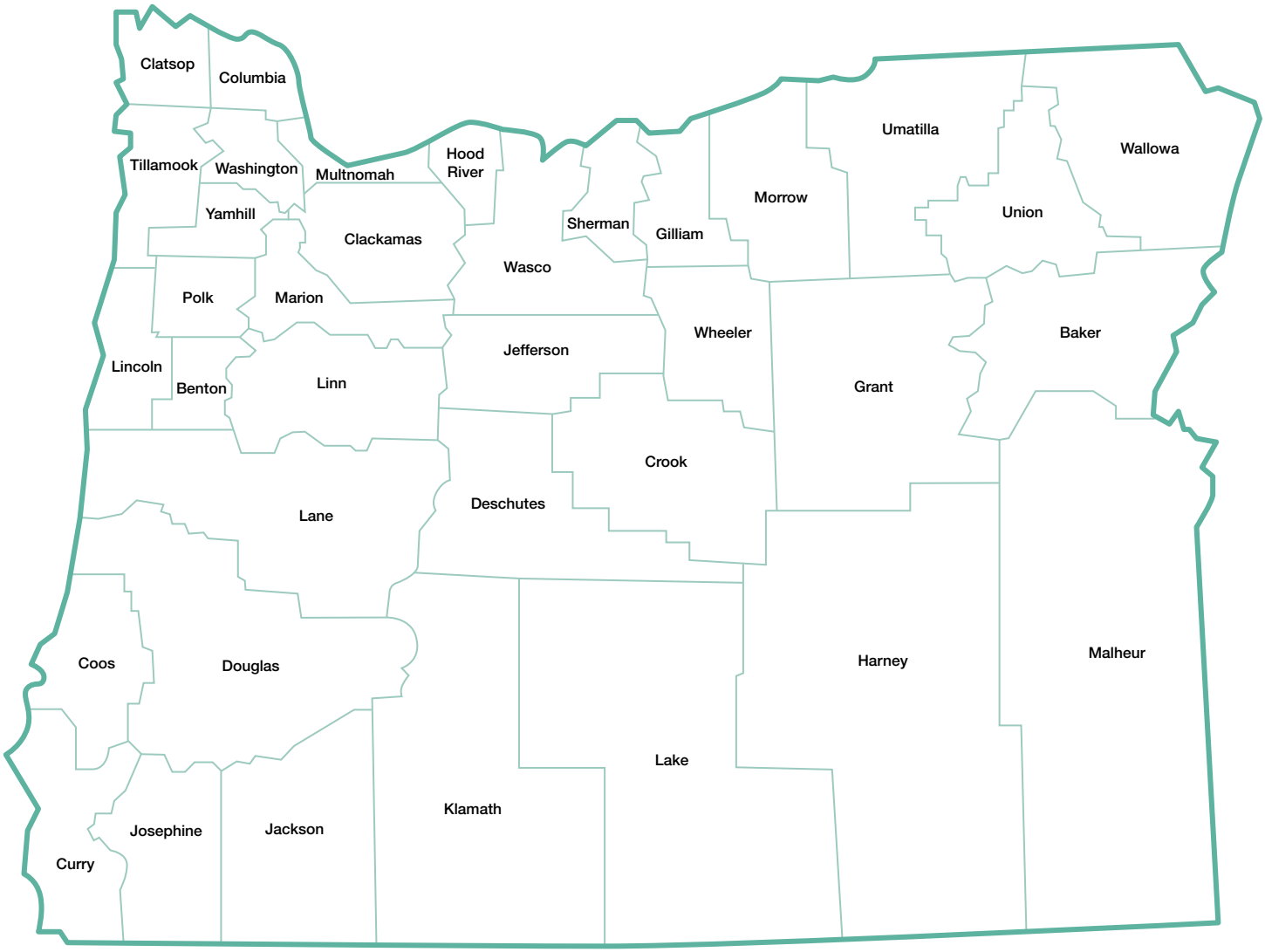
# Oregon Vital Statistics Annual Report 2017

## Volume 2

- Mortality
- Fetal and infant mortality

Oregon Health Authority
PUBLIC HEALTH DIVISION
Center for Public Health Practice
Center for Health Statistics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# Preface

## "What's past is prologue … "

Sometimes the best way to determine what direction to take is to look at where we are and back at where we have been. This is as true in matters of public health as it is in navigation. Vital events — births, deaths, marriage, divorce — chart the course Oregonians take throughout their lives. In today's complex society, using this information for careful policy and resource planning is becoming more important than it has ever been.

Each year the Oregon Health Authority's Center for Health Statistics publishes the Oregon Vital Statistics Annual Report, an analytical look at the health of Oregon as measured by the health of its citizens. By this means, policy makers and health professionals have a source of important knowledge that can be used to form the basis for action and benchmarks for assessing progress.

## Structure of the report

To improve ease of use and timeliness, the 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 is available, as are a variety of year-to-date preliminary data on deaths, births, abortions and teen pregnancy at the Center for Health Statistics (CHS) website:

*http://public.health.oregon.gov/BirthDeathCertificates/VitalStatistics/annualreports/Pages/index.aspx*.

Additional data are available in the form of simple cross-tabulations. For information on availability or to request the data, call the Center for Health Statistics as listed on the previous credits page.

The more significant demographic and public health issues are discussed in the narrative sections that open each chapter. These narratives are accompanied by charts, graphs and sidebar tables. Readers can research their own areas of interest by using the tables following the chapter narratives.

## A cooperative effort

The presentation of data in this report is the final stage of a long, ongoing process that begins with the prompt, accurate recording of vital events. This registration system ensures that the information is collected, kept secure, and made available to individuals and their families when needed for documentation. Tabulations and analyses of the data by the Oregon Center for Health Statistics provide useful information about the health and social changes occurring in Oregon.

Vital statistics has been called "the eyes and ears of public health," and is, in fact, the only organized system of health records covering the entire population. The collection of data is a highly cooperative effort that depends on the participation of a great many people throughout the state.

### The providers of services

Those who provide the services associated with vital events are the first participants in the collection system.

The birth attendant completes both the legal document and the confidential statistical section of the birth certificate. For deaths, the funeral director or person who first assumes responsibility for the body files the death or fetal death certificate. A physician completes the medical portion of these death certificates, except in cases of found bodies and those deaths due to external or "non-natural" causes, which are certified by medical examiners. Hospital medical records personnel help to ensure that all certificates are complete and accurate.

These service providers then file the completed certificates using a web-based system that transmits the records to the county and state registrar simultaneously.

Abortions are treated differently. The providers of induced 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 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, policymakers and health professionals have a source of important knowledge to help form the basis for action and benchmarks for assessing progress. Volume 2 of the report includes data on deaths (all ages) and perinatal deaths.

| SUMMARY OF VITAL STATISTICS, VOLUME 2 | | |
|---|---|---|
| **Vital statistic** | 2017 | 2016 |
| **Population** | 4,141,000 | 4,076,350 |
| **Deaths** | | |
| Number | 36,640 | 35,799 |
| Crude death rate | 8.8 | 8.8 |
| **Infant deaths** | | |
| Number | 236 | 211 |
| Rate | 5.4 | 4.6 |
| **Neonatal deaths** | | |
| Number | 157 | 148 |
| Rate | 3.6 | 3.3 |
| **Maternal deaths** | | |
| Number | 12 | 8 |
| Rate | 27.5 | 17.6 |
| | | |

NOTE: Data are for Oregon residents. Crude death rates are per 1,000 population; infant and neonatal rates are per 1,000 live resident births; maternal death rates are per 100,000 live resident births.

# Table of contents

# Table of contents

# Appendices

# SECTION 5: QUICK REFERENCE (VOLUME 2)

# Quick reference (Volume 2)

| Summary of Oregon vital events, 2017 | | |
|---|---|---|
| **Population** | 4,141,000 | The population increased 64,650, or 1.6%, since 2016. |
| | | |
| **Deaths**<br>Number<br>Rate | **Residents**<br>36,640<br>8.8 | The number of deaths decreased by 841.<br>The rate was unchanged. |
| | | |
| **Infant deaths**<br>Number<br>Rate | **Residents**<br>236<br>5.4 | The number of infant deaths increased by 25.<br>The rate increased by 17.4%. |
| | | |
| **Neonatal deaths**<br>Number<br>Rate | **Residents**<br>157<br>3.6 | The number of neonatal deaths increased by nine.<br>The rate increased by 9.1%. |
| | | |
| **Maternal deaths**<br>Number<br>Rate | **Residents**<br>12<br>27.5 | Oregon's average maternal death rate for 2013–17 was 20.1.<br>Oregon's average maternal death rate for 2012–16 (17.6) was 38.0% lower than the average U.S. rate[1] (28.4). |
| | | |

[1] National Center for Health Statistics (NCHS) National Vital Statistics Reports, final 2012-2016, are the most recent available.

NOTE: Crude death rates are per 1,000 population; infant and neonatal rates per 1,000 live resident births; maternal death rates per 100,000 live resident births. In 2006, the method of calculating maternal death changed to include a longer time frame after the birth.

**TABLE 5-1. Deaths, maternal deaths, infant deaths, neonatal deaths and fetal deaths, U.S., 1945-2016[1]**

| Year | Deaths | | Maternal deaths[3] | | Infant deaths[5] | | Neonatal deaths[7] | | Fetal deaths[8] | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Rate[2] | Number | Rate[4] | Number | Rate[6] | Number | Rate[6] | Number | Ratio[6] |
| 1945 ..... | 1,401,719 | 10.6 | 5,668 | 207.2 | 104,684 | 38.3 | 66,593 | 24.3 | 65,513 | 23.9 |
| 1946 ..... | 1,395,617 | 10.0 | 5,153 | 156.7 | 111,063 | 33.8 | 79,079 | 24.0 | 74,849 | 22.8 |
| 1947 ..... | 1,445,370 | 10.1 | 4,978 | 134.5 | 119,173 | 32.2 | 84,296 | 22.8 | 77,917 | 21.1 |
| 1948 ..... | 1,444,337 | 9.9 | 4,122 | 116.6 | 113,169 | 32.0 | 78,426 | 22.2 | 72,838 | 20.6 |
| 1949 ..... | 1,443,607 | 9.7 | 3,216 | 90.3 | 111,531 | 31.3 | 76,326 | 21.4 | 70,584 | 19.8 |
| 1950 ..... | 1,452,454 | 9.6 | 2,960 | 83.3 | 103,825 | 29.2 | 72,855 | 20.5 | 68,262 | 19.2 |
| 1951 ..... | 1,482,099 | 9.7 | 2,812 | 75.0 | 106,702 | 28.4 | 75,192 | 20.0 | 70,569 | 18.8 |
| 1952 ..... | 1,496,838 | 9.6 | 2,610 | 67.8 | 109,413 | 28.4 | 76,253 | 19.8 | 70,447 | 18.3 |
| 1953 ..... | 1,517,541 | 9.6 | 2,385 | 61.1 | 108,405 | 27.8 | 76,332 | 19.6 | 69,393 | 17.8 |
| 1954 ..... | 1,481,091 | 9.2 | 2,105 | 52.4 | 106,791 | 26.6 | 76,724 | 19.1 | 70,109 | 17.5 |
| 1955 ..... | 1,528,717 | 9.3 | 1,901 | 47.0 | 106,903 | 26.4 | 77,351 | 19.1 | 69,153 | 17.1 |
| 1956 ..... | 1,564,476 | 9.4 | 1,702 | 40.9 | 108,183 | 26.0 | 78,659 | 18.9 | 68,659 | 16.5 |
| 1957 ..... | 1,633,128 | 9.6 | 1,746 | 41.0 | 112,094 | 26.3 | 81,088 | 19.1 | 69,561 | 16.3 |
| 1958 ..... | 1,647,886 | 9.5 | 1,581 | 37.6 | 113,789 | 27.1 | 81,798 | 19.5 | 69,355 | 16.5 |
| 1959 ..... | 1,656,814 | 9.4 | 1,588 | 37.4 | 112,008 | 26.4 | 80,778 | 19.0 | 68,613 | 16.2 |
| 1960 ..... | 1,711,982 | 9.5 | 1,579 | 37.1 | 110,873 | 26.0 | 79,733 | 18.7 | 68,480 | 16.1 |
| 1961 ..... | 1,701,522 | 9.3 | 1,573 | 36.9 | 107,956 | 25.3 | 78,482 | 18.4 | 68,767 | 16.1 |
| 1962 ..... | 1,756,720 | 9.5 | 1,465 | 35.2 | 105,479 | 25.3 | 76,346 | 18.3 | 66,421 | 15.9 |
| 1963 ..... | 1,813,549 | 9.6 | 1,466 | 35.8 | 103,390 | 25.2 | 74,648 | 18.2 | 64,640 | 15.8 |
| 1964 ..... | 1,798,051 | 9.4 | 1,343 | 33.3 | 99,783 | 24.8 | 72,026 | 17.9 | 65,931 | 16.4 |
| 1965 ..... | 1,828,136 | 9.4 | 1,189 | 31.6 | 92,866 | 24.7 | 66,419 | 17.7 | 60,859 | 16.2 |
| 1966 ..... | 1,863,149 | 9.5 | 1,049 | 29.1 | 85,516 | 23.7 | 61,941 | 17.2 | 56,637 | 15.7 |
| 1967 ..... | 1,851,323 | 9.4 | 987 | 28.0 | 79,028 | 22.4 | 58,127 | 16.5 | 54,934 | 15.6 |
| 1968 ..... | 1,930,082 | 9.7 | 859 | 24.5 | 76,263 | 21.8 | 56,456 | 16.1 | 55,293 | 15.8 |
| 1969 ..... | 1,921,990 | 9.5 | 801 | 22.2 | 75,073 | 20.9 | 56,085 | 15.6 | 50,749 | 14.1 |
| 1970 ..... | 1,921,031 | 9.5 | 803 | 21.5 | 74,667 | 20.0 | 56,279 | 15.1 | 52,961 | 14.2 |
| 1971 ..... | 1,927,542 | 9.3 | 668 | 18.8 | 67,981 | 19.1 | 50,496 | 14.2 | 47,818 | 13.4 |
| 1972 ..... | 1,963,944 | 9.4 | 612 | 18.8 | 60,182 | 18.5 | 44,432 | 13.6 | 41,380 | 12.7 |
| 1973 ..... | 1,973,003 | 9.3 | 477 | 15.2 | 55,581 | 17.7 | 40,664 | 13.0 | 38,309 | 12.2 |
| 1974 ..... | 1,934,388 | 9.1 | 462 | 14.6 | 52,776 | 16.7 | 38,738 | 12.3 | 36,281 | 11.5 |
| 1975 ..... | 1,892,879 | 8.8 | 403 | 12.8 | 50,525 | 16.1 | 36,416 | 11.6 | 33,796 | 10.7 |
| 1976 ..... | 1,909,440 | 8.8 | 390 | 12.3 | 48,265 | 15.2 | 34,587 | 10.9 | 33,111 | 10.5 |
| 1977 ..... | 1,899,597 | 8.6 | 373 | 11.2 | 46,975 | 14.1 | 32,860 | 9.9 | 33,052 | 9.9 |
| 1978 ..... | 1,927,788 | 8.7 | 321 | 9.6 | 45,945 | 13.8 | 31,618 | 9.5 | 32,301 | 9.7 |
| 1979 ..... | 1,913,841 | 8.5 | 336 | 9.6 | 45,665 | 13.1 | 30,980 | 8.9 | 32,969 | 9.4 |
| 1980 ..... | 1,989,841 | 8.8 | 334 | 9.2 | 45,526 | 12.6 | 30,618 | 8.5 | 33,353 | 9.2 |
| 1981 ..... | 1,977,981 | 8.6 | 309 | 8.5 | 43,305 | 11.9 | 28,000 | 7.8 | 32,596 | 9.0 |
| 1982 ..... | 1,974,797 | 8.5 | 292 | 7.9 | 42,401 | 11.5 | 28,000 | 7.6 | 32,694 | 8.9 |
| 1983 ..... | 2,019,201 | 8.6 | 290 | 8.0 | 40,627 | 11.2 | 26,507 | 7.3 | 30,752 | 8.5 |
| 1984 ..... | 2,039,369 | 8.6 | 285 | 7.8 | 39,580 | 10.8 | 25,691 | 7.0 | 30,099 | 8.2 |
| 1985 ..... | 2,086,440 | 8.7 | 295 | 7.8 | 40,030 | 10.6 | 26,179 | 7.0 | 29,661 | 7.9 |
| 1986 ..... | 2,105,361 | 8.7 | 272 | 7.2 | 38,891 | 10.4 | 25,212 | 6.7 | 28,972 | 7.7 |
| 1987 ..... | 2,123,323 | 8.7 | 251 | 6.6 | 38,380 | 10.0 | 24,940 | 6.5 | 29,349 | 7.7 |
| 1988 ..... | 2,167,999 | 8.8 | 330 | 8.4 | 38,910 | 10.0 | 24,690 | 6.3 | 29,442 | 7.5 |
| 1989 ..... | 2,150,466 | 8.7 | 320 | 7.9 | 39,655 | 9.8 | 24,800 | 6.2 | 30,469 | 7.5 |
| 1990 ..... | 2,148,463 | 8.6 | 343 | 8.2 | 38,351 | 9.2 | 23,920 | 5.8 | 31,386 | 7.5 |
| 1991 ..... | 2,169,518 | 8.6 | 323 | 7.9 | 36,766 | 8.9 | 22,978 | 5.6 | 30,160 | 7.3 |
| 1992 ..... | 2,175,613 | 8.5 | 318 | 7.8 | 34,628 | 8.5 | 21,849 | 5.4 | 30,256 | 7.4 |

See footnotes at end of table.

**TABLE 5-1. Deaths, maternal deaths, infant deaths, neonatal deaths and fetal deaths, U.S., 1945-2016[1] — Continued**

| Year | Deaths | | Maternal deaths[3] | | Infant deaths[5] | | Neonatal deaths[7] | | Fetal deaths[8] | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Rate[2] | Number | Rate[4] | Number | Rate[6] | Number | Rate[6] | Number | Ratio[6] |
| 1993 ..... | 2,268,553 | 8.8 | 302 | 8.0 | 33,466 | 8.0 | 21,174 | 5.0 | 28,766 | 7.0 |
| 1994 ..... | 2,278,994 | 8.8 | 328 | 8.3 | 31,710 | 8.0 | 20,250 | 5.1 | 27,937 | 7.1 |
| 1995 ..... | 2,312,132 | 8.8 | 277 | 7.1 | 29,583 | 7.6 | 19,155 | 4.9 | 27,294 | 7.0 |
| 1996 ..... | 2,314,690 | 8.7 | 294 | 7.6 | 28,487 | 7.3 | 18,572 | 4.8 | 27,069 | 7.0 |
| 1997 ..... | 2,314,245 | 8.7 | 327 | 8.4 | 28,045 | 7.2 | 18,524 | 4.8 | 26,486 | 6.8 |
| 1998 ..... | 2,338,070 | 8.7 | 281 | 7.1 | 28,496 | 7.2 | 18,832 | 4.8 | 26,702 | 6.7 |
| 1999 ..... | 2,391,399 | 8.8 | 406 | 9.9 | 27,937 | 7.1 | 18,728 | 4.7 | 26,884 | 6.7 |
| 2000 ..... | 2,403,351 | 8.7 | 404 | 9.8 | 28,035 | 6.9 | 18,776 | 4.6 | 27,003 | 6.6 |
| 2001 ..... | 2,416,425 | 8.5 | 416 | 9.9 | 27,568 | 6.8 | 18,265 | 4.5 | 26,373 | 6.5 |
| 2002 ..... | 2,443,387 | 8.5 | 379 | 9.4 | 28,034 | 7.0 | 18,747 | 4.7 | 25,943 | 6.4 |
| 2003 ..... | 2,448,288 | 8.4 | 495 | 12.1 | 28,025 | 6.9 | 18,893 | 4.6 | 25,653 | 6.2 |
| 2004 ..... | 2,397,615 | 8.2 | 540 | 13.1 | 27,936 | 6.8 | 18,593 | 4.5 | 25,655 | 6.2 |
| 2005 ..... | 2,448,017 | 8.3 | 623 | 15.1 | 28,440 | 6.9 | 18,770 | 4.5 | 25,894 | 6.2 |
| 2006 ..... | 2,426,264 | 8.1 | 760 | 17.8 | 28,527 | 6.7 | 18,989 | 4.5 | 25,972 | 6.1 |
| 2007 ..... | 2,423,712 | 8.0 | 769 | 17.8 | 29,138 | 6.8 | 19,058 | 4.4 | 26,593 | 6.1 |
| 2008 ..... | 2,471,984 | 8.1 | 795 | 18.7 | 28,059 | 6.6 | 18,211 | 4.3 | 26,335 | 6.2 |
| 2009 ..... | 2,437,163 | 7.9 | 960 | 23.2 | 26,412 | 6.4 | 17,255 | 4.2 | 24,872 | 6.0 |
| 2010 ..... | 2,468,435 | 8.0 | 825 | 20.6 | 24,586 | 6.1 | 16,188 | 4.0 | 24,258 | 6.0 |
| 2011 ..... | 2,515,458 | 8.0 | 931 | 23.5 | 23,985 | 6.1 | 16,035 | 4.1 | 24,289 | 6.1 |
| 2012 ..... | 2,543,279 | 8.1 | 990 | 25.1 | 23,629 | 6.0 | 15,850 | 4.0 | 24,073 | 6.1 |
| 2013 ..... | 2,596,993 | 8.2 | 1,138 | 28.9 | 23,440 | 6.0 | 15,867 | 4.0 | 23,595 | 6.0 |
| 2014 ..... | 2,626,418 | 8.2 | 1,123 | 28.2 | 23,215 | 5.8 | 15,720 | 3.9 | 23,893 | 6.0 |
| 2015 ..... | 2,712,630 | 8.4 | 1,140 | 28.7 | 23,455 | 5.9 | 15,652 | 3.9 | 23,703 | 6.0 |
| 2016 ..... | 2,744,248 | 8.5 | 1,231 | 31.2 | 23,161 | 5.9 | 15,282 | 3.9 | 23,880 | 6.1 |

[1] Most recent year for which final U.S. data available.
[2] Per 1,000 population.
[3] Prior to 2006, maternal deaths only included deaths that occurred during pregnancy or within 42 days of delivery. Since 2006, maternal deaths include deaths that occurred during pregnancy or within one year of delivery.
[4] Per 100,000 live births.
[5] Infant deaths occur in the first year of life.
[6] Per 1,000 live births.
[7] Neonatal deaths occur within the first 27 days of life.
[8] Includes fetuses with gestation of at least 20 weeks.

SOURCES: Vital Statistics of the United States, vols. 1-3 lists historical data. Recent data are available from the National Center for Health Statistics (NCHS) web site (www.cdc.gov/nchs).

**TABLE 5-2. Deaths, maternal deaths, infant deaths, neonatal deaths and fetal deaths, Oregon residents, selected years, 1910-2017**

| Year | Deaths | | Maternal deaths[1] | | Infant deaths[2] | | Neonatal deaths[3] | | Fetal deaths[4] | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Rate[5] | Number | Rate[6] | Number | Rate[7] | Number | Rate[7] | Number | Ratio[7] |
| 1910 ..... | 6,089 | 9.0 | 91 | 992.0 | 733 | 79.9 | – | – | – | – |
| 1915 ..... | 6,718 | 9.1 | 74 | 605.0 | 583 | 47.6 | – | – | – | – |
| 1920 ..... | 9,186 | 11.6 | 112 | 749.0 | 927 | 61.9 | – | – | – | – |
| 1925 ..... | 9,596 | 10.9 | 95 | 610.0 | 787 | 50.5 | – | – | – | – |
| 1930 ..... | 10,544 | 11.0 | 81 | 601.0 | 671 | 49.8 | – | – | 390 | 28.9 |
| 1935 ..... | 11,429 | 11.2 | 72 | 548.0 | 537 | 40.8 | – | – | 300 | 22.8 |
| 1940 ..... | 12,329 | 11.3 | 45 | 257.0 | 592 | 33.2 | 413 | 23.6 | 365 | 20.8 |
| 1945 ..... | 12,325 | 10.0 | 29 | 124.0 | 660 | 28.3 | 473 | 20.3 | 402 | 17.2 |
| 1950 ..... | 13,888 | 9.1 | 22 | 61.1 | 816 | 22.7 | 627 | 17.4 | 493 | 13.7 |
| 1955 ..... | 15,303 | 9.1 | 8 | 20.7 | 934 | 24.1 | 681 | 17.6 | 497 | 12.8 |
| 1960 ..... | 16,787 | 9.5 | 14 | 36.5 | 891 | 23.2 | 635 | 16.6 | 493 | 12.9 |
| 1961 ..... | 16,885 | 9.3 | 8 | 21.3 | 861 | 23.0 | 604 | 16.1 | 454 | 16.1 |
| 1962 ..... | 17,221 | 9.4 | 7 | 18.9 | 811 | 21.9 | 554 | 15.0 | 461 | 12.5 |
| 1963 ..... | 18,017 | 9.7 | 7 | 20.1 | 747 | 21.4 | 551 | 15.8 | 410 | 11.8 |
| 1964 ..... | 18,138 | 9.5 | 4 | 11.9 | 754 | 22.5 | 532 | 15.9 | 402 | 12.0 |
| 1965 ..... | 18,133 | 9.2 | 1 | 3.0 | 696 | 21.1 | 477 | 14.5 | 421 | 12.8 |
| 1966 ..... | 18,979 | 9.5 | 3 | 9.2 | 697 | 21.5 | 506 | 15.6 | 387 | 11.9 |
| 1967 ..... | 18,908 | 9.4 | 4 | 12.7 | 616 | 19.6 | 436 | 13.9 | 395 | 12.6 |
| 1968 ..... | 19,017 | 9.3 | 3 | 9.3 | 637 | 19.8 | 460 | 14.3 | 365 | 11.4 |
| 1969 ..... | 19,548 | 9.4 | 4 | 11.8 | 592 | 17.5 | 410 | 12.1 | 194 | § |
| 1970 ..... | 19,530 | 9.3 | 5 | 14.1 | 555 | 15.7 | 381 | 10.8 | 486 | 13.7 |
| 1971 ..... | 20,087 | 9.4 | 5 | 15.0 | 615 | 18.4 | 416 | 12.5 | 408 | 12.2 |
| 1972 ..... | 20,216 | 9.3 | 5 | 16.0 | 528 | 16.9 | 359 | 11.5 | 391 | 12.5 |
| 1973 ..... | 20,881 | 9.4 | 1 | 3.2 | 466 | 15.1 | 329 | 10.6 | 312 | 10.1 |
| 1974 ..... | 20,320 | 9.0 | 3 | 9.2 | 488 | 15.0 | 330 | 10.2 | 266 | 8.2 |
| 1975 ..... | 20,142 | 8.8 | 3 | 9.0 | 502 | 15.1 | 330 | 9.9 | 284 | 8.5 |
| 1976 ..... | 20,459 | 8.7 | 0 | 0.0 | 444 | 12.7 | 277 | 8.0 | 280 | 8.0 |
| 1977 ..... | 20,457 | 8.5 | 5 | 13.3 | 453 | 12.1 | 293 | 7.8 | 283 | 7.6 |
| 1978 ..... | 20,870 | 8.4 | 2 | 5.1 | 502 | 12.9 | 299 | 7.7 | 302 | 7.8 |
| 1979 ..... | 21,024 | 8.3 | 1 | 2.4 | 450 | 10.8 | 276 | 6.6 | 307 | 7.4 |
| 1980 ..... | 21,756 | 8.3 | 1 | 2.3 | 521 | 12.1 | 303 | 7.0 | 294 | 6.8 |
| 1981 ..... | 21,798 | 8.2 | 3 | 7.0 | 466 | 10.8 | 299 | 7.0 | 298 | 6.9 |
| 1982 ..... | 21,594 | 8.1 | 8 | 19.5 | 433 | 10.6 | 253 | 6.2 | 253 | 6.2 |
| 1983 ..... | 22,361 | 8.5 | 6 | 15.0 | 385 | 9.6 | 215 | 5.4 | 268 | 6.7 |
| 1984 ..... | 23,101 | 8.7 | 5 | 10.1 | 388 | 9.8 | 190 | 4.8 | 257 | 6.5 |
| 1985 ..... | 23,824 | 8.9 | 4 | 10.1 | 387 | 9.8 | 211 | 5.3 | 237 | 6.0 |
| 1986 ..... | 23,328 | 8.8 | 4 | 10.3 | 368 | 9.5 | 183 | 4.7 | 268 | 6.9 |
| 1987 ..... | 24,181 | 9.0 | 2 | 5.2 | 402 | 10.4 | 213 | 5.5 | 222 | 5.7 |
| 1988 ..... | 24,557 | 9.0 | 3 | 7.5 | 339 | 8.5 | 181 | 4.5 | 235 | 5.9 |
| 1989 ..... | 24,679 | 8.8 | 4 | 9.7 | 364 | 8.8 | 205 | 5.0 | 230 | 5.6 |
| 1990 ..... | 25,073 | 8.8 | 3 | 7.0 | 354 | 8.3 | 182 | 4.2 | 262 | 6.1 |
| 1991 ..... | 24,935 | 8.5 | 3 | 7.0 | 307 | 7.2 | 172 | 4.0 | 261 | 6.1 |
| 1992 ..... | 25,714 | 8.6 | 3 | 7.2 | 297 | 7.1 | 158 | 3.8 | 243 | 5.8 |
| 1993 ..... | 27,596 | 9.1 | 7 | 16.8 | 297 | 7.1 | 154 | 3.7 | 204 | 4.9 |
| 1994 ..... | 27,361 | 8.9 | 4 | 9.6 | 295 | 7.1 | 164 | 3.9 | 224 | 5.4 |
| 1995 ..... | 28,190 | 9.0 | 0 | 0.0 | 262 | 6.1 | 137 | 3.2 | 237 | 5.5 |
| 1996 ..... | 28,900 | 9.1 | 2 | 4.6 | 244 | 5.6 | 145 | 3.3 | 251 | 5.8 |
| 1997 ..... | 28,750 | 8.9 | 5 | 11.4 | 256 | 5.8 | 157 | 3.6 | 235 | 5.4 |

See footnotes at end of table.

**TABLE 5-2. Deaths, maternal deaths, infant deaths, neonatal deaths and fetal deaths, Oregon residents, selected years, 1910-2017 — Continued**

| Year | Deaths | | Maternal deaths[1] | | Infant deaths[2] | | Neonatal deaths[3] | | Fetal deaths[4] | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Rate[5] | Number | Rate[6] | Number | Rate[7] | Number | Rate[7] | Number | Ratio[7] |
| 1998 ..... | 29,346 | 9.0 | 5 | 11.1 | 246 | 5.4 | 143 | 3.2 | 208 | 4.6 |
| 1999 ..... | 29,356 | 8.9 | 3 | 6.6 | 261 | 5.8 | 191 | 4.2 | 216 | 4.8 |
| 2000 ..... | 29,541 | 8.6 | 4 | 8.7 | 255 | 5.6 | 165 | 3.6 | 201 | 4.4 |
| 2001 ..... | 30,128 | 8.7 | 3 | 6.6 | 245 | 5.4 | 158 | 3.5 | 205 | 4.5 |
| 2002 ..... | 31,082 | 8.9 | 3 | 6.6 | 260 | 5.8 | 172 | 3.8 | 222 | 4.9 |
| 2003 ..... | 30,813 | 8.7 | 1 | 2.2 | 256 | 5.6 | 173 | 3.8 | 184 | 4.0 |
| 2004 ..... | 30,201 | 8.4 | 6 | 13.1 | 252 | 5.5 | 178 | 3.9 | 184 | 4.0 |
| 2005 ..... | 30,854 | 8.5 | 3 | 6.5 | 270 | 5.9 | 177 | 3.9 | 170 | 3.7 |
| 2006 ..... | 31,304 | 8.5 | 9 | 18.5 | 269 | 5.5 | 183 | 3.8 | 177 | 3.6 |
| 2007 ..... | 31,433 | 8.4 | 9 | 18.2 | 278 | 5.6 | 192 | 3.9 | 181 | 3.7 |
| 2008 ..... | 32,020 | 8.4 | 5 | 10.2 | 252 | 5.1 | 155 | 3.2 | 212 | 4.3 |
| 2009 ..... | 31,547 | 8.3 | 7 | 14.8 | 228 | 4.8 | 157 | 3.3 | 216 | 4.6 |
| 2010 ..... | 31,899 | 8.3 | 4 | 8.8 | 225 | 4.9 | 153 | 3.4 | 181 | 4.0 |
| 2011 ..... | 32,731 | 8.5 | 10 | 22.2 | 210 | 4.7 | 141 | 3.1 | 186 | 4.1 |
| 2012 ..... | 32,475 | 8.4 | 7 | 15.5 | 239 | 5.3 | 163 | 3.6 | 206 | 4.6 |
| 2013 ..... | 33,931 | 8.7 | 12 | 26.6 | 225 | 5.0 | 156 | 3.5 | 189 | 4.2 |
| 2014 ..... | 34,160 | 8.6 | 9 | 19.8 | 234 | 5.1 | 158 | 3.5 | 191 | 4.2 |
| 2015 ..... | 35,709 | 8.9 | 4 | 8.8 | 233 | 5.1 | 150 | 3.3 | 186 | 4.1 |
| 2016 ..... | 35,799 | 8.8 | 8 | 17.6 | 211 | 4.6 | 148 | 3.3 | 184 | 4.0 |
| 2017 ..... | 36,640 | 8.8 | 12 | 27.5 | 236 | 5.4 | 157 | 3.6 | 185 | 4.2 |

– Data not available.
§ Incomplete total; ratio not calculated.
1 Prior to 2006, maternal deaths only included deaths that occurred during pregnancy or within 42 days of delivery. Since 2006, maternal deaths include deaths that occurred during pregnancy or within one year of delivery.
2 Infant deaths occur in the first year of life.
3 Neonatal deaths occur within the first 27 days of life.
4 Includes fetuses with birthweight of at least 350 grams or, if birthweight is unknown, gestation of at least 20 weeks.
5 Per 1,000 population.
6 Per 100,000 live births.
7 Per 1,000 live births.

