion	62 3,458 404 1,464 401 4,442	*       1	* 33 7 13 9 70	* 107 20 73 25 189	5 140 27 86 34 259	* 2.1 4.0 2.0 § 5.3 § 3.8	* 5.1 11.2 5.4 § 14.7 § 9.9	* § 16.7 § 53.9 § 49.8 § 59.5 § 39.7	27.2 § 10.9 § 27.1 § 22.2 § 32.9 § 21.8
Morrow Multnomah Polk Sherman	169 8,423 860 15	1 3 - -	_ 65 10 _	10 207 33 –	10 272 43	1.4 2.1 2.2 –	_ 5.5 6.2 _	§ 69.4 § 22.1 21.5 –	23.5 12.8 13.6 –
Tillamook Umatilla	218 952	_ 1	4 15	6 56	10 71	3.4 3.5	9.2 8.8	29.0 § 53.6	15.6 § 25.9
Union Wallowa Wasco Washington Wheeler Yamhill	298 64 314 6,636 8 1,107	- * 3 -	2 * 1 41 - 7	16 * 18 121 _ 41	18 - 19 162 - 48	1.5 * 0.7 1.4 - 1.2	4.3 * 2.0 3.6 - 3.2	36.3 * § 63.6 § 18.3  23.2	19.8 24.3 § 8.9 12.2

TABLE 4-4. Birth rates of teens by county of residence, Oregon, 2017

Quantity is zero.
 All rates per 1,000 females.
 Birth rate is significantly different from the state rate.
 \* Detailed reporting of small much series.

Detailed reporting of small numbers may breach confidentiality.

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

County of	Total		A	ge	-		Abortio	n rate <sup>1</sup>	
residence	abortions (all ages)	<15	15-17	18-19	15-19	10-17	15-17	18-19	15-19
Total <sup>2</sup>	8,027	16	258	528	786	1.4	3.4	10.2	6.2
Baker Benton Clackamas Clatsop Columbia Coos	14 103 733 69 95 61	_ 1 1 _	- 2 28 5 2 3	1 11 57 5 10 7	1 13 85 10 12 10	- 0.5 1.3 3.4 0.8 1.1	1.2 3.3 7.9 2.0 2.8	7.9 § 3.8 12.8 11.0 19.6 10.3	2.4 § 2.9 6.6 9.2 8.0 5.7
Crook Curry Deschutes Douglas Gilliam Grant	22 19 371 93 1 2	_ _ 1 _ *	2 1 16 4 -	2 4 20 10 -	4 5 36 14 - 1	2.0 1.3 1.8 1.0 -	5.2 3.3 4.8 2.1 -	11.5 28.6 10.8 9.2 -	7.2 11.4 7.0 4.6 - 6.6
Harney Hood River Jackson Jefferson Josephine Klamath	13 30 314 41 119 64	- - - 1	2 - 12 3 4 1	2 23 5 6 3	4 2 35 8 10 4	5.6 – 1.1 2.5 1.3 0.3	14.8 - 3.1 6.5 2.8 0.8	28.2 7.7 9.1 20.9 7.5 3.8	19.4 2.6 5.5 11.5 4.5 § 2.0
Lake Lane Lincoln Linn Malheur Marion	4 623 68 158 29 623	- 1 - 1 - 4	- 17 2 12 4 25	- 52 2 11 4 47	- 69 4 23 8 72	- 1.1 2.0 2.3 1.5	2.6 3.2 5.0 6.5 3.5	- 8.1 5.4 7.5 9.5 9.9	5.4 4.0 5.9 7.8 6.1
Morrow Multnomah Polk Sherman Tillamook Umatilla	19 2,657 106 - 34 202	- 2 - 1 -	4 52 - 2 12	4 128 7 - 2 23	8 180 7 - 4 35	5.5 1.7  2.6 2.7	14.2 4.4 - 4.6 7.1	27.8 § 13.7 4.6 9.7 § 22.0	§ 18.8 § 8.5 § 2.2 – 6.2 § 12.8
Union Wallowa Wasco Washington Wheeler Yamhill	43 5 37 1,107 2 145	2 * 1 - -	1 * 38 - 2	2 * 64 - 9	3 2 4 102 - 11	2.3 * 1.5 1.3 - 0.3	2.1 * 4.0 3.3 - 0.9	4.5 * 7.1 9.7 _ 5.1	3.3 12.4 5.1 5.6 _ § 2.8

-1 2 §

Quantity is zero. All rates per 1,000 females. Total includes one abortion 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.

			Ade	equacy of	prenatal c	are	
Race/ethnicity and	Total	Inadeo	quate <sup>1</sup>	Adec	luate	Not s	tated
age of mother	births	<2500 grams	2500+ grams	<2500 grams	2500+ grams	<2500 grams	2500+ grams
Fotal births <sup>2</sup>							
15-19	1,809	31	139	121	1,492	4	22
15-17	381	5	28	26	316	3	3
18-19	1,428	26	111	95	1,176	1	19
	Non-H	lispanic s	single me	ntion race			
White							
15-19	951	12	56	68	805	2	
15-17	178	1	10	11	155	1	-
		-			650	1	6
18-19       773       11       46       57         African American       45       1       5       3         15-19       45       1       5       3         15-17       12       -       -       1         18-19       33       1       5       2         American Indian       20       20       2       2	000		,				
	45	1	5	3	36	_	_
		_	-		11	_	_
		1	5	-	25	_	_
15-17     12     -     -     1       18-19     33     1     5     2	20						
	32	2	2	2	26	_	_
		-	-		4	_	_
	27	2	2	1	22	_	_
	21	2	2		~~~		
Asian         15-19         10         1         2           15-17         -         -         -         -         -	1	6	_	_			
Asian       10       1       2 $15-19$ $-1$ $  15-17$ $   18-19$ $10$ $1$ $2$ Hawaiian/Pacific $10$ $1$ $2$ Islander $10$ $1$ $2$ $15-19$ $22$ $ 9$ $15-17$ $1$ $  18-19$ $21$ $ 9$ Other/unknown $5$ $ 2$	_	-	_	_			
Asian       10       1       2         15-19       -       -       -         15-17       -       -       -         18-19       10       1       2         Hawaiian/Pacific       10       1       2         Islander       -       -       -         15-19       22       -       9         15-17       1       -       -         18-19       21       -       9         Other/unknown       21       -       9	1	6	_	_			
Asian       15-19       10       1       2         15-17       -       -       -       -         18-19       10       1       2         Hawaiian/Pacific       10       1       2         Islander       -       -       -	•	Ũ					
Islander       22       9         15-19       1       -       9         15-17       1       -       -         18-19       21       -       9         Dther/unknown       5       -       2         15-19       5       -       2         15-17       4       -       1	_	13	_	_			
15-19       22       -       9         15-17       1       -       -         18-19       21       -       9         Other/unknown       5       -       2         15-17       4       -       1	_	1	_	_			
15-17       1       -       -         18-19       21       -       9         Other/unknown       5       -       2         15-19       5       -       2         15-17       4       -       1         18-19       1       -       1         Multiple races       1       -       1	_	12	_	_			
18-19       21       -         ther/unknown       5       -         15-19       5       -         15-17       4       -         18-19       1       -         ultiple races       1       -	0						
ther/unknown         5         -           15-19         5         -           15-17         4         -           18-19         1         -	2	_	3	_	_		
Other/unknown         5         -           15-19         5         -           15-17         4         -           18-19         1         -           Multiple races         103         4		_	3	_	-		
15-19       5       -         15-17       4       -         18-19       1       -         Multiple races       103       4         15-17       27       -		_	_	_	-		
18-19       1       -         ultiple races       1       1         15-19       103       4		-					
	Itiple races         103           5-19         103           5-17         27		10	4	84	_	
	tiple races         103         4           5-19         103         4           5-17         27         -		2	23	_	-	
18-19       1       -       1         ultiple races       103       4       10         15-19       27       -       2         18-19       76       4       8	2	61	_				
		Hispan	nic ethnici	ty			
Jianania <sup>3</sup>		•		-			
Hispanic <sup>3</sup>	644		F 0	40	E40	_	
15-19	641	11	53 15	43	519	2	13
15-17	154	4	15	11	119	2	10
18-19	487	7	38	32	400	-	10

# TABLE 4-6. Births to teens 15-19 by race/ethnicity, adequacy of prenatalcare, and birthweight, Oregon residents, 2017

Quantity is zero.

See footnotes at the end of table.

			Ade	equacy of	prenatal c	are	
Race/ethnicity and	Total	Inadeo	quate <sup>1</sup>	Adec	luate	Not s	tated
age of mother	births	<2500 grams	2500+ grams	<2500 grams	2500+ grams	<2500 grams	2500+ grams
Total births <sup>2</sup>							
15-19	1,809	31	139	121	1,492	4	22
15-17	381	5	28	26	316	3	3
18-19	1,428	26	111	95	1,176	1	19
	Any	mention I	race and e	ethnicity <sup>4</sup>			
White							
15-19	1,539	26	110	101	1,281	2	19
15-17	314	5	23	20	262	1	3
18-19	1,225	21	87	81	1,019	1	16
African American	-,				.,	-	
15-19	93	2	11	6	74	_	_
15-17	27	_	1	4	22	_	_
18-19	66	2	10	2	52	_	_
American Indian							
15-19	104	4	7	7	85	_	1
15-17	19	_	-	2	17	_	-
18-19	85	4	7	5	68	_	1
Asian				Ŭ			•
15-19	32	2	3	3	24	_	_
15-17	7	_	1	1	5	_	_
18-19	25	2	2	2	19	_	_
Hawaiian/Pacific	20	_	-	-	10		
Islander							
15-19	33	_	11	3	19	_	_
15-17	3	_	_	-	3	_	_
18-19	30	_	11	3	16	_	_
Other	00			Ũ			
15-19	116	1	6	10	95	2	2
15-17	32	_	3	3	24	2	-
18-19	84	1	3	7	71	-	2
Unknown	01	•	U	,			-
15-19	32	_	4	1	26	_	1
15-17	16		2	_ '	20 14		- -
18-19	16		2	1	14		1
Hispanic <sup>3</sup>	10		2		12		
15-19	641	11	53	43	519	2	13
15-17	154	4	15	43	119	2	3
18-19	487	4	38	32	400	<u> </u>	10
10-13	407		30	32	400	_	10

Quantity is zero.

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

<sup>2</sup> Total includes cases with unknown birthweight.

<sup>3</sup> Hispanic ethnicity includes any race.

4 Includes any race (one or more) and ethnicity mention.

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

Marital status, race/ethnicity	-	1					
	Total	Low weig	ht births	First trime	ster care	Inadequa	te care <sup>3</sup>
and age of mother	births <sup>1</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>
Total Births <sup>1</sup>							
15-19	1,809	156	86.2	1,194	665.6	170	95.3
15-17	381	34	89.2	245	644.7	33	88.0
			85.4		671.1		97.3
18-19	1,428	122		949	071.1	137	97.3
	Non-His	spanic sing	le mentio	on race			
White	951	82	86.2	665	704.4	68	72.3
15-17		13	73.0	120	674.2	11	62.1
Married	5	-	—	3	600.0	-	-
Unmarried	173	13	75.1	117	676.3	11	64.0
18-19	773	69	89.3	545	711.5	57	74.6
Married		6	51.3	82	713.0	8	69.6
Unmarried	651	62	95.2	460	712.1	49	76.1
African American	45	4	88.9	28	622.2		133.3
						0	155.5
15-17	12	1	83.3	8	666.7	-	_
Married		_		_		-	_
Unmarried	12	1	83.3	8	666.7	_	
18-19	33	3	90.9	20	606.1	6	181.8
Married	3	_	_	2	666.7	1	333.3
Unmarried	30	3	100.0	18	600.0	5	166.7
American Indian	32	4	125.0	19	593.8	4	125.0
15-17		1	200.0	4	800.0		120.0
Married	1	_	200.0	1	1000.0		
Unmarried	4	1	250.0	3	750.0	_	_
						_	440 4
18-19	27	3	111.1	15	555.6	4	148.1
Married		_	· · · · <del>·</del>			_	
Unmarried	27	3	111.1	15	555.6	4	148.1
Asian/Pacific Islander <sup>4</sup>	32	2	62.5	13	406.2	12	375.0
15-17	1	_	_		_	_	_
Married	_	_	_	_	_	_	_
Unmarried	1	_	_	_	_	_	_
18-19		2	64.5	13	419.4	12	387.1
Married	6	2	04.0	3	500.0	1	166.7
							440.0
Unmarried	25	2	80.0	10	400.0	11	
Other/multiple races	108	8	74.1	68	629.6	16	149.5
15-17		2	64.5	23	741.9	3	96.8
Married		-	_	-	—	-	_
Unmarried	30	2	66.7	23	766.7	3	100.0
18-19	77	6	77.9	45	584.4	13	171.1
Married		_	_	2	333.3	_	_
Unmarried	70	6	85.7	43	614.3	12	173.9
	1	Hispanic e	ethnicity				
Hispanic <sup>5</sup>	641	56	87.4	401	633.5	64	102.2
15-17	154	17	110.4	90	588.2	19	127.5
Married	2			2	1000.0		
Inmarriad			111.8	88	582.8		129.3
Unmarried	102	17				19	
18-19	487	39	80.1	311	647.9	45	94.3
Married		3	46.9	45	714.3	5	80.6
Unmarried	419	34	81.1	265	641.6	38	92.5

# TABLE 4-7. Births to teens 15-19 by marital status, race/ethnicity, and age byadequacy of prenatal care and birthweight, Oregon residents, 2017

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, 2017 (continued)

Marital status, race/ethnicity	Total	Low weig	ht births	First trime	ster care	Inadequa	te care <sup>3</sup>
and age of mother	births <sup>1</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>
Total Births <sup>1</sup>							
15-19	1,809	156	86.2	1,194	665.6	170	95.3
15-17	381	34	89.2	245	644.7	33	88.0
18-19	1,428	122	85.4	949	671.1	137	97.3
	Any	mention ra	ce/ ethnic	city <sup>6</sup>			
White	1,539	129	83.8	1,032	676.3	136	89.6
15-17	314	26	82.8	201	642.2	28	90.3
Married	8	_	-	5	625.0	_	_
Unmarried	306	26	85.0	196	642.6	28	92.7
18-19	1,225	103	84.1	831	685.1	108	89.4
Married	175	7	40.0	121	703.5	12	70.2
Unmarried	1,040	93	89.4	706	684.8	93	90.6
African American	93	8	86.0	62	666.7	13	139.8
15-17	27	4	148.1	21	777.8	1	37.0
	21	4	140.1	21	111.0	1	57.0
Married		_	440.4		777 0		07.0
Unmarried	27	4	148.1	21	777.8	1	37.0
18-19	66	4	60.6	41	621.2	12	181.8
Married	5	-	-	3	600.0	1	200.0
Unmarried	60	4	66.7	38	633.3	10	166.7
American Indian	104	11	105.8	60	576.9	11	106.8
15-17	19	2	105.3	12	631.6	_	_
Married	1	_		1	1000.0	_	_
Unmarried	18	2	111.1	11	611.1		
	85	9	105.9	48	564.7	11	131.0
18-19							131.0
Married	6	1	166.7	2	333.3		-
Unmarried	79	8	101.3	46	582.3	11	141.0
Asian/Pacific Islander <sup>4</sup>	62	7	112.9	34	548.4	16	258.1
15-17	10	1	100.0	7	700.0	1	100.0
Married	1	_	_	-		_	_
Unmarried	9	1	111.1	7	777.8	1	111.1
18-19	52	6	115.4	27	519.2	15	288.5
Married	9	1	111.1	5	555.6	1	111.1
Unmarried	43	5	116.3	22	511.6	14	325.6
Other/unknown	148						
		14	94.6	95	650.7	11	76.9
15-17	48	5	104.2	33	687.5	5	108.7
Married		-				-	
Unmarried	48	5	104.2	33	687.5	5	108.7
18-19	100	9	90.0	62	632.7	6	61.9
Married	10	1	100.0	6	600.0	1	100.0
Unmarried	90	8	88.9	56	636.4	5	57.5
Hispanic <sup>5</sup>	641	56	87.4	401	633.5	64	102.2
15-17	154	17	110.4	90	588.2	19	127.5
Married	2		110.4		1000.0	13	121.0
		- 17	444.0	2			400.0
Unmarried	152	17	111.8	88	582.8	19	129.3
18-19	487	39	80.1	311	647.9	45	94.3
Married	64	3	46.9	45	714.3	5	80.6
Unmarried	419	34	81.1	265	641.6	38	92.5
-							

 Quantity is zero.
 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. All rates per 1,000 births.

2

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.

<sup>6</sup> Includes any race (one or more) and ethnicity mention.

County of	То	tal	Low weig	ht births	First trime	ester care	Inadequa	ate care <sup>1</sup>
residence	Number	Rate <sup>2</sup>	Number	Rate <sup>3</sup>	Number	Rate <sup>3</sup>	Number	Rate <sup>3</sup>
Total	1,809	14.3	156	86.2	1,194	665.6	170	95.3
Baker	8	19.3	1	125.0	6	750.0	_	-
Benton	12	§ 2.7	1	83.3	7	583.3	_	-
Clackamas	102	§ 7.9	6	58.8	63	623.8	15	148.5
Clatsop Columbia	15 30	13.8 20.1	2 3	133.3 100.0	10 23	666.7 821.4	2	133.3
Coos	33	18.9	-	- 100.0	23	718.8	2	62.5
Crook	18	§ 32.2	_	_	15	833.3	_	_
Curry	12	27.3	_	-	7	583.3	_	-
Deschutes	54	10.5	2	37.0	33	611.1	2	37.0
Douglas	74	§ 24.4	8	108.1	57	770.3	3	40.5
Gilliam	1	25.6	*	*	*	*	*	*
Grant	4	26.5	-	-	2	500.0	1	250.0
Harney	1	4.9	_	-	_	-	-	_
Hood River	15	19.1	_		13	928.6	1	71.4
Jackson	109	17.0	8	73.4	76	697.2	12	111.1
Jefferson	19 56	§ 27.2	- 10	-	11 46	578.9 821.4	_ 2	
Josephine Klamath	42	§ 25.0 § 20.9	12 7	§ 214.3 166.7	40 26	619.0	2 5	119.0
Lake	5	27.2	1	200.0	4	800.0		
Lane	140	§ 10.9	10	71.4	94	671.4	14	100.7
Lincoln	27	§ 27.1	3	111.1	19	703.7	3	111.1
Linn	86	§ 22.2	10	116.3	59	694.1	7	82.4
Malheur	34	§ 32.9	3	88.2	22	647.1	_	-
Marion	259	§ 21.8	29	112.0	157	615.7	26	103.6
Morrow	10	23.5	_	_	4	400.0	2	200.0
Multnomah	272	12.8	21	77.2	181	667.9	42	§ 155.0
Polk	43	13.6	6	139.5	27	627.9	4	95.2
Sherman	_	-	-	-	_	-	_	-
Tillamook Umatilla	10 71	15.6 § 25.9	- 3		5 40	500.0 571.4	2 1	200.0 § 14.3
Union	18	19.8	1	55.6	14	777.8	2	111.1
Wallowa		-	_	-		_	-	_
Wasco	19	24.3	1	52.6	12	631.6	5	263.2
Washington	162	§ 8.9	14	86.4	99	622.6	14	90.3
Wheeler		_	_				_	_
Yamhill	48	12.2	4	83.3	39	812.5	2	41.7

### TABLE 4-8. Births to teens 15-19 by level of prenatal care, low birthweight rates, and county of residence, Oregon, 2017

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

Rates per 1,000 females 15-19 years of age.
 Rates per 1,000 births to 15-19 year olds.
 Rate is significantly different from the state ra

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.

Birth outcomes	Total				М	lother's a	ge		1	
	births	<15	15	16	17	18	19	15-19	20+	N.S.
Total births	43,630	13	46	115	220	505	923	1,809	41,807	1
Birthweight	,							.,	,	
1499 grams or less										
<28 weeks	204	_	_	1	3	4	7	15	189	-
28-36 weeks	249	_	1	_	1	4	12	18	231	-
37-40 weeks	3	_	_	_	_	_	_	_	3	_
41+ weeks	_	_	_	_	_	_	_	_	_	_
Unknown	1	_	_	-	_	_	_	-	1	-
1500-2499 grams										
<28 weeks	2	_	_	-	_	_	_	_	2	-
28-36 weeks	1,583	_	1	5	5	20	34	65	1,517	1
37-40 weeks	930	_	1	4	12	23	18	58	872	-
41+ weeks	8	-	-	_	_	_	_	_	8	-
Unknown	1	-	-	_	_	_	_	_	1	-
2500+ grams										
<28 weeks	-	-	-	-	-	-	_	-	-	-
28-36 weeks	1,598	-	-	6	7	23	31	67	1,531	-
37-40 weeks	34,100	13	37	84	163	378	715	1,377	32,710	-
41+ weeks	4,926	-	6	15	28	53	106	208	4,718	-
Unknown	20	-	-	-	1	-	_	1	19	-
5 Minute apgar										
0-3	304	-	-	2	-	6	11	19	285	-
4-6	839	_	2	_	10	15	21	48	791	-
7-10	42,410	13	44	113	210	483	889	1,739	40,657	1
Not stated	77	-	-	-	-	1	2	3	74	-
Tobacco used	0.004			_			450	050	0.007	
Yes	3,891	1	-	7	29	64	153	253	3,637	-
No	39,564	11	45	108	190	439	762	1,544	38,009	
Unknown	175	1	1	-	1	2	8	12	161	1
Alcohol used	077						4		070	
Yes No	377 42,276	_ 13	46	- 111	217	486	4 892	4 1,752	373 40,511	_
Not reported	42,270 855	13	40	4	3	480	892 20	46	809	
Unknown	122	_	_	4	5	19	20	40	114	1
Birth order	122	_	_	_	_	_	1		114	
1 <sup>st</sup>	16,878	13	45	110	206	451	760	1,572	15,293	
2 <sup>nd</sup>	14,237	15	40	5	14	49	144	213	14,024	
3 <sup>rd</sup>	7,161		' _	5	-	4	16	213	7,140	1
4 <sup>th</sup>	3,213	_	_	_	_	1	3	4	3,209	
5+	2,141	_	_	_	_	_	-		2,141	_
Prenatal care	<u>-</u> , ידי								<u>, , , , , , , , , , , , , , , , , , , </u>	
No care	351	_	1	2	5	5	10	23	328	_
Little or late <sup>1</sup>	2,285	4	4	2	12	46	76	147	2,134	_
Adequate <sup>2</sup>	40,485	9	40	100	202	448	823	1,613	38,862	1
Unknown	40,400 509	_	-0	4	1	6	14	26	483	_
	000		'		'	U U		20	-00	

## TABLE 4-9. Birth outcomes of infants by age of mother, Oregon residents, 2017

Quantity is zero.
Less than five prenatal visits or care began in the third trimester.
Prenatal care began prior to the third trimester; patient made at least five visits to a medical provider. N.S. = Not stated.

<b>TABLE 4-10</b> .	Demographic	characteristics	of mother b	y age,	Oregon reside	nts, 2017
		•	••••••	J - 3 - ,		,

Domographics of mother	Total					Mother's	age			
Demographics of mother	births	<15	15	16	17	18	19	15-19	20+	N.S.
Total births	43,630	13	46	115	220	505	923	1,809	41,807	1
Ethnicity/race <sup>1</sup>	10,000	.0				000	020	1,000	,	
White	29,322	4	18	46	114	255	518	951	28,367	_
African American	996	1	1	4	7	10	23	45	950	_
American Indian	433	1	1	1	3	5	22	32	400	_
Asian	2,379	-	_	_	_	3	7	10	2,369	_
Native Hawaiian/Pacific	_,					Ŭ			_,	
Islander	306	_	_	1	_	7	14	22	284	_
Other and multiple races <sup>2</sup>	1,931	_	1	14	16	29	48	108	1,822	1
Total Hispanic	8,263	7	25	49	80	196	291	641	7,615	
Marital status	0,200								.,	
Unmarried	15,738	13	46	115	211	451	771	1,594	14,130	1
Married	27,761		_	_	9	50	146	205	27,556	_
Unknown	131	_	_	_	_	4	6	10	121	_
Education						-	-			
8th grade or less	1,243	8	7	6	5	11	22	51	1,184	_
Some high school	4,212	5	39	100	169	258	282	848	3,359	_
High school graduate/GED	9,893	_	_	7	41	198	449	695	9,198	_
Some college	10,421	_	_	-	5	37	153	195	10,226	_
Associate degree	3,555	_	_	_	_	_	12	12	3,543	_
Bachelor's degree	8,798	_	_	_	_	_			8,798	_
Postbaccalaureate	5,290	_	_	_	_	_	_	_	5,290	_
Unknown	218	_	_	2	_	1	5	8	209	1
Birth order				-		•	· ·			
1st	16,878	13	45	110	206	451	760	1,572	15,293	_
2nd	14,237	_	1	5	14	49	144	213	14,024	_
3rd	7,161	_	_	_	_	4	16	20	7,140	1
4th	3,213	_	_	_	_	1	3	4	3,209	_
5+	2,141	_	_	_	_	_	_	_	2,141	_
Unknown		_	_	_	_	_	_	_		_
Start of prenatal care										
1st trimester	34,597	7	25	64	156	317	632	1,194	33,395	1
2nd trimester	6,638	2	16	40	48	147	214	465	6,171	-
3rd trimester	1,707	4	4	8	11	32	57	112	1,591	-
No care	351	_	1	2	5	5	10	23	328	-
Unknown	337	_	_	1	_	4	10	15	322	-
Prenatal care										
Inadequate <sup>3</sup>	2,636	4	5	11	17	51	86	170	2,462	-
Adequate	40,485	9	40	100	202	448	823	1,613	38,862	1
Unknown	397	_	1	4	1	5	11	22	375	_
Source of payment										
Medicaid/OHP*	19,632	9	39	95	179	413	726	1,452	18,171	_
Private insurance	22,407	4	6	16	37	81	165	305	22,097	1
Self-pay	885	_	1	1	1	4	15	22	863	_
Other coverage	593	_	_	1	3	4	15	23	570	_
Unknown	113	_	_	2	_	3	2	7	106	_
				-		-	_			

Quantity is zero.
 Non-Hispanic single mention race and Hispanic ethnicity.
 'Other and multiple races' includes missing or unknown race.
 Less than five prenatal visits or care began in the third trimester.
 'Oregon Health Plan.
 N.S. = Not stated.

David was black of a street	T-4-11				F	Patient's	age			
Demographics of patient	Total <sup>1</sup>	<15	15	16	17	18	19	15-19	20+	N.S.
Total abortions	8,027	16	35	72	151	237	291	786	7,218	7
Ethnicity/race	0,027	10	- 55	12	151	237	291	700	1,210	1
Non-Hispanic White	5,460	12	21	42	99	148	213	523	4,918	7
Non-Hispanic African American	428	1	1	42	99 4	140	11	33	394	1
Non-Hispanic American Indian	93	I _	1	4	4	2	4	7	86	
Non-Hispanic Asian <sup>2</sup>	409	_	2	2	1	6	7	18	391	_
Total Hispanic	1,178	3	8	19	38	39	37	141	1,034	_
Marital status	1,170	5	0	19	50	59	57	141	1,034	_
Unmarried	5,722	14	28	62	130	195	246	661	5,046	1
Married	1,509	14	20	1	3	6	10	20	1,489	1
	796	2	7	9	18	36	35	105	683	6
Unknown Education	190	<b>∠</b>		э	10	30	30	105	003	0
	122	4	3	2	4	л	2	16	102	
8th grade or less	817	4 9	3 24	3 60	4 105	4 59	2 39	16 287	102 521	-
Some high school		-	24							1
High school graduate/GED	2,089	-	_	4	26	118	134	282	1,806	1
Some college	2,143	-	_	_	3	26	81	110	2,033	_
College/postbaccalaureate	2,095	-	_	-	40	-	4	4	2,091	_
Unknown	761	3	8	5	13	30	31	87	665	6
Children now alive	4 704					05	07		4 0 4 7	
One	1,724	-	-	1	14	25	37	77	1,647	_
Two	1,332	-	-	-	-	2	4	6	1,326	-
Three	529	-	-	-	-	-	-	-	529	-
Four+	314	_	_	_	_	_	_	_	314	_
Unknown	352	2	6	4	6	20	12	48	296	6
Previous abortions										_
None	5,077	15	35	69	146	211	240	701	4,354	7
One	1,676	1	-	3	5	21	42	71	1,604	-
Тwo	707	-	-	-	-	4	6	10	697	-
Three+	490	-	-	-	-	1	1	2	488	-
Unknown	77	-	-	-	-	-	2	2	75	-
Gestation										
8 weeks or less	5,775	7	18	45	101	154	198	516	5,249	3
9-12 weeks	1,342	2	10	10	35	50	60	165	1,173	2
13-16 weeks	454	5	1	10	7	21	20	59	390	_
17 or more weeks	409	2	6	7	7	11	12	43	364	-
Unknown	47	-	-	-	1	1	1	3	42	2
Contraceptive used										
None used		12	24	49	94	145	185	497	4,379	-
Pills used	845	-	-	7	13	25	45	90	755	-
Condoms used	964	2	3	7	18	21	21	70	891	1
Other method used	755	_	1	4	12	12	17	46	709	-
Medical procedure										
Suction curettage	2,644	7	19	23	52	77	105	276	2,360	1
Medical (non-surgical)	3,630	2	8	29	77	109	136	359	3,263	6
Dilation & evacuation	1,646	6	7	20	20	46	48	141	1,499	-
Other specified	107	1	1	_	2	5	2	10	96	-

 Quantity is zero.
 Includes all abortions known to have been obtained by Oregon residents.
 Includes Chinese, Japanese, Filipino, other Asian and Pacific Islander. N.S. = Not stated.

Father's	<b>T</b> . (.)					Mother	's age			
age	Total	<15	15	16	17	18	19	20-24	25+	N.S.
Total <15 15 16 17 18 19 20 21 22	43,630 2 16 30 90 208 365 547 709 946	13 1 4 2 1 - - - -	46 1 4 5 3 7 - -	115 - 3 7 23 18 12 1 2 -	220 - 3 10 29 35 32 22 9 2	505 - 2 5 22 60 82 76 41 34	923 – – 10 51 118 141 105 92	7,796 – 1 1 30 104 277 494 693	34,011 - - 1 7 17 30 58 125	1 - - - - - - - - - - - - -
23 24	1,104 1,334	-	-	_ 1	2 2	17 10	64 45	816 906	205 370	-
25+ N.S.	34,593 3,686	_ 5	_ 26	_ 48	8 66	31 125	142 155	3,461 1,013	30,950 2,248	1

TABLE 4-12. Age of father by age of mother, Oregon residents, 2017

Quantity is zero.