## TABLE 5-3. Deaths, infant deaths, neonatal deaths and fetal deaths by county of residence, Oregon, 2017

| County of residence | Deaths | | Infant deaths | | Neonatal deaths | | Fetal deaths | |
|---|---|---|---|---|---|---|---|---|
| | Number | Rate[1] | Number | Rate[2] | Number | Rate[2] | Number | Ratio[3] |
| Total[4] | 36,640 | 8.8 | 236 | 5.4 | 157 | 3.6 | 185 | 4.2 |
| Baker | 208 | *12.4 | 1 | 6.4 | – | – | 2 | 12.8 |
| Benton | 590 | *6.4 | 4 | 5.7 | 2 | 2.9 | 5 | 7.2 |
| Clackamas | 3,409 | *8.3 | 16 | 3.9 | 10 | 2.4 | 15 | 3.7 |
| Clatsop | 437 | *11.3 | 1 | 2.7 | – | – | 1 | 2.7 |
| Columbia | 461 | 9.0 | 2 | 3.9 | 2 | 3.9 | 1 | 1.9 |
| Coos | 974 | *15.4 | 2 | 3.3 | 1 | 1.7 | – | – |
| Crook | 274 | *12.4 | 1 | 3.8 | 1 | 3.8 | 1 | 3.8 |
| Curry | 375 | *16.4 | – | – | – | – | – | – |
| Deschutes | 1,516 | *8.3 | 6 | 3.3 | 2 | 1.1 | 5 | 2.8 |
| Douglas | 1,554 | *14.0 | 9 | 8.4 | 4 | 3.7 | 4 | 3.7 |
| Gilliam | 21 | 10.5 | – | – | – | – | – | – |
| Grant | 94 | *12.7 | – | – | – | – | 1 | 15.9 |
| Harney | 66 | 9.0 | – | – | – | – | – | – |
| Hood River | 190 | *7.6 | – | – | – | – | 1 | 3.8 |
| Jackson | 2,470 | *11.4 | 14 | 6.2 | 10 | 4.4 | 13 | 5.8 |
| Jefferson | 201 | 8.7 | 4 | 15.2 | 3 | 11.4 | 1 | 3.8 |
| Josephine | 1,235 | *14.4 | 4 | 4.5 | 3 | 3.4 | 3 | 3.4 |
| Klamath | 833 | *12.3 | 8 | 10.1 | 5 | 6.3 | 4 | 5.1 |
| Lake | 75 | 9.2 | – | – | – | – | 1 | 16.1 |
| Lane | 3,720 | *10.0 | 20 | 5.8 | 13 | 3.8 | 11 | 3.2 |
| Lincoln | 652 | *13.6 | 2 | 5.0 | 1 | 2.5 | 3 | 7.4 |
| Linn | 1,321 | *10.7 | 7 | 4.8 | 4 | 2.7 | 11 | 7.5 |
| Malheur | 323 | *10.1 | 1 | 2.5 | 1 | 2.5 | 3 | 7.5 |
| Marion | 2,879 | 8.5 | 25 | 5.6 | 23 | 5.2 | 24 | 5.4 |
| Morrow | 73 | *6.1 | 2 | 11.8 | 1 | 5.9 | – | – |
| Multnomah | 5,821 | *7.2 | 42 | 5.0 | 27 | 3.2 | 40 | 4.7 |
| Polk | 718 | 8.9 | 8 | 9.3 | 7 | 8.1 | 6 | 7.0 |
| Sherman | 19 | 10.6 | – | – | – | – | – | – |
| Tillamook | 302 | *11.5 | 1 | 4.6 | – | – | – | – |
| Umatilla | 658 | 8.2 | 6 | 6.3 | 5 | 5.3 | 5 | 5.3 |
| Union | 265 | 9.9 | 2 | 6.7 | 1 | 3.4 | 1 | 3.4 |
| Wallowa | 89 | *12.4 | – | – | – | – | – | – |
| Wasco | 334 | *12.3 | 1 | 3.2 | 1 | 3.2 | – | – |
| Washington | 3,433 | *5.8 | 40 | 6.0 | 25 | 3.8 | 17 | 2.6 |
| Wheeler | 17 | 11.5 | – | – | – | – | – | – |
| Yamhill | 1,032 | *9.7 | 7 | 6.3 | 5 | 4.5 | 6 | 5.4 |

– Quantity is zero.
1 Rates per 1,000 population for deaths.
2 Rates per 1,000 live births for infant and neonatal deaths.
3 Ratios per 1,000 live births for fetal deaths.
4 Total includes unknown county of residence.
* Indicates rate is statistically significantly different from the state rate ($P < 0.05$).

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

NOTE: Infant deaths occur in the first year of life. Neonatal deaths occur within the first 27 days of life. Fetal deaths include fetuses with birthweight of 350 grams or more or, if birthweight was unknown, gestational age of 20 weeks or more.

**TABLE 5-4. Population and deaths by city of residence, Oregon, 2017**

| City of residence | Estimated population July 1, 2017 | Deaths | |
|---|---|---|---|
| | | Number | Rate |
| Albany (Linn, Benton) | 52,710 | 541 | 10.3 |
| Ashland (Jackson) | 20,700 | 190 | 9.2 |
| Baker City (Baker) | 9,890 | 137 | 13.9 |
| Beaverton (Washington) | 95,685 | 828 | 8.7 |
| Bend (Deschutes) | 86,765 | 716 | 8.3 |
| Canby (Clackamas) | 16,660 | 155 | 9.3 |
| Central Point (Jackson) | 17,700 | 220 | 12.4 |
| Coos Bay (Coos) | 16,615 | 256 | 15.4 |
| Cornelius (Washington) | 11,915 | 62 | 5.2 |
| Corvallis (Benton) | 58,735 | 365 | 6.2 |
| Cottage Grove (Lane) | 9,920 | 130 | 13.1 |
| Dallas (Polk) | 15,570 | 229 | 14.7 |
| Eugene (Lane) | 167,780 | 1,627 | 9.7 |
| Forest Grove (Washington) | 23,555 | 225 | 9.6 |
| Gladstone (Clackamas) | 11,840 | 128 | 10.8 |
| Grants Pass (Josephine) | 37,135 | 536 | 14.4 |
| Gresham (Multnomah) | 109,820 | 708 | 6.4 |
| Happy Valley (Clackamas) | 19,985 | 180 | 9.0 |
| Hermiston (Umatilla) | 17,985 | 144 | 8.0 |
| Hillsboro (Washington) | 101,540 | 544 | 5.4 |
| Keizer (Marion) | 38,345 | 365 | 9.5 |
| Klamath Falls (Klamath) | 21,770 | 282 | 13.0 |
| La Grande (Union) | 13,245 | 145 | 10.9 |
| Lake Oswego (Clackamas, Multnomah, Washington) | 37,490 | 310 | 8.3 |
| Lebanon (Linn) | 16,720 | 239 | 14.3 |
| McMinnville (Yamhill) | 33,665 | 425 | 12.6 |
| Medford (Jackson) | 79,590 | 1,066 | 13.4 |
| Milwaukie (Clackamas) | 20,550 | 500 | 24.3 |
| Newberg (Yamhill) | 23,480 | 231 | 9.8 |
| Newport (Lincoln) | 10,215 | 130 | 12.7 |
| Ontario (Malheur) | 11,465 | 145 | 12.6 |
| Oregon City (Clackamas) | 34,610 | 382 | 11.0 |
| Pendleton (Umatilla) | 16,890 | 129 | 7.6 |
| Portland (Clackamas, Multnomah, Washington) | 639,100 | 5,132 | 8.0 |
| Prineville (Crook) | 9,880 | 161 | 16.3 |
| Redmond (Deschutes) | 28,265 | 274 | 9.7 |
| Roseburg (Douglas) | 24,015 | 429 | 17.9 |
| Salem (Marion, Polk) | 163,480 | 1,631 | 10.0 |
| Sandy (Clackamas) | 10,855 | 95 | 8.8 |
| Sherwood (Washington) | 19,350 | 101 | 5.2 |
| Silverton (Marion) | 10,070 | 78 | 7.7 |
| Springfield (Lane) | 60,655 | 693 | 11.4 |
| St. Helens (Columbia) | 13,240 | 133 | 10.0 |
| The Dalles (Wasco) | 14,625 | 258 | 17.6 |
| Tigard (Washington) | 50,985 | 438 | 8.6 |
| Troutdale (Multnomah) | 16,070 | 92 | 5.7 |
| Tualatin (Clackamas, Washington) | 26,960 | 173 | 6.4 |
| West Linn (Clackamas) | 25,695 | 170 | 6.6 |
| Wilsonville (Clackamas, Washington) | 24,315 | 167 | 6.9 |
| Woodburn (Marion) | 24,685 | 220 | 8.9 |

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

# SECTION 6: MORTALITY

# Mortality

As Oregon's population both ages and increases, the annual number of deaths generally trends upward. In 2017, the number of deaths increased to 36,640, up from 35,799 the previous year.* The crude death rate† increased from 878.2 per 100,000 population in 2016 to 884.8 in 2017 (see Figure 6-1 and Table 6-3). The age-adjusted death rate also increased from 702.6 to 707.0 (see Table 6-47t).

***Oregon's age-adjusted death rate increased from 702.6 to 707.0.***

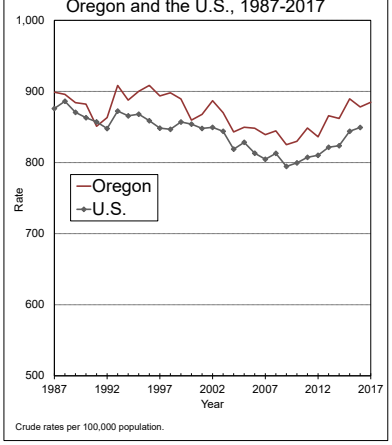
In 2016, the most recent year for which final U.S. data are available (1), Oregon's age-adjusted death rate was 3.1% lower than the U.S. rate and ranked 38th (first being highest) among the states and the District of Columbia (see Table 6-55). During the past 25 years, the greatest difference between the United States and Oregon age-adjusted death rates occurred in 1991 when Oregon's rate was 6.8% lower than the U.S. rate (859.6 versus 921.9) and ranked 36th among the states and the District of Columbia.

Oregon's age-adjusted, cause-specific death rates ranked among the 10 highest in the states and the District of Columbia‡ for four causes: viral hepatitis (fourth highest), alcohol-induced deaths (fifth), Parkinson's disease (seventh) and hypertension (eighth). At the same time, Oregon was among the 10 states with the lowest rates for eight causes: septicemia and influenza/pneumonia (both were third lowest); heart disease; HIV/AIDS; nephritis/nephrosis and perinatal conditions (each of which was fifth lowest); atherosclerosis (ninth lowest); and homicide (10th lowest).

## Life expectancy at birth

The longest living Oregonian ever recorded was a Siberian-born man who died in 1999 at 117 years of age. Most of the state's residents have much shorter lives, but the long-term trend is for increasing life expectancy. Since 1960, the life expectancy of Oregonians at the time of their birth has increased from 70.9 years to 79.7 in 2017 (see Table A).

Figure 6-1.
Total death rates,
Oregon and the U.S., 1987-2017

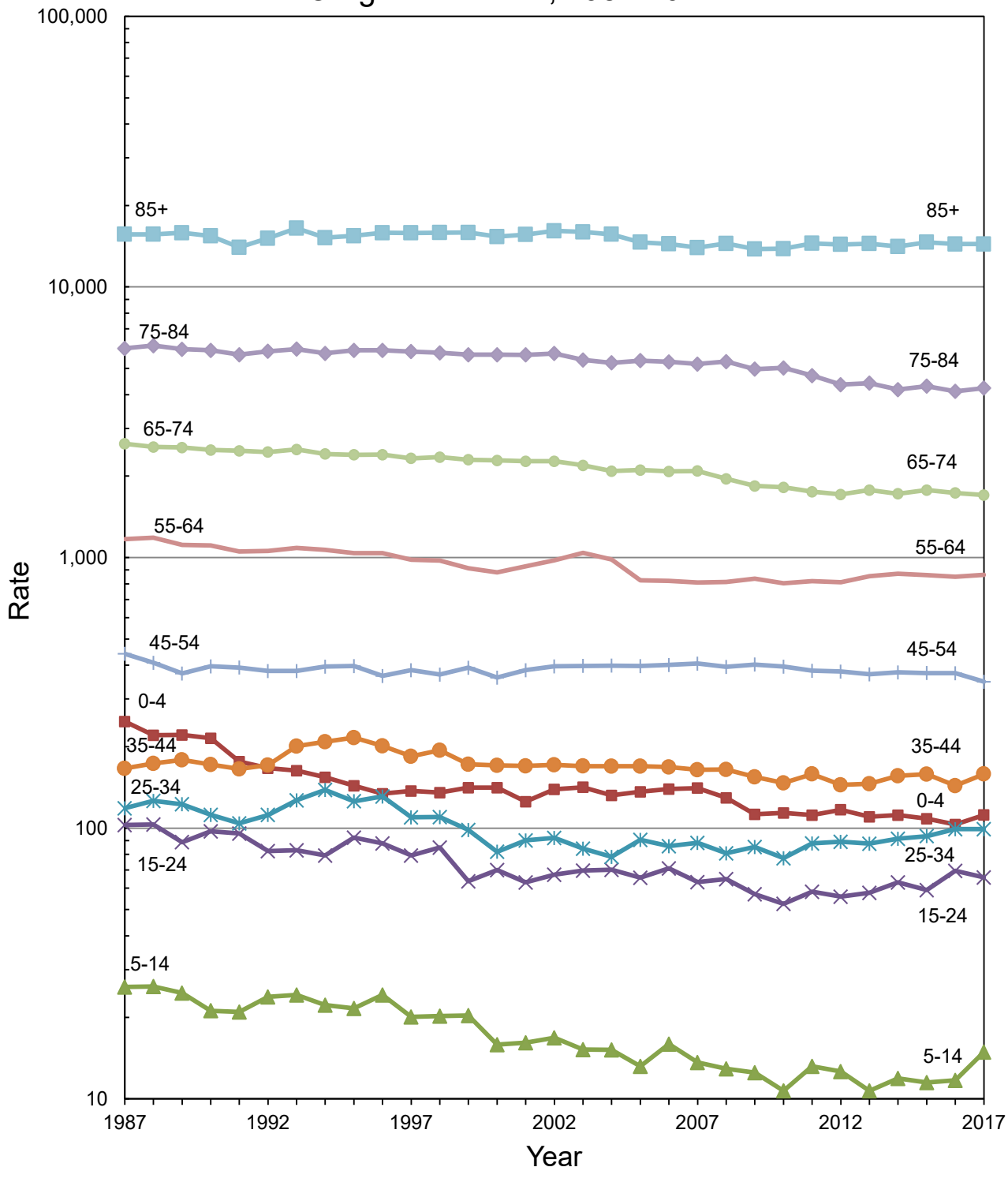



* State vital records offices within the United States maintain an inter-jurisdictional exchange agreement to provide a copy of the death record, or electronic equivalent, to the vital records office of the decedent's residence state if the person dies outside his or her home state. This exchange is highly dependent on the capacity of the state in which the death occurred to provide those files to Oregon.

† Unless otherwise specified, references to death rates mean crude death rates. See Appendix B for further discussion of crude and age-adjusted rates.

‡ This excludes states with unreliable data for each cause.

## Figure 6-2.
## Age-specific death rates, Oregon residents, 1987-2017




Rates per 100,000 population.
Note: A logarithmic scale is used for the vertical axis.

| Table A - Life expectancy, Oregon and the United States, 1960-2017 | | | | | | |
|---|---|---|---|---|---|---|
| Year | Oregon | | | United States | | |
| | Total | Male | Female | Total | Male | Female |
| **1960** | 70.9 | N.A. | N.A. | 69.7 | 66.6 | 73.1 |
| **1970** | 72.1 | 68.4 | 76.2 | 70.8 | 67.1 | 74.7 |
| **1980** | 75.0 | 71.4 | 78.8 | 73.7 | 70.0 | 77.4 |
| **1990** | 76.7 | 73.3 | 80.1 | 75.4 | 71.8 | 78.8 |
| **2000** | 78.0 | 75.6 | 80.4 | 76.8 | 74.1 | 79.3 |
| **2010** | 79.5 | 77.4 | 81.6 | 78.7 | 76.2 | 81.0 |
| **2015** | 79.6 | 77.3 | 81.8 | 78.8 | 76.3 | 81.2 |
| **2016** | 79.8 | 77.4 | 82.2 | 78.6 | 76.1 | 81.1 |
| **2017** | 79.7 | 77.3 | 82.0 | N/A | N/A | N/A |

2016 is the most recent year for which final U.S. data are available. U.S. data source: National Center for Health Statistics. Deaths: Final Data for 2016. National Vital Statistics Reports, Vol 67 no 5. (www.cdc.gov/nchs/data/nvsr/nvsr67/nvsr67_05.pdf)

Life expectancy is a hypothetical construct representing the average number of years a group of infants would live if they were to experience, throughout their lives, the age-specific death rates present at the time of their birth. Such factors as the environment, the economy, health behaviors and changing medical technology affect life expectancy.

The life expectancy of Oregonians was similar in 2016 (79.8 years) and 2017 (79.7). Using a five-year average from 2013 through 2017, life expectancy varied by 7.3 years among Oregon's counties (see Table 6-57). Six counties had a life expectancy significantly longer than the state average (79.7): Benton (83.4), Washington (82.3), Grant (81.7), Hood River (81.5), Clackamas (80.9) and Deschutes (80.6). The 16 counties with significantly shorter life expectancies than the state average were Curry (76.1), Coos (76.5), Josephine and Klamath (76.9), Douglas and Jefferson (77.4), Lincoln (77.7), Clatsop and Linn (77.9), Wasco (78.0), Malheur (78.2), Crook (78.5), Tillamook (78.7), Jackson and Umatilla (78.9), and Multnomah (79.2).

# Demographic characteristics

## Sex

Between 2016 and 2017, the mortality rate increased for both males and females, resulting in an overall increase in Oregon's crude death rate (see Table 6-1). The male rate increased 0.1% (914.2 per 100,000 population in 2016 compared to 915.0 in 2017), and the female rate increased 1.4% (843.1 in 2016 compared to 855.2 in 2017).

**Table B - Age-adjusted death rates by county of residence, 2017**

| County | Rate |
|---|---|
| **Oregon total** | **707.0** |
| Baker | 712.4 |
| Benton** | 529.5 |
| Clackamas** | 621.6 |
| Clatsop* | 807.8 |
| Columbia | 714.3 |
| Coos* | 937.6 |
| Crook | 744.7 |
| Curry* | 835.6 |
| Deschutes** | 664.2 |
| Douglas* | 810.3 |
| Gilliam | 561.4 |
| Grant | 646.7 |
| Harney | 610.3 |
| Hood River | 630.0 |
| Jackson* | 741.2 |
| Jefferson | 737.1 |
| Josephine* | 811.6 |
| Klamath* | 895.4 |
| Lake | 562.7 |
| Lane* | 734.8 |
| Lincoln* | 828.1 |
| Linn* | 819.8 |
| Malheur* | 796.3 |
| Marion* | 736.6 |
| Morrow** | 545.2 |
| Multnomah* | 730.9 |
| Polk | 717.3 |
| Sherman | 591.9 |
| Tillamook | 745.1 |
| Umatilla | 743.4 |
| Union | 662.8 |
| Wallowa | 638.1 |
| Wasco* | 796.6 |
| Washington** | 574.5 |
| Wheeler | 533.6 |
| Yamhill* | 763.7 |

Rates per 100,000 population.

* Significantly higher than the state rate.

** Significantly lower than the state rate.

During 2017, the female crude death rate was lower than the male rate. While this was typical during the 20th century, the female rate has occasionally been higher than the male rate in recent years (see Table 6-1). Increases in female crude death rates vis-à-vis male rates seen over the past decade are largely due to the changing age distribution within these two groups, rather than a decline in the health status of females. There are simply more elderly women than men, and the elderly — even under the best of circumstances — are more likely to die than their younger counterparts are. Despite recent fluctuations in crude death rates, the age-adjusted death rates for males have consistently been higher than for females. In 2015–2017, the male age-adjusted death rate was 38.0% higher than the female rate — 833.8 compared to 604.4 (see Table 6-48m and Table 6-48f).*

## Age

Compared with Oregon rates in 2010, age-specific death rates have increased for four of the six age groups shown in Table 6-1. The exceptions are Oregonians 0–4 years of age, where the rate decreased by 1.8%, and those aged 65 years and older, where the rate decreased 14.6%. Those aged 5–14 years saw the greatest increase (39.3%). (See Figure 6-2 and Figure 6-3.)

Table 6-1 shows the disparity in age-specific death rates by sex. Male rates are higher than female rates in all six age categories. The age-specific death rate for males 15–24 years old was more than twice as high as the rate for women in the same age group — 92.4 versus 38.1 (per 100,000). The median age at death for both sexes combined was 78 years, which is unchanged since 2013 (see Table 6-15). The median ages at death for each sex were unchanged from the previous year – 74 years for males, and 81 years for females.

## County of residence

In 2017, the state age-adjusted death rate was 707.0 per 100,000 population. Fifteen counties had significantly higher age-adjusted rates, while five counties had significantly lower rates (see Table B). Simply residing in a particular county will not necessarily increase or

* See Appendix B for further information about age-specific and age-adjusted death rates.

Figure 6-3.
Proportion of deaths by selected age groups,
Oregon residents, 1920-2017

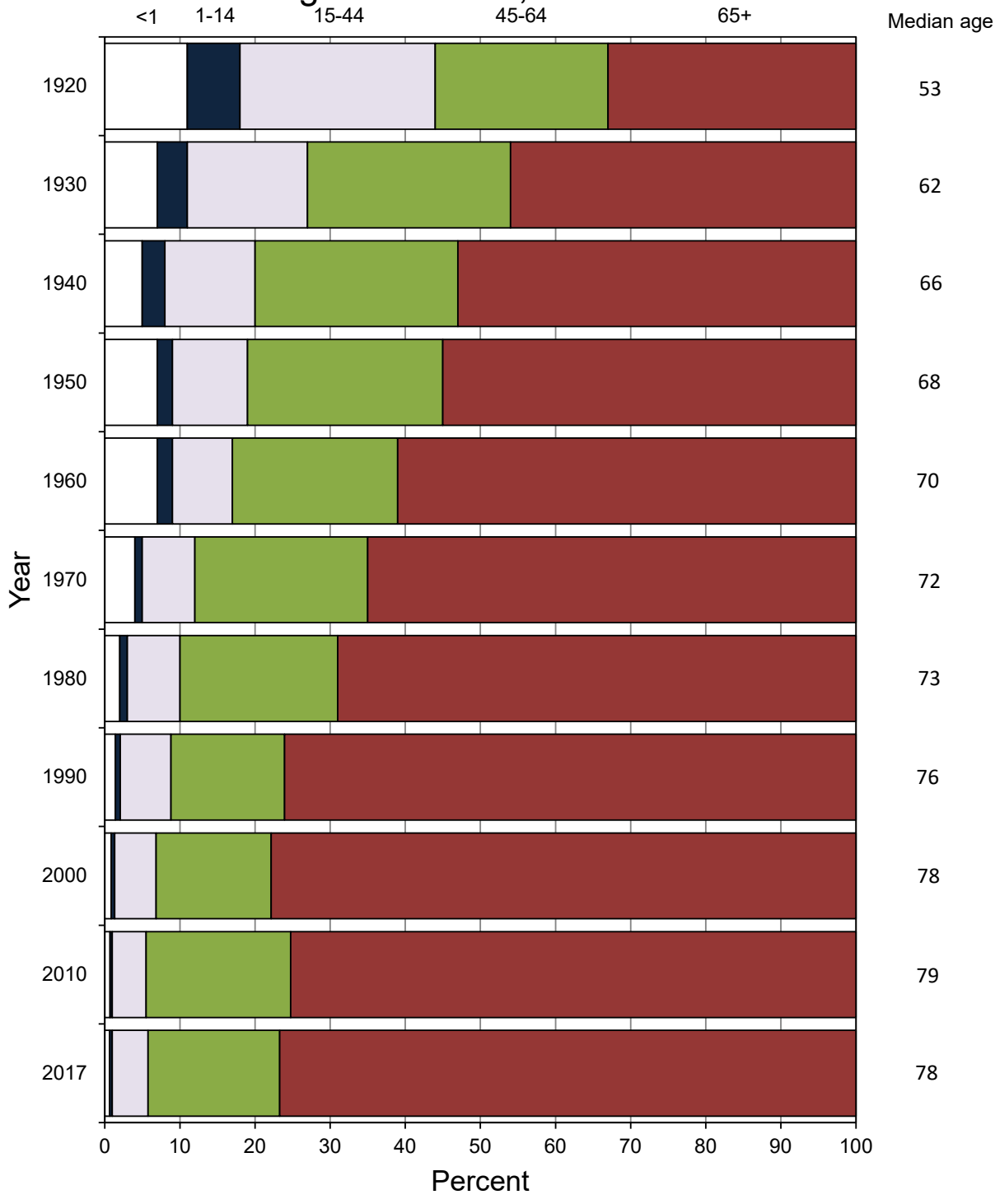


**Table C - Races indicated for decedents with multiple races, 2017**

| Race group* | Number | Percent |
|---|---|---|
| Total multiple race | 275 | 100.0 |
| White | 247 | 89.8 |
| African American | 34 | 12.4 |
| American Indian | 187 | 68.0 |
| Asian[1] | 63 | 22.9 |
| Hawaiian & Pacific Islander[2] | 27 | 9.8 |

* Decedents of Hispanic ethnicity may belong to any race. Columns will not add to total due to multiple race selections.

[1] Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, and other Asian.

[2] Includes Native Hawaiian, Guamanian, Samoan, and other Pacific Islander.

decrease one's chance of dying in a given year. Mortality is a consequence of many factors including socioeconomic status, education, employment, smoking, other individual health behaviors, environmental exposure, availability and quality of medical care, and heredity.

## Race and Hispanic ethnicity

There are six major race categories: White, Black or African American, American Indian/Alaska Native, Asian, Hawaiian or Pacific Islander, and Other Specified. Beginning in 2006, multiple race and ethnicity categories may be reported for a single decedent. There are four Hispanic ethnicity choices based on the country or countries of origin: Mexican, Cuban, Puerto Rican and Other Hispanic. A person of Hispanic ethnicity may belong to any race category.

The data collected for the Asian categories allow for differentiation by Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese and Other Asian. Among Pacific Islanders, the data collected allow for differentiation among Hawaiian, Guamanian, Samoan and Other Pacific Islander. However, the counts in these more specific race categories are too small for reliable statistical reporting.

Most (91.7%) decedents are reported as non-Hispanic White only. Multiple race categories were marked on the death records of 275 decedents (0.8%) in 2017 (see Table 6-9 and Table C). Among decedents recorded as having multiple race categories, 89.8% were identified as White and 68.0% as American Indian, each in combination with other categories. Allowing multiple race selections raises the mortality counts for all race categories. For instance, when looking at single-mention race categories, the count of American Indian decedents in 2017 was 389 (see Table 6-9). This count increased by 48.1% to 576 when also including multiple-race decedents identifying in part as American Indian, in combination with other races (see Table 6-10). Other databases such as birth, youth surveys and adult telephone surveys are now also collecting multiple race categories. The younger participants in those databases more frequently report multiple races.

# Leading causes of death*†

## Overview

During the 20th century, with the notable exception of the great influenza pandemic of 1918–1919, heart disease was consistently the leading cause of death among Oregonians. In the 21st century, however, cancer has emerged as the leading cause of death. In 2001, for the first time, more Oregonians died from cancer, also referred to as malignant neoplasms, than from diseases of the heart. During 2017, 8,084 Oregonians died from cancer while 6,945 died from heart disease.

The first and second leading causes of death during 2017 were malignant neoplasms and heart disease; combined, they accounted for 41.0% of all deaths. Malignant neoplasms resulted in almost twice as many years of potential life lost as heart disease, reflecting the younger ages of cancer patients (see Table 6-14). The apparent increasing risk of cancer vis-à-vis heart disease during the 21st century is not the result of an increasing cancer death rate, but rather a declining heart disease death rate. In fact, the malignant neoplasm death rate has trended downward in the past 25 years, but the heart disease death rate has fallen more rapidly.

Causes of death varied by age group. Among infants, perinatal conditions were most common. Unintentional injuries ranked first for Oregonians aged 1 through 44. From age 45 through 84, cancer was the leading cause of death. Among residents 85 or older, heart disease ranked first (see Table 6-4 and Figure 6-4).

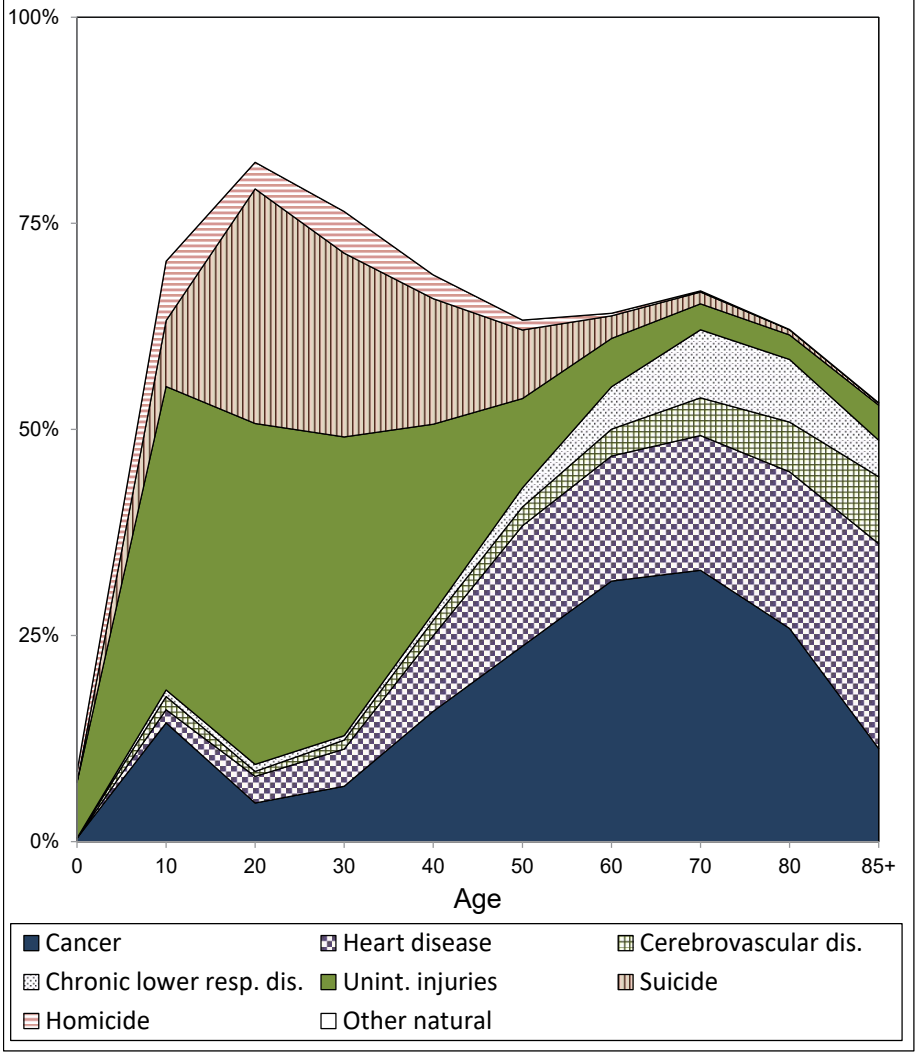
## Years of potential life lost

Mortality rates alone do not show the full impact upon society of certain causes of death. The deaths of young people are a greater cost to society in terms of years of potential life lost (YPLL) than are the deaths of older people. The YPLL yardstick quantifies premature mortality

* Statewide records of cause of death were first collected in 1908.

† The International Classification of Diseases is periodically revised. The 10th revision was implemented in 1999. It had considerably greater detail for some diseases and less for others; shifts of inclusion in terms and titles from one category, section or chapter to another; regrouping of diseases; new titles in sections; and modification of the coding rules. As a result, serious breaks in the comparability occurred for several causes of death. Readers wishing to compare numbers of deaths or rates for 1999 and subsequent years to prior years should use the final comparability ratios described in Appendix B. Table 6-3 data apply final comparability ratios.