Father's	Tatal					Mother	's age			
age	Total	<15	15	16	17	18	19	20-24	25+	N.S.
Total	225,512	73	302	883	1,564	3,086	5,258	43,840	170,495	11
<15	20	7	10	_	1	_	_	1	1	_
15	83	8	28	26	12	4	2	3	_	_
16	243	8	30	89	53	38	17	4	4	_
17	597	3	39	140	182	131	54	33	15	_
18	1,267	2	34	138	259	378	259	170	27	_
19	2,208	_	9	68	245	486	653	661	86	_
20	3,091	_	2	35	154	429	746	1,558	167	_
21	4,089	_	1	17	74	299	659	2,722	317	_
22	5,137	_	1	11	33	201	526	3,719	646	_
23	6,178	_	3	6	26	118	360	4,529	1,136	_
24	7,441	_	-	8	16	85	258	5,023	2,051	_
25+	175,929		2	6	42	233	771	19,639	155,234	2
N.S.	19,229	45	143	339	467	684	953	5,778	10,811	9

 TABLE 4-13. Age of father by age of mother, Oregon residents, 2013-2017

Quantity is zero.

**APPENDIX A: POPULATION** 

Voar			Tab	le A-1. P(	Table A-1. Population distribution by age and sex,	distributi	on by age	and sex,	Oregon, Age ar	n, 1950-200 aroups	0 (select	ed years),	1950-2000 (selected years), 2005-2017 ouns	2			
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	62-69	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
Σ	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
Ŀ	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
Σ	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
ш	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
Σ	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
ш	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
Σ	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
ш	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
Σ	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
ш	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	24.2 098	244 427	230 406	233 850	236 845	255 751	270 823	271315	235 840	173 008	131 380	112614	106 728	218 835
2000	0,421,000 4 606 FED	111000	100,445	101 005	121,121	118 100	101 001	100,040	120,002	101020	104 764	117 117	96.260	64.040	F10,011	40 5 40	01 774
ΣLL	1 724 849	108 999	114 359	117 863	118 998	112 306	112 819	114 608	126,003	136 751	136 554	118,423	87.630	04,4 10 67 162	59,421	40,010 58,018	04,774 134 061
_	010,114 - 1	000	2000 F	2000, 111	0000	1,200	202	000 <sup>+</sup>	000,021	10 1001	t	04.0	000,10	101,102	- 11.00	20,2,00	
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
Σ	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
L	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
Σ	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
ш	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	606'66	235,153
Σ	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
ш	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
Σ	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
ш	1,900,886	114,115	118,158	124,246	125,090	126,722	127,819	125,621	125,482	127,771	136,485	140,842	131,355	104,591	76,092	57,943	138,555
2009	3,823,465	234,555	243,024	253,412	257,141	258,627	265,937	259,627	260,379	257,872	268,503	275,905	265,073	217,588	157,370	113,323	235,131
Σ	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

# Appendix A: Population

			Tab	le A-1. Pc	Table A-1. Population di		on by age	stribution by age and sex,		Oregon, 1950-2000 (selected years), 2005-2017	10 (selection	ed years),	2005-201	17			
Year	Total								Age groups	sdno.							
and sex	- 0141	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+
ш	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
Σ	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
ш	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
Σ	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
ш	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
Σ	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
L	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
Σ	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
ш	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	3 062 710	240 540	735 /08	305 276	757 153	25A 730	270 814	268 208	264 242	257 030	750 736	264 602	JER EUA	261 67A	207 202	15/1 0/13	270 560
	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
ц	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
CI.07	4,013,845 1 980 760	124 034	120,047	242,822 124 493	129,422	130,791	2/3,9/U	2/ 2,204 137 010	209, 101 135 196	200,820 130,840	200,132 129,863	203,7U8 130 323	209,245 130 804	000,762 124 041	Z10,708 103.639	77 768	2/0,833 115 165
Ŀ	2,033,085	117,761	115,598	118,329	123,475	126,672	135,977	135,254	133,965	129,979	130,269	133,385	138,441	132,965	113,069	86,276	161,670
2016	4.076.350	243.158	235.914	243.427	253.723	259.636	278.022	277.144	275.040	265.502	261.892	263.671	270.738	263.364	227.057	174.118	283.944
Σ	2,010,468	124,742	120,133	124,849	129,799	131,514	139,998	139,312	137,797	132,940	130,847	130,591	131,520	126,847	108,407	82,503	118,668
ш	2,065,882	118,416	115,781	118,578	123,924	128,121	138,025	137,832	137,244	132,562	131,044	133,080	139,218	136,516	118,650	91,615	165,277
2017	4,141,100	255,638	246,913	255,136	259,728	258,748	278,015	277,992	276,931	266,319	259,844	259,831	268,324	266,006	237,108	184,214	290,354
Σ	2,042,412	131,145	125,741	130,855	132,882	131,056	139,984	139,735	138,742	133,347	129,823	128,695	130,345	128,117	113,195	87,264	121,485
ц	2,098,688	124,493	121,171	124,282	126,846	127,692	138,031	138,257	138,188	132,972	130,020	131,136	137,980	137,889	123,913	96,949	168,868

				ľ	Table A-2. Pop	2. Popul	ation bv	ade and	sex for	ulation by age and sex for Oregon	and its	and its counties: July 1, 2017	s: Julv 1	. 2017						
								L	otal population	ulation										
County	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	62-69	70-74	75-79	80-84	85+
OREGON	4,141,100	255,638	246,913	255,136	153,954	105,774	258,748	278,015	277,992	276,931	266,319	259,844	259,831	268,324	266,006	237,108	184,214	124,099	81,225	85,029
BAKER	16,750	957	804	944	623	285	558	731	856	928	863	908	1,050	1,299	1,483	1,452	1,179	818	547	465
BENTON	92,575	3,602	3,954	4,522	3,308	5,754	13,941	6,797	5,575	4,745	4,507	4,680	4,946	5,401	5,545	5,117	3,874	2,654	1,699	1,954
CLACKAMAS	413,000	22,840	25,336	27,573	17,124	9,376	20,844	22,930	23,905	26,055	27,388	28,289	28,903	30,121	28,673	24,283	18,910	12,785	8,179	9,489
CLATSOP	38,820	2,304	2,062	2,218	1,371	951	2,065	1,968	2,307	2,377	2,207	2,303	2,389	2,942	3,104	3,074	2,112	1,374	876	817
COLUMBIA	51,345	2,787	2,958	3,485	2,063	1,081	2,269	2,427	3,228	3,158	3,522	3,398	3,821	3,878	3,953	3,312	2,462	1,704	928	910
coos	63,310	3,665	3,127	3,432	2,123	1,395	2,653	2,962	3,560	3,407	3,293	3,472	3,894	4,778	5,380	5,193	4,351	2,983	1,986	1,657
CROOK	22,105	1,091	1,176	1,310	792	368	851	881	1,066	1,066	1,230	1,343	1,420	1,701	1,949	1,958	1,585	1,081	654	581
CURRY	22,805	869	798	1,016	639	315	679	864	920	1,103	995	1,225	1,421	1,948	2,493	2,469	2,108	1,315	853	777
DESCHUTES	182,930	11,551	11,514	12,022	6,894	3,840	8,807	10,679	11,512	12,486	12,238	11,895	11,680	11,894	12,687	11,587	8,868	5,620	3,628	3,529
DOUGLAS	111,180	5,910	5,563	6,341	4,029	2,328	4,946	5,104	5,912	5,797	5,982	6,227	6,970	8,180	9,200	8,905	7,512	5,253	3,504	3,518
GILLIAM	1,995	118	69	112	64	22	51	68	66	81	111	116	135	183	204	191	133	88	65	84
GRANT	7,415	313	292	384	226	105	232	257	355	359	347	407	439	611	704	750	599	462	282	291
HARNEY	7,360	407	398	445	309	154	257	370	410	387	392	405	443	568	641	607	447	331	196	194
HOOD RIVER	25,145	1,588	1,756	1,796	1,087	587	1,285	1,484	1,525	1,592	1,782	1,734	1,808	1,772	1,560	1,318	857	655	420	538
JACKSON	216,900	13,150	11,789	13,382	7,833	4,964	11,737	12,003	12,493	12,703	12,724	12,778	13,523	14,909	15,739	14,854	12,222	8,490	5,636	5,970
JEFFERSON	23,190	1,585	1,309	1,591	925	495	1,134	1,323	1,332	1,309	1,342	1,494	1,544	1,732	1,710	1,546	1,219	765	495	341
JOSEPHINE	85,650	4,478	4,264	5,033	3,059	1,701	3,589	3,891	4,565	4,361	4,466	4,790	5,320	6,158	7,267	6,843	6,060	4,160	2,777	2,869
KLAMATH	67,690	4,007	3,681	4,148	2,501	1,664	3,827	3,662	3,844	3,753	3,793	4,090	4,252	4,878	5,033	4,933	3,874	2,698	1,612	1,438
LAKE	8,120	368	326	420	294	98	259	338	474	443	554	535	594	637	748	712	519	397	218	186
LANE	370,600	18,135	18,103	20,044	13,381	12,497	31,443	25,237	24,003	21,967	21,685	21,328	22,355	24,233	24,898	23,461	18,633	12,232	8,299	8,665
LINCOLN	47,960	2,516	1,993	2,272	1,385	808	1,729	2,066	2,523	2,568	2,456	2,601	3,065	3,938	4,741	4,791	3,686	2,238	1,390	1,194
LINN	124,010	8,289	7,945	8,401	4,874	3,003	6,883	7,322	7,710	7,868	7,232	7,596	7,602	8,382	8,161	7,503	5,938	4,086	2,695	2,520
MALHEUR	31,845	2,377	2,131	2,190	1,278	907	2,014	2,028	1,959	2,019	1,919	1,831	1,855	1,866	1,860	1,742	1,406	1,041	664	758
MARION	339,200	25,592	24,758	24,198	14,663	9,857	22,616	22,842	21,875	21,155	20,401	19,855	19,867	20,124	19,364	16,865	13,350	9,086	6,222	6,510
MORROW	11,890	781	879	920	562	317	645	679	643	736	705	740	742	762	859	699	534	340	204	172
MULTNOMAH	803,000	50,148	44,003	42,451	24,165	18,552	55,190	72,402	71,062	68,106	60,656	54,080	50,138	47,018	42,959	36,140	26,103	16,847	10,858	12,120
POLK	81,000	5,527	5,332	5,816	3,371	2,886	6,052	4,756	4,536	4,935	4,769	4,565	4,690	4,773	4,822	4,584	3,679	2,632	1,690	1,585
SHERMAN	1,800	110	82	103	59	27	54	68	108	116	88	109	106	129	177	126	129	97	58	54
TILLAMOOK	26,175	1,621	1,324	1,535	901	487	978	1,164	1,307	1,444	1,412	1,443	1,702	2,032	2,304	2,341	1,747	1,149	714	570
UMATILLA	80,500	6,190	5,875	5,870	3,506	2,193	5,033	5,300	5,079	5,228	4,943	4,777	4,809	4,961	4,664	4,105	3,041	2,115	1,447	1,364
NOINU	26,900	1,887	1,694	1,690	1,066	911	1,731	1,505	1,325	1,499	1,446	1,461	1,523	1,731	1,856	1,778	1,408	974	673	741
WALLOWA	7,195	474	392	378	216	96	186	231	389	326	395	348	428	538	678	693	544	364	251	264
WASCO	27,100	1,856	1,672	1,714	1,077	606	1,334	1,510	1,597	1,610	1,541	1,480	1,623	1,797	1,981	1,802	1,408	1,005	627	861
WASHINGTON	595,860	41,604	42,402	39,933	23,635	13,610	35,806	45,900	43,647	44,464	42,224	41,019	38,110	35,690	31,822	25,463	19,236	12,925	8,755	9,616
WHEELER	1,480		55	82	56	20	34	55	73	78	53	80	85	130	120	156	104	104	60	56
YAMHILL	106,300	6,865	7,095	7,367	4,497	3,514	7,033	6,210	6,218	6,701	6,658	6,441	6,579	6,629	6,670	5,785	4,377	3,227	2,064	2,370
Source: Population Research Center, Portland State University	Research Ce	nter, Portlan	d State Univ	'ersity																

					Table A	-2. Popu	lation by	/ age an	d sex for Oreg	Table A-2. Population by age and sex for Oregon and its counties: July 1, 2017           Male nonulation	and its	countie	s: July 1	, 2017						
County	Allanes	0-4	6-3	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	2,042,412	131,145	125,741	130,855	79,104		131,056	139,984	139,735	138,742	133,347	129,823	128,695	130,345	128,117	113,195	87,264	56,588	34,904	29,993
BAKER	8,497	448	416	469	336		296	396	468	515	456	489	520	638	716	742	573	422	253	186
BENTON	46,177	1,766	1,861	2,310	1,692		7,477	3,735	2,821	2,373	2,236	2,294	2,398	2,614	2,679	2,466	1,893	1,225	740	724
CLACKAMAS	202,294	12,010	12,837	14,324	8,710		10,695	11,534	11,841	12,877	13,476	13,895	14,175	14,626	13,856	11,525	8,756	5,742	3,374	3,118
CLATSOP	19,264	1,069	1,043	1,064	741		1,090	1,016	1,239	1,212	1,137	1,158	1,183	1,428	1,504	1,479	1,069	655	378	301
COLUMBIA	25,668	1,441	1,498	1,841	1,080		1,192	1,212	1,618	1,551	1,759	1,698	1,907	1,930	1,937	1,717	1,173	813	401	327
coos	31,291	1,887	1,563	1,746	1,059		1,337	1,499	1,802	1,739	1,637	1,756	1,946	2,325	2,608	2,503	2,129	1,423	606	706
CROOK	10,913	573	593	686	408		437	423	518	525	599	642	711	785	943	985	803	529	329	230
CURRY	11,321	466	416	543	339	174	359	457	468	557	444	598	684	962	1,193	1,274	1,021	642	415	309
DESCHUTES	90,272	5,956	5,920	6,217	3,572		4,480	5,376	5,742	6,183	6,037	5,839	5,664	5,517	6,080	5,653	4,445	2,630	1,700	1,267
DOUGLAS	54,908	3,060	2,794	3,270	2,080		2,538	2,557	3,009	2,848	2,958	3,089	3,448	3,935	4,530	4,389	3,736	2,485	1,625	1,313
GILLIAM	1,032	99	30	66	34		33	39	58	51	61	61	75	82	114	82	72	41	29	25
GRANT	3,670	148	139	184	120	60	112	131	182	192	160	201	195	303	332	398	319	244	128	121
HARNEY	3,735	218	209	224	173	83	140	165	221	186	188	186	216	279	336	325	237	178	91	78
HOOD RIVER	12,637	798	965	922	561	328	698	767	763	808	855	876	893	899	799	649	421	311	163	160
JACKSON	105,673	6,710	5,966	6,788	3,935	2,450	5,826	6,040	6,162	6,457	6,297	6,372	6,662	7,169	7,390	7,089	5,847	3,891	2,442	2,180
JEFFERSON	12,224	866	653	840	466		613	694	738	743	729	806	812	924	857	797	674	386	240	131
JOSEPHINE	41,651	2,268	2,136	2,533	1,616		1,773	2,042	2,293	2,236	2,191	2,370	2,565	2,889	3,466	3,256	2,926	1,913	1,223	1,056
KLAMATH	33,535	1,994	1,939	2,076	1,293		1,922	1,828	1,923	1,879	1,911	2,052	2,085	2,383	2,459	2,428	1,904	1,310	742	542
LAKE	4,410	163	175	196	153		145	185	293	257	336	313	324	366	374	393	284	204	107	87
LANE	181,701	9,142	9,085	10,328	6,880		16,344	12,839	12,266	10,900	10,848	10,521	10,905	11,505	11,906	11,000	8,834	5,672	3,543	3,078
LINCOLN	23,325	1,251	1,021	1,125	759		927	1,080	1,287	1,339	1,180	1,304	1,441	1,816	2,196	2,245	1,799	1,032	652	434
LINN	61,126	4,385	4,114	4,303	2,463	1,535	3,392	3,605	3,771	3,930	3,586	3,783	3,776	4,101	3,976	3,617	2,796	1,861	1,207	924
MALHEUR	17,245	1,235	1,099	1,098	666		1,181	1,206	1,168	1,195	1,131	1,048	1,066	977	1,022	868	676	516	296	312
MARION	168,062	13,292	12,658	12,484	7,561		11,728	11,563	11,190	10,503	10,296	9,891	9,868	9,810	9,251	7,808	6,209	4,021	2,611	2,221
MORROW	6,092	411	432	472	280		358	369	321	390	361	393	370	375	448	323	264	169	108	76
MULTNOMAH	395,725	25,657	22,418	21,693	12,351		26,720	35,606	35,420	34,306	30,747	27,493	25,248	23,420	20,948	17,039	11,970	7,275	4,304	3,919
POLK	39,336	2,792	2,780	2,944	1,751		2,893	2,339	2,212	2,397	2,302	2,304	2,253	2,280	2,274	2,128	1,740	1,213	761	623
SHERMAN	917	53	40	54	32		29	30	59	67	46	63	51	62	95	62	58	48	24	31
TILLAMOOK	13,186	813	652	803	466	280	538	630	667	744	744	730	838	666	1,131	1,147	883	555	326	238
UMATILLA	42,239	3,239	2,887	3,055	1,805	0	2,815	3,000	2,857	2,888	2,729	2,559	2,522	2,613	2,356	2,044	1,548	1,007	651	518
NOIN	13,327	972	895	847	596		811	803	664	726	753	683	762	848	903	902	710	445	290	246
WALLOWA	3,455	214	169	170	105	48	83	117	174	171	195	156	207	237	336	340	303	187	125	117
WASCO	13,417	907	842	833	579		672	800	798	819	772	721	808	869	994	939	688	476	270	307
WASHINGTON	290,280	21,222	21,807	20,517	12,088	7	17,841	22,559	21,473	21,732	20,778	20,169	18,793	17,092	14,864	11,725	8,382	5,515	3,516	3,210
WHEELER	737	46	30	41	32	15	17	32	51	36	24	33	37	62	52	84	42	55	26	21
YAMHILL	53,071	3,604	3,662	3,788	2,321	1,748	3,544	3,308	3,200	3,411	3,389	3,276	3,287	3,224	3,194	2,776	2,080	1,499	906	854
Source: Population Research Center, Portland State University	Research Cer	tter, Portland	State Univ	ersity																

					Table A	Table A-2. Popula		tion by age and sex for Oregon and its counties: July 1, 2017	I sex for	Oregon	and its	countie	s: July 1	, 2017						
					ľ			μ	Female population	oulation	ľ		ľ		-				•	[
County	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	2,098,688	124,493	121,171	124,282	74,850	51,996	127,692	138,031	138,257	138,188	132,972	130,020	131,136	137,980	137,889	123,913	96,949	67,511	46,321	55,036
BAKER	8,253	509	388	476	287	127	262	335	388	413	407	419	530	661	766	710	606	396	294	279
BENTON	46,398	1,836	2,093	2,212	1,615	2,881	6,464	3,062	2,753	2,372	2,270	2,386	2,548	2,788	2,866	2,651	1,981	1,429	096	1,230
CLACKAMAS	210,706	10,830	12,499	13,248	8,413	4,453	10,149	11,396	12,064	13,178	13,912	14,394	14,728	15,494	14,817	12,758	10,155	7,043	4,805	6,371
CLATSOP	19,556	1,234	1,019	1,154	630	455	974	952	1,067	1,165	1,070	1,145	1,206	1,515	1,600	1,595	1,043	718	498	515
COLUMBIA	25,677	1,345	1,460	1,644	982	509	1,078	1,215	1,610	1,607	1,763	1,699	1,914	1,948	2,016	1,595	1,289	891	527	583
coos	32,019	1,778	1,565	1,686	1,064	678	1,317	1,462	1,758	1,667	1,657	1,715	1,947	2,453	2,772	2,690	2,223	1,560	1,077	951
CROOK	11,192	518	583	624	385	174	414	457	548	542	631	700	708	916	1,007	973	782	553	325	352
CURRY	11,484	403	382	473	299	140	320	407	452	546	551	627	737	986	1,300	1,195	1,087	673	438	468
DESCHUTES	92,658	5,595	5,594	5,804	3,322	1,845	4,327	5,303	5,769	6,303	6,201	6,056	6,015	6,377	6,607	5,935	4,423	2,990	1,928	2,262
DOUGLAS	56,272	2,849	2,769	3,070	1,949	1,084	2,408	2,547	2,903	2,949	3,024	3,138	3,522	4,245	4,669	4,516	3,776	2,767	1,879	2,205
GILLIAM	963	52	40	45	30	6	19	29	41	31	50	55	61	100	06	109	61	48	36	59
GRANT	3,745	164	153	201	106	45	120	126	174	167	187	205	244	308	372	351	280	218	153	170
HARNEY	3,625	188	190	221	135	71	117	205	189	201	204	219	226	289	305	282	210	153	105	116
HOOD RIVER	12,508	790	791	875	525	259	587	717	763	784	927	858	915	873	761	669	436	345	257	378
JACKSON	111,227	6,439	5,823	6,594	3,897	2,514	5,910	5,963	6,332	6,246	6,427	6,406	6,862	7,740	8,349	7,766	6,376	4,599	3,194	3,791
JEFFERSON	10,966	719	656	751	459	239	521	629	594	567	613	687	732	808	852	749	545	379	256	210
JOSEPHINE	43,999	2,210	2,129	2,500	1,443	801	1,816	1,849	2,271	2,125	2,275	2,421	2,755	3,269	3,801	3,588	3,135	2,247	1,554	1,813
KLAMATH	34,155	2,013	1,743	2,072	1,208	799	1,906	1,834	1,921	1,874	1,882	2,038	2,167	2,495	2,574	2,504	1,970	1,388	871	896
LAKE	3,710	205	151	224	141	43	114	152	181	186	218	222	271	271	374	319	234	193	112	66
LANE	188,899	8,993	9,018	9,716	6,501	6,393	15,100	12,398	11,737	11,067	10,837	10,807	11,450	12,728	12,992	12,461	9,798	6,560	4,756	5,587
LINCOLN	24,635	1,265	973	1,146	626	371	802	986	1,236	1,229	1,276	1,297	1,624	2,121	2,545	2,546	1,887	1,206	738	760
LINN	62,884	3,904	3,831	4,098	2,410	1,467	3,491	3,717	3,939	3,938	3,646	3,814	3,825	4,282	4,186	3,886	3,142	2,225	1,488	1,596
MALHEUR	14,600	1,142	1,033	1,091	612	420	833	822	792	823	788	783	789	889	838	873	730	525	369	447
MARION	171,138	12,300	12,100	11,714	7,102	4,760	10,888	11,279	10,686	10,653	10,105	9,964	9,999	10,314	10,113	9,057	7,141	5,066	3,611	4,288
MORROW	5,798	370	447	449	282	144	287	310	322	346	345	347	372	387	411	347	270	171	96	96
MULTNOMAH	407,275	24,491	21,585	20,758	11,815	9,360	28,470	36,796	35,642	33,800	29,909	26,588	24,890	23,599	22,011	19,101	14,133	9,573	6,554	8,200
POLK	41,664	2,735	2,552	2,873	1,620	1,534	3,158	2,418	2,324	2,538	2,467	2,261	2,437	2,493	2,548	2,456	1,940	1,420	929	962
SHERMAN	883	57	42	49	27	14	25	38	49	49	43	47	55	67	81	65	20	50	34	23
TILLAMOOK	12,989	807	672	732	434	207	440	534	640	700	668	713	864	1,033	1,173	1,194	864	595	388	332
UMATILLA	38,261	2,951	2,988	2,816	1,701	1,044	2,218	2,300	2,222	2,340	2,213	2,218	2,287	2,349	2,308	2,062	1,493	1,108	797	846
NOINU	13,573	915	800	843	470	441	920	702	661	772	693	778	762	883	953	876	698	529	383	495
WALLOWA	3,740	260	223	208	112	49	103	114	216	155	200	192	221	301	342	353	241	177	126	147
WASCO	13,683	950	831	880	498	283	663	710	799	791	768	759	815	928	987	863	720	529	357	554
WASHINGTON	305,580	20,381	20,595	19,416	11,547	6,613	17,965	23,341	22,174	22,732	21,446	20,850	19,317	18,598	16,958	13,738	10,853	7,409	5,239	6,406
WHEELER	743	31	25	41	24	5	17	23	22	42	29	46	48	68	68	73	62	49	34	35
YAMHILL	53,229	3,260	3,433	3,579	2,177	1,766	3,489	2,902	3,018	3,291	3,269	3,165	3,292	3,405	3,477	3,009	2,296	1,728	1,158	1,516
Source: Population Research Center, Portland State University	Research Cer	nter, Portlanc	d State Univ	ersity																

**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

## References

 Vital 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

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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	r of First-T		ions By Y rence, 199		ge Group,	Oregon
			AGE G	ROUPS		
YEAR	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:

=

Total number of first time abortions among a specific cohort of females

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:

Cp = <u>Sum of First Abortions</u> = <u>32,162</u> = 0.326 or 32.6 percent N 98,606

This figure approximates the proportion of females in the 25to 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				
	Birth Rate 1			
Race/Ethnicity	U.S.	Oregon		
TOTAL*	41.5	34.0		
Non-hispanic whites	26.7	26.7		
<sup>1</sup> 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 formalwear 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:

#### CRUDE DEATH RATE = (DEATHS/POPULATION) x 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  $9.47 \pm 0.97$ ; 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 fiveyear 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 agespecific death rates for each group

	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

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

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

#### Step 4: Analyzing the data

The first three steps have been fairly mechanical:

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

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

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

#### Help

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

#### References

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**:

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

Birth rate, Oregon, 1993 = 13.7Birth rate, Oregon, 1994 = 13.6

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

#### **PREGNANCY:**

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

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

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

*Oregon*, 1994, *Age* 20–24 =  $\frac{10,999}{104,718}$  X 1,000 = 105.0

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

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

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

4. TOTAL FERTILITY RATE =  $\begin{pmatrix} The Sum of Age Specific Birth Rates in \\ 5-Year Categories between 15 and 44 \end{pmatrix} X 5$ 

Oregon, 1994 = 5 (51.3 + 105.0 + 115.4 + 78.5 + 30.2 + 6.0) = 1,932.0

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

*Oregon*, 1994 = 
$$\frac{224}{41,832}$$
 X 1,000 = 5.4

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

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

7. PERINATAL DEATH RATE =  $\frac{Resident Neonatal Deaths + Resident}{Resident S(350 + grams Birthweight)} X 1,000$ 

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

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

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

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

Oregon 1994, Occurrence with total adjusted for unknown ages  $= \frac{13,300}{682,428} X 1,000 = 19.5$ 

#### **DEATHS:**

10. (CRUDE) DEATH RATE = 
$$\frac{Resident Deaths}{Population} X 1,000$$
  
Oregon, 1994 =  $\frac{27,361}{3,082,000} X 1,000 = 8.9$ 

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

*Oregon*, 1994 =  $\frac{295}{41,832}$  X 1,000 = 7.1

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

*Oregon*, 1994 =  $\frac{164}{41,832}$  X 1,000 = 3.9

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

*Oregon*, 1994 =  $\frac{131}{41,832}$  X 1,000 = 3.1

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

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

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

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

#### MARRIAGE AND DIVORCE:

16. MARRIAGE RATE =  $\frac{Marriages}{Population} X$  1,000  $Oregon, 1994 = \frac{25,194}{3,082,000} X$  1,000 = 8.2 17. DIVORCE RATE =  $\frac{Divorces}{Population} X$  1,000

*Oregon*, 1994 = 
$$\frac{15,844}{3,082,000}$$
 X 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.<sup>1</sup>

#### 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 =  $R \times L$ Upper Limit =  $R \times U$ 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:

Lower Limit =  $13.0 \times 0.51671 = 6.7$ 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.								
Ν	L	U	Ν	L	U	Ν	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):

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:

```
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

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
```

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 <u>not</u> 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:

$$1.96\sqrt{\frac{18.0^2}{3,197} + \frac{17.2^2}{3,176}}$$
$$1.96\sqrt{(\frac{324}{3,197} + \frac{295.84}{3,176})}$$
$$1.96\sqrt{(0.101 + 0.093)}$$
$$1.96\sqrt{0.194}$$

= 1.96 x .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.

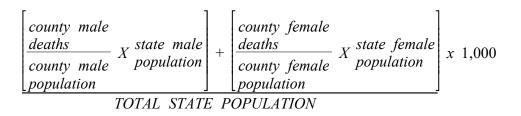
#### CALCULATING RATES ADJUSTED FOR SEX/AGE/RACE:

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.<sup>2</sup>

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.



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, <u>Statistical Notes for Health Planners</u>, No. 2. Health Resources Administration, Washington, D.C., July 1976.