Figure 6-4.
Percentage of deaths by cause and age,
Oregon residents, 2017

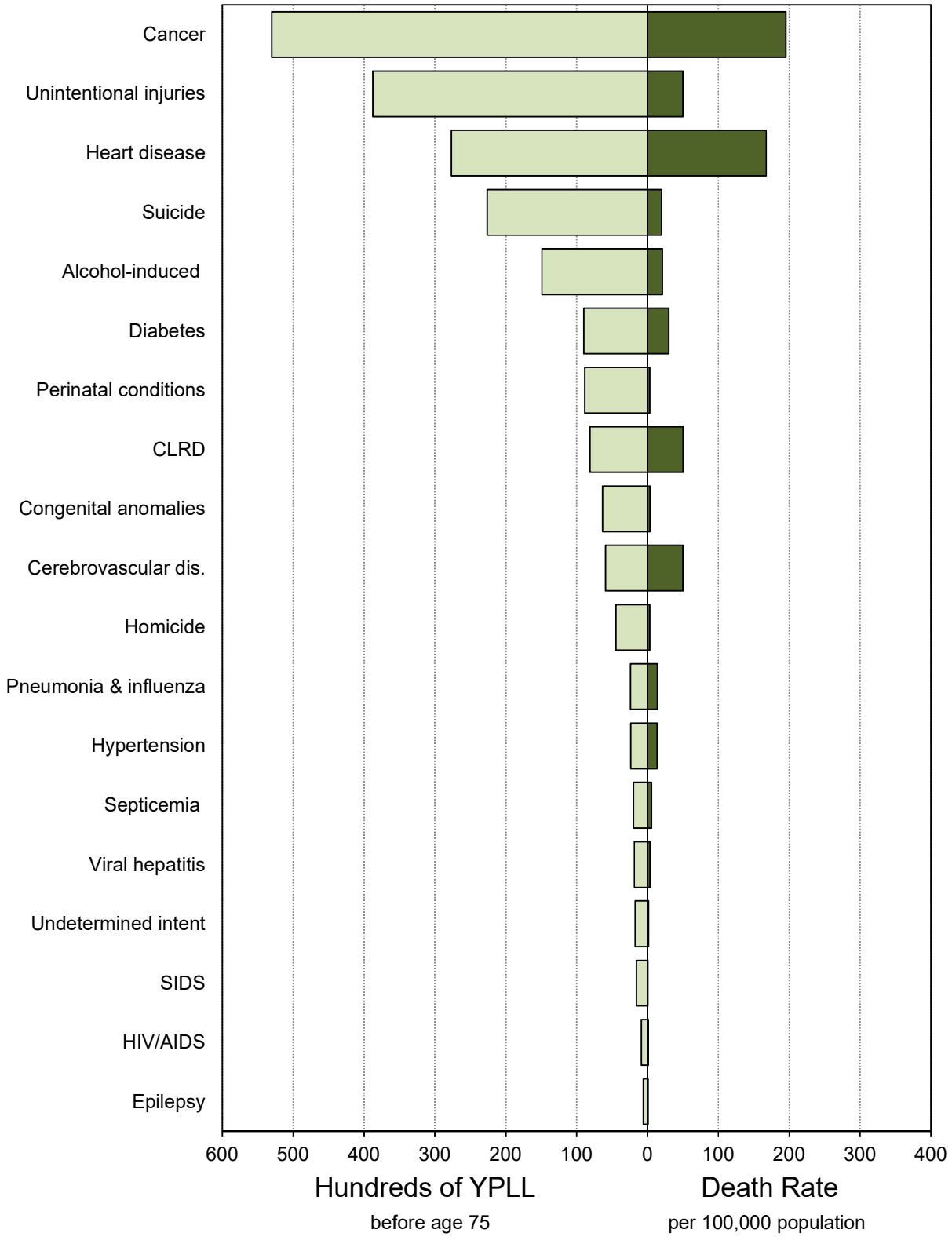



occurring in younger age groups by measuring the number of years between age at death and a set standard age. With the standard set at 75 years, a death at age 21 years results in 54 years lost. The numbers of YPLL for all decedents are then totaled. Figure 6-5 shows the disparity between death rates and the years of potential life lost. In all references to YPLL in this report, the standard is 75 years unless otherwise noted. Use of YPLL measures in Figure 6-5 highlights the impact of death due to unintentional injuries.

## Cancer

During 2017, cancer was the leading cause of death among Oregonians, claiming 8,084 lives. Malignant neoplasms were also a contributing factor, but not the underlying

Figure 6-5.
Leading causes of years of potential life lost and corresponding death rates, Oregon residents, 2017



| Table D - Lung cancer deaths - ratio of males to females | |
|---|---|
| 1965 | 5.5 |
| 1975 | 3.6 |
| 1985 | 2.0 |
| 1995 | 1.2 |
| 2005 | 1.2 |
| 2015 | 1.0 |
| 2017 | 1.0 |

cause, in another 1,114 deaths. The cancer crude death rate increased for many decades before hitting a plateau in the 1990s. The rate then trended downward for several years but has remained relatively stable for the last decade (see Figure 6-6). From 2016 to 2017, the crude death rate decreased from 198.1 per 100,000 population to 195.2 (see Table 6-3). The age-adjusted death rate also decreased, from 154.9 per 100,000 population to 152.1 (see Table 6-47t).

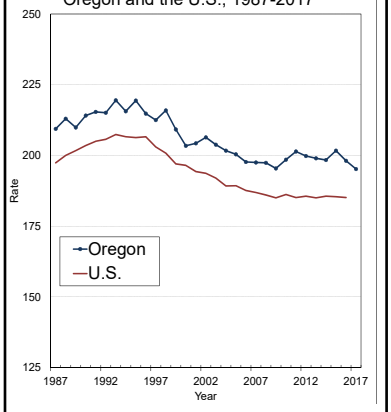
Malignant neoplasms were the leading cause of death for both sexes, and the difference in death rates between males and females has narrowed during the past two decades. During 2017 the crude death rate for cancer was 10.7% higher for males than females — 205.3 versus 185.4 (see Table 6-4). The disparity was far greater when comparing age-adjusted death rates: 175.7 for males versus 134.6 for females, a 30.5% difference (see Table 6-47m and Table 6-47f).

***Lung cancer claimed the lives of almost twice as many women as did breast cancer.***

Cancer was one of the five leading causes of death among Oregonians of all ages except infants; it was the leading cause of death for residents aged 45 through 84 years. The median age at death from cancer in 2017 was 73 years, unchanged from 2016. Malignant neoplasms were the leading cause of premature death and accounted for 53,022 years of potential life lost (see Table 6-13).

During 2015–2017, 10 Oregon counties had age-adjusted cancer death rates significantly higher than the state rate (155.4): Coos (191.8), Crook (190.2), Tillamook (187.4), Curry (184.8), Lincoln (184.4), Josephine (176.2), Linn (175.3), Douglas (174.5), Klamath (173.0) and Marion (163.1). Seven counties recorded significantly lower rates than the state rate: Grant (101.9), Wallowa (113.1), Harney (114.4), Benton (120.4), Washington (132.0), Deschutes (143.5) and Clackamas (146.4).

Figure 6-6.
Cancer death rates,
Oregon and the U.S., 1987-2017

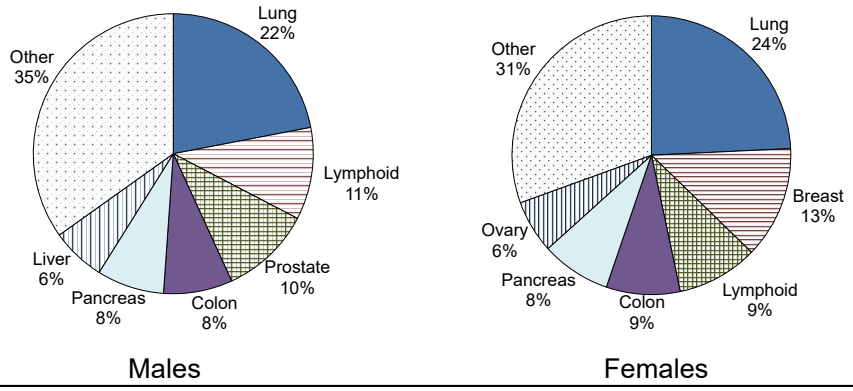



Crude rates per 100,000 population.
Comparability ratios applied to data prior to 1999.

Prior to 2001, Oregon's age-adjusted cancer death rate was typically lower than the U.S. rate but has since trended higher. In 2016, Oregon's rate was only 0.1% higher than the nation's (155.9 compared to 155.8) and ranked 32nd (from highest to lowest) among the states and District of Columbia (see Table 6-55) (1).

The most common fatal cancer for both sexes is bronchus/lung cancer, which rarely occurs in the absence of smoking.

Figure 6-7.
Distribution of malignant neoplasms
by sex and site, Oregon residents, 2017




In the past, smoking rates have been much higher in men than women, resulting in higher lung cancer rates for men; in 1965, there were 5.5 male deaths due to lung cancer for every female death. However, as smoking among women increased, so did their mortality rates from lung cancer; by 2015, there was one male death for every female death (see Table D). Breast cancer is more often in the public eye; however, during 2017, lung cancer claimed the lives of almost twice as many women as breast cancer did: 943 versus 506, respectively (see Table 6-6 and Figure 6-7).

### Heart disease

Despite the long-term downward trend in its crude death rate, heart disease was the leading cause of death in Oregon during most of the 20th century. In 2001, for the first time, more deaths resulted from cancer than from heart disease. During 2017, heart disease was the second leading cause of death; 6,945 Oregonians succumbed to it –– 1,139 fewer than from malignant neoplasms. The crude death rate from heart disease decreased slightly from 171.0 in 2016 to 167.7 in 2017 (see Figure 6-8), while the age-adjusted death rate decreased from 134.3 per 100,000 population to 131.5. By comparison, the age-adjusted death rate was 264.2 in 1990, 100.9% higher than the 2017 rate. An additional 7,439 death records listed heart disease as a contributing factor in decedents' deaths, but not the underlying cause.

***The age-adjusted heart disease death rate decreased slightly in 2017.***

The 2017 crude death rate for heart disease was 21.4% higher for males than for females (184.1 versus 151.7). The age-adjusted death rate for heart disease was 66.1% higher

for males than for females (168.8 versus 101.6), reflecting the younger ages at which men are more likely than women to die from heart disease (see Table 6-47m and Table 6-47f).

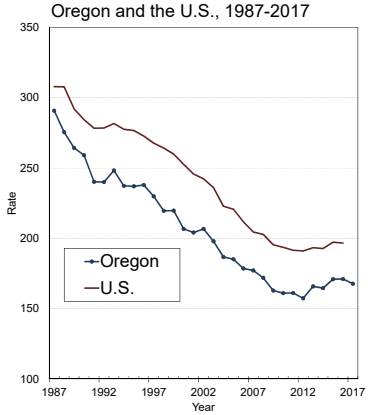
Heart disease was the leading cause of death for Oregonians age 85 years or older and one of the five leading causes among Oregonians age 35 years and older. It was the second leading cause of death for residents aged 45–84 years (see Table 6-4). The median age at death from heart disease was 82 years in 2017 (see Table 6-15). The relatively older ages at which Oregonians died from heart disease lower its rank among the causes of premature death. In 2017, heart disease resulted in 27,675 years of potential life lost, making heart disease the third leading cause of premature death, following cancer and unintentional injuries (see Table 6-13).

***Oregon's 2016 age-adjusted heart disease death rate was the fifth lowest nationally.***

During 2015–2017, 12 Oregon counties had age-adjusted heart disease death rates significantly higher than the state's (133.7): Sherman (220.9), Malheur (185.1), Curry (177.7), Coos (169.7), Wasco (168.4), Linn (167.3), Clatsop (165.6), Crook (165.4), Klamath (163.4), Columbia (160.3), Yamhill (149.3) and Multnomah (143.6). Five counties had significantly lower rates: Benton (102.9), Washington (114.0), Clackamas (114.8), Lane (125.1) and Jackson (126.5).

In 2016, the state's age-adjusted heart disease death rate was 18.4% lower than the U.S. rate, and Oregon ranked 47th (fifth lowest) among the states and the District of Columbia (see Table 6-55) (1). Oregon's heart disease death rate has long been lower than the U.S. rate, even as the United States has seen a striking downward trend in the overall age-adjusted heart disease death rate. In 2006, the U.S. age-adjusted rate was 200.2, compared to 165.5 in 2016 (see Table 6-58).

Figure 6-8.
Heart disease death rates,
Oregon and the U.S., 1987-2017




Crude rates per 100,000 population.
Comparability ratios applied to data prior to 1999.

## Chronic lower respiratory disease

Chronic lower respiratory disease (CLRD) includes a variety of conditions including emphysema, chronic obstructive pulmonary disease (COPD), bronchitis and asthma. Oregon's CLRD crude death rates increased steadily for several decades, reaching a record high of 54.9 per 100,000 population in 1996. Increased smoking, particularly by women, drove the rising death rate. CLRD is now the third leading cause of death, with 15 more deaths than unintentional injuries. Since 2000, the rate varied little, ranging between 48.9 and 52.8 per 100,000 (see Table 6-3

and Figure 6-9). The crude death rate for CLRD decreased from 51.1 per 100,000 in 2016 to 50.4 in 2017. The age-adjusted death rate also decreased from 40.0 to 39.0 (see Table 6-47t). CLRD was the underlying cause of death for 2,088 of Oregon's residents, but it contributed to an even larger number of deaths (2,662), for which it was not the underlying cause (see Table 6-6 and Table 6-51).

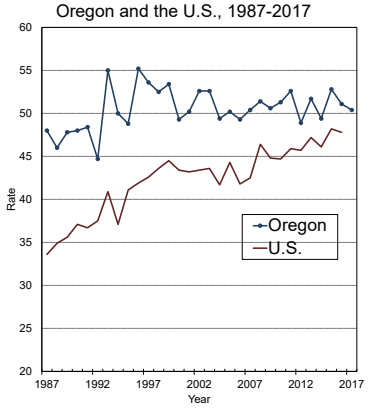
In 2017, more females than males died from CLRD (1,139 versus 949), and the crude rate was also higher for females than for males (54.3 versus 46.5). However, the age-adjusted death rate was slightly higher for males: 40.5 per 100,000 population versus 38.0 for females, a 6.6% difference (see Table 6-47m and Table 6-47f). For most of the 20th century, far more males succumbed to CLRD than did females, but since 1999 this pattern has generally reversed (with the exceptions of 2002 and 2008). The increasing number of women dying from CLRD reflects the higher numbers of older women than older men in Oregon. Even in years when more females than males died of CLRD, the age-adjusted death rates were still higher for males than females.

CLRD is the fifth leading cause of death for Oregonians aged 85 and older, and third for decedents aged 65 to 84. Residents aged 75 to 84 had the largest number of CLRD deaths with 660 (see Table 6-4). Although the third most common cause of death overall, chronic lower respiratory disease ranked eighth in the number of years of potential life lost (8,150). The median age at death was 77 in 2017, unchanged from the previous year (see Table 6-13 and Table 6-15).

During 2015–2017, 13 counties had CLRD age-adjusted death rates significantly higher than the state's (40.2): Lake (68.5), Klamath (65.5), Grant (62.5), Tillamook (58.9), Baker (58.3), Curry (57.3), Umatilla (56.6), Douglas (55.9), Union (54.6), Josephine and Coos (52.8), Linn (48.5), and Jackson (47.1). Excluding those with fewer than 20 CLRD deaths, four counties with 20 or more CLRD deaths had significantly lower rates: Washington (24.4), Benton (25.4), Clackamas (31.7) and Polk (32.7).

Oregon's age-adjusted CLRD death rate has long been higher than the U.S. rate, but the disparity has abated in recent years. The greatest disparity occurred in 1987, when Oregon's rate was 26.8% higher and ranked 11th among

Figure 6-9.
CLRD death rates,
Oregon and the U.S., 1987-2017




Crude rates per 100,000 population.
Comparability ratios applied to data prior to 1999.

the states and District of Columbia. During 2016, the state's rate was 0.5% lower than the nation's rate and ranked 30th (see Table 6-55) (1).

### Unintentional injuries

Unintentional injury mortality* is a broad category that includes car crashes, falls, and drug overdose deaths and other causes. Oregon's unintentional injury crude death rate decreased from 51.7 in 2016 to 50.1 in 2017 (see Table 6-3 and Figure 6-10). Fatal unintentional injuries claimed the lives of 2,073 Oregonians and contributed to the deaths of another 648 residents (see Table 6-51). The age-adjusted death rate decreased from 46.0 in 2016 to 44.5 in 2017. Unintentional injuries were Oregon's fourth leading cause of death.

A strong dichotomy exists in unintentional injury deaths between sexes. The crude death rate was 61.7% higher for males than for females (62.1 versus 38.4). The disparity in age-adjusted death rates was even greater; the male rate was 96.4% higher than the female rate: 59.7 versus 30.4 (see Table 6-47m and Table 6-47f).

Unintentional injuries were the leading cause of death among children and adults aged 1–44 years (see Table 6-4). While age-specific rates vary little from the mid-teens until middle age, the oldest age groups have a greatly increased unintentional injury death rate largely due to the increased risk of falling (see Table 6-7t and Figure 6-11). Although it was the fourth leading cause of death in 2017, unintentional injuries ranked second in years of potential life lost at 38,787, a 3.4% decrease from 2016 (see Table 6-13 and Figure 6-5). This reflects unintentional injuries' role as the most common cause of death of young Oregonians. Despite this, the median age at death from unintentional injuries has trended upward, to 63 in 2017. By comparison, the median age at death in 2002 was 54 (see Table 6-15).

During 2015–2017, nine counties had age-adjusted unintentional injury death rates significantly higher than the state rate (44.9): Grant (76.8), Jefferson (74.9), Curry (71.2), Josephine (67.1), Coos (66.4), Lincoln (61.3), Douglas

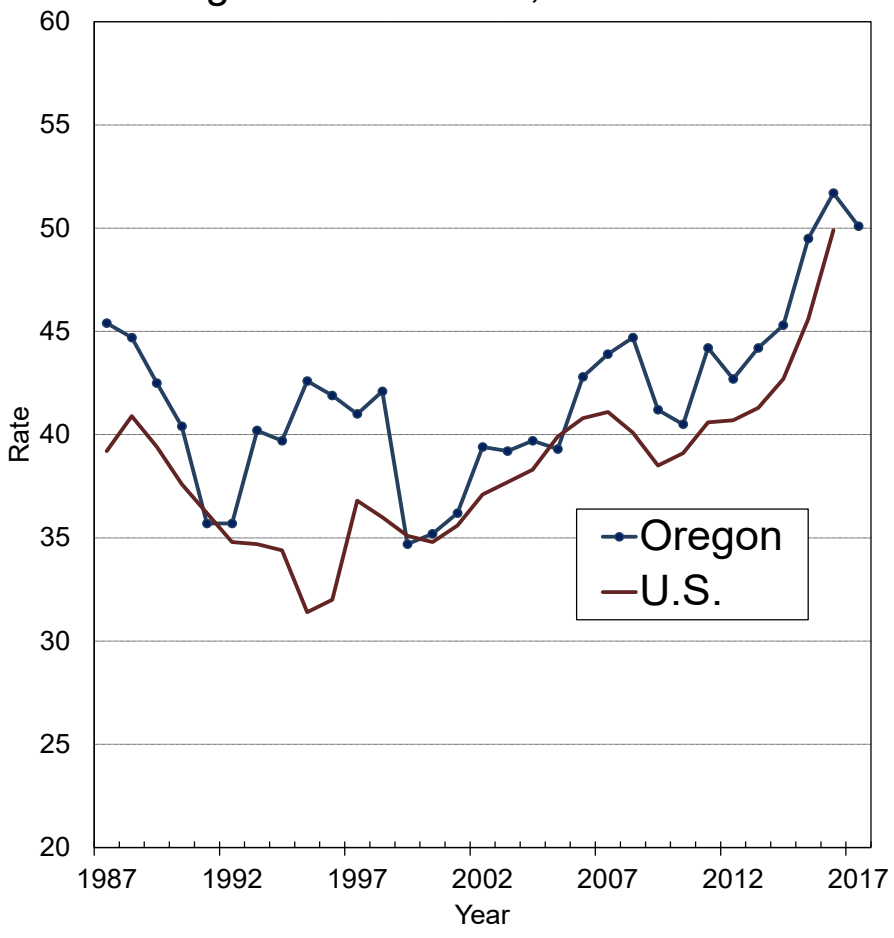
* The public health community prefers "unintentional injuries" to the term "accidents."

(60.8), Lane (57.3) and Linn (56.4). Three counties had significantly lower rates: Washington (26.5), Benton (33.8) and Clackamas (38.4).

During most of the past several decades, Oregon's unintentional injury death rate has been higher than the nation's. However, in 2016 the state's age-adjusted death rate from unintentional injuries was 3.0% below the national rate and ranked 34th among the states and District of Columbia (1).

In 2017, 56 work-related deaths occurred in Oregon to both residents and non-residents. The victims were overwhelmingly male (54 males versus two females), with motor vehicle crashes being the most common cause of death from unintentional work-related injuries (see Table 6-50).

Figure 6-10.
Unintentional injury death rates, Oregon and the U.S., 1987-2017




Crude rates per 100,000 population.
Comparability ratios applied to data prior to 1999.

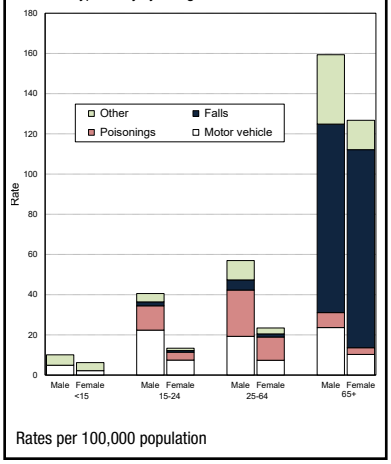
Just as the leading cause of death varies by age, so does the type of fatal unintentional injury (see Figure 6-11). Unintentional injury deaths among children under 5 years of age most commonly resulted from suffocation or airway obstruction. Transportation-related injuries were the most common unintentional injury cause among decedents aged 5–24. Among those aged 25–54, poisoning (usually of drugs used in an illicit or inappropriate manner) was the most common cause of unintentional injury death. Transportation-related injuries were the most common unintentional injury cause among decedents aged 55–64, and falls were the most common type among Oregonians 65 or older (see Table 6-27).

***Falls***. Falls were the state's most common type of fatal unintentional injury in 2017. Falls claimed the lives of 764 Oregonians, most of whom (89.8%) were 65 or older (see Table 6-27). Most falls occurred on the same level of ground or flooring (512, or 67.0%). For falls not occurring on the same level, 38 falls involved stairs, 26 involved a wheelchair and 25 were from bed (see Table 6-28). The age-adjusted death rate for fatal falls among males was 36.0% higher than among females (17.0 versus 12.5) (see Table 6-47m and Table 6-47f). The age-adjusted death rate for falls increased 10.6% since 2013, from 13.2 per 100,000 population to 14.6 per 100,000 in 2017 (see Table 6-47t).

***Transportation and related fatalities***. Transportation-related injuries accounted for the second largest number of unintentional injury deaths (553) among Oregon residents, with motor vehicle traffic accidents accounting for 85.5% of all transportation injury deaths (see Table 6-27). Of the 473 motor vehicle traffic accidents, 70.6% occurred among males. The age-adjusted motor vehicle traffic accident death rate for males was more than twice as high as the rate for females (15.8 per 100,000 population versus 6.2) (see Table 6-47m and Table 6-47f). Although teens and young adults aged 15–24 years accounted for 15.9% of all motor vehicle traffic accident fatalities, age-specific death rates were highest among adults over 85 (33.2 per 100,000 population) (see Table E and Table 6-7t).

In most land-transport motor-vehicle deaths occurring in Oregon, the fatalities occurred among persons traveling by car (203), foot (103), unspecified vehicle (72), motorcycle (64), or pickup or van (61). Less common were the deaths of

Figure 6-11.
Unintentional injury death rates by age and type of injury, Oregon residents, 2017



those traveling by all-terrain vehicle (20), pedal cycle (18), heavy transport vehicle (4) or agricultural vehicle (2). Of all fatalities among persons in cars, 27.1% resulted from non-collisions (e.g., rollovers following loss of control); among fatalities of persons in pickups or vans, 32.8% occurred in non-collisions (see Table 6-29).

***Overdoses and poisonings***. Unintentional poisonings involving drugs/medications, most often by narcotics and hallucinogens, ranked third among the types of fatal unintentional injuries, claiming the lives of 450 Oregonians in 2017 (see Table 6-27). The 2017 age-adjusted death rate for poisonings is 12.6% higher than the age-adjusted rate 10 years ago (10.7 in 2017 versus 9.5 in 2007). As with most other types of unintentional injuries, age-adjusted poisoning death rates were far higher for males than females (14.4 versus 7.0) (see Table 6-47m and Table 6-47f). The death rate peaked among residents aged 45–54 (20.2 per 100,000) (see Table 6-7t). More than 60% of this year's unintentional poisoning deaths involved opioids (see Table 6-35).

Although 450 deaths were attributed to unintentional poisonings, they alone do not account for all deaths resulting from overdoses and poisonings. Depending on how the fatality was reported on the death record, a death could be attributed to an unintentional injury or to a mental/behavioral disorder (see Table 6-35, footnote 1).

***Suffocation or obstruction***. Ranking fourth among fatal unintentional injuries, suffocation or airway obstruction (including hanging and strangulation) accounted for the deaths of 95 Oregon residents (see Table 6-27). Of these deaths, 35 (36.8%) involved inhalation or ingestion of objects or substances other than food or gastric contents. Oregonians aged 85 years and older accounted for the highest number of suffocation or obstruction deaths (25 or 26.3%), followed by those 75–84 years old (18 or 18.9%).

***Drownings***. Ranking fifth among causes of death from unintentional injuries, drownings (including those involving watercraft) accounted for the deaths of 49 Oregon residents (see Table 6-27). Fifty-nine Oregon residents and non-residents drowned in Oregon during 2017; most of these deaths did not involve watercraft. Thirty-six drownings were in natural water, six deaths in bathtubs or hot tubs and six in swimming pools. Eight deaths involved watercraft (see Table 6-32).

**Table E - Motor vehicle traffic accident death rates by age, 2017**

| Age group | Rate |
|---|---|
| 85+ | 20.0 |
| 75-84 | 19.0 |
| 65-74 | 12.3 |
| 55-64 | 15.3 |
| 45-54 | 9.6 |
| 35-44 | 11.6 |
| 25-34 | 13.3 |
| 15-24 | 14.5 |
| 5-14 | 2.6 |
| 1-4 | 3.3 |
| < 1 | 2.3 |

Crude rates per 100,000 population.

## Cerebrovascular disease

Accounting for 5.6% of all deaths, cerebrovascular disease (i.e., stroke) was the fifth leading cause of mortality among Oregonians. The number of deaths attributed to cerebrovascular disease increased from 1,944 in 2016 to 2,066 in 2017. The number of deaths in which this disease was a contributing factor also increased, from 1,713 deaths in 2016 to 1,847 deaths in 2017 (see Table 6-3 and Table 6-51). The crude death rate for this cause trended downward during 1996–2012*, but has increased each of the last five years. Between 2016 and 2017, the crude death rate increased from 47.7 to 49.9 per 100,000 population (see Figure 6-12). The age-adjusted death rate also increased from 37.5 in 2016 to 39.0 in 2017 (see Table 6-47t).

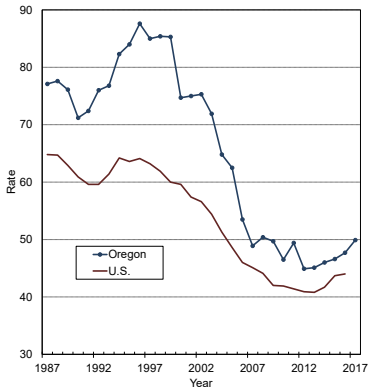
More females than males died from cerebrovascular disease, and the male crude death rate was 22.1% lower than the female rate (43.6 versus 56.0, see Table 6-2). However, the age-adjusted rate for males was 7.2% higher than the rate for females (40.3 versus 37.6) (see Table 6-47m and Table 6-47f).

Fatal cerebrovascular disease was uncommon before age 65 years, but it was the fourth most common cause of death among Oregon residents aged 65 and older (see Table 6-4). Despite its relatively high frequency of occurrence, cerebrovascular disease ranked 10th by years of potential life lost (5,950), a consequence of the older ages of decedents compared to the relatively younger ages at death for many other causes (see Table 6-13). Nearly three-fourths of the deaths occurred after age 74 years, and the median age at death in 2017 held steady from the previous year at 84 years (see Table 6-6 and Table 6-15).

The age-adjusted cerebrovascular disease death rates for two counties during 2015–2017 were significantly higher than the state rate (37.9): Crook (56.1) and Multnomah (43.0). Two counties had a significantly lower rate: Benton (28.7) and Washington (33.6).

Oregon's cerebrovascular disease death rate typically exceeds the rate for the United States as a whole. In 2016, the age-

Figure 6-12.
Cerebrovascular disease death rates,
Oregon and the U.S., 1987-2017




Crude rates per 100,000 population.
Comparability ratios applied to data prior to 1999.

* For trend analysis, researchers should be aware of a coding change that occurred in 2005 when the National Center for Health Statistics altered the cause of death classification methodology. In prior years, "multi-infarct dementia" and "vascular dementia" were coded as forms of cerebrovascular disease (I63.9 and I67.9, respectively). Beginning in 2005, these diseases were coded as forms of organic dementia (F01.1 and F01.9, respectively). This coding change resulted in a drop in the number and rate of deaths attributed to cerebrovascular disease.

adjusted death rate was 1.3% higher than the nation's, ranking 25th among the states and the District of Columbia (see Table 6-55) (1).

Intracerebral hemorrhages and cerebral infarctions are two forms of cerebrovascular disease, but the more general term "stroke" appears most commonly on death records.

### Alzheimer's disease

Historically, the number of deaths from Alzheimer's disease has mirrored the aging of Oregon's population. Deaths from Alzheimer's disease fluctuated little in prior years but are now on the rise; they have increased from 1,786 in 2016 to 1,850 in 2017 — a record high for the fourth year in a row. The crude death rate from Alzheimer's disease increased 2.1%, from 43.8 per 100,000 in 2016 to 44.7 in 2017 (see Table 6-3).

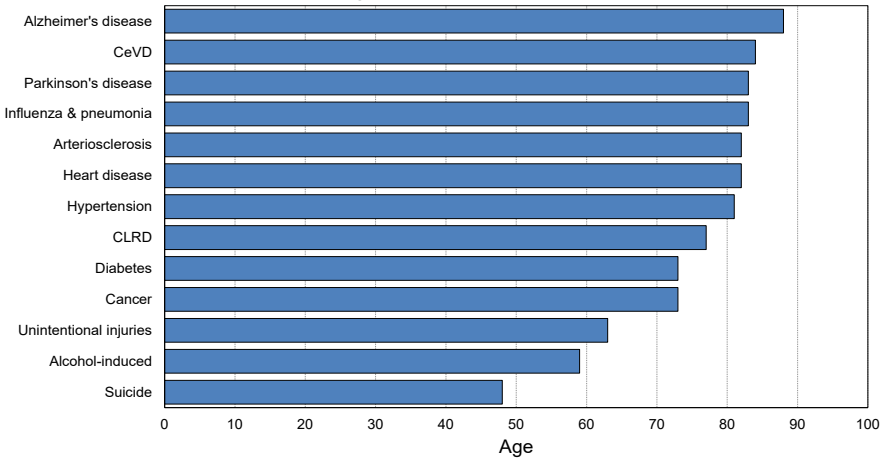
***Deaths due to Alzheimer's disease set a record high for the fourth consecutive year.***

The age-adjusted death rate from Alzheimer's disease also increased, from 34.5 in 2016 to 35.0 in 2017 (see Table 6-47t). The age-adjusted death rate from Alzheimer's disease held relatively steady during the past decade, but the 2017 age-adjusted rate is 117.4% higher than the 1990 rate (16.1). This is the largest increase seen among the 10 leading causes of death. Alzheimer's disease also contributed to 488 deaths of which it was not the underlying cause.

Women are at greater risk of dying from Alzheimer's disease, in part because they are less likely to die from causes that most commonly lead to death at younger ages. The age-adjusted Alzheimer's disease death rate for women was 40.6% higher than that for men (39.5 versus 28.1) (see Table 6-47m and Table 6-47f). Alzheimer's disease was the ninth leading cause of death among men but third among women (see Table 6-2).

People with Alzheimer's disease tend to die at an older age than people who die from other causes. In 2017, 92.5% of Alzheimer's deaths occurred after the decedent's 75th birthday (see Table 6-6). The median age at death from Alzheimer's disease was 88 years, unchanged from 2016 and the highest median age at death among Oregon's most common causes of death (see Table 6-15 and Figure 6-13). Alzheimer's disease was the sixth leading cause of death overall.

Figure 6-13.
Median age at death for selected causes of death,
Oregon residents, 2017




Five counties had significantly higher age-adjusted death rates from Alzheimer's disease than the state (34.1) during 2015–2017: Lane (49.5), Malheur (45.8), Coos (43.4) and Linn (41.2). Excluding those with fewer than 20 Alzheimer's deaths, five counties had significantly lower rates: Crook (18.2), Curry (22.2), Josephine (23.8), Marion (26.8) and Douglas (27.8).

Oregonians have long had higher rates than other U.S. residents of death from Alzheimer's disease. In 2016, the state's age-adjusted death rate was 14.9% higher than the nation's (34.8 and 30.3, respectively) and ranked 20th among the states and District of Columbia (see Table 6-55) (1).

Although this report counts deaths resulting from Alzheimer's disease, it does not count deaths attributed to dementia, organic dementia, presenile dementia, multi-infarct dementia and vascular dementia. ICD-10 codes F00 (dementia in Alzheimer's disease), F01 (vascular dementia) and F03 (unspecified dementia) include these causes (see Table 6-6).

As noted in the section on cerebrovascular disease, a coding change beginning in 2005 resulted in an increase in the number of deaths attributed to organic dementia and a decline in deaths from cerebrovascular disease (see Table 6-6, footnote 10 for more information). During 2017, the deaths of 2,138 Oregonians were attributed under the rubric "organic dementia" (ICD codes F01 and F03). Together, organic dementia and Alzheimer's disease/dementia accounted for

3,988 deaths, surpassing the third leading cause of death, chronic lower respiratory disease (2,088).

## Diabetes mellitus

During 2017, diabetes mellitus was the seventh leading cause of mortality in Oregon. The crude death rate for diabetes rose throughout most of the 1980s and 1990s, reaching a high of 31.1 per 100,000 population in 2005. The rate has since inched downward. The rate decreased slightly from 30.4 in 2016 to 30.0 in 2017 (see Table 6-3). The age-adjusted rate in 2017 (23.6) was 37.2% higher than the rate in 1990 (17.2) and 19.5% lower than 2005's record high (29.3) (see Figure 6-14 and Figure 6-15). Diabetes was a contributing factor more often than it was the underlying cause of death: 3,300 versus 1,243, respectively (see Table 6-51).

The diabetes crude death rate for males was 35.7% higher than the rate for females (34.6 versus 25.5) (see Table 6-2). The difference between male and female rates was even larger when looking at age-adjusted rates. The age-adjusted death rate for males was 61.3% higher than the rate for females (30.0 versus 18.6) (see Table 6-47m and Table 6-47f).