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

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**APPENDIX D: SAMPLE FORMS** 

# Appendix D: Sample form — Certificate of Live Birth

Authority	CERTIFICATE OF LIV	E BIRTH	5-
alth Statistics		130	)-
permanent black ink. or instructions.			State File Number
1. CHILD — NAME (First, Middle, Other Midd	lle, 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
5a. MOTHER'S CURRENT LEGAL NAME (F	irst, Middle, Last, Suffix)	5b. MOTHER'S NAME PRIOR TO FI	RST MARRIAGE (First, Middle, Last, Suff
	1		
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 Forei	gn Country)	
7. FATHER/SECOND PARENT'S CURRENT	LEGAL NAME (First, Middle, Last, Suffix)		
8a. DATE OF BIRTH (Month, Day, Year)	8b. BIRTHPLACE (State, Territory, or Forei	gn Country)	
9a. INFORMANT'S NAME		9b. INFORMANT'S RELATIONSHIP	TO CHILD
	that the personal information provided on this ce		ada and ballaf
SIGNATURE	and, the personal mormation provided on this ce	a consect to the best of my knowle	
10a. CERTIFIER'S NAME	10b. CERTIFIER'S TITLE	10c. CERTIFIER'S ADDRESS	
	hat this child was born alive at the place, time a	nd date stated.	10e. DATE SIGNED (Month, D
SIGNATURE 11a. REGISTRAR'S SIGNATURE			11b. DATE FILED (Month, Day,
		$\mathbf{A}$	
12a. WAS HOME DELIVERY PLANNED?		12b. IS ADOPTION LEGAL PROCEED	ING EXPECTED?  Yes No
<ol> <li>MOTHER'S MAILING ADDRESS — Ch</li> </ol>	eck if same as Mother's residence, OR; 🔨 🔪		
	125 CITY TOWN OF LOCATION		124 7
13a. STATE	13b. CITY, TOWN, OR LOCATION	130. STREET AND NUMBER	13d. Zi
		136, STREET AND NUMBER 13f. PRIMARY TELEPHONE NUMBER	13d. Zi 13g. SECONDARY TELEPHONE
13a. STATE           13e. RESIDENCE INSIDE CITY LIMITS? (Ch           □ Yes         □ No           □ Unknown	eck appropriate answer)	13f. PRIMARY TELEPHONE NUMBER	2 13g. SECONDARY TELEPHONE
13a. STATE 13e. RESIDENCE INSIDE CITY LIMITS? (Ch Ves No Unknown 14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?		13f. PRIMARY TELEPHONE NUMBER	ECOND PARENT'S — Social Security Nu
13a. STATE 13e. RESIDENCE INSIDE CITY LIMITS? (Ch □ Yes □ No □ Unknown 14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD? □ Yes □ No	eck appropriate answer) 14b. MOTHER:5 Social Security Number Check if none	13. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Check if	ECOND PARENT'S — Social Security Nu
13a. STATE 13e. RESIDENCE INSIDE CITY LIMITS? (Ch □ Yes □ No □ Unknown 14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD? □ Yes □ No	eck appropriate answer)  14b. MOTHER:S Special Sepurity Number Check if none deliverying within 300 days print to bjirth of the	13. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Check if	E 13g. SECONDARY TELEPHONE
13a. STATE           13e. RESIDENCE INSIDE CITY LIMITS? (Ch           □ Yes         □ No           □ Unknown           14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?           □ Yes         □ No           15a. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D	eck appropriate answer)  14b. MOTHER:S Special Sepurity Number Check if none deliverying within 300 days print to bjirth of the	13r. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Check if child? Yes No delivery, or within 300 days prior to birth o	the child? Yes No
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13a. STATE           13e. RESIDENCE INSIDE CITY LIMITS? (Ch           Yes         No         Unknown           14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?           Yes         No           15a. MOTHER MARRIED         at conception, at           15b. MOTHER IN OREGON REGISTERED D           15c. PATERNITY ACKNOWLEDGMENT           16. EDUCATION (Check highest grade or ness)           9th-12th grade; no diploma	eck appropriate answer)  14b. MOTHER'S Social Servicity Number Check if none delivery or within 300 days prior to birth of the OMESTIC PARTNERSHIP — at conception, at answers to 5a an 15b are no", has a paternit	13r. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Check if child? Yes No delivery, or within 300 days prior to birth o	the child? Yes No
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         □ Sa. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — IT         16. EDUCATION (Check highest grade for phill)         □ 8th grade or less         □ 9th-12b grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)	eck appropriate answer)  14b. MOTHER:5—Social Security Number Check if none delivery or within 300 days price to birth of the OMESTIC PARTNERSHIP—at conception, at answers to 5a and 155 are from, has a paternit eled) Highlechool diploma or GED G. Some policies credit but no degree	13f. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Check if Child? Yes No delivery, or within 300 days prior to birth o y acknowledgment been signed? Yes Associate's degree Bachelor's degree	t 13g. SECONDARY TELEPHONE ECOND PARENT'S — Social Security Nu inone f the child?
13a. STATE           13e. RESIDENCE INSIDE CITY LIMITS? (Ch           Yes         No         Unknown           14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?           Yes         No           15a. MOTHER MARRIED         at conception, at           15b. MOTHER IN OREGON REGISTERED D           15c. PATERNITY ACKNOWLEDGMENT           16. EDUCATION (Check highest grade or ness)           9th-12th grade; no diploma	eck appropriate answer)  14b. MOTHER'S Special Security Number Check if none delivery or within 300 days prior to birth of the OMESTIC PARTICLESHIP — at conception, at answers to 5a apr 15b are no", has a paternit eled Highschool diploma or GED G Some pollege credit but no degree Wes, Puerto Rican  Other Hispanic	13f. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Check if Child? Yes No delivery, or within 300 days prior to birth o y acknowledgment been signed? Yes Associate's degree Bachelor's degree	t 13g. SECONDARY TELEPHONE ECOND PARENT'S — Social Security Nu inone f the child?
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         15a. MOTHER NARRED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — H         16. EDUCATION (Check nighest grade corpu- Bith grade or less □ 9th -12b grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ No. not Spanish/Hispanic/Latina □ Yes, Mexican, Mexican-American, Chili         18. RACE (Check all that apply)	eck appropriate answer)  14b. MOTHER'S _ special Servicity Number Check if none  delivery or within 300 days print to bjrth of the OMESTIC PARTNERSHIP — at conception, at answers to 15a and 15b are mo", has a paternit eted) Highlighchool diploma or GED Someboliege credit but no degree Vfes, Puerto Rican   Other Hispanic cana   Yes, Cuban   Unknown	13f. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Child? 14c. FATHER/S	I3g. SECONDARY TELEPHONE ECOND PARENT'S — Social Security Nu none      the child?    Yes    No     No     No     Doctorate or Professional degree
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         15a. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — if 16. EDUCATION (Check highest grade or less □ 9th-12th grade; no diploma         17. HISPANIC ORIGIN (Check all that apply) □ No, not Spanis/Hispanic/Latina □ Yes, Mexican, Mexican-American, Chil	eck appropriate answer)  14b. MOTHER'S Special Security Number Check if none delivery or within 300 days prior to birth of the OMESTIC PARTICLESHIP — at conception, at answers to 5a apr 15b are no", has a paternit eled Highschool diploma or GED G Some pollege credit but no degree Wes, Puerto Rican  Other Hispanic	13f. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Check if Child? Yes No delivery, or within 300 days prior to birth o y acknowledgment been signed? Yes Associate's degree Bachelor's degree	t 13g. SECONDARY TELEPHONE ECOND PARENT'S — Social Security Nu inone f the child?
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ No       □ Unknown         14a. REQUEST & SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         15a. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — If         16. EDUCATION (Check highest grade corps)         □ 9th -12th grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ White         □ Back or African American □ American Indian or Alaska Native	eck appropriate answer)  14b. MOTHER'S _ special Servicity Number Check if none  delivery or within 300 days prior to birth of the OMESTIC PARTNERSHIP — at conception, at answers to 15a and 15b are 'no', has a paternit efed Hightschool diploma or GED Sometoollege credit but no degree Vres, Puerto Rican © Other Hispanic cana © Yes, Cuban © Unknown Asian Indian © Korean Chinese © Vietnamese E Filipino © Other Asian (s)	13f. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Child? Yes No delivery, or within 300 days prior to birth o y acknowledgment been signed? Yes Associate's degree Bachelor's degree Grigin (specify): Guamanian or Chamorro Samoan	I3g. SECONDARY TELEPHONE ECOND PARENT'S — Social Security Nu none      the child?
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         15a. MOTHER MARRIED — at conception, at         15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — IT         16. EDUCATION (Check highest grade cromp) B th grade or less         □ 9 th-12th grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ No, not Spanish/Hispanic/Latina         □ Yes, Mexican, Mexican-American, Chit         18. RACE (Check all that apply)         □ White         □ Black or African American	eck appropriate answer)  44b. MOTHER:S = social Senutity Number Check if none  Ch	13f. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Child? 14c. FATHER/S	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ No       □ Unknown         14a. REQUESTA SOCIAL SECURITY NUMBER FOR THIS CHILD?       □ Yes       □ No         15a. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — if 16. EDUCATION (Check highest grade of ones)         □ 9th-12th grade; no diploma         □ Yes, Mexican, Mexican-American, Chii         18. RACE (Check all that apply)         □ White         □ Black or African American □ specify tribe(s)):         19. EDUCATION (Check highest grade compl □ Black or African American □ American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check highest grade compl □ Black or or lass	eck appropriate answer)  14b. MOTHER'S _ social Serucity Number Check if none  deliver vie within 300 days price to birth of the OMESTIC PARTNERSHIP — at conception, at answers to 5a and 15b mc ho", has a paternit eled)  Hightschool diploma or GED Some vollege credit but no degree Vres, Puerto Rican   Other Hispanic cana   Yes, Cuban   Unknown   Asian Indian   Korean   Chinese   Vietnamese   Filipino   Other Asian (s)   Japanese   Native Havailia eted)   High school diploma or GED   Generation of the school diploma or GED   Japanese   Native Havailia   High school diploma or GED   Some of the school diploma or GED   High school diploma or GED   High school diploma or GED   High school diploma or GED   Other School diploma or GED   High school diploma or GED	13f. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Child? Yes No delivery, or within 300 days prior to birth o y acknowledgment been signed? Yes Associate's degree Bachelor's degree Grigin (specify):	
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13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ No         □ Vannown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         15a. MOTHER MARRIED — at conception, at         15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — IT         16. EDUCATION (Check highest grade of less         □ 9th-12th grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ Mvite         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check highest grade compliant)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check all that apply)         □ Bth grade or less         □ 9th-12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ Bth grade or less         □ 9th-12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ No, not Spanish/Hispanic/Latino	eck appropriate answer)  14b. MOTHER'S Social Serucity Number Check if none  delivery or within 300 days prior to birth of the OMESTIC PARTNERSHIP — at conception, at answers to 5a apa 15b are no', has a paternit eted) Highschool diploma or GED Some vollege credit but no degree Vres, Puerto Rican    Other Hispanic and    Yes, Cuban    Unknown  Asian Indian    Korean    Ghinese    Vietnamese    Filipino    Other Asian (s)    Japanese    Native Hawaiia eted)    Yes, Puerto Rican    Other Hispanic	13f. PRIMARY TELEPHONE NUMBER         14c. FATHER/S         Check if         Child?       Yes         No         delivery. or within 300 days prior to birth o         y acknowledgment been signed?       Yes         Associate's degree         Bachelor's degree         Origin (specify):         Guamanian or Chamorro         Samoan         pecify):         N         Other Pacific Islander (specify)         Associate's degree         Bachelor's degree	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         □ Sa. MOTHER HARRED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — H         16. EDUCATION (Check nighest grade comp)         □ Bth grade or less         □ 9th -12b grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American American Indian or Alaska Native (specify tribe(s)):         18. EDUCATION (Check highest grade comp)         □ Bth grade or less         □ 9th-12th grade; no diploma         20. HISPANC ORIGIN (Check all that apply)         □ Hwite         □ Black or African American □ American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check highest grade comp)         □ Bth grade or less         □ 9th-12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ No, not Spanish/Hispanic/Latino         □ Yes, Mexican, Mexican-American, Chil	eck appropriate answer)  14b. MOTHER'S Social Serucity Number Check if none  delivery or within 300 days prior to birth of the OMESTIC PARTNERSHIP — at conception, at answers to 5a apa 15b are no', has a paternit eted) Highschool diploma or GED Some vollege credit but no degree Vres, Puerto Rican    Other Hispanic and    Yes, Cuban    Unknown  Asian Indian    Korean    Ghinese    Vietnamese    Filipino    Other Asian (s)    Japanese    Native Hawaiia eted)    Yes, Puerto Rican    Other Hispanic	13f. PRIMARY TELEPHONE NUMBER         14c. FATHER/S         Check if         Child?       Yes         No         delivery. or within 300 days prior to birth o         y acknowledgment been signed?       Yes         Associate's degree         Bachelor's degree         Origin (specify):         Guamanian or Chamorro         Samoan         pecify):         N         Other Pacific Islander (specify)         Associate's degree         Bachelor's degree	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ No         □ Vakown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         15a. MOTHER MARRIED — at conception, at         15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — IT         16. EDUCATION (Check highest grade of less         □ 9th-12th grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ Mvite         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check highest grade compliant)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check all that apply)         □ Bth grade or less         □ 9th-12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ Bth grade or less         □ 9th-12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ No, not Spanish/Hispanic/Latino	eck appropriate answer)  14b. MOTHER'S Stocal Serucity Number Check if none  delivery or within 300 days prior to birth of the OMESTIC PARTNERSHIP – at conception, at answers to 5a apa 15b are no", has a paternit eled) Highschool diploma or GED Some poliege credit but no degree Vres, Puerto Rican    Other Hispanic Chinese    Vietnamese    Filipino    Other Asian (s)    Japanese    Native Hawaiia eled)    High school diploma or GED    Some college credit but no degree    Some college credit but no degree    Yes, Puerto Rican    Other Hispanic	13f. PRIMARY TELEPHONE NUMBER         14c. FATHER/S         Check if         Child?       Yes         No         delivery. or within 300 days prior to birth o         y acknowledgment been signed?       Yes         Associate's degree         Bachelor's degree         Origin (specify):         Guamanian or Chamorro         Samoan         pecify):         N         Other Pacific Islander (specify)         Associate's degree         Bachelor's degree	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         □ Sa. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — if 16. EDUCATION (Check nighest grade compl □ Bth grade or less         □ 9th -12h grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American □ American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check highest grade compl □ Bth grade or less         □ 9th -12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ Bth grade or less         □ 9th -12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ No, not Spanish/Hispanic/Latina         □ 9th -12th grade; no diploma         10. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American, Chil         11. RACE (Check all that apply)         □ White         □ Black or African American	eck appropriate answer)  14b. MOTHER'Ssocial Serucity NumberCheck if none  delivery or within 300 days prior to birth of the OMESTIC PARTNERSHIP — at conception, at answers to 5a are 15b birc ho", has a paternit efed)Hintlichechol diploma or GEDSome college credit but no degreeYres, Puerto RicanOther Hispanic canadYres, CubanUnknownAsian IndianKoreanHigh school diploma or GEDSome college credit but no degreeIsan IndianKoreanHigh school diploma or GEDSome college credit but no degreeIsan IndianKoreanHigh school diploma or GEDSome college credit but no degreeIsan Lodo diploma or GEDSome college credit but no degreeAsian IndianOther Hispanic canoYes, CubanUrknownAsian IndianKorean	13f. PRIMARY TELEPHONE NUMBER 14c. FATHER/S Check if child? Yes No delivery, or within 300 days prior to birth o y acknowledgment been signed? Yes Associate's degree Bachelor's degree Origin (specify):	I3g. SECONDARY TELEPHONE ECOND PARENT'S — Social Security Nu inone      the child?
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         □ Sa. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — IT         16. EDUCATION (Check Ailbest grade comprise 0 sth grade or less         □ 9th -12th grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ No, not Spanish/Hispanic/Latina         □ Yes, Mexican, Mexican-American, Chil         18. RACE (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         □ 0 HISPANIC ORIGIN (Check all that apply)         □ White         19. EDUCATION (Check highest grade compliant)         19. EDUCATION (Check highest grade compliant)         □ 0 HISPANIC ORIGIN (Check all that apply)         □ White         □ 19. EDUCATION (Check highest grade compliant)         10. HISPANIC ORIGIN (Check all that apply)         □ Wexican, Mexican-American, Chil         11. RACE (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native	eck appropriate answer)  14b. MOTHER'S = tocal Serucity Number Check if none  delivery or within 300 days prior to birth of the OMESTIC PARTHENEHIP – at conception, at answers to 5a apr 15b bits no", has a paternit eted) High school diploma or GED Gores Unknown Asian Indian Korean Chinese Vietnamese Filipino Other Hispanic eted) High school diploma or GED Some college credit but no degree Yes, Cueban Other Hispanic eted High school diploma or GED Some college credit but no degree Asian Indian Other Hispanic eted High school diploma or GED Some college credit but no degree Asian Indian Other Hispanic eted Asian Indian Other Hispanic eted Asian Indian Other Hispanic Some college credit but no degree Asian Indian Other Hispanic	13f. PRIMARY TELEPHONE NUMBER         13f. PRIMARY TELEPHONE NUMBER         14c. FATHER/S         Check if         Check if      C	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         □ Sa. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — if 16. EDUCATION (Check nighest grade compl □ Bth grade or less         □ 9th -12h grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American □ American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check highest grade compl □ Bth grade or less         □ 9th -12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ Bth grade or less         □ 9th -12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ No, not Spanish/Hispanic/Latina         □ 9th -12th grade; no diploma         10. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American, Chil         11. RACE (Check all that apply)         □ White         □ Black or African American	eck appropriate answer)  14b. MOTHER'S special Senucity Number Check if none delivery or within 300 days prior to birth of the OMESTIC Part the SHIP — at conception, at answers to 5a and 15b ne no', has a paternit eted) Highlochool diploma or GED Gana PYes, Cuban Unknown  Asian Indian Korean Chinese Vietnamese High school diploma or GED Some college credit but no degree High school diploma or GED Gana OYes, Cuban Unknown  Asian Indian Corean Chinese Native Havaila eted) Asian Indian Cherean Chinese Native Havaila eted Asian Indian Cherean Chinese Vietnamese Asian Indian Cherean Chinese Vietnamese High school diploma or GED Some college credit but no degree Asian Indian Cherean Chinese Vietnamese Filipino Other Asian (s)	131. PRIMARY TELEPHONE NUMBER         132. PRIMARY TELEPHONE NUMBER         142. FATHER/S         Check if         Check if      C	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         □ Sa. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         16c. DUCATION (Check Nighest grade comption)         □ Sting and constraints/Hispanic/Latina         □ Yes, Mexican, Mexican-American, Chil         18. RACE (Check all that apply)         □ White         □ Black or African American □ American Indian or Alaska Native (specify tribe(s)):         19. BUUCATION (Check highest grade comption)         □ Stipsanish/Hispanic/Latina         □ Yes, Mexican, Mexican-American, Chil         □ Black or African American         □ Black or African American, Chil         20. HISPANIC ORIGIN (Check highest grade comption)         □ Bibs, and or Ispanish/Hispanic/Latina         □ Yes, Mexican, Mexican-American, Chil         □ Black or African American         □ Black or African American, Chil         20. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         21. BACE (Check all that apply)         □ White       □ Black or African American	eck appropriate answer)  14b. MOTHER'Ssocial Serucity NumberCheck if none  delivery or within 300 days prior to birth of the OMESTIC PARTNERSHIP — at conception, at answers to 5a and 15b are no', has a paternit eted)Hingschool diploma or GEDSome tollege credit but no degreeYes, Puerto RicanOther Hispanic canadYes, CubanUnknownAsian IndianKoreanHingschool diploma or GEDSome tollege credit but no degreeYes, CubanUnknownAsian IndianKoreanHigh school diploma or GEDSome college credit but no degreeHigh school diploma or GEDSome college credit but no degreeAsian Indian	13f. PRIMARY TELEPHONE NUMBER         13f. PRIMARY TELEPHONE NUMBER         14c. FATHER/S         Check if         Check if      C	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST & SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         15a. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         16c. EDUCATION (Check Nighest grade comption)         16. EDUCATION (Check nighest grade comption)         17. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American         □ Aym. Constant (Langade or less)         □ Yes, Mexican, American, Chini         18. RACE (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check highest grade comption)         □ Black or African American         □ American Indian or Alaska Native         (specify tribe(s)):         19. EDUCATION (Check highest grade comption)         □ Black or African American         □ Stage or less         □ 9th -12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American, Chini         21. RACE (Check all that apply)         □ White         □ Black or African America	eck appropriate answer)  14b. MOTHER'S stocal Senutiv Number Check if none  deliver yor within 300 days pricto birth of the OMESTIC PARTNERSHIP — at onception, at answers to 5a and 15b are hor, has a paternit efed) Highlichool diploma or GED Somebollege credit but no degree Vietnamese Highlipho — 0 ther Hispanic ana "Yes, Cuban Unknown Asian Indian Korean High school diploma or GED Some college credit but no degree Highlipho — 0 ther Asian(s) Asian Indian Korean High school diploma or GED Asian Indian Korean High school diploma or GED Some college credit but no degree Highipho — 0 ther Asian(s) Asian Indian Korean High school diploma or GED Some college credit but no degree Highipho — 0 ther Asian(s) High school diploma or GED Some college credit but no degree Highipho — 0 ther Asian(s) High school diploma or GED Some college Credit but no degree Highipho — 0 ther Asian(s) High school diploma or GED Some college Credit but no degree Highipho — 0 ther Asian(s) High school diploma or GED Some college Credit but no degree Highipho — 0 ther Asian(s) High school diploma or GED Some college Credit but no degree Highipho — 0 ther Asian(s) High school diploma or GED High	13f. PRIMARY TELEPHONE NUMBER         13f. PRIMARY TELEPHONE NUMBER         14c. FATHER/S         Check if         Check if      C	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST & SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         15a. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — IT         16. EDUCATION (Check Ailbest grade origin 0 #th grade or less         0 #th -12th grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ No, not Spanish/Hispanic/Latina         □ Yes, Mexican, Mexican-American, Chil         18. RACE (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check highest grade compliant)         □ White         □ Black or African American, Chil         14. American Indian or Alaska Native (specify tribe(s)):         19. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American, Chil         21. RACE (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         22. DU MOTHER GET WIC FOOD?         □ Yes       ℕ or Unknown         25. CIGARET	eck appropriate answer)  14b. MOTHER'S Speal Serucity Number Check if none delivery or within 300 days prior to birth of the OMESTIC PARTHENSHIP — at ponception, at answers to 5a apr 155 birc hor, has a paternit eled Highlight of the distribution of GED Gome follege credit but no degree OYes, Puerto Rican Other Hispanic eled Gome Serucity Number Chinese Vietnamese Filipino Other Asian (s) Gome college credit but no degree Some college credit bu	13f. PRIMARY TELEPHONE NUMBER         13f. PRIMARY TELEPHONE NUMBER         14c. FATHER/S         Check if         Check if      C	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST & SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         15a. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         16c. EDUCATION (Check Nighest grade comption)         16. EDUCATION (Check nighest grade comption)         17. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American         □ Aym. Constant (Langade or less)         □ Yes, Mexican, American, Chini         18. RACE (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check highest grade comption)         □ Black or African American         □ American Indian or Alaska Native         (specify tribe(s)):         19. EDUCATION (Check highest grade comption)         □ Black or African American         □ Stage or less         □ 9th -12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American, Chini         21. RACE (Check all that apply)         □ White         □ Black or African America	eck appropriate answer)  14b. MOTHER'S = total Structly Number Check if none delivery or within 300 days print to birth of the OMESTIC PARTHENEHIP – at conception, at answers to 5a apr 15b bits no", has a paternit eted) High school diploma or GED Gores Ultramese Highino Other Hispanic Chinese Vietnamese High school diploma or GED Some college credit but no degree High school diploma or GED Some college credit but no degree Asian Indian Korean Chinese Vietnamese Highino Other Hispanic Chinese Vietnamese High school diploma or GED Some college credit but no degree Asian Indian Korean Chinese Vietnamese Highino Other Hispanic Chinese Vietnamese Highino Other Asian (s) Asian Indian Korean Chinese Native Hawaiia Eted Chinese Native Hawaiia Eted Chinese Chinese Native Hawaiia Eted Chinese Chinese Chinese Highino Other Asian (s) Chinese Native Hawaiia Eted Chinese	13f. PRIMARY TELEPHONE NUMBER         14c. FATHER/S         Child?       Yes         Child?       Guamanian or Chamorro         Child?       Child?         Child?       Child? <t< td=""><td>I3g. SECONDARY TELEPHONE ECOND PARENT'S — Social Security Nu inone      the child?</td></t<>	I3g. SECONDARY TELEPHONE ECOND PARENT'S — Social Security Nu inone      the child?
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST & SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         □ Social SECURITY         NUMBER FOR THIS CHILD?         □ Yes       □ No         15a. MOTHER MARRIED - at conception, at         15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT - IT         16. EDUCATION (Check highest grade omp)         □ 8th grade or less         □ 9th-12th grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ No not Spanish/Hispanic/Latina         □ Yes, Mexican, Mexican-American, Chi         18. RACE (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         □ 9th-12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ HISPANIC ORIGIN (Check all that apply)         □ HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe	eck appropriate answer)  14b. MOTHER'S Bocal Serucity Number Check if none delivery or within 300 days prior to birth of the OMESTIC PARTNERSHIP — at conception, at answers to 5a apa 15b ac no', has a paternit eled) Highschool diploma or GED Some oflege credit but no degree Vres, Puerto Rican Other Hispanic and Yes, Cuban Unknown Asian Indian Korean Chinese Niethamese High school diploma or GED Some college credit but no degree Vietnamese High school diploma or GED Some college credit but no degree Asian Indian Korean Chinese Niethamese High school diploma or GED Some college credit but no degree Asian Indian Korean Chinese Niethamese High school diploma or GED Some college credit but no degree Asian Indian Korean Chinese Niethamese High achool diploma or GED Some college redit but no degree Chinese Vietnamese High achool diploma or GED Some college redit but no degree Chinese Chinese Chinese High achool diploma or GED Chinese Chinese High achool diploma or GED Some college redit but no degree Chinese Game Chinese	13f. PRIMARY TELEPHONE NUMBER         14c. FATHER/S         Child?       Yes         Child?       Guamanian or Chamorro         Child?       Child?         Child?       Child? <t< td=""><td></td></t<>	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ No         □ Sta. MOTHER MARRIED	eck appropriate answer)  14b. MOTHER'S Social Serucity Number Check if none  delivery or within 300 days prior to birth of the OMESTIC PARTNERSHIP — at conception, at answers to 5a apa 15b ace no', has a paternit eted)  Highschool diploma or GED Some oflege credit but no degree Vres, Puerto Rican Other Hispanic and Yes, Cuban Unknown  Asian Indian Korean Chinese Niethamese High school diploma or GED Some college credit but no degree Viets Asian Indian Korean Chinese Niethamese Filipino Other Asian (s) Gore college credit but no degree Viets Asian Indian Korean Chinese Niethamese Filipino Other Asian (s) Gorden College credit but no degree Asian Indian Korean Chinese Vietnamese Filipino Other Asian (s) Gorden College Credit but no degree Chinese Vietnamese Some college credit but no degree Chinese Chines	13f. PRIMARY TELEPHONE NUMBER         13f. PRIMARY TELEPHONE NUMBER         14c. FATHER'S         Child?       Yes         Child?       Yes <td></td>	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ Unknown         14a. REQUEST A SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         □ Sa. MOTHER MARRIED — at conception, at 15b. MOTHER IN OREGON REGISTERED D         15c. PATERNITY ACKNOWLEDGMENT — if 16. EDUCATION (Check highest grade comp)         □ Bth grade or less         □ 9th-12th grade; no diploma         17. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American American Indian or Alaska Native (specify tribe(s)):         19. EDUCATION (Check highest grade comp)         □ Bth grade or less         □ 9th-12th grade; no diploma         20. HISPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American, Chil         21. RACE (Check all that apply)         □ White         □ Black or African American, Chil         21. HSPANIC ORIGIN (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         22. DID MOTHER GET WIC FOOD?         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         22. DID MOTHER GET WIC FOOD?         □ Yes	eck appropriate answer)	13f. PRIMARY TELEPHONE NUMBER         13f. PRIMARY TELEPHONE NUMBER         14c. FATHER'S         Check If         14c. FATHER'S         I Associate's degree         I Guamanian or Chamorro         I Samoan         Decify):         I Other Pacific Islander (specify)         I Associate's degree         I Samoan         Decify):         I Guamanian or Chamorro         I Samoan         Decify):         I Other Pacific Islander (specify)         I CatcoHol USE DURING THIS PR         If yes, average number of drinks pe         S         29. DATE OF LAST MENSES (Month, I)	
13a. STATE         13e. RESIDENCE INSIDE CITY LIMITS? (Ch         □ Yes       □ No         □ Unknown         14a. REQUEST & SOCIAL SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         □ Social SECURITY NUMBER FOR THIS CHILD?         □ Yes       □ No         15a. MOTHER MARRIED - at conception, at 15b. MOTHER IN OREGON REGISTERED D         16c. DUCATION (Check highest grade origon)         □ 8th grade or less         □ 9th-12th grade; no diploma         17. HISPANIC ORGIN (Check all that apply)         □ No not Spanish/Hispanic/Latina         □ Yes, Mexican, Mexican-American, Chi         18. RACE (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         □ Sth grade or less         □ 9th-12th grade; no diploma         20. HISPANIC ORGIN (Check all that apply)         □ HISPANIC ORGIN (Check all that apply)         □ No. not Spanish/Hispanic/Latino         □ Yes, Mexican, Mexican-American, Chi         21. RACE (Check all that apply)         □ White         □ Black or African American         □ American Indian or Alaska Native (specify tribe(s)):         22. DID MOTHER GET WIC FOOD?         □ Y	eck appropriate answer)  14b. MOTHER'S = total Structly Number Check if none delivery or within 300 days print to birth of the OMESTIC PARTHENEHIP – at conception, at answers to 5a apr 15b bits no", has a paternit eted) High school diploma or GED Gores Ultramese Highino Other Aisian (s) High school diploma or GED Some college credit but no degree High school diploma or GED Some college credit but no degree High school diploma or GED Some college credit but no degree High school diploma or GED Some college credit but no degree High school diploma or GED Some college credit but no degree Asian Indian Korean Chinese Vietnamese Highino Other Asian (s) High school diploma or GED Some college credit but no degree Asian Indian Korean Chinese Vietnamese Hilipino Other Asian (s) High school diploma or GED Some college credit but no degree Chinese Vietnamese Hilipino Other Asian (s) High school diploma or GED Some college credit but no degree Chinese Chinese Chinese Hilipino Other Asian (s) Chinese Native Hawaiia Asian Indian Korean Chinese Native Hawaiia Chinese Native Hawaiia Chinese Chinese Chinese Hilipino Other Asian (s) Chinese Native Hawaiia Chinese Asian (chine Hispanic Chinese Asian Indian Chinese Chines	13f. PRIMARY TELEPHONE NUMBER         13f. PRIMARY TELEPHONE NUMBER         14c. FATHER/S         Check if         Child?         Yes         Check if         <	

(optional)							
Sa. COMBINED # OTHER OUTCOMES     33b. DATE OF LAST OTHER OUTCOME (here)     35b. PATE OUTCOME (here)     35b. PATE OF LAST OTHER OUTCOME (here)     35b. PATE OTHER OUTCOME     35b. PATE OTHER			SPACE ABOVE MU	ST BE LEFT BLANK			
MOTHER   Diabetes Gestational Dipertension Eclamping   Dipertension Pre-programcy Pregnancy neutred from informity transmit fastistic appoductive technology   B. MOTHER TESTED FOR: Pregnancy neutred from informity transmit fastistic appoductive technology   B. MOTHER TESTED FOR: 37. INFECTIONS PREVENT and/or   (Check all that apply) 37. INFECTIONS PREVENT and/or   B. MOTHER 9. ONSET OF LABOR   WOTHER 9. ONSET OF LABOR   WOTHER 9. ONSET OF LABOR   WOTHER 9. ONSET OF LABOR   B. MOTHER TABLES TO FOR: 9. ONSET OF LABOR   (Check all that apply) Derivation sephalic version successful   B. MOTHER 9. ONSET OF LABOR   B. MOTHER 1. Annoo   B. MOTHER 9. ONSET OF LABOR   B. MOTHER 0. CHARACTERISTICS OF LABOR FMD DELIVERY   C. MARCENSHIE 0. Annoo   B. MOTHER 0. Annoo </th <th></th> <th></th> <th></th> <th></th> <th></th>							
(Check all that apply)       TERATED (Check all that apply)       (Check all that apply)       Precipious labor < 2 hours		□ Diabetes — Gestational □ Diabetes — Pre-pregnancy □ Hypertension — Pre-pregnancy (Chroni	Hypertension — Eclampsia     Previous Preterm Births (<37 completed)     Pregnancy resulted from infertility treated	ed weeks gestation) atment — fertility-enhancing drugs	How many?		
40. CHARACTERISTICS OF LABOR NND DELIVERY (Check all that apply)       □ Clinical choricamnionitis diagnosed during labor or maternal temp. ≥ 38°C.       □ Unknown         □ Augmentation of labor       □ Antibotics during dator       □ Epidural or spinal anesthesia during labor       □ None of the above         41. METHOD OF DELIVERY       10 FINAL ROUTE AND METHOD OF DELIVERY       □ Degradial/social       □ Unknown         □ Breech       □ Unknown       □ Vaginal/spontaneous       □ Clearean – If Cesarean, was a trial of labor attempted?       □ Yes       No         42. MATERNAL MORBIDITY (Check all that apply)       □ Maternal transfusion       □ Ruptured uterus       □ Admission to intensive care unit       □ Unknown at this time         31 or 4th degree perineal laceration       □ Unplanned hysterectomy       □ Unplanned operating room procedure following delivery       □ Unknown at this time         43. MOTHER TRANSFERRED TO THIS FACILITY PRIOR TO DELIVERY?       □ 44. INFANT TRANSFERRED FROM THIS FACILITY AFTER DELIVERY?       □ Yes □ No       146. BIRTH WEIGHT       47. APGAR       10 min.       48. OBSTETRIC ESTIMATE OF GESTATIO (week         49. PLURALITY (Single, Twin, Triplet, etc.)       50. BIRTH ORDER (st. 2.nd. 3rd, 4th, etc.)       51. NUMBER BORN ALIVE THIS DELIVERY       12 Na       19 Na         51. INFANT BREASTFED AT DISCHARGE?       54. ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply)       □ Ansisted ventilation required immediately       □ Anthiotics r	MOTHER	(Check all that apply)	TREATED (Check all that apply) Genorrhea Hepatitis B Syphillis Hepatitis C	(Check all that apply) Cervical cerclage Tocolysis External cephalic version successful External cephalic version failed	<ul> <li>□ Premature rupture ≥ 12 hours</li> <li>□ Precipitous labor &lt; 3 hours</li> <li>□ Prolonged labor ≥ 20 hours</li> </ul>		
41a. FETAL PRESENTATION AT DELIVERY       Imaginal/spontaneous       Usginal/spontaneous       Usginal/spontaneous       Usginal/spontaneous         Breech       Unknown       Unknown       Usginal/spontaneous       Cesarean – If Cesarean, was a trial of labor attempted?       Yes       No         42. MATERNAL MORBIDITY (Check all that apply)       Admission to intensive care unit       None of the above       None of the above         33. OTHER TRANSFERRED TO THIS FACILITY PRIOR TO DELIVERY?       44. INFANT TRANSFERRED FOM THIS FACILITY AFTER DELIVERY?       Unknown at this time         43. MOTHER TRANSFERRED TO THIS FACILITY PRIOR TO DELIVERY?       44. INFANT TRANSFERRED TO THIS FACILITY AFTER DELIVERY?       Yes       No       If yes, name of facility:         45. INFANT'S MEDICAL RECORD #       46. BIRTH WEIGHT       47. APGAR       48. OBSTETRIC ESTIMATE OF GESTATIO (week         49. PLURALITY (Single, Twin, Triplet, etc.)       50. BIRTH ORDER (1st, 2nd, 3rd, 4th, etc.)       51. NUMBER BORN ALIVE THIS DELIVERY       Yes       No         53. INFANT BREASTFED AT DISCHARGE?       54. ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply)       Satisted ventilation frequired immediately       Antibiotics received by newborn for suspected neonatal sepsis         54. ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply)       GAssisted ventilation for more than 6 hours       Seizure/serious neurologic dysfunction         Wewborn given surfactant replacement therapy <th>MOTHER</th> <td>□ Induction of labor □ Steroids for</td> <td>fetal lung maturation prior to delivery Clin</td> <td>I nical chorioamnionitis diagnosed during labor or n</td> <td></td>	MOTHER	□ Induction of labor □ Steroids for	fetal lung maturation prior to delivery Clin	I nical chorioamnionitis diagnosed during labor or n			
42. MATERNAL MORBIDITY (Check all that apply)         Admission to intensive care unit       Admission to intensive care unit         Brid or 4th degree perineal laceration       Unplanned hysterectomy       Unplanned operating room procedure following delivery       Unknown at this time         43. MOTHER TRANSFERRED TO THIS FACILITY PRIOR TO DELIVERY?       44. INFANT TRANSFERRED FROM THIS FACILITY AFTER DELIVERY?       Unknown at this time         45. INFANT'S MEDICAL RECORD #       46. BIRTH WEIGHT       47. APGAR       48. OBSTETRIC ESTIMATE OF GESTATIO (week         49. PLURALITY (Single, Twin, Triplet, etc.)       50. BIRTH ORDER (fst. 2nd, 3rd, 4th, etc.)       51. NUMBER BORN ALLVE THIS DELIVERY       52. INFANT ALIVE AT TIME OF REPORT?         9       S       51. NUMBER BORN ALLVE THIS DELIVERY       52. INFANT ALIVE AT TIME OF REPORT?         9       S       51. NUMBER BORN ALLVE THIS DELIVERY       52. INFANT ALIVE AT TIME OF REPORT?         9       S       51. NUMBER BORN ALLVE THIS DELIVERY       52. INFANT ALIVE AT TIME OF REPORT?         9       S       Assisted ventilation required immediately       Antibiotics received by newborn for suspected neonatal sepsis         0       Assisted ventilation required immediately       Other significant birth injury       Seizure/serious neurologic dysfunction         0       NOCU Admission       Other significant birth injury       Other significant birth injury       Sei		41a. FETAL PRESENTATION AT DELIVERY Cephalic Other Vaginal/spontaneous Vaginal/vacuum Unknown					
45. INFANT'S MEDICAL RECORD # (optional)       46. BIRTH WEIGHT       47. APGAR       48. OBSTETRIC ESTIMATE OF GESTATIO (week         49. PLURALITY (Single, Twin, Triplet, etc.)       50. BIRTH ORDER (stz, 2nd, 3rd, 4th, etc.)       51. NUMBER BORN ALIVE THIS DELIVERY       52. INFANT ALIVE AT TIME OF REPORT?         53. INFANT BREASTFED AT DISCHARGE?       54. ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply)       Assisted ventilation for more than 6 hours       Sizure/serious neurologic dystunction         55. CONGENITAL ANOMALIES (Check all that apply)       No without off palate       Other significant birth injury         55. CONGENITAL ANOMALIES (Check all that apply)       Limb reduction defect       Suspected chromosomal disorder, karyotype confirmed         64. Meningomyelocele/Spina birlida       Cleft palate alone       Cleft palate alone       Suspected chromosomal disorder, karyotype unknown		42. MATERNAL MORBIDITY (Check all that a)     ☐ Maternal transfusion     ☐ 3rd or 4th degree perineal laceration     43. MOTHER TRANSFERRED TO THIS FACIL	Ruptured uterus     Ad     Unplanned hysterectomy	mission to intensive care unit planned operating room procedure following de 44. INFANT TRANSFERRED FROM THIS FA	□ None of the above livery □ Unknown at this time		
53. INFANT BREASTFED AT DISCHARGE?       ABNORMAL CONDITIONS OF THE NEWBORN ( <i>Check all that apply</i> )       Assisted ventilation required immediately       Antibiotics received by newborn for suspected neonatal sepsis         Yes       No       Assisted ventilation required immediately       Antibiotics received by newborn for suspected neonatal sepsis         Use       No       Seizure/serious neurologic dysfunction         UNCU Admission       Other significant birth injury         Newborn given surfactant replacement therapy       None of the above         55. CONGENITAL ANOMALIES ( <i>Check all that apply</i> )       Imb reduction defect         Anencephaly       Units reduction defect         Meningomyelocele/Spina birlida       Cleft patate alone         Organization       Cleft patate alone         Organization       Suspected chromosomal disorder, karyotype unknown		45. INFANT'S MEDICAL RECORD #		47. APGAR	48. OBSTETRIC ESTIMATE OF GESTATION (weeks)		
53. INFANT BREASTFED AT DISCHARGE?       54. ABNORMAL CONDITIONS OF THE NEWBORN ( <i>Check all that apply</i> )         Yes       No         Assisted ventilation required immediately       Antibiotics received by newborn for suspected neonatal sepsis         Assisted ventilation for more than 6 hours       Seizure/serious neurologic dysfunction         INCL Admission       Other significant bitth injury         Newborn given surfactant replacement therapy       None of the above         55. CONGENITAL ANOMALIES ( <i>Check all that apply</i> )       Inibiotics received by newborn given surfactant replacement therapy         Menicophaly       Limb reduction defect       Suspected chromosomal disorder, karyotype confirmed         Menicophaly       Cleft tip with or without cleft palate       Suspected chromosomal disorder, karyotype ending         Cyanotic congenital heart disease       Cleft palate alone       Suspected chromosomal disorder, karyotype unknown		49. PLURALITY (Single, Twin, Triplet, etc.)	50. BIRTH ORDER (1st, 2nd, 3rd, 4th, etc.)	51. NUMBER BORN ALIVE THIS DELIVERY			
Anencephaly       Limb reduction defect       Suspected chromosomal disorder, karyotype confirmed         Meningomyelocele/Spina bifida       Cleft lip with or without cleft palate       Suspected chromosomal disorder, karyotype pending         Cyanotic congenital heart disease       Cleft palate alone       Suspected chromosomal disorder, karyotype unknown         Reserve the participant of the palate       Suspected chromosomal disorder, karyotype unknown			Assisted ventilation required immedia     Assisted ventilation for more than 6 h     NICU Admission	tely	orn for suspected neonatal sepsis		
NEWBORN         Congenital diaphragmatic nemia         Down Syndrome, karyotype constrimed         Hypospadias           0 Omphalocele         Down Syndrome, karyotype pending         None of the anomalies listed above           Gastroschisis         Down Syndrome, karyotype unknown	NEWBORN	☐ Anencephaly ☐ Meningomyelocele/Spina bifida ☐ Cyanotic congenital heart disease ☐ Congenital diaphragmatic hernia ☐ Omphalocele	Limb reduction defect     Cleft lip with or without cleft palate     Cleft palate alone     Down Syndrome, karyotype confirme.     Down Syndrome, karyotype pending	Suspected chromosomal dis     Suspected chromosomal dis     Hypospadias     None of the anomalies listed	order, karyotype pending order, karyotype unknown		
56a. WAS HEARING TEST PERFORMED?       56b. TEST DATE (Month, Day, Year)       56c. TEST RESULTS — Left ear       56d. TEST RESULTS — Right ear         Inpatient       Indextore       Indextore       Indextore       Indextore         Outpatient       Transfer       Indextore       Indextore       Indextore         Indextore       Indextore       Indextore       Indexto		□ Inpatient □ Refused □ Missed	56b. TEST DATE (Month, Day, Year)	Pass Equipment failure     Refer Physical condition Equipment type used:	Pass Equipment failure     Refer Physical condition Equipment type used:		
572. DID INFANT RECEIVE HEPATITIS B VACCINE?     57b. DATE ADMINISTERED (Month, Day, Year)     57c. MANUFACTURER     57d. LOT NUMBER       U Yes     No     Refused     57d. LOT NUMBER     57d. LOT NUMBER		VACCINE?	57b. DATE ADMINISTERED (Month, Day, Year)		57d. LOT NUMBER		
58. MOTHER HBsAg+?  Positive  Negative  Unknown  Not screened							
45-1 (03/15)	45-1 (03/15)	IMMUNE GLOBULIN (HBIG)?			59d. LOT NUMBER		