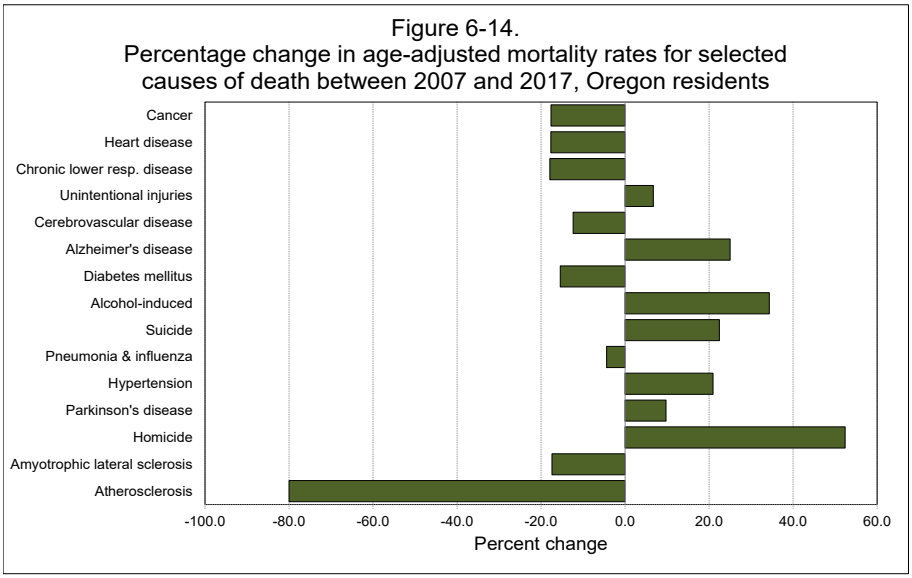
Most diabetes deaths (89.5%) occurred after age 54 years, and only three Oregonians younger than 25 years old died from diabetes in 2017. It was the fifth leading cause of death among Oregonians aged 55–74 years (see Table 6-4). The median age at death was unchanged from 2016 at 73 years (see Table 6-15). Diabetes resulted in a loss of 8,993 years of potential life (see Table 6-13).

**Table F - Diabetes age-adjusted death rates and state ranking**

| Year | U.S. | Oregon |
|---|---|---|
| 1982 | 17.2 | 12.2 |
| Percent difference: -29.1 | | |
| Rank: Lowest | | |
| 2016 | 21.0 | 24.0 |
| Percent difference: +14.3 | | |
| Rank: 11th highest | | |

***Oregon's 2016 age-adjusted diabetes death rate went from 21st to 11th highest, nationally.***

Figure 6-14.
Percentage change in age-adjusted mortality rates for selected causes of death between 2007 and 2017, Oregon residents



Six counties had significantly higher age-adjusted diabetes death rates compared to the state during 2015–2017 (23.5): Jefferson (40.5), Umatilla (34.9), Douglas (33.4), Linn (32.3), Coos (31.4) and Marion (30.0). Four counties had a significantly lower rate: Benton (15.8), Deschutes (16.1), Washington (18.6) and Clackamas (19.9).

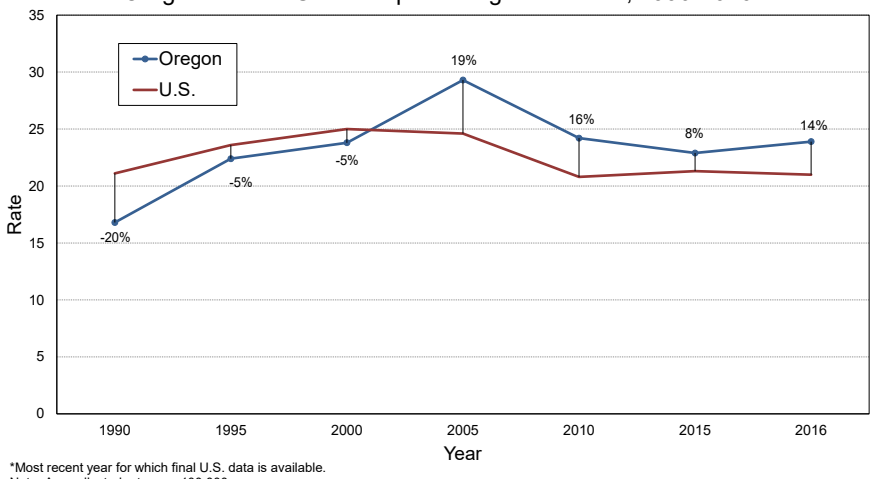
Prior to 1987, Oregon's age-adjusted diabetes death rate was consistently 25% to 30% lower than the national rate. Oregon's rate exceeded the U.S. rate for the first time in 1998 (13.7 per 100,000 population, versus 13.6). In 2016, Oregon's age-adjusted rate was 14.3% higher than the U.S. rate (24.0 per 100,000 population versus 21.0), ranking 11th among the states and District of Columbia (see Table 6-55 and Table F) (1).

## Alcohol-induced deaths*

The alcohol-induced deaths category summarizes alcohol-related deaths but excludes alcohol-related injury deaths. The National Center for Health Statistics' taxonomy does not typically report alcohol-related injury as a "leading cause of death." However, when alcohol conditions are combined, it becomes the eighth leading cause of death in Oregon. This category comprises alcohol-related disorders from multiple organ systems, with alcoholic liver disease accounting for the greatest number of deaths (59.5%,

* Chronic liver disease and cirrhosis, as well as nephritis, were not discussed as leading causes in the narrative section, although they would be ranked respectively as the ninth and 13th leading causes of death under the NCHS rubric. Most of these deaths were counted as alcohol-induced deaths in the narrative section.

Figure 6-15.
Age-adjusted diabetes mellitus death rates,
Oregon and the U.S. with percentage difference, 1990-2016*




*Most recent year for which final U.S. data is available.
Note: Age-adjusted rates per 100,000.

see Table G). If the category included intentional and unintentional injury deaths in which alcohol was a factor (e.g., motor vehicle crashes and homicides), the count would be considerably higher. Death records rarely report the role, if any, of alcohol in injury deaths.

| Table G - Alcohol-induced deaths by diagnoses, 2017 | |
|---|---|
| **Diagnosis** | **Count** |
| Alcoholic liver disease | 522 |
| Mental/behavioral disorders | 292 |
| Poisoning, accidental | 35 |
| Cardiomyopathy | 11 |
| Acute or chronic pancreatitis | 7 |
| Nervous system degeneration | 4 |
| Poisoning, suicide | 3 |
| Poisoning, undetermined intent | 3 |
| Gastritis | 2 |

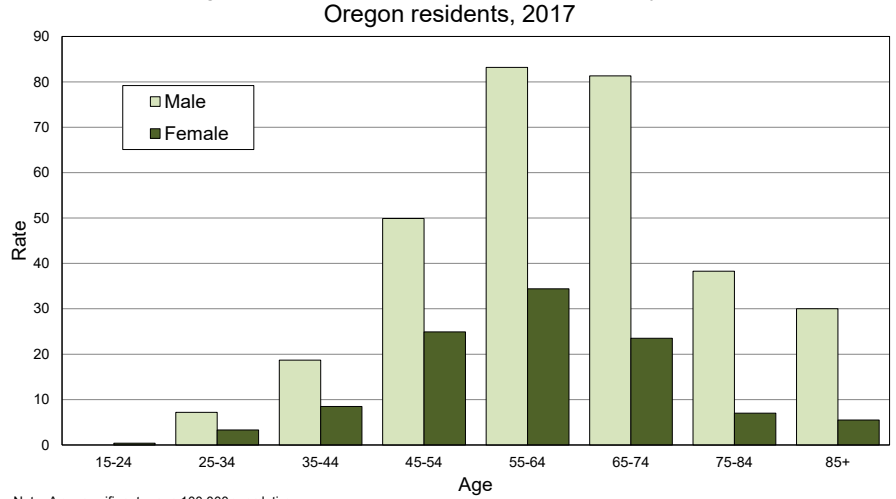
Alcohol-induced deaths claimed the lives of 878 Oregonians during 2017 (see Table 6-6). Alcohol was a contributing factor but not the direct cause in another 708 deaths (see Table 6-51). The crude death rate increased to 21.2 per 100,000 population in 2017 from 20.3 during 2016, and the age-adjusted death rate increased from 16.9 in 2016 to 17.6 in 2017 (see Table 6-47t).

Fatal alcohol abuse was the eighth leading cause of death among men and the 10th leading cause among women, but the difference was greater when age-adjusted. The age-adjusted death rate for males was 2.5 times the rate for females — 25.6 versus 10.2, respectively (see Table 6-47m and Table 6-47f).

Age-specific alcohol-induced death rates ranked third among the leading causes of death for residents aged 55–64 years (see Table 6-4 and Figure 6-16). This category was the fourth leading cause of death among residents aged 25–34 years and 45–54 years, and the fifth leading cause among those aged 35–44 years. The median age at death increased by one year –– to age 59 –– in 2017 (see Table 6-15). Oregonians are dying at markedly younger ages from this cause than they were in 1988, when the median age of alcohol-induced death was 62 years. In 2017, alcohol-

***Oregon's 2016 age-adjusted alcohol-induced death rate was the fifth highest nationally.***

Figure 6-16.
Age-specific alcohol-induced death rates, by sex,
Oregon residents, 2017




Note: Age-specific rates per 100,000 population.

induced death was the fifth leading cause of years of potential life lost (1,895; see Table 6-13).

Excluding counties with fewer than 20 deaths in this category, seven counties had age-adjusted alcohol-induced death rates significantly higher than the state's rate (17.7) during 2015–2017: Coos (41.0), Jefferson (32.9), Klamath (32.2), Wasco (31.2), Lincoln (31.0), Josephine (28.9) and Douglas (24.6). Rates were significantly below the state rate in four counties: Benton (11.0), Washington (11.1), Yamhill (12.4) and Clackamas (14.6).

The Oregon alcohol-induced death rate has long been higher than that for the United States. In 2016, Oregon's age-adjusted rate was 77.9% higher than the nation's and ranked fifth among the states and the District of Columbia (1). However, at least part of the difference between Oregon's and the national rate likely results from a reporting artifact; Oregon Center for Health Statistics staff ask physicians for more information when causes listed on death records (e.g., esophageal varices) suggest alcohol use, while many states do not.

**Table H - Number of times more likely a male Oregonian was to die by suicide than a female, by age, 2013-2017**

| | |
|---|---|
| 5-14 | 1.5 |
| 15-24 | 3.6 |
| 25-34 | 4.0 |
| 35-44 | 3.2 |
| 45-54 | 2.4 |
| 55-64 | 3.2 |
| 65-74 | 3.7 |
| 75-84 | 6.6 |
| 85+ | 12.3 |

## Suicide

Suicide was reported as the manner of death for 825 Oregonians during 2017, increasing from 771 deaths the previous year. The crude death rate reached a record high of 19.9 per 100,000 in 2017, up from 18.9 in 2016 (see Table 6-3). The age-adjusted death rate also saw a record high in 2017, increasing from 17.8 to 19.1 (see Table 6-47t).

***Oregon's suicide death rate reached a record high in 2017.***

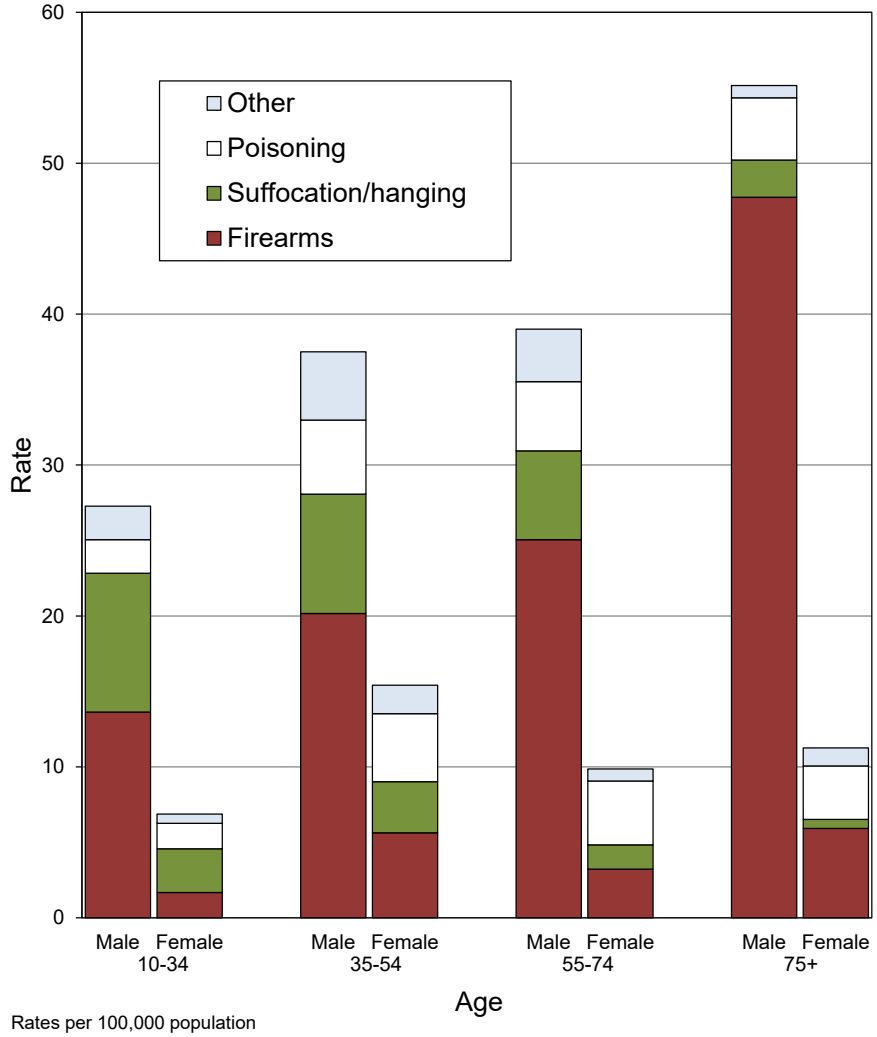
Males are more likely than females to die from suicide, with age-adjusted death rates of 29.7 and 9.1, respectively (see Table 6-47m and Table 6-47f). Sex-specific rate differences were greatest among the elderly (see Table H).

Overall, suicide rates peak among the elderly, but this masks a dichotomy between the sexes: Females were more likely to die by suicide in middle age, where the crude rate peaked at 19.1 among those 45 to 54 years old. In contrast, rates among males generally increased with age, with the highest crude rate (83.4) recorded among those aged 85 years and older (see Table 6-7t, Table 6-7m and Table 6-7f). Although suicide death rates are high among the elderly, 61.9% of deaths occurred before age 55, resulting in the fourth-largest number of years of potential life lost (22,602) by cause (see

Table 6-13). Suicide was the second leading cause of death among residents between the ages of 15 and 34 years; it was the third leading cause among those aged 5–14 years and 35–44 years, and fifth among those aged 45–54 years (see Table 6-4). The median age at death from suicide decreased from 50 to 48 years during 2017 (see Table 6-15). The youngest person to die by suicide was an 11-year-old male and the oldest a 96-year-old female.

Eight Oregon counties had age-adjusted suicide death rates significantly higher than the state's rate (18.2) during 2015–2017: Curry (43.9), Lincoln (31.3), Klamath and Tillamook (30.1), Josephine (28.1), Douglas (25.7), Jackson (23.4) and Deschutes (22.3). Three counties had significantly lower rates: Polk (10.7), Washington (12.9) and Multnomah (15.2). See Table I for more information.

Figure 6-17.
Suicide death rates by method, sex, and age,
Oregon residents, 2017



| Table I - Suicide characteristics by region, 2017 | | | |
|---|---|---|---|
| **Age** | **Metro[1]** | **Coastal[2]** | **Other** |
| <25 | 11.6% | 10.9% | 14.0% |
| 25-64 | 70.0% | 64.1% | 61.0% |
| 65+ | 18.4% | 25.0% | 25.0% |
| **Method** | **Metro[1]** | **Coastal[2]** | **Other** |
| Poison | 15.2% | 18.8% | 15.7% |
| Hanging/suff. | 26.0% | 14.1% | 20.5% |
| Firearm | 45.1% | 60.9% | 56.8% |
| Other | 13.7% | 6.3% | 7.0% |

[1] Metro counties: Clackamas, Multnomah, and Washington.
[2] Coastal counties: Clatsop, Coos, Curry, Lincoln, and Tillamook.

Oregonians have long had higher suicide rates than residents of most other states. In 2016, Oregon's age-adjusted suicide rate was 31.9% higher than the nation's and ranked 16th among the states and District of Columbia (1).

The method of suicide varied by age and sex but, overall, more than half of suicide deaths (53.2%) resulted from fatal gunshot injuries (see Table 6-33 and Figure 6-17). Firearms were the most common method of suicide for males (59.1%) and for females (34.4%). Handguns were used in 73.6% of firearm suicides.

Hanging/suffocation was the second most common method of suicide (21.8%). A higher proportion of females than males died by suicide in this manner (23.6% and 21.3%, respectively), although the method was the second most common for males and third most for females (see Table 6-33).

Poisoning was the third most common method of suicide overall (15.8%) and more common among females. The proportion of suicides among females from poisoning was approximately three times that among males (31.8% versus 10.7%). Drugs and medications were the most common method of suicide by poisoning for both females (83.9%) and males (56.7%) (see Table 6-33 and Table 6-35).

### Influenza and pneumonia

In 1918, influenza spread across the United States in less than a week and around the world in three months. The pandemic persisted into 1919, with influenza the leading cause of death in Oregon during both years. In 1918 alone, the pandemic claimed the lives of 2,105 Oregonians at a time when Oregon's population was much smaller than it is today.

During 2017, influenza and pneumonia was the 10th leading cause of death for Oregonians, claiming 573 lives, up from 452 a year earlier. The crude death rate increased from 11.1 in 2016 to 13.8 in 2017 (see Table 6-3). In addition, the age-adjusted rate increased from 8.8 to 10.9 (see Table 6-47t). Influenza and pneumonia contributed to 1,076 deaths –– nearly twice as many deaths as they directly caused (see Table 6-51).

Although more women than men died from these two infectious diseases in 2017 (291 versus 282, respectively, see Table 6-2), age-adjusted death rates revealed the greater risk

for males (12.8 per 100,000 population versus 9.4) (see Table 6-47m and Table 6-47f). Although these two related types of respiratory infections caused deaths across age groups, 69.3% of the deaths occurred after age 74. The median age at death increased from 80 in 2016 to 83 in 2017 (see Table 6-15).

Two counties had an age-adjusted influenza and pneumonia death rate significantly higher than the state rate (9.6) during 2015–2017: Coos (14.1) and Multnomah (11.6). Excluding those with fewer than 20 deaths in this category, one county had a rate significantly lower than that of the state: Washington (7.3).

***Oregon's 2016 age-adjusted influenza and pneumonia death rate was the third lowest in the nation.***

In recent years, Oregon's age-adjusted death rate for influenza and pneumonia has been markedly lower than the rates for most other states. In 2016, Oregon's age-adjusted death rate (8.9) was 34.1% lower than the U.S. rate (13.5) and the third-lowest of all states and the District of Columbia (see Table 6-55) (1).

### Hypertension

During 2017, 561 Oregonians died as a consequence of hypertension (including hypertensive renal disease, see Table 6-6), making it the 11th leading cause of death. However, the number of deaths attributed to hypertension does not include all deaths related to this cause because many have been classified to more specific manifestations of cardiovascular disease. The crude hypertension death rate decreased slightly — from 13.7 in 2016 to 13.5 in 2017 (see Table 6-3), which is 2.7 times higher than the 1990 rate of 5.0. The age-adjusted death rate also decreased slightly from 10.5 in 2016 to 10.4 in 2017 (see Table 6-47t).

The hypertension crude death rate for females was slightly higher than that for males (13.8 versus 13.3). However, the age-adjusted death rate for males was higher than the rate for females — 11.8 versus 9.2 (see Table 6-47m and Table 6-47f).

Deaths from hypertension are rare among middle-aged and younger Oregonians, but by age 55 years, the number of deaths begins to increase sharply. Age-specific hypertension death rates are 13.0 times as high among residents 85 years or older as among those aged 65–74 years (289.3 versus 22.3; see Table 6-7t).

Four counties had age-adjusted hypertension death rates significantly higher than the state rate (10.7) from 2015–2017: Wasco (18.6), Josephine and Douglas (14.6), and Linn (14.4).

Two counties had rates significantly lower than that of the state: Deschutes (6.6) and Clackamas (8.6).

Oregon's age-adjusted hypertension death rate was markedly lower than the U.S. rate through 1985, but this trend has since reversed. In 2016, Oregon's age-adjusted hypertension death rate was 23.3% higher than the U.S. rate (10.6 versus 8.6) and ranked eighth nationally (see Table 6-55) (1).

## Parkinson's disease

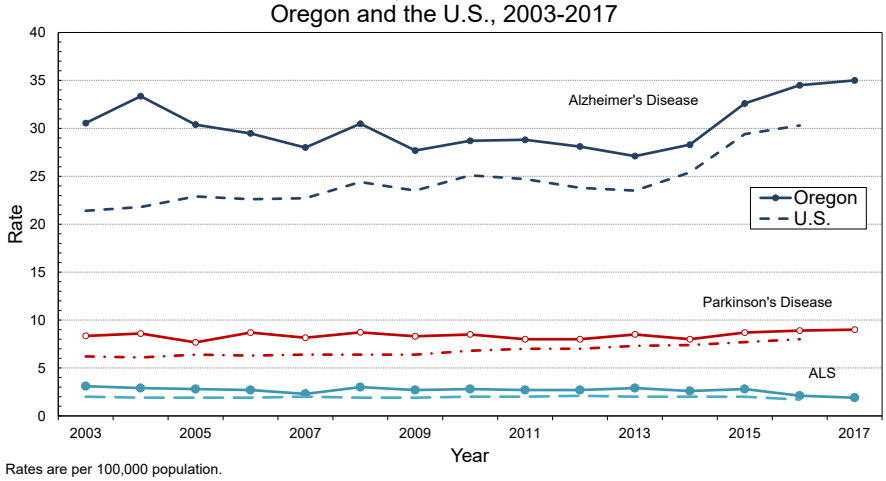
***Oregon's 2016 age-adjusted Parkinson's disease death rate was the seventh highest nationally.***

Ranking 12th among causes of death during 2017, Parkinson's disease claimed the lives of 465 Oregon residents. The crude death rate increased slightly to 11.2 per 100,000 population from 11.1 in 2016 (see Table 6-3). The 2017 age-adjusted death rate increased slightly from 8.9 in 2016 to 9.0 in 2017 (see Table 6-47t). While the mortality rates for many causes fell in recent decades, the rate for this neurological disorder continues to trend upward, despite short-term fluctuations (see Table 6-3). The age-adjusted Parkinson's death rate among males was 2.8 times as high as that among females (14.4 versus 5.2) (see Table 6-47m and Table 6-47f).

Parkinson's disease most often kills persons age 55 or older (see Table 6-6). The median age at death has fluctuated little during the previous decade, ranging between 82 and 84 years. The median age of death decreased slightly to 83 years, down from 84 years in 2016 (see Table 6-15).

Only one county had an age-adjusted rate significantly higher than the state rate (8.9) during 2015–2017: Deschutes (14.1). No counties had an age-adjusted rate significantly lower than the state rate.

Figure 6-18.
Age adjusted death rates for Alzheimer's disease, Parkinson's disease, and amyotrophic lateral sclerosis, Oregon and the U.S., 2003-2017




Rates are per 100,000 population.

Oregon's age-adjusted Parkinson's disease death rate has long been higher than the nation's, as have those of two other neurological disorders: Alzheimer's disease and amyotrophic lateral sclerosis (see Table 6-55 and Figure 6-18). During 2016, Oregon's age-adjusted Parkinson's disease death rate of 9.1 was 13.8% higher than the U.S. rate of 8.0 and ranked seventh among the states and District of Columbia (1).

## Viral hepatitis

Viral hepatitis deaths* peaked in 2013 with 234 deaths. Since that time, viral hepatitis deaths have declined each year and totaled 139 deaths in 2017 (see Table 6-3). The age-adjusted death rate also declined from 4.6 per 100,000 population to 2.6 over the same period (see Table 6-47t). Viral hepatitis ranked as the 19th leading cause of death among Oregonians in 2017 and resulted in 1,864 years of potential life lost. Consistent with previous years, more than 90% of viral hepatitis deaths (95.7% in 2017) were due to the hepatitis C virus.

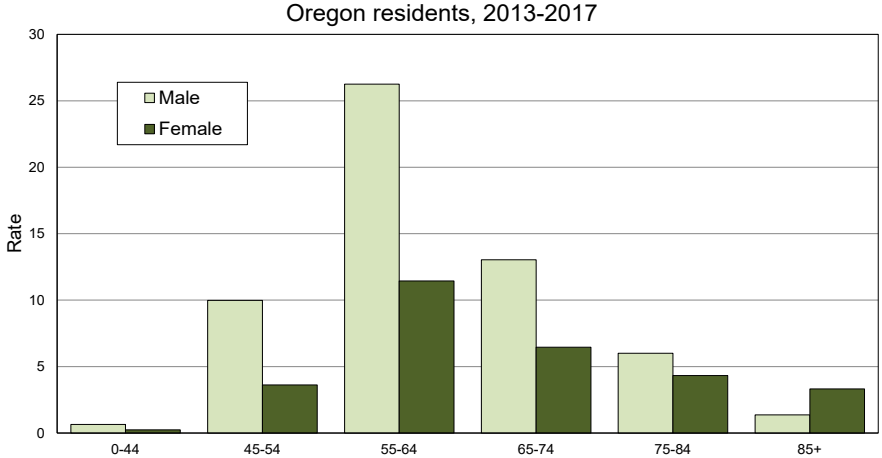
***Oregon's 2016 age-adjusted viral hepatitis death rate was the fourth highest nationally.***

There are large disparities by sex and age when looking at risk of death from viral hepatitis because it most often claims middle-aged males (see Figure 6-19). The male age-adjusted rate during 2013–2017† was more than twice the female rate (4.9 and 2.2, respectively; see Table 6-47m and Table 6-47f).

* This analysis is based on deaths where viral hepatitis was the underlying cause of death. Other data sources (e.g., CDC) use both the underlying and contributing causes of death to identify viral hepatitis deaths. As a result, CDC estimates will be higher than the estimates in this report.

† Data for five years were aggregated for this analysis because rates based on multiple years' data yield more representative values than those based on the relatively small numbers recorded for any single year.

Figure 6-19.
Age-specific viral hepatitis death rates, by sex,
Oregon residents, 2013-2017




Note: Age-specific rates per 100,000 population.

The median age at death from viral hepatitis has increased over time, from 59 in 2012 to 62 in 2017 (see Table 6-13).

In 2017, viral hepatitis was a contributing cause in 393 deaths, in addition to the 139 deaths where it was the underlying cause. Viral hepatitis is often associated with chronic liver disease and appeared as a contributing cause in 30.9% of liver cancer deaths and 8.0% of deaths from other liver diseases.

From 2013 to 2017, only six counties had 50 or more deaths due to viral hepatitis. Two of these counties had age-adjusted death rates significantly higher than the state rate (3.5): Jackson (4.9) and Multnomah (4.3). Two counties had rates significantly lower than the state rate: Washington (1.8) and Clackamas (2.3).

Oregon's viral hepatitis age-adjusted death rate is one of the highest in the nation. In 2016, it was 81.3% higher than the national rate and ranked fourth among 48 states and the District of Columbia (see Table 6-55) (1).

### Homicide

Oregon's homicide rate decreased in 2017 from 3.2 per 100,000 population in 2016 to 3.1 (see Table 6-3). With 128 victims, homicide was the 20th leading cause of death. Only two counties – Multnomah and Marion – had more than 10 residents die from homicide in 2017 (see Table 6-36).

Every year, more males than females are murdered, and 2017 was no exception. The male age-adjusted death rate increased from 4.6 per 100,000 population in 2016 to 4.8 in 2017, while the female rate decreased from 1.9 to 1.5. The total (both sexes) age-adjusted rate was 3.2 in 2017, unchanged from last year (see Table 6-47t, Table 6-47m and Table 6-47f).

Infants had higher homicide death rates than Oregonians in any other age category. During 2013–2017,* infants' homicide rate was 5.3 per 100,000 population. The group with the second-highest homicide death rate was aged 25–

* Data for five years were aggregated for analysis because rates based on multiple years' data yield more representative values than those based on the relatively small numbers recorded for any single year.

34 (4.6). Children between the ages of 5 and 14 years had a homicide death rate of 0.6, the lowest of all age groups during this period (see Figure 6-20).

The median age at death for homicide victims in 2017 was 39 years, which was an increase from the median age of 34 years in 2016 (see Table 6-15). However, homicide continues to have the lowest median age at death among the leading causes (except for causes associated with infancy). With 4,472 years of potential life lost, homicide was the 11th leading cause (see Table 6-13).

Excluding counties with fewer than 20 deaths in this category, one county had an age-adjusted homicide rate significantly higher than the state rate (3.3) during 2015–2017: Douglas (11.2). This is due in large part to a single shooting incident at Umpqua Community College on Oct. 1, 2015. One county had a significantly lower rate than the state: Washington (1.5).

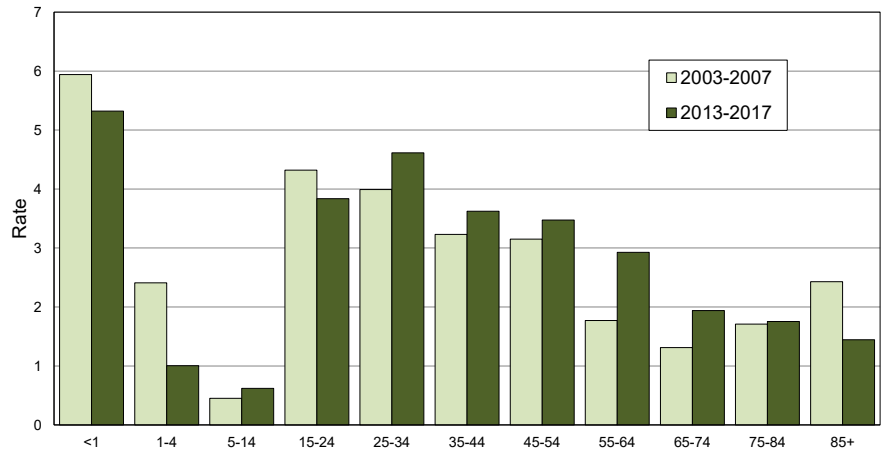
Historically, Oregon's homicide death rate has been markedly lower than the nation's. During 2016, the state's rate was 46.8% lower and ranked 37th among 47 states and the District of Columbia (see Table 6-55) (1).

Firearms were the most common implement of homicide, accounting for 74 (57.8%) of the homicide deaths in 2017 (see Table 6-33 and Table J).

**Table J - Leading methods of homicide, 2017**

| Method | Count |
|---|---|
| Firearms | 74 |
| Sharp Objects | 16 |
| Hanging/Strang./Suff. | 4 |
| Smoke/Fire/Flames | 4 |
| Blunt Objects | 2 |
| Bodily Force | 2 |

Figure 6-20.
Age-specific homicide rates, Oregon residents,
2003-2007 and 2013-2017




Note: Age-specific rates per 100,000 population.

## Drug-induced deaths

During 2017, fewer deaths were attributed to drug-related causes than to alcohol — 671 versus 878 (see Table 6-6). Drug-induced death is not considered a leading cause due to considerable overlap with other cause-of-death categories. Nevertheless, with a crude death rate of 16.2 per 100,000 population, drugs represented a significant cause of mortality among Oregonians (see Table 6-7t). The drug-induced death rate has trended up recently, and this year's rate is another record high, breaking the previous one (15.9) set in 2016.

***For the second consecutive year, Oregon's drug-induced death rate reached a record high in 2017.***

Males were more likely than females to die from drug-induced causes (see Figure 6-21). Their age-adjusted death rate was 19.4 per 100,000 population compared to 11.6 for females. More than half of all drug-induced deaths (58.7%) occurred among residents aged 35–64.

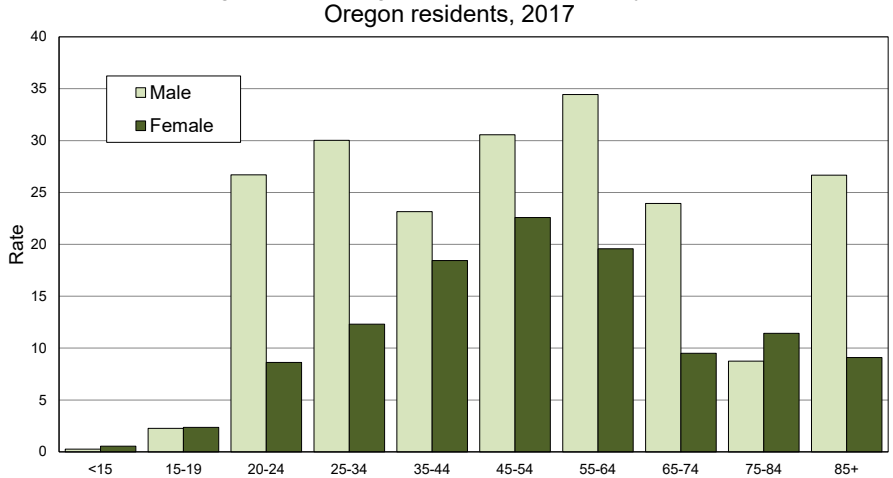
Excluding counties with fewer than 20 deaths in this category, four counties had age-adjusted rates significantly higher than the state rate (14.8) from 2015–2017: Curry (27.5), Josephine (21.0), Lane (20.9) and Multnomah (19.1). Three counties had rates significantly lower than that of the state: Benton (8.8), Washington (9.1) and Clackamas (11.3).

This category consists of ICD codes included in other cause-of-death rubrics, with most deaths categorized as mental disorders, unintentional injuries and suicide.