## Appendix D: Sample form — Report of Induced Termination of Pregnancy

С	L			
	ente			LE NUMBER
		cility 1. Patient's ID number:	2. Date termination performed:	3. Patient's age:
	us	e only (Patient ID/Facility Chart/Case No.)	(Month/Day/Year)	
	4. F	Patient's residence address:		5. Inside city limits?
		(City)	(County) (State) (Zip)	□ Yes □ No
	6. E	Date last normal menses began:/	Facility 7. Clinical estimation of gestational	•
		(Month/Day/Year)	completed in	eks
		Previous live births (enter a number or "none"): a. Live births now living:	<ol> <li>Previous terminations (enter a number or "none"):</li> <li>a. Spontaneous Abortions, Miscarriages, Stillbirths, Fetal</li> </ol>	Deaths:
TO		b. Live births now dead:	<ul> <li>b. Induced Abortions (Do NOT include this termination):</li></ul>	Deatilis
) RF	10.		rried	nership
2			d/Dissolution of Domestic Partnership	
COMPLETED BY PATIENT	11.	Education:		r's degree
U T		9th-12th grade; no diploma High school graduate or GED		ate or professional degree
	12.	Is patient of Hispanic origin?	13. Patient's race (select one or more):	•••••
Į		□ No, not Spanish/Hispanic/Latina	□ White □ Black or African American	
		□ Yes, Mexican, Mexican-American, Chicano	American Indian or Alaska Native	
		<ul> <li>Yes, Puerto Rican</li> <li>Yes, Cuban</li> </ul>	(specify tribe(s)): Asian Indian	<u> </u>
NT		Yes, other Hispanic Origin	□ Japanese □ Korean □ Vietna	
		(specify):	Other Asian (specify):	
			□ Native Hawaiian □ Samoan □ Guam. □ Other Pacific Islander (specify):	anian or Chamorro
			Other (specify):	
				•••••••••••••••••••••••••••••••••••••••
	14.	Was birth control being used at the time patient If yes, specify method(s) below (check all that a		
		□ Birth Control Pill □ Hormone Implant □		Rhythm NuvaRing
		□ Non-surgical sterilization; e.g., Essure	Emergency Contraception	., Depo-Provera
		Other (specify):		
	15.	Name of facility where termination occurred:		
	16.	Location of termination:	× ×	
		(City)	(County) (State)	(Zip)
	17.	Primary procedure that terminated this pregnan		- (-)
		<ul> <li>□ Suction Curettage</li> <li>□ Medical – Mifepristo</li> <li>□ Dilation and Evacuation (D &amp; E) </li> <li>□ Vagin</li> </ul>		n(s): Hysterotomy/Hysterectomy
		□ Other (specify):		.,, is to
	19		all that apply):	
	10.	Other procedures used for this termination (che Suction Curettage Medical – Mifepristo		n(s):
				Hysterotomy/Hysterectomy
		□ None □ Other (specify):		
20	19	Was follow-up visit recommended?	□ No 20. Was post-operative/after-care information provi	ded? □Yes □No
		·····	······	
M D	21.	Were there complications at the time of the pr If yes, specify complications (check all that app		
M D		□ Hemorrhage □ Infection	Uterine perforation Cervical lacera	ition
M D		□ Retained products □ Failure of first	st method	
M D			up visit occurred <b>at this facility</b> ?	
M D	22.	At time of completion of this report, had follow-u		
MDI ETEN BV FACII IT		If yes, specify complications (check all that app	oly):	
MDI ETEN BV FACII IT		<b>If yes,</b> specify complications (check all that app a. Complications:		wn
		If yes, specify complications (check all that app	Uterine perforation     Cervical lacera	wn
MBI ETED BY EACII ITY	22a	If yes, specify complications (check all that app a. Complications: None Hemorrhage Infection Retained products Failure of first	Uterine perforation Cervical lacera	wn ution
MBI ETED BY EACII ITY	22a	If yes, specify complications (check all that app a. Complications: None Hemorrhage Infection Retained products Failure of first	Uterine perforation Cervical lacera st method Other (specify): -up visit occurred <b>outside this facility?</b> Yes No	wn ution
MDI ETEN BY FACILITY	22a  23.	If yes, specify complications (check all that app . Complications: None Hemorrhage Infection Retained products Failure of first At time of completion of this report, had follow-	Uterine perforation Cervical lacera st method Other (specify): -up visit occurred <b>outside this facility?</b> Yes No	wn ution
MDI ETEN BY FACILITY	22a  23.	If yes, specify complications (check all that app . Complications: . None Hemorrhage Infection . Retained products Failure of first At time of completion of this report, had follow- If yes, specify location of follow-up visit: . Type of location of follow-up visit:	Uterine perforation Cervical lacera st method Other (specify): -up visit occurred <b>outside this facility?</b> Yes No	wn ution
MDI ETED BY FACILITY	22a  23. 23a	If yes, specify complications (check all that app a. Complications: A. None Hemorrhage Infection Retained products Failure of first At time of completion of this report, had follow- If yes, specify location of follow-up visit AND sp b. Type of location of follow-up visit: Physician's Office Clinic D b. Complications:	Uterine perforation Cervical lacera st method Other (specify): up visit occurred <b>outside this facility</b> ? Yes No pecify complications (check all that apply): Hospital Unknown Other (specify):	wn tion Unknown
MDI ETED BY FACILITY	22a  23. 23a	If yes, specify complications (check all that app . Complications: . None	Uterine perforation Cervical lacera ts method Other (specify):  -up visit occurred <b>outside this facility?</b> Yes No pecify complications (check all that apply): Hospital Unknown Other (specify): Uterine perforation Cervical lacera	wn tion Unknown

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.)