## Maternal deaths

Before 2006, the category for maternal death (ICD10 codes O00–O99) included only fatalities where the female was

Figure 6-21.
Age-specific drug-induced death rates, by sex,
Oregon residents, 2017

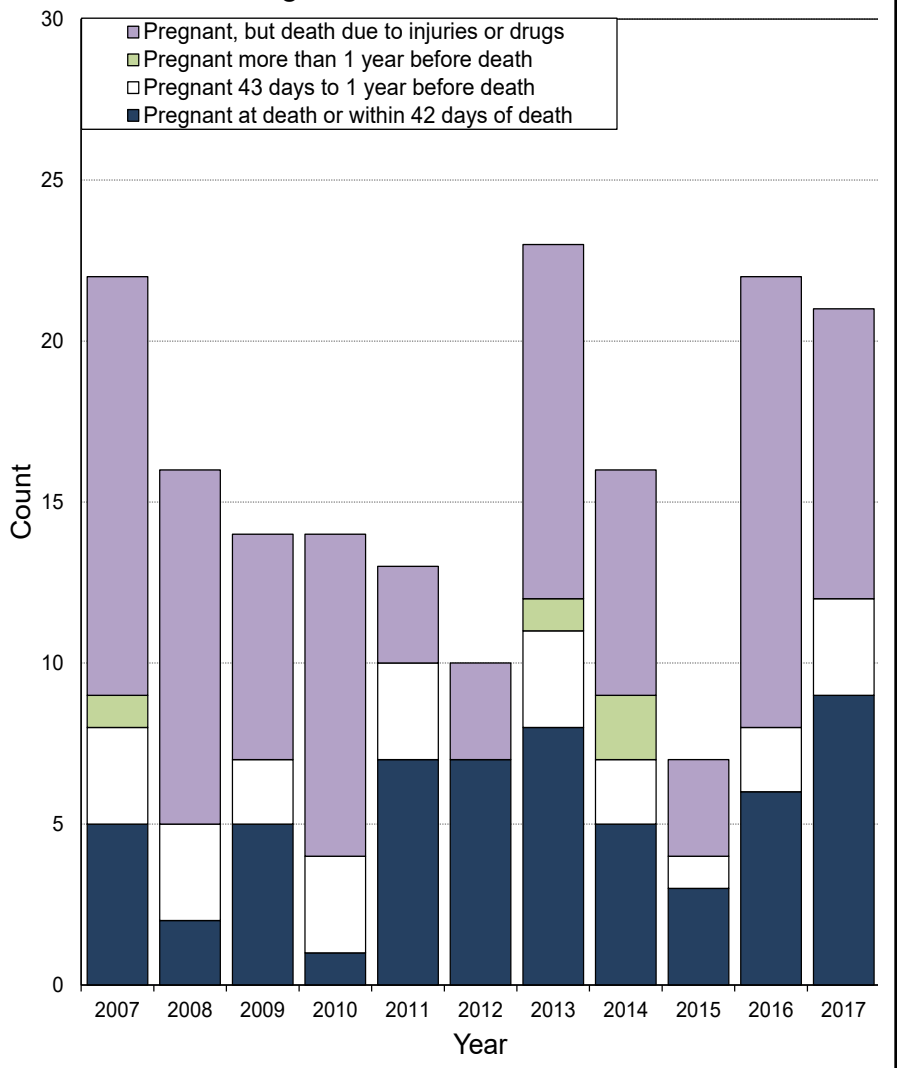



Note: Age-specific rates per 100,000 population.

either pregnant at the time of death or pregnant within 42 days before death. In addition, for every death of a female between 17 and 44 attributable to such causes as infections, cerebrovascular disease, digestive diseases or ill-defined unknown causes, the Center for Health Statistics re-contacted the physician and asked whether the woman was pregnant at the time of death or within 42 days before death. These queries might typically yield one additional maternal death record. However, the records queried were small in number.

Beginning in 2006, Oregon modified the reporting of maternal deaths by adding to the death record an item-specific checkbox under the section for causes of death.

Figure 6-22.
Number of deaths with pregnancy indicated,
Oregon residents, 2007-2017



For all female decedents 10–60 years of age, the medical certifier must now indicate whether the decedent was pregnant at death, pregnant within 42 days before death or pregnant before one year of death. As shown in Figure 6-22, the addition of this question has increased the count of maternal deaths. Under this expanded definition, 2017 saw 12 maternal deaths in Oregon.

### Male veteran deaths

In 2017, there were 9,439 deaths among veterans — 331 women and 9,108 men. Due to the small number of female veterans in Oregon, throughout this section of the report the terms "non-veterans" and "veterans" refer only to males aged 18 and older. Table 6-22 contains cause-of-death information for veterans and non-veterans. Male veteran population estimates for rate calculations came from the U.S. Department of Veteran Affairs, VetPop 2017 State Data Tables (2), and those shown in Appendix A, Table A-3.

The death rate for veterans in 2017 was almost five times as high as the rate for non-veterans (3,274.0 per 100,000 population versus 707.6), but much of this difference was due to a larger number of veterans in the older age groups. While the age-specific death rates for veterans exceeded those for non-veterans in all age groups, the difference was significant only among those aged 55–74 (2,012.8 versus 1,299.2) and aged 75 and up (8,955.5 versus 5,707.9). Rate differences for those aged 18–34 (186.5 versus 126.3) and aged 35–54 (312.5 versus 297.9) were not significant (see Table 6-22).

The top two causes of both veteran and non-veteran deaths in 2017 were heart disease and cancer. The third most cited cause of death was chronic lower respiratory disease (CLRD) for veterans and unintentional injuries for non-veterans (see Table 6-22). Because there are more veteran deaths than non-veteran deaths in the oldest age group, veteran death rates for causes seen primarily in older persons (e.g., CLRD) tend to be higher for veterans than for non-veterans.

### Male veterans and suicide

Suicide is the ninth leading cause of death for veterans and the fourth leading cause of death for non-veterans. However, the overall veteran suicide rate was almost 70% higher than for non-veterans (57.2 versus 34.3). The suicide rates for

veterans were higher than the rates for non-veterans in all age groups. The difference in rates was greatest among those 18–34, where the veteran suicide rate is almost three times higher than the rate for non-veterans (88.4 versus 32.4) (see Table 6-22). The second greatest difference in rates was in the 35–54 age group, in which the veteran suicide rate was almost twice as high as the rate for non-veterans (63.6 versus 34.0) (see Table 6-22).

Among veterans who died from suicide between 2015 and 2017*, 32.0% had been in combat and 56.5% were non-combat veterans (combat status was unknown for 11.5% of veterans). Combat veterans aged 18–49 had a higher percentage of deaths due to suicide than non-combat veterans (37.1% versus 29.4%), while combat veterans aged 50 or older's percentage was similar to non-combat veterans (1.2% versus 1.5%).

### Deaths due to military operations

The Oregon vital statistics data files do not include deaths among Oregon residents who died in military operations outside the United States. Death records of military personnel are registered with the U.S. Department of Defense, which does not forward the records to the decedents' state of residence. However, these deaths (with each decedent's name, date of death, home city, age and sex) are posted weekly on the Department of Defense's website.† In 2017, no Oregon residents died in military operations.

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* Data for three years were aggregated for analysis because statistics based on multiple years' data yield more representative values than those based on the relatively small numbers recorded for any single year.

† Counts of Oregon residents who died in military operations outside the United States were obtained from U.S. Department of Defense: https://www.dmdc.osd.mil/dcas/pages/casualties.xhtml. Accessed Sept. 7, 2018.

## Endnotes

1. Centers for Disease Control and Prevention. CDC WONDER database. [cited 2019 Feb 26.] Available at: http://wonder.cdc.gov/mortSQL.html.

   These data are from the federal Centers for Disease Control and Prevention's (CDC) WONDER online database. 2016 was the last year of available mortality data when this report was compiled Oregon mortality data from the WONDER database may vary slightly from Oregon data presented elsewhere within this annual report due to different file closure dates, different population estimate methodologies, out-of-state reporting by other states to CDC and incorporation of Oregon's physician query results.

2. U.S. Department of Veteran Affairs, Table 6L: VetPop2016 living veterans by state, age group, gender, 2015–2045 [cited 2018 June 16.] Available at: www.va.gov/vetdata/Veteran_Population.asp.

   Male veteran population estimates for calculating crude death rates were obtained from this table.

**TABLE 6-1. Age-specific death rates by sex, Oregon residents, 1940-2017 (selected years)**

| Year and sex | Total | Age groups | | | | | |
|---|---|---|---|---|---|---|---|
| | | 0-4 | 5-14 | 15-24 | 25-44 | 45-64 | 65+ |
| **1940 deaths** | 1141.2 | 953.9 | 116.6 | 199.1 | 317.7 | 1322.7 | 7154.3 |
| Male | 1336.2 | 1122.6 | 140.5 | 267.4 | 374.5 | 1650.8 | 7831.0 |
| Female | 912.7 | 788.1 | 91.9 | 130.4 | 258.2 | 944.7 | 6395.2 |
| **1950 deaths** | 912.9 | 588.1 | 61.7 | 148.2 | 242.0 | 1105.7 | 5836.7 |
| Male | 1097.2 | 459.9 | 74.1 | 226.0 | 317.4 | 1411.4 | 6619.2 |
| Female | 722.6 | 515.6 | 48.7 | 73.0 | 166.0 | 711.9 | 5025.0 |
| **1960 deaths** | 949.1 | 566.3 | 42.5 | 107.0 | 210.5 | 1053.1 | 5796.9 |
| Male | 1141.2 | 640.3 | 53.3 | 158.4 | 273.3 | 1420.3 | 6854.2 |
| Female | 758.9 | 489.7 | 31.2 | 58.3 | 149.9 | 679.0 | 4838.8 |
| **1970 deaths** | 933.8 | 411.4 | 42.9 | 134.4 | 184.4 | 1015.1 | 5617.3 |
| Male | 1107.6 | 437.8 | 56.5 | 198.9 | 241.7 | 1375.4 | 6893.0 |
| Female | 767.2 | 383.9 | 28.7 | 74.4 | 128.7 | 670.2 | 4607.6 |
| **1980 deaths** | 826.4 | 310.7 | 31.9 | 115.8 | 140.8 | 870.8 | 4977.2 |
| Male | 931.8 | 333.9 | 36.9 | 167.8 | 193.4 | 1157.4 | 6013.3 |
| Female | 724.1 | 286.1 | 26.7 | 63.6 | 87.5 | 602.9 | 4209.3 |
| **1990 deaths** | 882.1 | 215.0 | 21.2 | 97.3 | 142.7 | 711.7 | 4872.9 |
| Male | 935.0 | 237.8 | 21.3 | 142.2 | 204.2 | 889.7 | 5591.3 |
| Female | 831.0 | 191.1 | 21.0 | 50.6 | 81.2 | 540.2 | 4349.3 |
| **2000 deaths** | 859.6 | 141.1 | 15.9 | 70.0 | 128.7 | 556.0 | 5225.4 |
| Male | 850.6 | 172.7 | 16.7 | 101.4 | 160.8 | 682.3 | 5589.6 |
| Female | 868.4 | 107.9 | 15.0 | 37.0 | 95.5 | 432.2 | 4957.1 |
| **2010 deaths** | 829.8 | 114.0 | 10.7 | 52.5 | 111.7 | 591.8 | 4626.4 |
| Male | 828.5 | 126.0 | 11.8 | 76.8 | 144.3 | 719.3 | 4766.7 |
| Female | 831.1 | 101.4 | 9.5 | 27.1 | 77.1 | 467.1 | 4513.2 |
| **2015 deaths** | 889.6 | 108.4 | 11.5 | 59.1 | 125.4 | 618.5 | 4143.3 |
| Male | 908.9 | 122.5 | 13.1 | 85.5 | 163.8 | 760.5 | 4314.0 |
| Female | 870.9 | 93.4 | 9.8 | 31.6 | 86.7 | 481.8 | 4003.2 |
| **2016 deaths** | 878.2 | 103.2 | 11.7 | 69.5 | 121.1 | 614.0 | 3985.0 |
| Male | 914.2 | 110.6 | 14.7 | 96.4 | 160.0 | 750.9 | 4254.5 |
| Female | 843.1 | 94.6 | 8.5 | 41.7 | 81.9 | 482.2 | 3762.8 |
| **2017 deaths** | 884.8 | 111.9 | 14.9 | 65.8 | 128.5 | 608.9 | 3949.4 |
| Male | 915.0 | 125.1 | 15.6 | 92.4 | 166.0 | 753.8 | 4170.9 |
| Female | 855.2 | 98.0 | 14.3 | 38.1 | 90.6 | 469.3 | 3766.5 |

All rates per 100,000 population within the specific age groups.

**TABLE 6-2. Leading causes of death for males and females by rank order, number, rate, percent, and median age at death, Oregon residents, 2017**

| Cause of death in rank order | Rank | No. | Rate[1] | Pct. | Median age |
|---|---|---|---|---|---|
| **Males** | | | | | |
| **Total** | | 18,689 | 915.0 | 100.0 | 74 |
| Malignant neoplasms | 1 | 4,194 | 205.3 | 22.4 | 73 |
| Diseases of the heart | 2 | 3,761 | 184.1 | 20.1 | 78 |
| Unintended injuries | 3 | 1,268 | 62.1 | 6.8 | 58 |
| Chronic lower respiratory disease | 4 | 949 | 46.5 | 5.1 | 75 |
| Cerebrovascular disease | 5 | 890 | 43.6 | 4.8 | 81 |
| Diabetes mellitus | 6 | 707 | 34.6 | 3.8 | 72 |
| Suicide | 7 | 629 | 30.8 | 3.4 | 48 |
| Alcohol-induced | 8 | 622 | 30.5 | 3.3 | 60 |
| Alzheimer's disease | 9 | 569 | 27.9 | 3.0 | 87 |
| Parkinson's disease | 10 | 305 | 14.9 | 1.6 | 82 |
| Influenza & pneumonia | 11 | 282 | 13.8 | 1.5 | 80 |
| Hypertension & hyp. renal disease | 12 | 272 | 13.3 | 1.5 | 76 |
| Nephritis, nephrotic syndrome, etc. | 13 | 203 | 9.9 | 1.1 | 78 |
| Septicemia | 14 | 122 | 6.0 | 0.7 | 73 |
| Neoplasms not known to be malignant | 15 | 121 | 5.9 | 0.6 | 78 |
| Aortic aneurysm | 16 | 110 | 5.4 | 0.6 | 77 |
| Homicide | 17 | 97 | 4.7 | 0.5 | 38 |
| Viral hepatitis | 18 | 89 | 4.4 | 0.5 | 62 |
| Pneumonitis due to solids & liquids | 19 | 77 | 3.8 | 0.4 | 84 |
| Congenital malformations | 20 | 72 | 3.5 | 0.4 | 40 |
| **Females** | | | | | |
| **Total** | | 17,949 | 855.2 | 100.0 | 81 |
| Malignant neoplasms | 1 | 3,890 | 185.4 | 21.7 | 73 |
| Diseases of the heart | 2 | 3,183 | 151.7 | 17.7 | 86 |
| Alzheimer's disease | 3 | 1,281 | 61.0 | 7.1 | 89 |
| Cerebrovascular disease | 4 | 1,176 | 56.0 | 6.6 | 86 |
| Chronic lower respiratory disease | 5 | 1,139 | 54.3 | 6.3 | 78 |
| Unintended injuries | 6 | 805 | 38.4 | 4.5 | 77 |
| Diabetes mellitus | 7 | 536 | 25.5 | 3.0 | 75 |
| Influenza & pneumonia | 8 | 291 | 13.9 | 1.6 | 86 |
| Hypertension & hyp. renal disease | 9 | 289 | 13.8 | 1.6 | 86 |
| Alcohol-induced | 10 | 256 | 12.2 | 1.4 | 58 |
| Suicide | 11 | 195 | 9.3 | 1.1 | 48 |
| Nephritis, nephrotic syndrome, etc. | 12 | 174 | 8.3 | 1.0 | 83 |
| Parkinson's disease | 13 | 160 | 7.6 | 0.9 | 83 |
| Septicemia | 14 | 120 | 5.7 | 0.7 | 76 |
| Neoplasms not known to be malignant | 15 | 103 | 4.9 | 0.6 | 81 |
| Pneumonitis due to solids & liquids | 16 | 77 | 3.7 | 0.4 | 83 |
| Congenital malformations | 17 | 72 | 3.4 | 0.4 | 11 |
| Aortic aneurysm | 18 | 69 | 3.3 | 0.4 | 80 |
| Nutritional deficiencies | 19 | 60 | 2.9 | 0.3 | 87 |
| Viral hepatitis | 20 | 50 | 2.4 | 0.3 | 63 |

[1] All rates per 100,000 population.

**TABLE 6-3. Selected leading causes of death with rates, Oregon residents, 1998-2017**

| Year | Total | Cancer | Major cardiovascular diseases | | | | CLRD | Alzheimer's disease | Diabetes mellitus |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heart disease | CeVD | HBP | Arterio-sclerosis | | | |
| **Number of deaths** | | | | | | | | | |
| 1998 ..... | 29,346 | 7,072 | 7,168 | 2,768 | 224 | 220 | 1,705 | 806 | 887 |
| 1999 ..... | 29,356 | 6,903 | 7,252 | 2,817 | 246 | 198 | 1,762 | 868 | 855 |
| 2000 ..... | 29,541 | 6,989 | 7,104 | 2,567 | 225 | 230 | 1,696 | 905 | 847 |
| 2001 ..... | 30,128 | 7,091 | 7,086 | 2,604 | 312 | 195 | 1,743 | 1,038 | 1,033 |
| 2002 ..... | 31,082 | 7,232 | 7,245 | 2,639 | 353 | 210 | 1,842 | 1,125 | 1,034 |
| 2003 ..... | 30,813 | 7,217 | 7,008 | 2,548 | 345 | 205 | 1,818 | 1,149 | 1,032 |
| 2004 ..... | 30,201 | 7,227 | 6,687 | 2,322 | 358 | 174 | 1,770 | 1,263 | 1,072 |
| 2005 ..... | 30,854 | 7,277 | 6,721 | 2,268 | 429 | 191 | 1,822 | 1,231 | 1,131 |
| 2006 ..... | 31,304 | 7,295 | 6,588 | 1,973 | 362 | 118 | 1,820 | 1,228 | 1,139 |
| 2007 ..... | 31,433 | 7,398 | 6,632 | 1,833 | 361 | 124 | 1,886 | 1,195 | 1,114 |
| 2008 ..... | 32,020 | 7,484 | 6,516 | 1,909 | 406 | 92 | 1,950 | 1,299 | 1,030 |
| 2009 ..... | 31,547 | 7,470 | 6,226 | 1,900 | 424 | 79 | 1,935 | 1,212 | 1,069 |
| 2010 ..... | 31,899 | 7,630 | 6,191 | 1,787 | 442 | 69 | 1,973 | 1,297 | 1,052 |
| 2011 ..... | 32,731 | 7,768 | 6,215 | 1,906 | 449 | 88 | 2,031 | 1,325 | 1,114 |
| 2012 ..... | 32,475 | 7,761 | 6,109 | 1,745 | 500 | 53 | 1,901 | 1,320 | 1,122 |
| 2013 ..... | 33,931 | 7,798 | 6,497 | 1,769 | 523 | 59 | 2,025 | 1,311 | 1,111 |
| 2014 ..... | 34,160 | 7,862 | 6,523 | 1,821 | 499 | 41 | 1,958 | 1,412 | 1,083 |
| 2015 ..... | 35,709 | 8,094 | 6,858 | 1,869 | 567 | 47 | 2,118 | 1,650 | 1,149 |
| 2016 ..... | 35,799 | 8,076 | 6,972 | 1,944 | 557 | 49 | 2,081 | 1,786 | 1,240 |
| 2017 ..... | 36,640 | 8,084 | 6,945 | 2,066 | 561 | 31 | 2,088 | 1,850 | 1,243 |
| **Rate per 100,000 population** | | | | | | | | | |
| 1998 ..... | 898.1 | 216.4 | 219.4 | 84.7 | 6.9 | 6.7 | 52.2 | 24.7 | 27.1 |
| 1999 ..... | 889.4 | 209.1 | 219.7 | 85.3 | 7.5 | 6.0 | 53.4 | 26.3 | 25.9 |
| 2000 ..... | 859.6 | 203.4 | 206.7 | 74.7 | 6.5 | 6.7 | 49.3 | 26.3 | 24.6 |
| 2001 ..... | 867.8 | 204.3 | 204.1 | 75.0 | 9.0 | 5.6 | 50.2 | 29.9 | 29.8 |
| 2002 ..... | 886.9 | 206.4 | 206.7 | 75.3 | 10.1 | 6.0 | 52.6 | 32.1 | 29.5 |
| 2003 ..... | 870.1 | 203.8 | 197.9 | 71.9 | 9.7 | 5.8 | 51.3 | 32.4 | 29.1 |
| 2004 ..... | 843.0 | 201.7 | 186.7 | 64.8 | 10.0 | 4.9 | 49.4 | 35.3 | 29.9 |
| 2005 ..... | 849.6 | 200.4 | 185.1 | 62.5 | 11.8 | 5.3 | 50.2 | 33.9 | 31.1 |
| 2006 ..... | 848.2 | 197.7 | 178.5 | 53.5 | 9.8 | 3.2 | 49.3 | 33.3 | 30.9 |
| 2007 ..... | 839.2 | 197.5 | 177.1 | 48.9 | 9.6 | 3.3 | 50.4 | 31.9 | 29.7 |
| 2008 ..... | 844.6 | 197.4 | 171.9 | 50.4 | 10.7 | 2.4 | 51.4 | 34.3 | 27.2 |
| 2009 ..... | 825.1 | 195.4 | 162.8 | 49.7 | 11.1 | 2.1 | 50.6 | 31.7 | 28.0 |
| 2010 ..... | 829.8 | 198.5 | 161.0 | 46.5 | 11.5 | 1.8 | 51.3 | 33.7 | 27.4 |
| 2011 ..... | 848.5 | 201.4 | 161.1 | 49.4 | 11.6 | 2.3 | 52.6 | 34.3 | 28.9 |
| 2012 ..... | 836.2 | 199.8 | 157.3 | 44.9 | 12.9 | 1.4 | 48.9 | 34.0 | 28.9 |
| 2013 ..... | 865.8 | 199.0 | 165.8 | 45.1 | 13.3 | 1.5 | 51.7 | 33.5 | 28.3 |
| 2014 ..... | 862.0 | 198.4 | 164.6 | 46.0 | 12.6 | 1.0 | 49.4 | 35.6 | 27.3 |
| 2015 ..... | 889.6 | 201.7 | 170.9 | 46.6 | 14.1 | 1.2 | 52.8 | 41.1 | 28.6 |
| 2016 ..... | 878.2 | 198.1 | 171.0 | 47.7 | 13.7 | 1.2 | 51.1 | 43.8 | 30.4 |
| 2017 ..... | 884.8 | 195.2 | 167.7 | 49.9 | 13.5 | 0.7 | 50.4 | 44.7 | 30.0 |

Abbreviations: CeVD = Cerebrovascular disease; HBP = Hypertensive blood pressure; CLRD = Chronic lower respiratory disease.

Note: Beginning in 1999, causes of death were classified using the rubrics and methodology of the tenth revision of the International Classification of Disease (which supplanted the ninth revision). Final comparability ratios have been applied to death rates for all causes except alcohol-induced deaths, Alzheimer's disease, and firearms, where they were not available/apposite to Oregon data. See the Technical Notes in Appendix B for further information. See annual reports prior to 2003 for unadjusted figures.

**TABLE 6-3. Selected leading causes of death with rates, Oregon residents, 1998-2017**

| Year | Alcohol-induced | Pneumonia & influenza | Parkinson's disease | Viral hepatitis | External cause | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Unintentional injuries | Suicide | Firearms (any manner) | Homicide |
| **Number of deaths** | | | | | | | | |
| 1998 | 380 | 704 | 278 | 76 | 1,371 | 570 | 441 | 134 |
| 1999 | 304 | 684 | 256 | 45 | 1,144 | 499 | 391 | 109 |
| 2000 | 383 | 637 | 278 | 77 | 1,211 | 502 | 378 | 93 |
| 2001 | 431 | 576 | 293 | 92 | 1,257 | 524 | 360 | 107 |
| 2002 | 442 | 661 | 306 | 128 | 1,382 | 517 | 376 | 106 |
| 2003 | 518 | 633 | 310 | 95 | 1,388 | 589 | 393 | 91 |
| 2004 | 510 | 554 | 321 | 107 | 1,423 | 555 | 383 | 112 |
| 2005 | 536 | 606 | 298 | 93 | 1,427 | 559 | 400 | 103 |
| 2006 | 473 | 522 | 346 | 90 | 1,579 | 573 | 381 | 111 |
| 2007 | 542 | 481 | 327 | 183 | 1,643 | 604 | 387 | 80 |
| 2008 | 540 | 519 | 352 | 169 | 1,694 | 581 | 387 | 99 |
| 2009 | 571 | 509 | 344 | 175 | 1,577 | 640 | 413 | 102 |
| 2010 | 571 | 419 | 356 | 179 | 1,557 | 685 | 458 | 114 |
| 2011 | 644 | 396 | 349 | 184 | 1,705 | 639 | 417 | 107 |
| 2012 | 670 | 379 | 362 | 160 | 1,659 | 717 | 442 | 110 |
| 2013 | 713 | 501 | 394 | 234 | 1,732 | 697 | 461 | 90 |
| 2014 | 760 | 449 | 381 | 210 | 1,796 | 781 | 497 | 99 |
| 2015 | 894 | 453 | 428 | 182 | 1,987 | 761 | 486 | 139 |
| 2016 | 829 | 452 | 452 | 159 | 2,108 | 771 | 510 | 129 |
| 2017 | 878 | 573 | 465 | 139 | 2,073 | 825 | 529 | 128 |
| **Rate per 100,000 population** | | | | | | | | |
| 1998 | 11.6 | 21.6 | 8.5 | 2.3 | 41.9 | 17.5 | 13.5 | 4.1 |
| 1999 | 9.2 | 20.7 | 7.8 | 1.4 | 34.7 | 15.1 | 11.8 | 3.3 |
| 2000 | 11.1 | 18.5 | 8.1 | 2.2 | 35.2 | 14.6 | 11.0 | 2.7 |
| 2001 | 12.4 | 16.6 | 8.4 | 2.6 | 36.2 | 15.1 | 10.4 | 3.1 |
| 2002 | 12.6 | 18.9 | 8.7 | 3.7 | 39.4 | 14.8 | 10.7 | 3.0 |
| 2003 | 14.6 | 17.9 | 8.8 | 2.7 | 39.2 | 16.6 | 11.1 | 2.6 |
| 2004 | 14.2 | 15.5 | 9.0 | 3.0 | 39.7 | 15.5 | 10.7 | 3.1 |
| 2005 | 14.8 | 16.7 | 8.2 | 2.6 | 39.3 | 15.4 | 11.0 | 2.8 |
| 2006 | 12.8 | 14.1 | 9.4 | 2.4 | 42.8 | 15.5 | 10.3 | 3.0 |
| 2007 | 14.5 | 12.8 | 8.7 | 4.9 | 43.9 | 16.1 | 10.3 | 2.1 |
| 2008 | 14.2 | 13.7 | 9.3 | 4.5 | 44.7 | 15.3 | 10.2 | 2.6 |
| 2009 | 14.9 | 13.3 | 9.0 | 4.6 | 41.2 | 16.7 | 10.8 | 2.7 |
| 2010 | 14.9 | 10.9 | 9.3 | 4.7 | 40.5 | 17.8 | 11.9 | 3.0 |
| 2011 | 16.7 | 10.3 | 9.0 | 4.8 | 44.2 | 16.6 | 10.8 | 2.8 |
| 2012 | 17.3 | 9.8 | 9.3 | 4.1 | 42.7 | 18.5 | 11.4 | 2.8 |
| 2013 | 18.2 | 12.8 | 10.1 | 6.0 | 44.2 | 17.8 | 11.8 | 2.3 |
| 2014 | 19.2 | 11.3 | 9.6 | 5.3 | 45.3 | 19.7 | 12.5 | 2.5 |
| 2015 | 22.3 | 11.3 | 10.7 | 4.5 | 49.5 | 19.0 | 12.1 | 3.5 |
| 2016 | 20.3 | 11.1 | 11.1 | 3.9 | 51.7 | 18.9 | 12.5 | 3.2 |
| 2017 | 21.2 | 13.8 | 11.2 | 3.4 | 50.1 | 19.9 | 12.8 | 3.1 |

Abbreviations: CeVD = Cerebrovascular disease; HBP = Hypertensive blood pressure; CLRD = Chronic lower respiratory disease.

Note: Beginning in 1999, causes of death were classified using the rubrics and methodology of the tenth revision of the International Classification of Disease (which supplanted the ninth revision). Final comparability ratios have been applied to death rates for all causes except alcohol-induced deaths, Alzheimer's disease, and firearms, where they were not available/apposite to Oregon data. See the Technical Notes in Appendix B for further information. See annual reports prior to 2003 for unadjusted figures.

**TABLE 6-4. Leading causes of death by age group and sex, Oregon residents, 2017**

| Cause of death in rank order | Rank | Total[1] | | | Male | | Female | |
|---|---|---|---|---|---|---|---|---|
| | | No. | Rate[2] | Pct. | No. | Rate[2] | No. | Rate[2] |
| ***All ages*** | | | | | | | | |
| **Total** | | 36,640 | 884.8 | 100.0 | 18,689 | 915.0 | 17,949 | 855.2 |
| Malignant neoplasms | 1 | 8,084 | 195.2 | 22.1 | 4,194 | 205.3 | 3,890 | 185.4 |
| Heart disease | 2 | 6,945 | 167.7 | 19.0 | 3,761 | 184.1 | 3,183 | 151.7 |
| Chronic lower respiratory disease | 3 | 2,088 | 50.4 | 5.7 | 949 | 46.5 | 1,139 | 54.3 |
| Unintentional injuries | 4 | 2,073 | 50.1 | 5.7 | 1,268 | 62.1 | 805 | 38.4 |
| Cerebrovascular disease | 5 | 2,066 | 49.9 | 5.6 | 890 | 43.6 | 1,176 | 56.0 |
| ***Under 1 year*** | | | | | | | | |
| **Total** | | 236 | 540.9 | 100.0 | 134 | 596.9 | 102 | 481.6 |
| Perinatal conditions | 1 | 117 | 268.2 | 49.6 | 70 | 311.8 | 47 | 221.9 |
| Congenital malformations | 2 | 55 | 126.1 | 23.3 | 24 | 106.9 | 31 | 146.4 |
| Sudden infant death syndrome | 3 | 21 | 48.1 | 8.9 | 17 | 75.7 | 4 | 18.9 |
| Unintentional injuries | 4 | 16 | 36.7 | 6.8 | 10 | 44.5 | 6 | 28.3 |
| Diarrhea & gastroenteritis | 5 | 4 | 9.2 | 1.7 | 1 | 4.5 | 3 | 14.2 |
| ***1-4 years*** | | | | | | | | |
| **Total** | | 50 | 23.6 | 100.0 | 30 | 27.6 | 20 | 19.4 |
| Unintentional injuries | 1 | 20 | 9.4 | 40.0 | 12 | 11.0 | 8 | 7.7 |
| Malignant neoplasms | 2 | 5 | 2.4 | 10.0 | 3 | 2.8 | 2 | 1.9 |
| Congenital malformations | 3 | 4 | 1.9 | 8.0 | 3 | 2.8 | 1 | 1.0 |
| Homicide | 4 | 2 | 0.9 | 4.0 | 2 | 1.8 | – | – |
| Pneumonitis due to solids & liquids | 4 | 2 | 0.9 | 4.0 | 1 | 0.9 | 1 | 1.0 |
| ***5-14 years*** | | | | | | | | |
| **Total** | | 75 | 14.9 | 100.0 | 40 | 15.6 | 35 | 14.3 |
| Unintentional injuries | 1 | 26 | 5.2 | 34.7 | 17 | 6.6 | 9 | 3.7 |
| Malignant neoplasms | 2 | 13 | 2.6 | 17.3 | 7 | 2.7 | 6 | 2.4 |
| Suicide | 3 | 10 | 2.0 | 13.3 | 5 | 1.9 | 5 | 2.0 |
| Homicide | 4 | 7 | 1.4 | 9.3 | 3 | 1.2 | 4 | 1.6 |
| Congenital malformations | 5 | 6 | 1.2 | 8.0 | 1 | 0.4 | 5 | 2.0 |
| ***15-24 years*** | | | | | | | | |
| **Total** | | 341 | 65.8 | 100.0 | 244 | 92.4 | 97 | 38.1 |
| Unintentional injuries | 1 | 141 | 27.2 | 41.3 | 107 | 40.5 | 34 | 13.4 |
| Suicide | 2 | 97 | 18.7 | 28.4 | 80 | 30.3 | 17 | 6.7 |
| Malignant neoplasms | 3 | 16 | 3.1 | 4.7 | 6 | 2.3 | 10 | 3.9 |
| Homicide | 4 | 11 | 2.1 | 3.2 | 10 | 3.8 | 1 | 0.4 |
| Heart disease | 4 | 11 | 2.1 | 3.2 | 5 | 1.9 | 6 | 2.4 |

See footnotes at end of table.

**TABLE 6-4. Leading causes of death by age group and sex, Oregon residents, 2017 — Continued**

| Cause of death in rank order | Rank | Total[1] | | | Male | | Female | |
|---|---|---|---|---|---|---|---|---|
| | | No. | Rate[2] | Pct. | No. | Rate[2] | No. | Rate[2] |
| ***25-34 years*** | | | | | | | | |
| **Total** | | 552 | 99.3 | 100.0 | 394 | 140.9 | 157 | 56.8 |
| Unintentional injuries | 1 | 200 | 36.0 | 36.2 | 151 | 54.0 | 49 | 17.7 |
| Suicide | 2 | 123 | 22.1 | 22.3 | 99 | 35.4 | 23 | 8.3 |
| Malignant neoplasms | 3 | 37 | 6.7 | 6.7 | 20 | 7.2 | 17 | 6.2 |
| Alcohol-induced | 4 | 29 | 5.2 | 5.3 | 20 | 7.2 | 9 | 3.3 |
| Homicide | 5 | 28 | 5.0 | 5.1 | 23 | 8.2 | 5 | 1.8 |
| ***35-44 years*** | | | | | | | | |
| **Total** | | 861 | 158.5 | 100.0 | 522 | 191.8 | 339 | 125.0 |
| Unintentional injuries | 1 | 197 | 36.3 | 22.9 | 130 | 47.8 | 67 | 24.7 |
| Malignant neoplasms | 2 | 136 | 25.0 | 15.8 | 53 | 19.5 | 83 | 30.6 |
| Suicide | 3 | 131 | 24.1 | 15.2 | 99 | 36.4 | 32 | 11.8 |
| Heart disease | 4 | 79 | 14.5 | 9.2 | 55 | 20.2 | 24 | 8.9 |
| Alcohol-induced | 5 | 74 | 13.6 | 8.6 | 51 | 18.7 | 23 | 8.5 |
| ***45-54 years*** | | | | | | | | |
| **Total** | | 1,808 | 347.9 | 100.0 | 1,084 | 419.3 | 724 | 277.2 |
| Malignant neoplasms | 1 | 429 | 82.6 | 23.7 | 202 | 78.1 | 227 | 86.9 |
| Heart disease | 2 | 264 | 50.8 | 14.6 | 192 | 74.3 | 72 | 27.6 |
| Unintentional injuries | 3 | 196 | 37.7 | 10.8 | 134 | 51.8 | 62 | 23.7 |
| Alcohol-induced | 4 | 194 | 37.3 | 10.7 | 129 | 49.9 | 65 | 24.9 |
| Suicide | 5 | 150 | 28.9 | 8.3 | 100 | 38.7 | 50 | 19.1 |
| ***55-64 years*** | | | | | | | | |
| **Total** | | 4,610 | 862.8 | 100.0 | 2,813 | 1,088.4 | 1,796 | 651.0 |
| Malignant neoplasms | 1 | 1,457 | 272.7 | 31.6 | 797 | 308.4 | 660 | 239.2 |
| Heart disease | 2 | 699 | 130.8 | 15.2 | 514 | 198.9 | 184 | 66.7 |
| Alcohol-induced | 3 | 310 | 58.0 | 6.7 | 215 | 83.2 | 95 | 34.4 |
| Unintentional injuries | 4 | 270 | 50.5 | 5.9 | 194 | 75.1 | 76 | 27.5 |
| Diabetes mellitus | 5 | 244 | 45.7 | 5.3 | 150 | 58.0 | 94 | 34.1 |
| ***65-74 years*** | | | | | | | | |
| **Total** | | 7,173 | 1,702.5 | 100.0 | 4,183 | 2,086.7 | 2,990 | 1,353.8 |
| Malignant neoplasms | 1 | 2,361 | 560.4 | 32.9 | 1,290 | 643.5 | 1,071 | 484.9 |
| Heart disease | 2 | 1,172 | 278.2 | 16.3 | 764 | 381.1 | 408 | 184.7 |
| Chronic lower respiratory disease | 3 | 591 | 140.3 | 8.2 | 310 | 154.6 | 281 | 127.2 |
| Cerebrovascular disease | 4 | 329 | 78.1 | 4.6 | 189 | 94.3 | 140 | 63.4 |
| Diabetes mellitus | 5 | 301 | 71.4 | 4.2 | 188 | 93.8 | 113 | 51.2 |

See footnotes at end of table.

**TABLE 6-4. Leading causes of death by age group and sex, Oregon residents, 2017 — Continued**

| Cause of death in rank order | Rank | Total[1] | | | Male | | Female | |
|---|---|---|---|---|---|---|---|---|
| | | No. | Rate[2] | Pct. | No. | Rate[2] | No. | Rate[2] |
| ***75-84 years*** | | | | | | | | |
| **Total** | | 8,685 | 4,229.9 | 100.0 | 4,535 | 4,956.7 | 4,150 | 3,645.7 |
| Malignant neoplasms | 1 | 2,247 | 1,094.4 | 25.9 | 1,178 | 1,287.5 | 1,069 | 939.1 |
| Heart disease | 2 | 1,648 | 802.6 | 19.0 | 963 | 1,052.6 | 685 | 601.8 |
| Chronic lower respiratory disease | 3 | 660 | 321.4 | 7.6 | 295 | 322.4 | 365 | 320.6 |
| Cerebrovascular disease | 4 | 526 | 256.2 | 6.1 | 242 | 264.5 | 284 | 249.5 |
| Alzheimer's disease | 5 | 444 | 216.2 | 5.1 | 163 | 178.2 | 281 | 246.9 |
| ***85+ years*** | | | | | | | | |
| **Total** | | 12,249 | 14,405.7 | 100.0 | 4,710 | 15,703.7 | 7,539 | 13,698.3 |
| Heart disease | 1 | 3,045 | 3,581.1 | 24.9 | 1,254 | 4,181.0 | 1,791 | 3,254.2 |
| Malignant neoplasms | 2 | 1,382 | 1,625.3 | 11.3 | 638 | 2,127.2 | 744 | 1,351.8 |
| Alzheimer's disease | 3 | 1,268 | 1,491.3 | 10.4 | 361 | 1,203.6 | 907 | 1,648.0 |
| Cerebrovascular disease | 4 | 993 | 1,167.8 | 8.1 | 336 | 1,120.3 | 657 | 1,193.8 |
| Chronic lower respiratory disease | 5 | 543 | 638.6 | 4.4 | 213 | 710.2 | 330 | 599.6 |

– Quantity is zero.
1 Includes unknown sex.
2 All rates per 100,000 population.

Note: Many deaths among 15- to 54-year-olds result from drug use. The rank order of drug-induced deaths may be ascertained from the data in Table 6-35, but note that many of these deaths are included in the intentional and unintentional injury categories shown in this table.

**TABLE 6-5. Deaths by marital status, sex, and age, Oregon residents, 2017**

| Marital status and sex | Total | Age at death | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | <15 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 |
| **Total** | 36,640 | 361 | 113 | 228 | 268 | 284 | 399 | 462 | 680 |
| Male | 18,689 | 204 | 76 | 168 | 187 | 207 | 254 | 268 | 406 |
| Female | 17,949 | 157 | 37 | 60 | 81 | 76 | 145 | 194 | 274 |
| Unknown | 2 | – | – | – | – | 1 | – | – | – |
| **Single** | 3,928 | 361 | 112 | 208 | 213 | 179 | 198 | 173 | 200 |
| Male | 2,582 | 204 | 75 | 158 | 154 | 133 | 143 | 113 | 132 |
| Female | 1,345 | 157 | 37 | 50 | 59 | 46 | 55 | 60 | 68 |
| Unknown | 1 | – | – | – | – | – | – | – | – |
| **Married** | 13,350 | – | 1 | 18 | 38 | 55 | 117 | 149 | 250 |
| Male | 8,830 | – | 1 | 9 | 22 | 40 | 64 | 78 | 141 |
| Female | 4,519 | – | – | 9 | 16 | 14 | 53 | 71 | 109 |
| Unknown | 1 | – | – | – | – | 1 | – | – | – |
| **Widowed** | 11,692 | – | – | – | – | 1 | 3 | 6 | 15 |
| Male | 3,215 | – | – | – | – | – | 1 | – | 8 |
| Female | 8,477 | – | – | – | – | 1 | 2 | 6 | 7 |
| **Divorced** | 7,424 | – | – | 2 | 17 | 46 | 78 | 130 | 206 |
| Male | 3,874 | – | – | 1 | 11 | 31 | 45 | 75 | 118 |
| Female | 3,550 | – | – | 1 | 6 | 15 | 33 | 55 | 88 |
| **Not stated** | 246 | – | – | – | – | 3 | 3 | 4 | 9 |
| Male | 188 | – | – | – | – | 3 | 1 | 2 | 7 |
| Female | 58 | – | – | – | – | – | 2 | 2 | 2 |

| Marital status and sex | Age at death | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75-79 | 80-84 | 85-89 | 90+ |
| **Total** | 1,128 | 1,984 | 2,626 | 3,374 | 3,799 | 4,158 | 4,527 | 5,117 | 7,132 |
| Male | 678 | 1,223 | 1,590 | 2,011 | 2,172 | 2,237 | 2,298 | 2,300 | 2,410 |
| Female | 450 | 761 | 1,035 | 1,363 | 1,627 | 1,921 | 2,229 | 2,817 | 4,722 |
| Unknown | – | – | 1 | – | – | – | – | – | – |
| **Single** | 300 | 401 | 412 | 318 | 257 | 177 | 129 | 129 | 161 |
| Male | 224 | 280 | 287 | 209 | 181 | 108 | 71 | 58 | 52 |
| Female | 76 | 121 | 124 | 109 | 76 | 69 | 58 | 71 | 109 |
| Unknown | – | – | 1 | – | – | – | – | – | – |
| **Married** | 436 | 801 | 1,065 | 1,592 | 1,823 | 1,989 | 2,022 | 1,712 | 1,282 |
| Male | 236 | 481 | 627 | 1,001 | 1,184 | 1,315 | 1,373 | 1,249 | 1,009 |
| Female | 200 | 320 | 438 | 591 | 639 | 674 | 649 | 463 | 273 |
| Unknown | – | – | – | – | – | – | – | – | – |
| **Widowed** | 37 | 91 | 193 | 375 | 594 | 1,003 | 1,628 | 2,630 | 5,116 |
| Male | 9 | 30 | 67 | 129 | 194 | 320 | 521 | 740 | 1,196 |
| Female | 28 | 61 | 126 | 246 | 400 | 683 | 1,107 | 1,890 | 3,920 |
| **Divorced** | 343 | 656 | 914 | 1,048 | 1,081 | 960 | 736 | 635 | 572 |
| Male | 203 | 404 | 574 | 642 | 579 | 470 | 324 | 245 | 152 |
| Female | 140 | 252 | 340 | 406 | 502 | 490 | 412 | 390 | 420 |
| **Not stated** | 12 | 35 | 42 | 41 | 44 | 29 | 12 | 11 | 1 |
| Male | 6 | 28 | 35 | 30 | 34 | 24 | 9 | 8 | 1 |
| Female | 6 | 7 | 7 | 11 | 10 | 5 | 3 | 3 | – |

– Quantity is zero.

## TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| **Total*** | 36,640 | 236 | 50 | 75 | 341 | 552 | 861 | 1,808 | 4,610 | 7,173 | 8,685 | 12,249 |
| Male | 18,689 | 134 | 30 | 40 | 244 | 394 | 522 | 1,084 | 2,813 | 4,183 | 4,535 | 4,710 |
| Female | 17,949 | 102 | 20 | 35 | 97 | 157 | 339 | 724 | 1,796 | 2,990 | 4,150 | 7,539 |
| **Infections & parasitic disease (A00-B99)** | 695 | 9 | 3 | 1 | 1 | 6 | 20 | 61 | 137 | 162 | 137 | 158 |
| Male | 366 | 5 | 2 | 1 | 1 | 4 | 10 | 40 | 83 | 90 | 69 | 61 |
| Female | 329 | 4 | 1 | – | – | 2 | 10 | 21 | 54 | 72 | 68 | 97 |
| Tuberculosis (A16-A19) | 6 | – | – | – | – | – | – | 1 | 1 | 3 | – | 1 |
| Male | 5 | – | – | – | – | – | – | 1 | 1 | 3 | – | – |
| Female | 1 | – | – | – | – | – | – | – | – | – | – | 1 |
| Septicemia (A40-A41) | 242 | 3 | 1 | 1 | 1 | 2 | 7 | 14 | 39 | 56 | 57 | 61 |
| Male | 122 | 2 | – | 1 | 1 | 2 | 2 | 6 | 20 | 33 | 27 | 28 |
| Female | 120 | 1 | 1 | – | – | – | 5 | 8 | 19 | 23 | 30 | 33 |
| Creutzfeldt-Jacob disease (A81.0) | 11 | – | – | – | – | – | – | – | 1 | 7 | 2 | 1 |
| Male | 6 | – | – | – | – | – | – | – | 1 | 3 | 1 | 1 |
| Female | 5 | – | – | – | – | – | – | – | – | 4 | 1 | – |
| Viral hepatitis (B15-B19) | 139 | – | – | – | – | – | 2 | 25 | 58 | 41 | 8 | 5 |
| Male | 89 | – | – | – | – | – | 1 | 16 | 39 | 26 | 6 | 1 |
| Female | 50 | – | – | – | – | – | 1 | 9 | 19 | 15 | 2 | 4 |
| HIV/AIDS (B20-B24)[2] | 42 | – | – | – | – | – | 7 | 15 | 13 | 5 | 1 | 1 |
| Male | 34 | – | – | – | – | – | 6 | 14 | 8 | 5 | 1 | – |
| Female | 8 | – | – | – | – | – | 1 | 1 | 5 | – | – | 1 |
| **Malignant neoplasms (C00-C97)** | 8,084 | 1 | 5 | 13 | 16 | 37 | 136 | 429 | 1,457 | 2,361 | 2,247 | 1,382 |
| Male | 4,194 | – | 3 | 7 | 6 | 20 | 53 | 202 | 797 | 1,290 | 1,178 | 638 |
| Female | 3,890 | 1 | 2 | 6 | 10 | 17 | 83 | 227 | 660 | 1,071 | 1,069 | 744 |
| Lip, oral cavity & pharynx (C00-C14) | 145 | – | – | – | 1 | – | 2 | 9 | 37 | 55 | 27 | 14 |
| Male | 112 | – | – | – | – | – | 2 | 9 | 30 | 43 | 19 | 9 |
| Female | 33 | – | – | – | 1 | – | – | – | 7 | 12 | 8 | 5 |
| Digestive organs (C15-C26) | 2,151 | – | – | 2 | – | 5 | 38 | 127 | 464 | 631 | 568 | 316 |
| Male | 1,251 | – | – | 2 | – | 2 | 18 | 80 | 301 | 405 | 305 | 138 |
| Female | 900 | – | – | – | – | 3 | 20 | 47 | 163 | 226 | 263 | 178 |
| Esophagus (C15) | 249 | – | – | – | – | – | 4 | 20 | 57 | 88 | 59 | 21 |
| Male | 209 | – | – | – | – | – | 2 | 18 | 49 | 72 | 50 | 18 |
| Female | 40 | – | – | – | – | – | 2 | 2 | 8 | 16 | 9 | 3 |
| Stomach (C16) | 97 | – | – | – | – | – | 6 | 6 | 13 | 33 | 24 | 15 |
| Male | 60 | – | – | – | – | – | 4 | 3 | 7 | 22 | 13 | 11 |
| Female | 37 | – | – | – | – | – | 2 | 3 | 6 | 11 | 11 | 4 |
| Colon, rectum & anus (C18-C21) | 667 | – | – | – | – | 4 | 16 | 45 | 134 | 147 | 192 | 129 |
| Male | 334 | – | – | – | – | 2 | 6 | 25 | 78 | 80 | 102 | 41 |
| Female | 333 | – | – | – | – | 2 | 10 | 20 | 56 | 67 | 90 | 88 |

See footnotes at end of table.

**TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued**

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Colon (C18) | 437 | – | – | – | – | 4 | 9 | 27 | 77 | 96 | 136 | 88 |
| Male | 213 | – | – | – | – | 2 | 4 | 13 | 47 | 50 | 69 | 28 |
| Female | 224 | – | – | – | – | 2 | 5 | 14 | 30 | 46 | 67 | 60 |
| Rectosigmoid junction (C19) | 53 | – | – | – | – | – | 5 | 4 | 16 | 9 | 11 | 8 |
| Male | 31 | – | – | – | – | – | 2 | 3 | 9 | 4 | 8 | 5 |
| Female | 22 | – | – | – | – | – | 3 | 1 | 7 | 5 | 3 | 3 |
| Rectum (C20) | 143 | – | – | – | – | – | 2 | 11 | 31 | 35 | 36 | 28 |
| Male | 78 | – | – | – | – | – | – | 8 | 17 | 22 | 23 | 8 |
| Female | 65 | – | – | – | – | – | 2 | 3 | 14 | 13 | 13 | 20 |
| Liver & intrahepatic bile ducts (C22) | 379 | – | – | 2 | – | – | 4 | 17 | 117 | 143 | 67 | 29 |
| Male | 262 | – | – | 2 | – | – | 2 | 9 | 85 | 107 | 43 | 14 |
| Female | 117 | – | – | – | – | – | 2 | 8 | 32 | 36 | 24 | 15 |
| Pancreas (C25) | 640 | – | – | – | – | – | 7 | 31 | 120 | 195 | 196 | 91 |
| Male | 326 | – | – | – | – | – | 3 | 19 | 69 | 110 | 84 | 41 |
| Female | 314 | – | – | – | – | – | 4 | 12 | 51 | 85 | 112 | 50 |
| Respiratory, intrathoracic organs (C30-C39) | 1,911 | – | – | – | – | 1 | 9 | 68 | 334 | 661 | 594 | 244 |
| Male | 954 | – | – | – | – | – | 6 | 33 | 179 | 344 | 286 | 106 |
| Female | 957 | – | – | – | – | 1 | 3 | 35 | 155 | 317 | 308 | 138 |
| Larynx (C32) | 27 | – | – | – | – | – | – | 1 | 5 | 11 | 8 | 2 |
| Male | 24 | – | – | – | – | – | – | 1 | 5 | 10 | 6 | 2 |
| Female | 3 | – | – | – | – | – | – | – | – | 1 | 2 | – |
| Trachea, bronchus & lung (C33-C34) | 1,865 | – | – | – | – | – | 8 | 66 | 325 | 645 | 581 | 240 |
| Male | 922 | – | – | – | – | – | 5 | 32 | 171 | 332 | 278 | 104 |
| Female | 943 | – | – | – | – | – | 3 | 34 | 154 | 313 | 303 | 136 |
| Bronchus & lung (C34) | 1,865 | – | – | – | – | – | 8 | 66 | 325 | 645 | 581 | 240 |
| Male | 922 | – | – | – | – | – | 5 | 32 | 171 | 332 | 278 | 104 |
| Female | 943 | – | – | – | – | – | 3 | 34 | 154 | 313 | 303 | 136 |
| Skin (C43-C44) | 194 | – | – | – | 1 | 4 | 8 | 5 | 37 | 44 | 55 | 40 |
| Male | 136 | – | – | – | – | 3 | 6 | 5 | 26 | 38 | 37 | 21 |
| Female | 58 | – | – | – | 1 | 1 | 2 | – | 11 | 6 | 18 | 19 |
| Melanoma of skin (C43) | 133 | – | – | – | – | 3 | 7 | 4 | 26 | 32 | 38 | 23 |
| Male | 91 | – | – | – | – | 2 | 5 | 4 | 18 | 28 | 24 | 10 |
| Female | 42 | – | – | – | – | 1 | 2 | – | 8 | 4 | 14 | 13 |
| Mesothelioma (C45) | 41 | – | – | – | – | – | – | 1 | 1 | 11 | 23 | 5 |
| Male | 30 | – | – | – | – | – | – | – | 1 | 9 | 17 | 3 |
| Female | 11 | – | – | – | – | – | – | 1 | – | 2 | 6 | 2 |
| Breast (C50) | 516 | – | – | – | – | 1 | 25 | 57 | 110 | 132 | 103 | 88 |
| Male | 10 | – | – | – | – | – | – | – | 1 | 3 | 4 | 2 |
| Female | 506 | – | – | – | – | 1 | 25 | 57 | 109 | 129 | 99 | 86 |

See footnotes at end of table.

## TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Female genital organs (C51-C58) | 465 | – | – | – | – | 6 | 13 | 45 | 78 | 149 | 100 | 74 |
| Male | – | – | – | – | – | – | – | – | – | – | – | – |
| Female | 465 | – | – | – | – | 6 | 13 | 45 | 78 | 149 | 100 | 74 |
| Cervix uteri (C53) | 47 | – | – | – | – | 3 | 4 | 13 | 6 | 11 | 5 | 5 |
| Male | – | – | – | – | – | – | – | – | – | – | – | – |
| Female | 47 | – | – | – | – | 3 | 4 | 13 | 6 | 11 | 5 | 5 |
| Corpus uteri (C54-C55)[3] | 138 | – | – | – | – | – | 6 | 11 | 24 | 55 | 22 | 20 |
| Male | – | – | – | – | – | – | – | – | – | – | – | – |
| Female | 138 | – | – | – | – | – | 6 | 11 | 24 | 55 | 22 | 20 |
| Ovary (C56) | 239 | – | – | – | – | 3 | 3 | 19 | 44 | 70 | 62 | 38 |
| Male | – | – | – | – | – | – | – | – | – | – | – | – |
| Female | 239 | – | – | – | – | 3 | 3 | 19 | 44 | 70 | 62 | 38 |
| Male genital organs (C60-C63) | 455 | – | – | – | 3 | 2 | 1 | 7 | 34 | 121 | 151 | 136 |
| Male | 455 | – | – | – | 3 | 2 | 1 | 7 | 34 | 121 | 151 | 136 |
| Female | – | – | – | – | – | – | – | – | – | – | – | – |
| Prostate (C61) | 441 | – | – | – | – | – | – | 6 | 32 | 118 | 151 | 134 |
| Male | 441 | – | – | – | – | – | – | 6 | 32 | 118 | 151 | 134 |
| Female | – | – | – | – | – | – | – | – | – | – | – | – |
| Kidney & renal pelvis (C64-C65) | 190 | – | – | – | – | 1 | 1 | 15 | 27 | 60 | 53 | 33 |
| Male | 131 | – | – | – | – | 1 | 1 | 9 | 22 | 47 | 34 | 17 |
| Female | 59 | – | – | – | – | – | – | 6 | 5 | 13 | 19 | 16 |
| Bladder (C67) | 254 | – | – | – | – | – | 1 | 4 | 29 | 53 | 79 | 88 |
| Male | 173 | – | – | – | – | – | 1 | 2 | 23 | 39 | 48 | 60 |
| Female | 81 | – | – | – | – | – | – | 2 | 6 | 14 | 31 | 28 |
| Brain, etc. (C70-C72)[4] | 246 | – | 1 | 4 | 2 | 7 | 15 | 21 | 64 | 82 | 35 | 15 |
| Male | 140 | – | 1 | 1 | 1 | 6 | 6 | 14 | 45 | 40 | 22 | 4 |
| Female | 106 | – | – | 3 | 1 | 1 | 9 | 7 | 19 | 42 | 13 | 11 |
| Thyroid/endocrine gland (C73-C75) | 38 | 1 | 1 | – | – | – | – | 2 | 8 | 14 | 7 | 5 |
| Male | 21 | – | – | – | – | – | – | 2 | 5 | 8 | 4 | 2 |
| Female | 17 | 1 | 1 | – | – | – | – | – | 3 | 6 | 3 | 3 |
| Lymphoid & hematopoietic (C81-C96) | 814 | – | 2 | 2 | 4 | 4 | 10 | 34 | 114 | 191 | 266 | 187 |
| Male | 447 | – | 1 | 1 | – | 3 | 7 | 21 | 67 | 109 | 154 | 84 |
| Female | 367 | – | 1 | 1 | 4 | 1 | 3 | 13 | 47 | 82 | 112 | 103 |
| Hodgkin's disease (C81) | 9 | – | – | – | – | – | – | 1 | – | 3 | 4 | 1 |
| Male | 3 | – | – | – | – | – | – | – | – | 2 | 1 | – |
| Female | 6 | – | – | – | – | – | – | 1 | – | 1 | 3 | 1 |
| Non-Hodgkin's lymphoma (C82-C85) | 279 | – | – | – | – | – | 2 | 11 | 41 | 70 | 93 | 62 |
| Male | 149 | – | – | – | – | – | 2 | 8 | 26 | 40 | 48 | 25 |
| Female | 130 | – | – | – | – | – | – | 3 | 15 | 30 | 45 | 37 |

See footnotes at end of table.

**TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued**

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Leukemia (C91-C95) | 346 | – | 2 | 2 | 4 | 4 | 8 | 17 | 46 | 73 | 108 | 82 |
| Male | 193 | – | 1 | 1 | – | 3 | 5 | 8 | 27 | 40 | 69 | 39 |
| Female | 153 | – | 1 | 1 | 4 | 1 | 3 | 9 | 19 | 33 | 39 | 43 |
| Lymphoid leukemia (C91) | 90 | – | 1 | 1 | 2 | 2 | 2 | – | 11 | 12 | 30 | 29 |
| Male | 53 | – | 1 | – | – | 1 | 2 | – | 7 | 8 | 17 | 17 |
| Female | 37 | – | – | 1 | 2 | 1 | – | – | 4 | 4 | 13 | 12 |
| Myeloid leukemia (C92) | 206 | – | 1 | – | 2 | 2 | 5 | 15 | 31 | 49 | 63 | 38 |
| Male | 112 | – | – | – | – | 2 | 2 | 6 | 16 | 27 | 45 | 14 |
| Female | 94 | – | 1 | – | 2 | – | 3 | 9 | 15 | 22 | 18 | 24 |
| Multiple myeloma (C88, C90)[5] | 174 | – | – | – | – | – | – | 5 | 26 | 45 | 58 | 40 |
| Male | 99 | – | – | – | – | – | – | 5 | 13 | 27 | 35 | 19 |
| Female | 75 | – | – | – | – | – | – | – | 13 | 18 | 23 | 21 |
| **Neoplas. not specif. as malig. (D00-D48)**[6] | 224 | 1 | – | 1 | 2 | 1 | 2 | 1 | 16 | 58 | 70 | 72 |
| Male | 121 | – | – | 1 | – | 1 | 2 | – | 8 | 31 | 41 | 37 |
| Female | 103 | 1 | – | – | 2 | – | – | 1 | 8 | 27 | 29 | 35 |
| Myelodysplastic syndromes (D46) | 94 | – | – | – | – | – | – | – | 2 | 21 | 36 | 35 |
| Male | 55 | – | – | – | – | – | – | – | 1 | 12 | 22 | 20 |
| Female | 39 | – | – | – | – | – | – | – | 1 | 9 | 14 | 15 |
| **Diseases of the blood (D50-89)**[7] | 126 | 2 | 2 | 2 | 1 | 3 | 2 | 6 | 15 | 25 | 27 | 41 |
| Male | 69 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 11 | 15 | 15 | 17 |
| Female | 57 | 1 | 1 | 1 | – | 1 | – | 3 | 4 | 10 | 12 | 24 |
| Anemias (D50-D64) | 61 | 1 | 1 | – | 1 | 1 | 1 | – | 5 | 10 | 10 | 31 |
| Male | 30 | 1 | – | – | 1 | 1 | 1 | – | 3 | 5 | 5 | 13 |
| Female | 31 | – | 1 | – | – | – | – | – | 2 | 5 | 5 | 18 |
| **Endocrine & nutritional dis. (E00-E88)**[8] | 1,844 | 1 | 1 | 1 | 5 | 18 | 46 | 137 | 345 | 432 | 426 | 432 |
| Male | 1,017 | 1 | 1 | – | 2 | 9 | 25 | 79 | 210 | 260 | 235 | 195 |
| Female | 827 | – | – | 1 | 3 | 9 | 21 | 58 | 135 | 172 | 191 | 237 |
| Diabetes mellitus (E10-E14) | 1,243 | – | – | – | 3 | 8 | 28 | 92 | 244 | 301 | 295 | 272 |
| Male | 707 | – | – | – | 1 | 5 | 15 | 49 | 150 | 188 | 167 | 132 |
| Female | 536 | – | – | – | 2 | 3 | 13 | 43 | 94 | 113 | 128 | 140 |
| Nutritional deficiencies (E40-E64) | 98 | – | – | – | – | 2 | – | 1 | 3 | 12 | 22 | 58 |
| Male | 38 | – | – | – | – | – | – | 1 | 2 | 3 | 13 | 19 |
| Female | 60 | – | – | – | – | 2 | – | – | 1 | 9 | 9 | 39 |
| Malnutrition (E40-E46) | 98 | – | – | – | – | 2 | – | 1 | 3 | 12 | 22 | 58 |
| Male | 38 | – | – | – | – | – | – | 1 | 2 | 3 | 13 | 19 |
| Female | 60 | – | – | – | – | 2 | – | – | 1 | 9 | 9 | 39 |
| **Mental disorders (F01-F99)**[9] | 2,658 | 1 | – | – | 4 | 24 | 31 | 107 | 171 | 259 | 530 | 1,531 |
| Male | 1,090 | 1 | – | – | 2 | 16 | 15 | 75 | 122 | 162 | 252 | 445 |
| Female | 1,568 | – | – | – | 2 | 8 | 16 | 32 | 49 | 97 | 278 | 1,086 |

See footnotes at end of table.

## TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Organic dementia (F01, F03)[10] | 2,138 | – | – | – | – | – | – | 2 | 20 | 133 | 485 | 1,498 |
| Male | 730 | – | – | – | – | – | – | 1 | 9 | 70 | 226 | 424 |
| Female | 1,408 | – | – | – | – | – | – | 1 | 11 | 63 | 259 | 1,074 |
| Due to alcohol (F10)[11] | 292 | – | – | – | – | 9 | 20 | 69 | 98 | 75 | 16 | 5 |
| Male | 211 | – | – | – | – | 5 | 11 | 50 | 76 | 54 | 12 | 3 |
| Female | 81 | – | – | – | – | 4 | 9 | 19 | 22 | 21 | 4 | 2 |
| Due to psychoactive substance (F11-F19) | 145 | – | – | – | 4 | 13 | 10 | 34 | 35 | 33 | 8 | 8 |
| Male | 101 | – | – | – | 2 | 9 | 3 | 22 | 28 | 28 | 4 | 5 |
| Female | 44 | – | – | – | 2 | 4 | 7 | 12 | 7 | 5 | 4 | 3 |
| **Nervous system disease (G00-G99)** | 3,145 | 2 | 5 | 3 | 9 | 12 | 18 | 41 | 154 | 387 | 853 | 1,661 |
| Male | 1,297 | – | 4 | 2 | 8 | 5 | 10 | 15 | 81 | 209 | 408 | 555 |
| Female | 1,848 | 2 | 1 | 1 | 1 | 7 | 8 | 26 | 73 | 178 | 445 | 1,106 |
| Meningitis (G00, G03) | 4 | – | 1 | – | – | – | – | 1 | 1 | 1 | – | – |
| Male | 3 | – | 1 | – | – | – | – | – | 1 | 1 | – | – |
| Female | 1 | – | – | – | – | – | – | 1 | – | – | – | – |
| Amyotrophic lateral sclerosis (G12.2) | 102 | – | – | – | – | – | 4 | 4 | 28 | 38 | 24 | 4 |
| Male | 55 | – | – | – | – | – | 4 | 2 | 12 | 26 | 9 | 2 |
| Female | 47 | – | – | – | – | – | – | 2 | 16 | 12 | 15 | 2 |
| Parkinson's disease (G20-G21) | 465 | – | – | – | – | – | – | 1 | 12 | 68 | 192 | 192 |
| Male | 305 | – | – | – | – | – | – | 1 | 7 | 46 | 131 | 120 |
| Female | 160 | – | – | – | – | – | – | – | 5 | 22 | 61 | 72 |
| Alzheimer's disease (G30) | 1,850 | – | – | – | – | – | – | 3 | 20 | 115 | 444 | 1,268 |
| Male | 569 | – | – | – | – | – | – | – | 8 | 37 | 163 | 361 |
| Female | 1,281 | – | – | – | – | – | – | 3 | 12 | 78 | 281 | 907 |
| Multiple sclerosis (G35) | 77 | – | – | – | – | – | 1 | 1 | 17 | 30 | 21 | 7 |
| Male | 32 | – | – | – | – | – | – | 1 | 6 | 18 | 5 | 2 |
| Female | 45 | – | – | – | – | – | 1 | – | 11 | 12 | 16 | 5 |
| Epilepsy (G40-G41) | 35 | – | – | – | 2 | 2 | 2 | 8 | 5 | 6 | 5 | 5 |
| Male | 13 | – | – | – | 1 | – | 1 | 5 | 2 | 2 | 1 | 1 |
| Female | 22 | – | – | – | 1 | 2 | 1 | 3 | 3 | 4 | 4 | 4 |
| **Ear & mastoid process dis. (H60-H95)** | 2 | – | – | – | – | 1 | – | 1 | – | – | – | – |
| Male | – | – | – | – | – | – | – | – | – | – | – | – |
| Female | 2 | – | – | – | – | 1 | – | 1 | – | – | – | – |
| **Circulatory system diseases (I00-I99)** | 9,993 | – | 2 | 3 | 15 | 35 | 111 | 332 | 981 | 1,671 | 2,412 | 4,431 |
| Male | 5,151 | – | – | 2 | 6 | 21 | 73 | 230 | 688 | 1,062 | 1,323 | 1,746 |
| Female | 4,841 | – | 2 | 1 | 9 | 14 | 38 | 102 | 292 | 609 | 1,089 | 2,685 |
| Major cardiovascular disease (I00-I78) | 9,930 | – | 2 | 2 | 14 | 33 | 108 | 329 | 971 | 1,658 | 2,396 | 4,417 |
| Male | 5,119 | – | – | 1 | 6 | 20 | 72 | 229 | 680 | 1,054 | 1,316 | 1,741 |
| Female | 4,810 | – | 2 | 1 | 8 | 13 | 36 | 100 | 290 | 604 | 1,080 | 2,676 |

See footnotes at end of table.

**TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued**

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Heart disease (I00-I09, I11, I13, I20-I51) .... | 6,945 | – | 1 | 1 | 11 | 25 | 79 | 264 | 699 | 1,172 | 1,648 | 3,045 |
| Male .... | 3,761 | – | – | – | 5 | 14 | 55 | 192 | 514 | 764 | 963 | 1,254 |
| Female .... | 3,183 | – | 1 | 1 | 6 | 11 | 24 | 72 | 184 | 408 | 685 | 1,791 |
| Rheumatic heart disease (I00-I09)[12] ..... | 87 | – | – | – | – | – | – | 3 | 8 | 17 | 19 | 40 |
| Male .... | 19 | – | – | – | – | – | – | 1 | 3 | 3 | 2 | 10 |
| Female .... | 68 | – | – | – | – | – | – | 2 | 5 | 14 | 17 | 30 |
| Hypertensive heart disease (I11) ..... | 273 | – | – | – | – | 2 | 4 | 6 | 12 | 34 | 59 | 156 |
| Male .... | 105 | – | – | – | – | – | 4 | 4 | 8 | 16 | 31 | 42 |
| Female .... | 168 | – | – | – | – | 2 | – | 2 | 4 | 18 | 28 | 114 |
| Hypertensive heart & renal dis. (I13) ..... | 87 | – | – | – | – | – | – | 1 | 6 | 8 | 22 | 50 |
| Male .... | 40 | – | – | – | – | – | – | 1 | 4 | 3 | 12 | 20 |
| Female .... | 47 | – | – | – | – | – | – | – | 2 | 5 | 10 | 30 |
| Ischemic heart disease (I20-I25) ..... | 3,387 | – | – | – | 2 | 7 | 47 | 149 | 429 | 709 | 839 | 1,205 |
| Male .... | 2,168 | – | – | – | 2 | 4 | 38 | 119 | 342 | 493 | 555 | 615 |
| Female .... | 1,219 | – | – | – | – | 3 | 9 | 30 | 87 | 216 | 284 | 590 |
| Myocardial infarction (I21-I22) ..... | 1,088 | – | – | – | 1 | 2 | 15 | 48 | 137 | 281 | 266 | 338 |
| Male .... | 648 | – | – | – | 1 | 1 | 12 | 39 | 106 | 182 | 163 | 144 |
| Female .... | 440 | – | – | – | – | 1 | 3 | 9 | 31 | 99 | 103 | 194 |
| Other acute ischemic hrt. dis. (I24) ..... | 26 | – | – | – | – | – | 1 | – | – | 7 | 9 | 9 |
| Male .... | 15 | – | – | – | – | – | 1 | – | – | 5 | 7 | 2 |
| Female .... | 11 | – | – | – | – | – | – | – | – | 2 | 2 | 7 |
| Chronic isch. heart dis. (I20, I25) ..... | 2,273 | – | – | – | 1 | 5 | 31 | 101 | 292 | 421 | 564 | 858 |
| Male .... | 1,505 | – | – | – | 1 | 3 | 25 | 80 | 236 | 306 | 385 | 469 |
| Female .... | 768 | – | – | – | – | 2 | 6 | 21 | 56 | 115 | 179 | 389 |
| Atheroscler. cardiovascular dis.[13] ... | 138 | – | – | – | – | 1 | 2 | 13 | 40 | 25 | 31 | 26 |
| Male .... | 94 | – | – | – | – | 1 | 2 | 10 | 32 | 21 | 16 | 12 |
| Female .... | 44 | – | – | – | – | – | – | 3 | 8 | 4 | 15 | 14 |
| Other chr. ischemic heart dis.[14] ..... | 2,135 | – | – | – | 1 | 4 | 29 | 88 | 252 | 396 | 533 | 832 |
| Male .... | 1,411 | – | – | – | 1 | 2 | 23 | 70 | 204 | 285 | 369 | 457 |
| Female .... | 724 | – | – | – | – | 2 | 6 | 18 | 48 | 111 | 164 | 375 |
| Nonrheumatic mitral valve dis. (I34) ..... | 51 | – | – | – | – | – | – | 2 | 3 | 5 | 14 | 27 |
| Male .... | 18 | – | – | – | – | – | – | 1 | 2 | 4 | 6 | 5 |
| Female .... | 33 | – | – | – | – | – | – | 1 | 1 | 1 | 8 | 22 |
| Nonrheumatic aortic valve dis. (I35) ..... | 469 | – | – | – | – | – | – | 2 | 15 | 36 | 107 | 309 |
| Male .... | 210 | – | – | – | – | – | – | 2 | 10 | 23 | 54 | 121 |
| Female .... | 259 | – | – | – | – | – | – | – | 5 | 13 | 53 | 188 |
| Cardiomyopathy (I42) ..... | 252 | – | – | – | 4 | 5 | 7 | 30 | 47 | 46 | 62 | 51 |
| Male .... | 166 | – | – | – | 1 | 5 | 5 | 25 | 38 | 31 | 38 | 23 |
| Female .... | 86 | – | – | – | 3 | – | 2 | 5 | 9 | 15 | 24 | 28 |

See footnotes at end of table.

## TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Heart failure (I50) | 1,034 | – | – | – | – | 3 | 4 | 19 | 52 | 144 | 229 | 583 |
| Male | 470 | – | – | – | – | 2 | 2 | 10 | 33 | 87 | 118 | 218 |
| Female | 564 | – | – | – | – | 1 | 2 | 9 | 19 | 57 | 111 | 365 |
| Congestive heart failure (I50.0) | 764 | – | – | – | – | 1 | 2 | 16 | 40 | 94 | 165 | 446 |
| Male | 344 | – | – | – | – | 1 | 1 | 9 | 26 | 57 | 83 | 167 |
| Female | 420 | – | – | – | – | – | 1 | 7 | 14 | 37 | 82 | 279 |
| Left ventricular heart failure (I50.1) | 7 | – | – | – | – | – | – | – | – | 5 | 1 | 1 |
| Male | 4 | – | – | – | – | – | – | – | – | 2 | 1 | 1 |
| Female | 3 | – | – | – | – | – | – | – | – | 3 | – | – |
| Heart failure, unspecified (I50.9) | 263 | – | – | – | – | 2 | 2 | 3 | 12 | 45 | 63 | 136 |
| Male | 122 | – | – | – | – | 1 | 1 | 1 | 7 | 28 | 34 | 50 |
| Female | 141 | – | – | – | – | 1 | 1 | 2 | 5 | 17 | 29 | 86 |
| HBP (I10, I12, I15)[15] | 561 | – | – | – | – | – | 6 | 16 | 84 | 94 | 115 | 246 |
| Male | 272 | – | – | – | – | – | 4 | 8 | 54 | 61 | 61 | 84 |
| Female | 289 | – | – | – | – | – | 2 | 8 | 30 | 33 | 54 | 162 |
| Cerebrovascular disease (I60-I69)[10] | 2,066 | – | 1 | 1 | 2 | 6 | 16 | 41 | 151 | 329 | 526 | 993 |
| Male | 890 | – | – | 1 | – | 5 | 8 | 23 | 86 | 189 | 242 | 336 |
| Female | 1,176 | – | 1 | – | 2 | 1 | 8 | 18 | 65 | 140 | 284 | 657 |
| Subarachnoid hemorrhage (I60) | 59 | – | – | – | 1 | – | 3 | 9 | 18 | 9 | 10 | 9 |
| Male | 19 | – | – | – | – | – | 1 | 6 | 5 | – | 2 | 5 |
| Female | 40 | – | – | – | 1 | – | 2 | 3 | 13 | 9 | 8 | 4 |
| Intracerebral hemorrhage (I61-I62)[16] | 395 | – | – | 1 | – | 4 | 10 | 13 | 42 | 84 | 103 | 138 |
| Male | 190 | – | – | 1 | – | 3 | 5 | 5 | 27 | 47 | 49 | 53 |
| Female | 205 | – | – | – | – | 1 | 5 | 8 | 15 | 37 | 54 | 85 |
| Cerebral infarction (I63) | 221 | – | – | – | – | – | – | 4 | 18 | 43 | 62 | 94 |
| Male | 100 | – | – | – | – | – | – | 3 | 12 | 26 | 31 | 28 |
| Female | 121 | – | – | – | – | – | – | 1 | 6 | 17 | 31 | 66 |
| Stroke (type not specified) (I64) | 768 | – | 1 | – | – | 1 | 2 | 7 | 41 | 112 | 208 | 396 |
| Male | 311 | – | – | – | – | 1 | 2 | 4 | 24 | 62 | 94 | 124 |
| Female | 457 | – | 1 | – | – | – | – | 3 | 17 | 50 | 114 | 272 |
| Atherosclerosis (I70) | 31 | – | – | – | – | – | – | – | 1 | 5 | 11 | 14 |
| Male | 13 | – | – | – | – | – | – | – | – | 3 | 4 | 6 |
| Female | 18 | – | – | – | – | – | – | – | 1 | 2 | 7 | 8 |
| Aortic aneurysm & dissection (I71) | 179 | – | – | – | 1 | 2 | 3 | 6 | 22 | 25 | 60 | 60 |
| Male | 110 | – | – | – | 1 | 1 | 2 | 6 | 16 | 19 | 31 | 34 |
| Female | 69 | – | – | – | – | 1 | 1 | – | 6 | 6 | 29 | 26 |
| Diseases of arteries (I72-I78)[17] | 148 | – | – | – | – | – | 4 | 2 | 14 | 33 | 36 | 59 |
| Male | 73 | – | – | – | – | – | 3 | – | 10 | 18 | 15 | 27 |
| Female | 75 | – | – | – | – | – | 1 | 2 | 4 | 15 | 21 | 32 |

See footnotes at end of table.

**TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued**

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| **Respiratory system diseases (J00-J99)** | 3,300 | 1 | 4 | – | 8 | 5 | 24 | 78 | 368 | 796 | 997 | 1,019 |
| Male | 1,560 | 1 | 1 | – | 6 | 2 | 8 | 42 | 182 | 428 | 470 | 420 |
| Female | 1,740 | – | 3 | – | 2 | 3 | 16 | 36 | 186 | 368 | 527 | 599 |
| Influenza & pneumonia (J09-J18) | 573 | 1 | 1 | – | 2 | – | 8 | 22 | 63 | 79 | 130 | 267 |
| Male | 282 | 1 | – | – | 2 | – | 4 | 15 | 35 | 53 | 66 | 106 |
| Female | 291 | – | 1 | – | – | – | 4 | 7 | 28 | 26 | 64 | 161 |
| Influenza (J09-J11) | 203 | – | – | – | – | – | 2 | 8 | 21 | 26 | 42 | 104 |
| Male | 96 | – | – | – | – | – | 1 | 6 | 12 | 17 | 18 | 42 |
| Female | 107 | – | – | – | – | – | 1 | 2 | 9 | 9 | 24 | 62 |
| Pneumonia (J12-J18) | 370 | 1 | 1 | – | 2 | – | 6 | 14 | 42 | 53 | 88 | 163 |
| Male | 186 | 1 | – | – | 2 | – | 3 | 9 | 23 | 36 | 48 | 64 |
| Female | 184 | – | 1 | – | – | – | 3 | 5 | 19 | 17 | 40 | 99 |
| Other acute lower resp. infect'ns (J20-J22) | 6 | – | – | – | – | – | – | 1 | 1 | – | – | 4 |
| Male | 1 | – | – | – | – | – | – | – | – | – | – | 1 |
| Female | 5 | – | – | – | – | – | – | 1 | 1 | – | – | 3 |
| Acute bronchitis (J20-J21)[18] | 3 | – | – | – | – | – | – | – | – | – | – | 3 |
| Male | 1 | – | – | – | – | – | – | – | – | – | – | 1 |
| Female | 2 | – | – | – | – | – | – | – | – | – | – | 2 |
| Chronic lower respiratory dis. (J40-J47)[19] | 2,088 | – | 1 | – | 3 | 3 | 8 | 42 | 237 | 591 | 660 | 543 |
| Male | 949 | – | – | – | 2 | – | 2 | 19 | 108 | 310 | 295 | 213 |
| Female | 1,139 | – | 1 | – | 1 | 3 | 6 | 23 | 129 | 281 | 365 | 330 |
| Bronchitis, chronic & unspec. (J40-J42) | 9 | – | – | – | – | – | – | 1 | 2 | – | 3 | 3 |
| Male | 3 | – | – | – | – | – | – | – | 2 | – | – | 1 |
| Female | 6 | – | – | – | – | – | – | 1 | – | – | 3 | 2 |
| Emphysema (J43) | 144 | – | – | – | – | – | 1 | 4 | 22 | 43 | 39 | 35 |
| Male | 54 | – | – | – | – | – | – | 2 | 9 | 16 | 15 | 12 |
| Female | 90 | – | – | – | – | – | 1 | 2 | 13 | 27 | 24 | 23 |
| Asthma (J45-J46) | 65 | – | 1 | – | 3 | 2 | 2 | 6 | 11 | 12 | 7 | 21 |
| Male | 16 | – | – | – | 2 | – | 1 | 2 | 2 | 5 | 1 | 3 |
| Female | 49 | – | 1 | – | 1 | 2 | 1 | 4 | 9 | 7 | 6 | 18 |
| Other CLRD (J44, J47) | 1,870 | – | – | – | – | 1 | 5 | 31 | 202 | 536 | 611 | 484 |
| Male | 876 | – | – | – | – | – | 1 | 15 | 95 | 289 | 279 | 197 |
| Female | 994 | – | – | – | – | 1 | 4 | 16 | 107 | 247 | 332 | 287 |
| Bronchiectasis (J47) | 19 | – | – | – | – | – | 1 | – | 1 | 3 | 6 | 8 |
| Male | 5 | – | – | – | – | – | – | – | – | – | 2 | 3 |
| Female | 14 | – | – | – | – | – | 1 | – | 1 | 3 | 4 | 5 |
| Pneumoconioses (J60-J66, J68)[20] | 13 | – | – | – | – | – | – | – | – | 4 | 3 | 6 |
| Male | 12 | – | – | – | – | – | – | – | – | 3 | 3 | 6 |
| Female | 1 | – | – | – | – | – | – | – | – | 1 | – | – |

See footnotes at end of table.

## TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Pneumonitis due to solids & liquids (J69) | 154 | – | 2 | – | 1 | 2 | – | 3 | 13 | 21 | 40 | 72 |
| Male | 77 | – | 1 | – | – | 2 | – | 2 | 7 | 11 | 18 | 36 |
| Female | 77 | – | 1 | – | 1 | – | – | 1 | 6 | 10 | 22 | 36 |
| **Digestive system diseases (K00-K92)** | 1,652 | 3 | – | 1 | 5 | 24 | 70 | 165 | 330 | 369 | 299 | 386 |
| Male | 891 | 1 | – | – | 3 | 17 | 45 | 101 | 200 | 223 | 157 | 144 |
| Female | 761 | 2 | – | 1 | 2 | 7 | 25 | 64 | 130 | 146 | 142 | 242 |
| Peptic ulcer (K25-K28) | 68 | – | – | – | 1 | 1 | – | 1 | 9 | 15 | 19 | 22 |
| Male | 35 | – | – | – | – | – | – | 1 | 6 | 9 | 10 | 9 |
| Female | 33 | – | – | – | 1 | 1 | – | – | 3 | 6 | 9 | 13 |
| Diseases of the appendix (K35-K38) | 6 | – | – | – | – | – | – | – | – | 2 | 2 | 2 |
| Male | 3 | – | – | – | – | – | – | – | – | 2 | 1 | – |
| Female | 3 | – | – | – | – | – | – | – | – | – | 1 | 2 |
| Appendicitis (K35-K37) | 6 | – | – | – | – | – | – | – | – | 2 | 2 | 2 |
| Male | 3 | – | – | – | – | – | – | – | – | 2 | 1 | – |
| Female | 3 | – | – | – | – | – | – | – | – | – | 1 | 2 |
| Hernia (K40-K46) | 45 | – | – | – | – | – | – | – | 4 | 3 | 12 | 26 |
| Male | 19 | – | – | – | – | – | – | – | 2 | 2 | 5 | 10 |
| Female | 26 | – | – | – | – | – | – | – | 2 | 1 | 7 | 16 |
| Vascular disorders of the intestine (K55) | 117 | 1 | – | – | – | – | 1 | 5 | 11 | 33 | 30 | 36 |
| Male | 41 | – | – | – | – | – | – | 2 | 6 | 11 | 10 | 12 |
| Female | 76 | 1 | – | – | – | – | 1 | 3 | 5 | 22 | 20 | 24 |
| Chronic liver disease (K70, K73-K74)[21] | 642 | – | – | – | – | 18 | 51 | 122 | 212 | 169 | 52 | 18 |
| Male | 408 | – | – | – | – | 13 | 36 | 76 | 129 | 114 | 31 | 9 |
| Female | 234 | – | – | – | – | 5 | 15 | 46 | 83 | 55 | 21 | 9 |
| Alcoholic liver disease (K70)[22] | 522 | – | – | – | – | 16 | 48 | 106 | 195 | 126 | 24 | 7 |
| Male | 363 | – | – | – | – | 12 | 34 | 68 | 125 | 97 | 21 | 6 |
| Female | 159 | – | – | – | – | 4 | 14 | 38 | 70 | 29 | 3 | 1 |
| Cholelithiasis (K80-K82)[23] | 68 | – | – | – | – | – | – | – | 6 | 11 | 17 | 34 |
| Male | 45 | – | – | – | – | – | – | – | 4 | 9 | 13 | 19 |
| Female | 23 | – | – | – | – | – | – | – | 2 | 2 | 4 | 15 |
| **Diseases of the skin (L00-L98)**[24] | 89 | – | – | – | – | 2 | 1 | 4 | 15 | 12 | 14 | 41 |
| Male | 37 | – | – | – | – | 2 | 1 | 1 | 6 | 6 | 7 | 14 |
| Female | 52 | – | – | – | – | – | – | 3 | 9 | 6 | 7 | 27 |
| **Musculoskeletal disease (M00-M99)**[25] | 249 | – | – | – | – | 1 | 4 | 16 | 28 | 51 | 70 | 79 |
| Male | 95 | – | – | – | – | – | 2 | 8 | 12 | 19 | 29 | 25 |
| Female | 154 | – | – | – | – | 1 | 2 | 8 | 16 | 32 | 41 | 54 |
| **Genitourinary system dis. (N00-N99)** | 671 | – | – | – | 1 | 3 | 12 | 18 | 62 | 128 | 176 | 271 |
| Male | 322 | – | – | – | – | 2 | 6 | 10 | 34 | 71 | 92 | 107 |
| Female | 349 | – | – | – | 1 | 1 | 6 | 8 | 28 | 57 | 84 | 164 |

See footnotes at end of table.

**TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued**

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Nephritis (N00-N07, N17-N19, N25-N27)[26] .... | 377 | – | – | – | – | 3 | 9 | 13 | 42 | 72 | 101 | 137 |
| Male .... | 203 | – | – | – | – | 2 | 5 | 7 | 29 | 42 | 62 | 56 |
| Female .... | 174 | – | – | – | – | 1 | 4 | 6 | 13 | 30 | 39 | 81 |
| Acute nephrotic syndr. (N00-N01, N04)[27] .. | 9 | – | – | – | – | – | – | – | 1 | – | 2 | 6 |
| Male .... | 4 | – | – | – | – | – | – | – | – | – | 2 | 2 |
| Female .... | 5 | – | – | – | – | – | – | – | 1 | – | – | 4 |
| Chr. nephritis (N02-N03, N05-N07, N26)[28] | 14 | – | – | – | – | 1 | 1 | 1 | – | 2 | 6 | 3 |
| Male .... | 6 | – | – | – | – | 1 | – | – | – | 2 | 2 | 1 |
| Female .... | 8 | – | – | – | – | – | 1 | 1 | – | – | 4 | 2 |
| Renal failure (N17-N19) ..... | 353 | – | – | – | – | 2 | 8 | 12 | 40 | 70 | 93 | 128 |
| Male .... | 192 | – | – | – | – | 1 | 5 | 7 | 28 | 40 | 58 | 53 |
| Female .... | 161 | – | – | – | – | 1 | 3 | 5 | 12 | 30 | 35 | 75 |
| Other disorders of kidney (N25, N27) ..... | 1 | – | – | – | – | – | – | – | 1 | – | – | – |
| Male .... | 1 | – | – | – | – | – | – | – | 1 | – | – | – |
| Female .... | – | – | – | – | – | – | – | – | – | – | – | – |
| Kidney infect'ns (N10-N12, N13.6, N15.1) ..... | 23 | – | – | – | 1 | – | 1 | 1 | 2 | 7 | 3 | 8 |
| Male .... | 8 | – | – | – | – | – | – | 1 | – | 4 | – | 3 |
| Female .... | 15 | – | – | – | 1 | – | 1 | – | 2 | 3 | 3 | 5 |
| Urinary tract infection (N39.0) ..... | 163 | – | – | – | – | – | 1 | 1 | 12 | 26 | 41 | 82 |
| Male .... | 53 | – | – | – | – | – | – | – | 1 | 11 | 14 | 27 |
| Female .... | 110 | – | – | – | – | – | 1 | 1 | 11 | 15 | 27 | 55 |
| Hyperplasia of prostate (N40) ..... | 22 | – | – | – | – | – | – | 1 | – | 2 | 6 | 13 |
| Male .... | 22 | – | – | – | – | – | – | 1 | – | 2 | 6 | 13 |
| Female .... | – | – | – | – | – | – | – | – | – | – | – | – |
| Female pelvic inflam. dis. (N70-N76)[29] ..... | 1 | – | – | – | – | – | – | – | – | 1 | – | – |
| Male .... | – | – | – | – | – | – | – | – | – | – | – | – |
| Female .... | 1 | – | – | – | – | – | – | – | – | 1 | – | – |
| **Pregnancy & childbirth (O00-O99)**[30] ..... | 12 | – | – | – | 4 | 4 | 3 | 1 | – | – | – | – |
| Male .... | – | – | – | – | – | – | – | – | – | – | – | – |
| Female .... | 12 | – | – | – | 4 | 4 | 3 | 1 | – | – | – | – |
| Pregnancy with abortive outcome (O00-O07) | – | – | – | – | – | – | – | – | – | – | – | – |
| Male .... | – | – | – | – | – | – | – | – | – | – | – | – |
| Female .... | – | – | – | – | – | – | – | – | – | – | – | – |
| **Perinatal conditions (P00-P96)** ..... | 120 | 117 | 1 | – | – | – | – | – | – | 1 | 1 | – |
| Male .... | 71 | 70 | – | – | – | – | – | – | – | 1 | – | – |
| Female .... | 49 | 47 | 1 | – | – | – | – | – | – | – | 1 | – |
| **Congenital malformations (Q00-Q99)**[31] ..... | 144 | 55 | 4 | 6 | 5 | 7 | 8 | 12 | 18 | 11 | 8 | 10 |
| Male .... | 72 | 24 | 3 | 1 | – | 7 | 5 | 8 | 10 | 3 | 5 | 6 |
| Female .... | 72 | 31 | 1 | 5 | 5 | – | 3 | 4 | 8 | 8 | 3 | 4 |

See footnotes at end of table.

## TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Malformation of the heart (Q20-Q24) | 35 | 14 | 1 | 1 | 2 | 3 | 3 | 2 | 3 | 1 | 1 | 4 |
| Male | 23 | 9 | – | – | – | 3 | 2 | 2 | 3 | – | 1 | 3 |
| Female | 12 | 5 | 1 | 1 | 2 | – | 1 | – | – | 1 | – | 1 |
| Other malf. of the circul. sys. (Q25-Q28) | 8 | 1 | – | 1 | – | 1 | – | – | – | 1 | 1 | 3 |
| Male | 3 | 1 | – | – | – | 1 | – | – | – | – | – | 1 |
| Female | 5 | – | – | 1 | – | – | – | – | – | 1 | 1 | 2 |
| Malf. of the respiratory system (Q30-Q34) | 4 | 3 | – | – | – | – | – | – | – | 1 | – | – |
| Male | 1 | – | – | – | – | – | – | – | – | 1 | – | – |
| Female | 3 | 3 | – | – | – | – | – | – | – | – | – | – |
| **Symptoms & signs (R00-R99)**[32] | 468 | 23 | – | – | 4 | 8 | 10 | 21 | 73 | 90 | 85 | 154 |
| Male | 263 | 18 | – | – | 3 | 5 | 8 | 14 | 54 | 59 | 46 | 56 |
| Female | 205 | 5 | – | – | 1 | 3 | 2 | 7 | 19 | 31 | 39 | 98 |
| Senility (R54) | 26 | – | – | – | – | – | – | – | – | 1 | 4 | 21 |
| Male | 8 | – | – | – | – | – | – | – | – | – | 1 | 7 |
| Female | 18 | – | – | – | – | – | – | – | – | 1 | 3 | 14 |
| Sudden infant death syndrome (R95) | 21 | 21 | – | – | – | – | – | – | – | – | – | – |
| Male | 17 | 17 | – | – | – | – | – | – | – | – | – | – |
| Female | 4 | 4 | – | – | – | – | – | – | – | – | – | – |
| **External causes of death (V01-Y89)** | 3,164 | 20 | 23 | 44 | 261 | 361 | 363 | 378 | 440 | 360 | 333 | 581 |
| Male | 2,073 | 12 | 15 | 25 | 206 | 281 | 257 | 256 | 315 | 254 | 208 | 244 |
| Female | 1,090 | 8 | 8 | 19 | 55 | 79 | 106 | 122 | 125 | 106 | 125 | 337 |
| Accidents (V01-X59, Y85-Y86) | 2,073 | 16 | 20 | 26 | 141 | 200 | 197 | 196 | 270 | 227 | 256 | 524 |
| Male | 1,268 | 10 | 12 | 17 | 107 | 151 | 130 | 134 | 194 | 152 | 156 | 205 |
| Female | 805 | 6 | 8 | 9 | 34 | 49 | 67 | 62 | 76 | 75 | 100 | 319 |
| Transport accidents (V01-V99, Y85) | 553 | 1 | 12 | 15 | 79 | 78 | 71 | 64 | 100 | 63 | 49 | 21 |
| Male | 396 | – | 9 | 11 | 60 | 59 | 47 | 52 | 69 | 43 | 33 | 13 |
| Female | 157 | 1 | 3 | 4 | 19 | 19 | 24 | 12 | 31 | 20 | 16 | 8 |
| Motor vehicle acc. (Many codes)[33] | 507 | 1 | 12 | 14 | 78 | 76 | 65 | 56 | 89 | 55 | 43 | 18 |
| Male | 360 | – | 9 | 10 | 59 | 57 | 42 | 45 | 62 | 37 | 29 | 10 |
| Female | 147 | 1 | 3 | 4 | 19 | 19 | 23 | 11 | 27 | 18 | 14 | 8 |
| Motor veh. traf. acc. (Many codes)[34] | 473 | 1 | 7 | 13 | 75 | 74 | 63 | 50 | 82 | 52 | 39 | 17 |
| Male | 334 | – | 4 | 9 | 59 | 56 | 40 | 39 | 56 | 35 | 26 | 10 |
| Female | 139 | 1 | 3 | 4 | 16 | 18 | 23 | 11 | 26 | 17 | 13 | 7 |
| Other land trans. acc. (Many codes)[35] | 17 | – | – | 1 | 1 | – | 5 | 3 | 3 | 1 | 2 | 1 |
| Male | 14 | – | – | 1 | 1 | – | 4 | 3 | 2 | 1 | 1 | 1 |
| Female | 3 | – | – | – | – | – | 1 | – | 1 | – | 1 | – |
| Water transport accidents (V90-V94) | 6 | – | – | – | – | 2 | – | 2 | – | 1 | 1 | – |
| Male | 5 | – | – | – | – | 2 | – | 1 | – | 1 | 1 | – |
| Female | 1 | – | – | – | – | – | – | 1 | – | – | – | – |

See footnotes at end of table.

**TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued**

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Air transport accidents (V95-V97) | 4 | – | – | – | – | – | – | 1 | 1 | 1 | 1 | – |
| Male | 3 | – | – | – | – | – | – | 1 | – | 1 | 1 | – |
| Female | 1 | – | – | – | – | – | – | – | 1 | – | – | – |
| Nontransport accidents (W00-X59,Y86) | 1,520 | 15 | 8 | 11 | 62 | 122 | 126 | 132 | 170 | 164 | 207 | 503 |
| Male | 872 | 10 | 3 | 6 | 47 | 92 | 83 | 82 | 125 | 109 | 123 | 192 |
| Female | 648 | 5 | 5 | 5 | 15 | 30 | 43 | 50 | 45 | 55 | 84 | 311 |
| Falls (W00-W19) | 764 | – | – | – | 7 | 10 | 10 | 13 | 38 | 83 | 160 | 443 |
| Male | 361 | – | – | – | 5 | 7 | 8 | 8 | 31 | 49 | 93 | 160 |
| Female | 403 | – | – | – | 2 | 3 | 2 | 5 | 7 | 34 | 67 | 283 |
| Firearms (W32-W34) | 4 | – | – | – | – | 1 | – | – | – | 2 | 1 | – |
| Male | 4 | – | – | – | – | 1 | – | – | – | 2 | 1 | – |
| Female | – | – | – | – | – | – | – | – | – | – | – | – |
| Drowning & submersion (W65-W74) | 49 | 1 | 2 | 3 | 10 | 9 | 5 | 3 | 5 | 7 | 3 | 1 |
| Male | 39 | 1 | 1 | 3 | 9 | 6 | 4 | 2 | 4 | 6 | 3 | – |
| Female | 10 | – | 1 | – | 1 | 3 | 1 | 1 | 1 | 1 | – | 1 |
| Exposure to smoke & fire (X00-X09) | 36 | 1 | 3 | 6 | 1 | – | 6 | 4 | 4 | 1 | 5 | 5 |
| Male | 20 | 1 | – | 3 | – | – | 3 | 2 | 2 | – | 4 | 5 |
| Female | 16 | – | 3 | 3 | 1 | – | 3 | 2 | 2 | 1 | 1 | – |
| Poisoning (X40-X49)[36] | 450 | – | – | – | 42 | 94 | 92 | 92 | 93 | 27 | 4 | 6 |
| Male | 302 | – | – | – | 32 | 71 | 57 | 55 | 63 | 18 | 2 | 4 |
| Female | 148 | – | – | – | 10 | 23 | 35 | 37 | 30 | 9 | 2 | 2 |
| Suicide (X60-X84, Y87.0) | 825 | – | – | 10 | 97 | 123 | 131 | 150 | 126 | 102 | 55 | 31 |
| Male | 629 | – | – | 5 | 80 | 99 | 99 | 100 | 94 | 85 | 42 | 25 |
| Female | 195 | – | – | 5 | 17 | 23 | 32 | 50 | 32 | 17 | 13 | 6 |
| Poisoning (X60-X69) | 130 | – | – | 1 | 8 | 18 | 22 | 28 | 26 | 16 | 9 | 2 |
| Male | 67 | – | – | – | 5 | 10 | 13 | 13 | 11 | 10 | 3 | 2 |
| Female | 62 | – | – | 1 | 3 | 7 | 9 | 15 | 15 | 6 | 6 | – |
| Hanging/suffocation (X70) | 180 | – | – | 7 | 31 | 43 | 35 | 25 | 21 | 14 | 1 | 3 |
| Male | 134 | – | – | 4 | 24 | 34 | 25 | 17 | 17 | 10 | – | 3 |
| Female | 46 | – | – | 3 | 7 | 9 | 10 | 8 | 4 | 4 | 1 | – |
| Firearm discharge (X72-X74) | 439 | – | – | 2 | 48 | 53 | 59 | 78 | 65 | 66 | 44 | 24 |
| Male | 372 | – | – | 1 | 43 | 48 | 50 | 57 | 55 | 60 | 39 | 19 |
| Female | 67 | – | – | 1 | 5 | 5 | 9 | 21 | 10 | 6 | 5 | 5 |
| Homicide (X85-Y09, Y87.1) | 128 | 3 | 2 | 7 | 11 | 28 | 25 | 22 | 14 | 11 | 4 | 1 |
| Male | 97 | 1 | 2 | 3 | 10 | 23 | 20 | 19 | 10 | 7 | 1 | 1 |
| Female | 31 | 2 | – | 4 | 1 | 5 | 5 | 3 | 4 | 4 | 3 | – |
| Firearm discharge (X93-X95) | 74 | – | – | 6 | 8 | 18 | 18 | 13 | 4 | 3 | 3 | 1 |
| Male | 58 | – | – | 2 | 7 | 16 | 16 | 11 | 2 | 3 | – | 1 |
| Female | 16 | – | – | 4 | 1 | 2 | 2 | 2 | 2 | – | 3 | – |

See footnotes at end of table.

## TABLE 6-6. Number of deaths from selected causes by age and sex, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Total | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Legal intervention (Y35, Y89.0)[37] | 11 | – | – | – | 3 | 3 | 3 | 1 | – | 1 | – | – |
| Male | 11 | – | – | – | 3 | 3 | 3 | 1 | – | 1 | – | – |
| Female | – | – | – | – | – | – | – | – | – | – | – | – |
| Undeterm. intent (Y10-Y34, Y87.2, Y89.9) | 60 | 1 | 1 | 1 | 9 | 7 | 6 | 8 | 19 | 5 | 3 | – |
| Male | 32 | 1 | 1 | – | 6 | 5 | 4 | 1 | 10 | 2 | 2 | – |
| Female | 28 | – | – | 1 | 3 | 2 | 2 | 7 | 9 | 3 | 1 | – |
| Medical care complica'ns (Y40-Y84, Y88) | 67 | – | – | – | – | – | 1 | 1 | 11 | 14 | 15 | 25 |
| Male | 36 | – | – | – | – | – | 1 | 1 | 7 | 7 | 7 | 13 |
| Female | 31 | – | – | – | – | – | – | – | 4 | 7 | 8 | 12 |
| *Injury by firearms (Many codes)*[38] | 529 | – | – | 8 | 59 | 75 | 80 | 93 | 69 | 72 | 48 | 25 |
| Male | 445 | – | – | 3 | 53 | 68 | 69 | 69 | 57 | 66 | 40 | 20 |
| Female | 84 | – | – | 5 | 6 | 7 | 11 | 24 | 12 | 6 | 8 | 5 |
| *Alcohol-induced deaths (Many codes)*[39,40] | 878 | – | – | – | 1 | 29 | 74 | 194 | 310 | 215 | 43 | 12 |
| Male | 622 | – | – | – | – | 20 | 51 | 129 | 215 | 163 | 35 | 9 |
| Female | 256 | – | – | – | 1 | 9 | 23 | 65 | 95 | 52 | 8 | 3 |
| *Drug-induced deaths (Many codes)* [41,42] | 671 | 1 | 1 | 1 | 52 | 119 | 113 | 138 | 143 | 69 | 21 | 13 |
| Male | 418 | – | 1 | – | 38 | 84 | 63 | 79 | 89 | 48 | 8 | 8 |
| Female | 252 | 1 | – | 1 | 14 | 34 | 50 | 59 | 54 | 21 | 13 | 5 |
| *Injury at work*[43] | 61 | – | – | – | 1 | 10 | 10 | 12 | 19 | 8 | – | 1 |
| Male | 58 | – | – | – | 1 | 10 | 9 | 12 | 17 | 8 | – | 1 |
| Female | 3 | – | – | – | – | – | 1 | – | 2 | – | – | – |

– Quantity is zero.
* Includes unknown sex.
1 International Statistical Classification of Diseases and Related Health Problems, Tenth Revision. Geneva: World Health Organization, 1992.
2 Human immunodeficiency virus/ acquired immune deficiency syndrome.
3 Includes uterus, part unspecified.
4 Includes meninges and other parts of the central nervous system.
5 Includes immunoproliferative neoplasms.
6 Includes in situ neoplasms, benign neoplasms, and neoplasms of uncertain or unknown behavior.
7 Includes diseases of the blood forming-organs and disorders involving the immune mechanism.
8 Includes metabolic diseases.
9 Includes behavioral disorders.
10 In 2005, the National Center for Health Statistics changed the ICD-10 codes to which certain brain disorders were coded. In prior years, "multi-infarct dementia" was coded to I63.9 (cerebral infarction, unspecified) and "vascular dementia" as I67.9 (cerebrovascular disease, unspecified). Beginning in 2005, "multi-infarct dementia" is assigned to code F01.1 and "vascular dementia" to F01.9. Therefore, certain deaths formerly attributed to the cerebrovascular disease rubric are now counted as forms of organic dementia.
11 For all deaths due to alcohol, see "Alcohol-induced deaths" at the end of the table.
12 Includes acute rheumatic fever.
13 The ICD-10 code is I25.0.
14 Includes angina, arteriosclerotic heart disease, coronary heart disease, and related disorders. The ICD-10 codes are I20, I25.1-I25.9.
15 Hypertension with/without renal disease.
16 Includes other intracranial hemorrhages.