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

			He			FOR HEALTH S		136-		
LOO	CAL ICIAL	Local file numbe	<sup>r</sup> APPLICATIC	ON, LICENS	E, AND License eff on or after	ective	D OF MAR	License expi (month, day,	State file number res year):	
DADTY AL		PARTY A is (che	ck one): Groom	Bride 🗌 Spouse	1					
PARTY A: Groom,		1a. Legal name: F	irst		Middl	e l		Last		
Bride or Spouse		1b. Legal name at	birth (if different):			1c. Previous na	ume (if different):			
		2. Birthplace (stat	e or foreign country):	3. Date of	birth (month,	day, year):		4. Age (18 or a	older, 17 with consent):	
RM	ГΥΑ	5. Sex:	6. Occupation:			7	. Previous marita	l status <i>(single,</i>	widowed, divorced):	
CONSENT FORM WAIVER	PARTY	8a. Father's name	(first, middle, legal surna	me prior to first ma	rriage):	8	b. Birthplace (sta	te or foreign co	untry):	
CONSI WALVI			e (first, middle, legal surn				b. Birthplace (sta			
		10a. Address: Stre	et and number	Cit	ty or town	State/c	ountry	ZIP	10b. County of residence:	
		11. Legal name tak	ken after marriage: First		Middl	e		Last		
PARTY B: Groom,		PARTY B is (che 12a. Legal name:		Bride 🗌 Spouse	Middl	e l		Last		
Bride or Spouse		12b. Legal name a	t birth (if different):			12c. Previous r	name (if different)	:		
		13. Birthplace (sta	te or foreign country):	14. Date of	birth (month	day, year):		15. Age (18 or	older, 17 with consent):	
ORM		16. Sex:         17. Occupation:					18. Previous marital status (single, widowed, divorced):			
CONSENT FORM WAIVER	PARTY	19a. Father's name (first, middle, legal surname prior to first marriage):					19b. Birthplace (state or foreign country):			
CONSENT		20a. Mother's name (first, middle, legal surname prior to first marriage):					20b. Bittinhace (state or foreign country):			
		21a. Address: Stre	et and number	Ci	ty or town	State/c	country	ZIP	21b. County of residence:	
		22. Legal name ta	ken after marriage: First		Midd			Last		
AFFIDAVIT OF AGE			name and address of affi				/			
	5		name and address of affi							
SIGNATURES		the laws of this s 25. Party A's lega			to the best		ge and bellef an egal signature:	a that we are j	Date:	
		Neither vou nor 1	your spouse is the prope	rty of the other. N	e laws of the	State of Orego	on affirm your ris	eht to enter int	o marriage and.	
LICENSE TO	╞	at the same time, This license auth	to live within the marri orizes the marriage in the	age free from viole	ence and abu	se.				
MARRY		under the laws of 27. Date license is	the State of Oregon. sued: 28. Sig	nature of issuing of	fficial:			29. Title of is	suing official:	
CEREMONY	$\geq$	30a. Date of marriage:       30b. Where married (city, town or location):         31a. I certify that the above named person were married on the date listed above (30a). : performing ceremony (officiant):				tion):		30c. County:		
DFFICIAL USE ONLY						bove (30a). Sigr	Signature of person 31b. Title:			
S I		* 31c. Name and address of officiant (person performing ceremony): 31d. Name and add				me and address	of authorizing rel	ligious congrega	ation/organization of officiant:	
CIA		Name:	· · · · ·			ame:	5			
1 L		Address:				dress:				
-		Phone:				ione:				
		32. Witness name	(print):		Pi	33. Witness n	ame (print):			
	$\geq$	34. Signature of co	ounty official:			1	35. Date filed b	by county offici	al (month, day, year):	
OFFICIAL	<u> </u>	•								

 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):

	38. Number of this marriage — first, second, etc. (specify below):	<ol> <li>If previously married, the date a marriage ended:</li> <li>By death, divorce, dissolution or annulment (specify below):</li> </ol>	Date	40: Race — OPTIONAL such as Asian, American Indian, African Americian, White, etc. (specify below):	41. Education (spec highest grade c Elementary/ Secondary (0–12):	le completed): College	
PARTY A	38a.	39a.	39b.	40a.	41a.		
PARTY B	38b.	39c.	39d.	40b.	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). 45-4 (4 45-4 (4/14) ORIGINAL - VITAL RECORDS COPY

## Appendix D: Sample form — Declaration of Oregon Registered Domestic Partnership

file nun	<sup>nber</sup> <b>Declaration of</b>	Oregon Regis	tered Do	omestic	Partners	ship	State file nu
Γ	This declaration of domestic	0 0					e valid.
	1. Partner A – Legal name: First	Middle			Last		
	2. Surname at birth (if different than current a	legal name):		3. Other lega	l surnames used:		
Γ	4. Birthplace (state or foreign country):	5. Date of birth (mo	nth, day, year):		6. Age (18	or older):	
Partner A	7. Sex: 8. Current status (never mat	rried, widowed, divorced):	9a. Resident co	ounty:	9b. Resider	nt state:	
Ра	9c. Mailing address: Number and street	City or to	wn		State	Country	ZIP co
	10. Partner A legal name taken after domestic	partnership: First	Ν	Aiddle	Last		
>	11. Partner B – Legal name: First	Middle			Last		
	12. Surname at birth (if different than current			12 Other lag	al surnames used:		
		-		13. Other leg			
Partner B	14. Birthplace (state or foreign country):	15. Date of birth (m	onth, day, year):		16. Age (18	8 or older):	
urtne	17. Sex: 18. Current status (never me	arried, widowed, divorced):	19a. Resident o	county:	19b. Reside	ent state:	
Pa	19c. Mailing address: Number and street	City or to	wn		State	Country	ZIP co
	20. Partner B legal name taken after domestic	partnership: First	N	Aiddle	Last		
>	I acknowledge that: I am entering into a dom in Oregon and am otherwise capable to enter no material omissions of fact to the best of m obtain a judgment of dissolution or annulmer proceeding related to the partners' rights and Signature partner A (current name)	estic partnership with the par into this relationship. I decla y knowledge and belief. I co t of the domestic partnership	ty listed above ( <i>l</i> ) re the information nsent to the juristo o or for legal sepa oth partners cease	n and represent diction of the curation of the part e to reside in or	n at least 18 years o ations contained he ircuit courts of Oreg urtners in the domes	erein are true, con gon for the purpo tic partnership, o cile in this state.	rect and conta se of an action or for any othe
>	in Oregon and am otherwise capable to enter no material omissions of fact to the best of m obtain a judgment of dissolution or annulmer proceeding related to the partners' rights and Signature partner A (current name) county of	estic partnership with the par into this relationship. I decla y knowledge and belief. I co t of the domestic partnership obligations, even if one or b <u>pr</u> . 	ty listed above ( <i>l</i> re the informatio nsent to the jurisa or for legal sepa oth partners cease <b>the</b> nent was acknow	n and represent diction of the curation of the part e to reside in or State of owledged befor	n at least 18 years o ations contained he reuit courts of Oreg rtners in the domes to maintain a domi	rein are true, cor gon for the purpo tic partnership, c cile in this state.	rect and conta use of an actio or for any othe
>	in Oregon and am otherwise capable to enter no material omissions of fact to the best of m obtain a judgment of dissolution or annulmer proceeding related to the partners' rights and Signature partner A (current name)	estic partnership with the par into this relationship. I decla y knowledge and belief. I co t of the domestic partnership obligations, even if one or b <u>pr</u> . 	ty listed above ( <i>l</i> re the informatio nsent to the jurisa or for legal sepa oth partners cease <b>the</b> nent was acknow	n and represent diction of the curation of the part e to reside in or State of owledged befor	n at least 18 years o ations contained he reuit courts of Oreg rtners in the domes to maintain a domi	rein are true, cor gon for the purpo tic partnership, c cile in this state.	rect and conta use of an actio or for any othe
ries	in Oregon and am otherwise capable to enter no material omissions of fact to the best of m obtain a judgment of dissolution or annulmer proceeding related to the partners' rights and Signature partner A (current name) county of	estic partnership with the par into this relationship. I decla y knowledge and belief. I co t of the domestic partnership obligations, even if one or b <u>pr</u> . 	ty listed above ( <i>l</i> re the informatio nsent to the jurisa or for legal sepa oth partners cease <b>the</b> nent was acknow	n and represent diction of the curation of the part e to reside in or State of owledged befor	n at least 18 years o ations contained he reuit courts of Oreg rtners in the domes to maintain a domi-	rein are true, cor gon for the purpo tic partnership, c cile in this state.	rect and conta use of an actio or for any othe
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Signatures/notaries	in Oregon and am otherwise capable to enter no material omissions of fact to the best of m obtain a judgment of dissolution or annulmer proceeding related to the partners' rights and Signature partner A (current name) county of by Signature of notarial officer:	stic partnership with the par into this relationship. I decla y knowledge and belief. I co t of the domestic partnership obligations, even if one or be 	ty listed above () re the information scent to the jurisic o or for legal sepa oth partners cease the ment was acknow (s) of person(s))	n and represent diction of the critication of the critication of the pre- to reside in or	n at least 18 years o ations contained he recuit courts of Oreg rtners in the domes to maintain a domi ore me on n at least 18 years o atations contained h ircuit courts of Oreg artners in the domes	rein are true, cor gon for the purpo- tic partnership, 6 cile in this state.	rect and conta se of an actio r for any othe (date ay partner resi prect and con ose of an actio or for any oth
Signatures/notaries	in Oregon and am otherwise capable to enter no material omissions of fact to the best of m obtain a judgment of dissolution or annulmer proceeding related to the partners' rights and Signature partner A (current name) county of by Signature of notarial officer: My commission expires: I acknowledge that: I am entering into a dom in Oregon; and am otherwise capable to ente no material omissions of fact to the best of m obtain a judgment of dissolution or annulmer	stic partnership with the par into this relationship. I decla y knowledge and belief. I co t of the domestic partnership obligations, even if one or b 	ty listed above () re the information scent to the jurisic o or for legal sepa oth partners cease the ment was acknow (s) of person(s))	n and represent diction of the cr ration of the pr e to reside in or 	n at least 18 years o ations contained he recuit courts of Oreg rtners in the domes to maintain a domi ore me on n at least 18 years o atations contained h ircuit courts of Oreg artners in the domes	rein are true, cor gon for the purpo- tic partnership, c cile in this state.	rect and contrase of an action se of an action of any other rectance of the second sec
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#### The information below is optional and will not appear on certified copies of the RECORD.

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

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

HCoregon PUBLIC HEALT Center for Healt	
	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: Dissolution of marriage Annulment Dissolution of registered domestic partnership(RDP)
Spouse /	1. Spouse/Partner A – Legal name: (first, middle, last, suffix) 2. Last name at birth: (not required for RDP)
Partner A	3. Residence or legal address: (street and number) (city or town) (county) (state)
	4. Other legal last names used:
L	5. Date of birth: (mm/dd/yyyy)       6. Birthplace: (state, territory or foreign country)
Spouse /	7. Spouse/Partner B – Legal name: (first, middle, last, suffix) 8. Last name at birth: (not required for RDP)
Partner B	9. Residence or legal address: (street and number) (city or town) (county) (state)
	10. Other legal last names used:
L	11. Date of birth: (mm/dd/yyyy)     12. Birthplace: (state, territory or foreign country)
Marriage /	13. Date of marriage / filing of RDP declaration: (mm/dd/yyyy) 14 Date couple last resided in same household: (mm/dd/yyyy)
Declaration	15a.Place of marriage/RDP: (city, town or location) 15b.County: 15b.State of foreign country:
	16. Number of children under 18 in this household as of the date in tem 14// 17. Petitioner:
	Number: None 🗌 🖌 🗌 Spouse/Partner A 🗌 Spouse/Partner B 🗌 Both
Attorney	18a.Name of petitioner's attorney: (print)       18b. Address: (street and number or rural route number, city or town, state, ZIP code)
	19a.Name of respondent's attorney: (print) 19b. Address: (Street and number or rural route number, city or town, state, ZIP code)
Judgment	20. Marriage/RDP declaration of the above named persons was dissolved on: (mm/dd/yyyy) 21. Date judgment becomes effective: (mm/dd/yyyy)
	22. Number of children under 18 whose physical sustory was awarded to:
	Spouse/Partner ASpouse/Partner BJoint (shared custody)Other (specify)
	23. County of decree.
	25. Signature of court official:       26. Title of court official:       27. Date signed: (mm/dd/yyyyy)

-	Information b	formation below will not appear on the certified copies of the record.							
	28. Spouse A's Social Security number: (not required for RDP)				RDP)	29. Spouse B's Social Security number: (not required for RDP)			
	30. Number of this marriage/RDP – first, second, etc. Marriage RDP		31. If previously marrie RDP date last marr ended:		32. Hispanic ori Cuban, Mex Puerto Rica	ican,		<ol> <li>Education – Spe grade completed</li> </ol>	
Į.			By death, divorce, dissolution or annulment (specify below)	Date: (mm/dd/yyyy)	List all that apply (s below)	pecify	List all that apply (specify below)	Elementary/Secondary: (grades 0-12)	College: (1-4 or 5+)
	30a.	30b.	31a.	31b.	32a.		33a.	34a.	34b.
Spouse / Partner A									
Spouse / Partner B	30c.	30d.	31c.	31d.	32b.		33b.	34c.	34d.
_		<u>.</u>							45-12 (08/14)

# Do you want Oregon's most Up-to-date info

available from the

**Center for Health Statistics?** 

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

Check out our

# website

https://www.oregon.gov/oha/PH/BirthDeathCertificates/ VitalStatistics/

Are you looking for a specific table or report?

## Vital Reports Data

- Births Adequacy of prenatal care \*Final method of delivery by facility
- Deaths Manner of death \*Age of decedent by county and ZIP code

TeenPregnancy rates by county of residencePregnancy\*Rolling pregnancy rate for past 12 months<br/>by county of residence

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

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



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