[17] Includes diseases of the arterioles and capillaries.
[18] Includes acute bronchiolitis.
[19] Formerly chronic obstructive pulmonary disease (COPD).
[20] Includes respiratory conditions due to inhalation of chemicals, gases, fumes, and vapors.
[21] Includes liver cirrhosis.
[22] For all deaths due to alcohol, see "Alcohol-induced deaths" at the end of the table.
[23] Includes other diseases of the gallbladder.
[24] Includes subcutaneous tissues.
[25] Includes connective tissue.
[26] Includes nephrotic syndrome and nephrosis.
[27] Includes acute and rapidly progressive nephritic and nephrotic syndrome.
[28] Includes chronic glomerulonephritis, nephritis and nephritis not specified as acute or chronic, and renal sclerosis unspecified.
[29] Inflammatory diseases of female pelvic organs.
[30] Includes the puerperium.
[31] Includes congenital deformations and chromosomal abnormalities.
[32] Includes abnormal clinical and laboratory findings not elsewhere classified.
[33] Includes the following ICD-10 codes: V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6,V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2.
[34] Includes the following ICD-10 codes: V02-V04(.1,.9), V09.2, V12-V14(.3-.9), V19(.4-.6), V20-V28(.3-.9), V29(.4-.9), V30-V39(.4-.9), V40-V49(.4-.9), V50-V59(.4-.9), V60-V69(.4-.9), V70-V79(.4-.9), V80(.3-.5), V81.1, V82.1, V83-V86(.0-.3), V87(.0-.8), V89.2.
[35] Includes the following ICD-10 codes: V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9.
[36] Includes exposure to noxious substances.
[37] Legal intervention is the intentional or unintentional death of a person resulting from the actions of a law enforcement agent. This figure may not include all such deaths if the certifying medical examiner failed to note (on the death certificate) the involvement of a law enforcement agent.
[38] Includes accidental, suicidal, homicidal, and undetermined intent gunshot deaths (ICD-10 codes W32-W34, X72-X74, X93-X95, Y22-Y24, and Y35.0). Note this category includes injuries included in other cause of death categories.
[39] Includes: alcoholic mental/behavioral disorders, degeneration of nervous system, polyneuropathy, alcoholic myopathy, cardiomyopathy, gastritis, liver disease, chronic pancreatitis, alcohol in the blood, accidental poisoning by alcohol, intentional self-poisoning, and poisoning of undetermined intent. Note disorders included here are also included in other cause of death categories.
[40] The ICD-10 codes for the above categories are E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15.
[41] Includes a variety of conditions affecting multiple organ systems, such as poisonings/overdoses and mental/behavioral disorders due to substance use/abuse. Other conditions, such as drug-induced hypoglycemia and drug-induced Parkinsonism are also included here. Note disorders included here are also included in other cause of death categories.
[42] The ICD-10 codes for the above categories are: D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1-F11.5, F11.7-F11.9, F12.1-F12.5, F12.7-F12.9, F13.1-F13.5, F13.7-F13.9, F14.1-F14.5, F14.7-F14.9, F15.1-F15.5, F15.7-F15.9, F16.1-F16.5, F16.7-F16.9, F18.1-F18.5, F18.7-F18.9, F19.1-F19.5, F19.7-F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, K85.3, L10.5, L27.0-L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1-R78.5, X40-X44, X60-X64, X85, Y10-Y14.
[43] Recorded as a separate item on the death certificate by the medical examiner.

## TABLE 6-7t. Total death rates for selected causes by age, Oregon residents, 2017

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| **Total** | 884.8 | 540.9 | 23.6 | 14.9 | 65.8 | 99.3 | 158.5 | 347.9 | 862.8 | 1,702.5 | 4,229.9 | 14,405.7 |
| **Infections & parasitic disease (A00-B99)** | 16.8 | 20.6 | 1.4 | 0.2 | 0.2 | 1.1 | 3.7 | 11.7 | 25.6 | 38.5 | 66.7 | 185.8 |
| Tuberculosis (A16-A19) | 0.1 | – | – | – | – | – | – | 0.2 | 0.2 | 0.7 | – | 1.2 |
| Septicemia (A40-A41) | 5.8 | 6.9 | 0.5 | 0.2 | 0.2 | 0.4 | 1.3 | 2.7 | 7.3 | 13.3 | 27.8 | 71.7 |
| Creutzfeldt-Jacob disease (A81.0) | 0.3 | – | – | – | – | – | – | – | 0.2 | 1.7 | 1.0 | 1.2 |
| Viral hepatitis (B15-B19) | 3.4 | – | – | – | – | – | 0.4 | 4.8 | 10.9 | 9.7 | 3.9 | 5.9 |
| HIV/AIDS (B20-B24)[3] | 1.0 | – | – | – | – | – | 1.3 | 2.9 | 2.4 | 1.2 | 0.5 | 1.2 |
| **Malignant neoplasms (C00-C97)** | 195.2 | 2.3 | 2.4 | 2.6 | 3.1 | 6.7 | 25.0 | 82.6 | 272.7 | 560.4 | 1,094.4 | 1,625.3 |
| Lip, oral cavity & pharynx (C00-C14) | 3.5 | – | – | – | 0.2 | – | 0.4 | 1.7 | 6.9 | 13.1 | 13.1 | 16.5 |
| Digestive organs (C15-26) | 51.9 | – | – | 0.4 | – | 0.9 | 7.0 | 24.4 | 86.8 | 149.8 | 276.6 | 371.6 |
| Esophagus (C15) | 6.0 | – | – | – | – | – | 0.7 | 3.8 | 10.7 | 20.9 | 28.7 | 24.7 |
| Stomach (C16) | 2.3 | – | – | – | – | – | 1.1 | 1.2 | 2.4 | 7.8 | 11.7 | 17.6 |
| Colon, rectum & anus (C18-C21) | 16.1 | – | – | – | – | 0.7 | 2.9 | 8.7 | 25.1 | 34.9 | 93.5 | 151.7 |
| Colon (C18) | 10.6 | – | – | – | – | 0.7 | 1.7 | 5.2 | 14.4 | 22.8 | 66.2 | 103.5 |
| Rectosigmoid junction (C19) | 1.3 | – | – | – | – | – | 0.9 | 0.8 | 3.0 | 2.1 | 5.4 | 9.4 |
| Rectum (C20) | 3.5 | – | – | – | – | – | 0.4 | 2.1 | 5.8 | 8.3 | 17.5 | 32.9 |
| Liver & intrahepatic bile ducts (C22) | 9.2 | – | – | 0.4 | – | – | 0.7 | 3.3 | 21.9 | 33.9 | 32.6 | 34.1 |
| Pancreas (C25) | 15.5 | – | – | – | – | – | 1.3 | 6.0 | 22.5 | 46.3 | 95.5 | 107.0 |
| Respiratory, intrathoracic org'ns (C30-C39) | 46.1 | – | – | – | – | 0.2 | 1.7 | 13.1 | 62.5 | 156.9 | 289.3 | 287.0 |
| Larynx (C32) | 0.7 | – | – | – | – | – | – | 0.2 | 0.9 | 2.6 | 3.9 | 2.4 |
| Trachea, bronchus & lung (C33-C34) | 45.0 | – | – | – | – | – | 1.5 | 12.7 | 60.8 | 153.1 | 283.0 | 282.3 |
| Bronchus & lung (C34) | 45.0 | – | – | – | – | – | 1.5 | 12.7 | 60.8 | 153.1 | 283.0 | 282.3 |
| Skin (C43-C44) | 4.7 | – | – | – | 0.2 | 0.7 | 1.5 | 1.0 | 6.9 | 10.4 | 26.8 | 47.0 |
| Melanoma of skin (C43) | 3.2 | – | – | – | – | 0.5 | 1.3 | 0.8 | 4.9 | 7.6 | 18.5 | 27.0 |
| Mesothelioma (C45) | 1.0 | – | – | – | – | – | – | 0.2 | 0.2 | 2.6 | 11.2 | 5.9 |
| Breast (C50) | 12.5 | – | – | – | – | 0.2 | 4.6 | 11.0 | 20.6 | 31.3 | 50.2 | 103.5 |
| Female genital organs (C51-58) | 11.2 | – | – | – | – | 1.1 | 2.4 | 8.7 | 14.6 | 35.4 | 48.7 | 87.0 |
| Cervix uteri (C53) | 1.1 | – | – | – | – | 0.5 | 0.7 | 2.5 | 1.1 | 2.6 | 2.4 | 5.9 |
| Corpus uteri (C54-C55)[4] | 3.3 | – | – | – | – | – | 1.1 | 2.1 | 4.5 | 13.1 | 10.7 | 23.5 |
| Ovary (C56) | 5.8 | – | – | – | – | 0.5 | 0.6 | 3.7 | 8.2 | 16.6 | 30.2 | 44.7 |
| Male genital organs (C60-C63) | 11.0 | – | – | – | 0.6 | 0.4 | 0.2 | 1.3 | 6.4 | 28.7 | 73.5 | 159.9 |
| Prostate (C61) | 10.6 | – | – | – | – | – | – | 1.2 | 6.0 | 28.0 | 73.5 | 157.6 |
| Kidney & renal pelvis (C64-C65) | 4.6 | – | – | – | – | 0.2 | 0.2 | 2.9 | 5.1 | 14.2 | 25.8 | 38.8 |
| Bladder (C67) | 6.1 | – | – | – | – | – | 0.2 | 0.8 | 5.4 | 12.6 | 38.5 | 103.5 |
| Brain, etc. (C70-C72)[5] | 5.9 | – | 0.5 | 0.8 | 0.4 | 1.3 | 2.8 | 4.0 | 12.0 | 19.5 | 17.0 | 17.6 |

See footnotes at end of table.

**TABLE 6-7t. Total death rates for selected causes by age, Oregon residents, 2017 — Continued**

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Thyroid/endocrine gland (C73-C75) | 0.9 | 2.3 | 0.5 | – | – | – | – | 0.4 | 1.5 | 3.3 | 3.4 | 5.9 |
| Lymphoid & hematopoietic (C81-C96) | 19.7 | – | 0.9 | 0.4 | 0.8 | 0.7 | 1.8 | 6.5 | 21.3 | 45.3 | 129.6 | 219.9 |
| Hodgkin's disease (C81) | 0.2 | – | – | – | – | – | – | 0.2 | – | 0.7 | 1.9 | 1.2 |
| Non-Hodgkin's lymphoma (C82-C85) | 6.7 | – | – | – | – | – | 0.4 | 2.1 | 7.7 | 16.6 | 45.3 | 72.9 |
| Leukemia (C91-C95) | 8.4 | – | 0.9 | 0.4 | 0.8 | 0.7 | 1.5 | 3.3 | 8.6 | 17.3 | 52.6 | 96.4 |
| Lymphoid leukemia (C91) | 2.2 | – | 0.5 | 0.2 | 0.4 | 0.4 | 0.4 | – | 2.1 | 2.8 | 14.6 | 34.1 |
| Myeloid leukemia (C92) | 5.0 | – | 0.5 | – | 0.4 | 0.4 | 0.9 | 2.9 | 5.8 | 11.6 | 30.7 | 44.7 |
| Multiple myeloma (C88, C90)[6] | 4.2 | – | – | – | – | – | – | 1.0 | 4.9 | 10.7 | 28.2 | 47.0 |
| **Neopla. not specif. as malig. (D00-D48)**[7] | 5.4 | 2.3 | – | 0.2 | 0.4 | 0.2 | 0.4 | 0.2 | 3.0 | 13.8 | 34.1 | 84.7 |
| Myelodysplastic syndromes (D46) | 2.3 | – | – | – | – | – | – | – | 0.4 | 5.0 | 17.5 | 41.2 |
| **Diseases of the blood (D50-89)**[8] | 3.0 | 4.6 | 0.9 | 0.4 | 0.2 | 0.5 | 0.4 | 1.2 | 2.8 | 5.9 | 13.1 | 48.2 |
| Anemias (D50-D64) | 1.5 | 2.3 | 0.5 | – | 0.2 | 0.2 | 0.2 | – | 0.9 | 2.4 | 4.9 | 36.5 |
| **Endocrine & nutritional dis. (E00-E88)**[9] | 44.5 | 2.3 | 0.5 | 0.2 | 1.0 | 3.2 | 8.5 | 26.4 | 64.6 | 102.5 | 207.5 | 508.1 |
| Diabetes mellitus (E10-E14) | 30.0 | – | – | – | 0.6 | 1.4 | 5.2 | 17.7 | 45.7 | 71.4 | 143.7 | 319.9 |
| Nutritional deficiencies (E40-E64) | 2.4 | – | – | – | – | 0.4 | – | 0.2 | 0.6 | 2.8 | 10.7 | 68.2 |
| Malnutrition (E40-E46) | 2.4 | – | – | – | – | 0.4 | – | 0.2 | 0.6 | 2.8 | 10.7 | 68.2 |
| **Mental disorders (F01-F99)**[10] | 64.2 | 2.3 | – | – | 0.8 | 4.3 | 5.7 | 20.6 | 32.0 | 61.5 | 258.1 | 1,800.6 |
| Organic dementia (F01, F03)[11] | 51.6 | – | – | – | – | – | – | 0.4 | 3.7 | 31.6 | 236.2 | 1,761.8 |
| Due to alcohol (F10)[12] | 7.1 | – | – | – | – | 1.6 | 3.7 | 13.3 | 18.3 | 17.8 | 7.8 | 5.9 |
| Due to psychoactive substance (F11-F19) | 3.5 | – | – | – | 0.8 | 2.3 | 1.8 | 6.5 | 6.6 | 7.8 | 3.9 | 9.4 |
| **Nervous system dis. (G00-G99)** | 75.9 | 4.6 | 2.4 | 0.6 | 1.7 | 2.2 | 3.3 | 7.9 | 28.8 | 91.9 | 415.4 | 1,953.5 |
| Meningitis (G00, G03) | 0.1 | – | 0.5 | – | – | – | – | 0.2 | 0.2 | 0.2 | – | – |
| Amyotrophic lateral sclerosis (G12.2) | 2.5 | – | – | – | – | – | 0.7 | 0.8 | 5.2 | 9.0 | 11.7 | 4.7 |
| Parkinson's disease (G20-G21) | 11.2 | – | – | – | – | – | – | 0.2 | 2.2 | 16.1 | 93.5 | 225.8 |
| Alzheimer's disease (G30) | 44.7 | – | – | – | – | – | – | 0.6 | 3.7 | 27.3 | 216.2 | 1,491.3 |
| Multiple sclerosis (G35) | 1.9 | – | – | – | – | – | 0.2 | 0.2 | 3.2 | 7.1 | 10.2 | 8.2 |
| Epilepsy (G40-G41) | 0.8 | – | – | – | 0.4 | 0.4 | 0.4 | 1.5 | 0.9 | 1.4 | 2.4 | 5.9 |
| **Ear & mastoid process dis. (H60-H95)** | <0.05 | – | – | – | – | 0.2 | – | 0.2 | – | – | – | – |
| **Circulatory system diseases (I00-I99)** | 241.3 | – | 0.9 | 0.6 | 2.9 | 6.3 | 20.4 | 63.9 | 183.6 | 396.6 | 1,174.7 | 5,211.2 |
| Major cardiovascular disease (I00-I78) | 239.8 | – | 0.9 | 0.4 | 2.7 | 5.9 | 19.9 | 63.3 | 181.7 | 393.5 | 1,166.9 | 5,194.7 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 167.7 | – | 0.5 | 0.2 | 2.1 | 4.5 | 14.5 | 50.8 | 130.8 | 278.2 | 802.6 | 3,581.1 |
| Rheumatic heart disease (I00-I09)[13] | 2.1 | – | – | – | – | – | – | 0.6 | 1.5 | 4.0 | 9.3 | 47.0 |
| Hypertensive heart disease (I11) | 6.6 | – | – | – | – | 0.4 | 0.7 | 1.2 | 2.2 | 8.1 | 28.7 | 183.5 |
| Hypertensive heart & renal dis. (I13) | 2.1 | – | – | – | – | – | – | 0.2 | 1.1 | 1.9 | 10.7 | 58.8 |
| Ischemic heart disease (I20-I25) | 81.8 | – | – | – | 0.4 | 1.3 | 8.7 | 28.7 | 80.3 | 168.3 | 408.6 | 1,417.2 |
| Myocardial infarction (I21-I22) | 26.3 | – | – | – | 0.2 | 0.4 | 2.8 | 9.2 | 25.6 | 66.7 | 129.6 | 397.5 |

See footnotes at end of table.

## TABLE 6-7t. Total death rates for selected causes by age, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Other acute ischemic hrt. dis. (I24) .. | 0.6 | – | – | – | – | – | 0.2 | – | – | 1.7 | 4.4 | 10.6 |
| Chronic isch. heart dis. (I20, I25) .... | 54.9 | – | – | – | 0.2 | 0.9 | 5.7 | 19.4 | 54.6 | 99.9 | 274.7 | 1,009.1 |
| Atheroscler. cardiovascular dis.[14] | 3.3 | – | – | – | – | 0.2 | 0.4 | 2.5 | 7.5 | 5.9 | 15.1 | 30.6 |
| Other chr. ischemic heart dis.[15] ... | 51.6 | – | – | – | 0.2 | 0.7 | 5.3 | 16.9 | 47.2 | 94.0 | 259.6 | 978.5 |
| Nonrheumatic mitral valve dis. (I34) ... | 1.2 | – | – | – | – | – | – | 0.4 | 0.6 | 1.2 | 6.8 | 31.8 |
| Nonrheumatic aortic valve dis. (I35) ... | 11.3 | – | – | – | – | – | – | 0.4 | 2.8 | 8.5 | 52.1 | 363.4 |
| Cardiomyopathy (I42) ..... | 6.1 | – | – | – | 0.8 | 0.9 | 1.3 | 5.8 | 8.8 | 10.9 | 30.2 | 60.0 |
| Heart failure (I50) ..... | 25.0 | – | – | – | – | 0.5 | 0.7 | 3.7 | 9.7 | 34.2 | 111.5 | 685.6 |
| Congestive heart failure (I50.0) ..... | 18.4 | – | – | – | – | 0.2 | 0.4 | 3.1 | 7.5 | 22.3 | 80.4 | 524.5 |
| Left ventricular heart failure (I50.1) | 0.2 | – | – | – | – | – | – | – | – | 1.2 | 0.5 | 1.2 |
| Heart failure, unspecified (I50.9) ..... | 6.4 | – | – | – | – | 0.4 | 0.4 | 0.6 | 2.2 | 10.7 | 30.7 | 159.9 |
| HBP (I10, I12, I15)[16] ..... | 13.5 | – | – | – | – | – | 1.1 | 3.1 | 15.7 | 22.3 | 56.0 | 289.3 |
| Cerebrovascular disease (I60-I69)[11] ..... | 49.9 | – | 0.5 | 0.2 | 0.4 | 1.1 | 2.9 | 7.9 | 28.3 | 78.1 | 256.2 | 1,167.8 |
| Subarachnoid hemorrhage (I60) ..... | 1.4 | – | – | – | 0.2 | – | 0.6 | 1.7 | 3.4 | 2.1 | 4.9 | 10.6 |
| Intracerebral hemorrhage (I61-I62)[17] | 9.5 | – | – | 0.2 | – | 0.7 | 1.8 | 2.5 | 7.9 | 19.9 | 50.2 | 162.3 |
| Cerebral infarction (I63) ..... | 5.3 | – | – | – | – | – | – | 0.8 | 3.4 | 10.2 | 30.2 | 110.6 |
| Stroke (type not specified) (I64) ..... | 18.5 | – | 0.5 | – | – | 0.2 | 0.4 | 1.3 | 7.7 | 26.6 | 101.3 | 465.7 |
| Atherosclerosis (I70) ..... | 0.7 | – | – | – | – | – | – | – | 0.2 | 1.2 | 5.4 | 16.5 |
| Aortic aneurysm & dissection (I71) ..... | 4.3 | – | – | – | 0.2 | 0.4 | 0.6 | 1.2 | 4.1 | 5.9 | 29.2 | 70.6 |
| Diseases of arteries (I72-I78)[18] ..... | 3.6 | – | – | – | – | – | 0.7 | 0.4 | 2.6 | 7.8 | 17.5 | 69.4 |
| **Respiratory system diseases (J00-J99)** .. | 79.7 | 2.3 | 1.9 | – | 1.5 | 0.9 | 4.4 | 15.0 | 68.9 | 188.9 | 485.6 | 1,198.4 |
| Influenza & pneumonia (J09-J18) ..... | 13.8 | 2.3 | 0.5 | – | 0.4 | – | 1.5 | 4.2 | 11.8 | 18.8 | 63.3 | 314.0 |
| Influenza (J09-J11) ..... | 4.9 | – | – | – | – | – | 0.4 | 1.5 | 3.9 | 6.2 | 20.5 | 122.3 |
| Pneumonia (J12-J18) ..... | 8.9 | 2.3 | 0.5 | – | 0.4 | – | 1.1 | 2.7 | 7.9 | 12.6 | 42.9 | 191.7 |
| Other acute lower resp. infect'ns (J20-J22) | 0.1 | – | – | – | – | – | – | 0.2 | 0.2 | – | – | 4.7 |
| Acute bronchitis (J20-J21)[19] ..... | 0.1 | – | – | – | – | – | – | – | – | – | – | 3.5 |
| Chronic lower respiratory dis. (J40-J47)[20] .. | 50.4 | – | 0.5 | – | 0.6 | 0.5 | 1.5 | 8.1 | 44.4 | 140.3 | 321.4 | 638.6 |
| Bronchitis, chronic & unspec. (J40-J42) | 0.2 | – | – | – | – | – | – | 0.2 | 0.4 | – | 1.5 | 3.5 |
| Emphysema (J43) ..... | 3.5 | – | – | – | – | – | 0.2 | 0.8 | 4.1 | 10.2 | 19.0 | 41.2 |
| Asthma (J45-J46) ..... | 1.6 | – | 0.5 | – | 0.6 | 0.4 | 0.4 | 1.2 | 2.1 | 2.8 | 3.4 | 24.7 |
| Other CLRD (J44, J47) ..... | 45.2 | – | – | – | – | 0.2 | 0.9 | 6.0 | 37.8 | 127.2 | 297.6 | 569.2 |
| Bronchiectasis (J47) ..... | 0.5 | – | – | – | – | – | 0.2 | – | 0.2 | 0.7 | 2.9 | 9.4 |
| Pneumoconioses (J60-J66, J68)[21] ..... | 0.3 | – | – | – | – | – | – | – | – | 0.9 | 1.5 | 7.1 |
| Pneumonitis due to solids & liquids (J69) ... | 3.7 | – | 0.9 | – | 0.2 | 0.4 | – | 0.6 | 2.4 | 5.0 | 19.5 | 84.7 |
| **Digestive system diseases (K00-K92)** .... | 39.9 | 6.9 | – | 0.2 | 1.0 | 4.3 | 12.9 | 31.8 | 61.8 | 87.6 | 145.6 | 454.0 |
| Peptic ulcer (K25-K28) ..... | 1.6 | – | – | – | 0.2 | 0.2 | – | 0.2 | 1.7 | 3.6 | 9.3 | 25.9 |

See footnotes at end of table.

**TABLE 6-7t. Total death rates for selected causes by age, Oregon residents, 2017 — Continued**

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Diseases of the appendix (K35-K38) | 0.1 | – | – | – | – | – | – | – | – | 0.5 | 1.0 | 2.4 |
| Appendicitis (K35-K37) | 0.1 | – | – | – | – | – | – | – | – | 0.5 | 1.0 | 2.4 |
| Hernia (K40-K46) | 1.1 | – | – | – | – | – | – | – | 0.7 | 0.7 | 5.8 | 30.6 |
| Vascular disorders of the intestine (K55) | 2.8 | 2.3 | – | – | – | – | 0.2 | 1.0 | 2.1 | 7.8 | 14.6 | 42.3 |
| Chronic liver disease (K70, K73-K74)[22] | 15.5 | – | – | – | – | 3.2 | 9.4 | 23.5 | 39.7 | 40.1 | 25.3 | 21.2 |
| Alcoholic liver disease (K70)[23] | 12.6 | – | – | – | – | 2.9 | 8.8 | 20.4 | 36.5 | 29.9 | 11.7 | 8.2 |
| Cholelithiasis (K80-K82)[24] | 1.6 | – | – | – | – | – | – | – | 1.1 | 2.6 | 8.3 | 40.0 |
| **Diseases of the skin (L00-L98)**[25] | 2.1 | – | – | – | – | 0.4 | 0.2 | 0.8 | 2.8 | 2.8 | 6.8 | 48.2 |
| **Musculoskeletal disease (M00-M99)**[26] | 6.0 | – | – | – | – | 0.2 | 0.7 | 3.1 | 5.2 | 12.1 | 34.1 | 92.9 |
| **Genitourinary system dis. (N00-N99)** | 16.2 | – | – | – | 0.2 | 0.5 | 2.2 | 3.5 | 11.6 | 30.4 | 85.7 | 318.7 |
| Nephritis (N00-N07, N17-N19, N25-N27)[27] | 9.1 | – | – | – | – | 0.5 | 1.7 | 2.5 | 7.9 | 17.1 | 49.2 | 161.1 |
| Acute nephrotic syndrome[28] | 0.2 | – | – | – | – | – | – | – | 0.2 | – | 1.0 | 7.1 |
| Chronic nephritis[29] | 0.3 | – | – | – | – | 0.2 | 0.2 | 0.2 | – | 0.5 | 2.9 | 3.5 |
| Renal failure (N17-N19) | 8.5 | – | – | – | – | 0.4 | 1.5 | 2.3 | 7.5 | 16.6 | 45.3 | 150.5 |
| Kidney infect'ns (N10-N12, N13.6, N15.1) | 0.6 | – | – | – | 0.2 | – | 0.2 | 0.2 | 0.4 | 1.7 | 1.5 | 9.4 |
| Urinary tract infection (N39.0) | 3.9 | – | – | – | – | – | 0.2 | 0.2 | 2.2 | 6.2 | 20.0 | 96.4 |
| Hyperplasia of prostate (N40) | 0.5 | – | – | – | – | – | – | 0.2 | – | 0.5 | 2.9 | 15.3 |
| Female pelvic inflam. dis. (N70-N76)[30] | <0.05 | – | – | – | – | – | – | – | – | 0.2 | – | – |
| **Pregnancy & childbirth (O00-O99)**[31] | 0.3 | – | – | – | 0.8 | 0.7 | 0.6 | 0.2 | – | – | – | – |
| Pregnancy with abortive outcome (O00-O07) | – | – | – | – | – | – | – | – | – | – | – | – |
| **Perinatal conditions (P00-P96)** | 2.9 | 268.2 | 0.5 | – | – | – | – | – | – | 0.2 | 0.5 | – |
| **Congenital malformations (Q00-Q99)**[32] | 3.5 | 126.1 | 1.9 | 1.2 | 1.0 | 1.3 | 1.5 | 2.3 | 3.4 | 2.6 | 3.9 | 11.8 |
| Malformation of the heart (Q20-Q24) | 0.8 | 32.1 | 0.5 | 0.2 | 0.4 | 0.5 | 0.6 | 0.4 | 0.6 | 0.2 | 0.5 | 4.7 |
| Other malf. of the circul. sys. (Q25-Q28) | 0.2 | 2.3 | – | 0.2 | – | 0.2 | – | – | – | 0.2 | 0.5 | 3.5 |
| Malf. of the respiratory system (Q30-Q34) | 0.1 | 6.9 | – | – | – | – | – | – | – | 0.2 | – | – |
| **Symptoms & signs (R00-R99)**[33] | 11.3 | 52.7 | – | – | 0.8 | 1.4 | 1.8 | 4.0 | 13.7 | 21.4 | 41.4 | 181.1 |
| Senility (R54) | 0.6 | – | – | – | – | – | – | – | – | 0.2 | 1.9 | 24.7 |
| Sudden infant death syndrome (R95) | 0.5 | 48.1 | – | – | – | – | – | – | – | – | – | – |
| **External causes of death (V01-Y89)** | 76.4 | 45.8 | 10.8 | 8.8 | 50.3 | 64.9 | 66.8 | 72.7 | 82.3 | 85.4 | 162.2 | 683.3 |
| Accidents (V01-X59, Y85-Y86) | 50.1 | 36.7 | 9.4 | 5.2 | 27.2 | 36.0 | 36.3 | 37.7 | 50.5 | 53.9 | 124.7 | 616.3 |
| Transport accidents (V01-V99, Y85) | 13.4 | 2.3 | 5.7 | 3.0 | 15.2 | 14.0 | 13.1 | 12.3 | 18.7 | 15.0 | 23.9 | 24.7 |
| Motor vehicle acc. (Many codes)[34] | 12.2 | 2.3 | 5.7 | 2.8 | 15.0 | 13.7 | 12.0 | 10.8 | 16.7 | 13.1 | 20.9 | 21.2 |
| Motor veh. traf. (Many codes)[35] | 11.4 | 2.3 | 3.3 | 2.6 | 14.5 | 13.3 | 11.6 | 9.6 | 15.3 | 12.3 | 19.0 | 20.0 |
| Other land trans. acc. (Many codes)[36] | 0.4 | – | – | 0.2 | 0.2 | – | 0.9 | 0.6 | 0.6 | 0.2 | 1.0 | 1.2 |
| Water transport accidents (V90-V94) | 0.1 | – | – | – | – | 0.4 | – | 0.4 | – | 0.2 | 0.5 | – |

See footnotes at end of table.

## TABLE 6-7t. Total death rates for selected causes by age, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Air transport accidents (V95-V97) ..... | 0.1 | – | – | – | – | – | – | 0.2 | 0.2 | 0.2 | 0.5 | – |
| Nontransport accidents (W00-X59,Y86) | 36.7 | 34.4 | 3.8 | 2.2 | 12.0 | 21.9 | 23.2 | 25.4 | 31.8 | 38.9 | 100.8 | 591.6 |
| Falls (W00-W19) ..... | 18.4 | – | – | – | 1.4 | 1.8 | 1.8 | 2.5 | 7.1 | 19.7 | 77.9 | 521.0 |
| Firearms (W32-W34) ..... | 0.1 | – | – | – | – | 0.2 | – | – | – | 0.5 | 0.5 | – |
| Drowning & submersion (W65-W74) .. | 1.2 | 2.3 | 0.9 | 0.6 | 1.9 | 1.6 | 0.9 | 0.6 | 0.9 | 1.7 | 1.5 | 1.2 |
| Exposure to smoke & fire (X00-X09) .. | 0.9 | 2.3 | 1.4 | 1.2 | 0.2 | – | 1.1 | 0.8 | 0.7 | 0.2 | 2.4 | 5.9 |
| Poisoning (X40-X49)[37] ..... | 10.9 | – | – | – | 8.1 | 16.9 | 16.9 | 17.7 | 17.4 | 6.4 | 1.9 | 7.1 |
| Suicide (X60-X84, Y87.0) ..... | 19.9 | – | – | 2.0 | 18.7 | 22.1 | 24.1 | 28.9 | 23.6 | 24.2 | 26.8 | 36.5 |
| Poisoning (X60-X69) ..... | 3.1 | – | – | 0.2 | 1.5 | 3.2 | 4.0 | 5.4 | 4.9 | 3.8 | 4.4 | 2.4 |
| Hanging/suffocation (X70) ..... | 4.3 | – | – | 1.4 | 6.0 | 7.7 | 6.4 | 4.8 | 3.9 | 3.3 | 0.5 | 3.5 |
| Firearm discharge (X72-X74) ..... | 10.6 | – | – | 0.4 | 9.3 | 9.5 | 10.9 | 15.0 | 12.2 | 15.7 | 21.4 | 28.2 |
| Homicide (X85-Y09, Y87.1) ..... | 3.1 | 6.9 | 0.9 | 1.4 | 2.1 | 5.0 | 4.6 | 4.2 | 2.6 | 2.6 | 1.9 | 1.2 |
| Firearm discharge (X93-X95) ..... | 1.8 | – | – | 1.2 | 1.5 | 3.2 | 3.3 | 2.5 | 0.7 | 0.7 | 1.5 | 1.2 |
| Legal intervention (Y35, Y89.0)[38] ..... | 0.3 | – | – | – | 0.6 | 0.5 | 0.6 | 0.2 | – | 0.2 | – | – |
| Undeterm. intent (Y10-Y34, Y87.2, Y89.9) | 1.4 | 2.3 | 0.5 | 0.2 | 1.7 | 1.3 | 1.1 | 1.5 | 3.6 | 1.2 | 1.5 | – |
| Medical care complica'ns (Y40-Y84, Y88) .. | 1.6 | – | – | – | – | – | 0.2 | 0.2 | 2.1 | 3.3 | 7.3 | 29.4 |
| *Injury by firearms (Many codes)*[39] ..... | 12.8 | – | – | 1.6 | 11.4 | 13.5 | 14.7 | 17.9 | 12.9 | 17.1 | 23.4 | 29.4 |
| *Alcohol-induced deaths (Many codes)*[40,41] | 21.2 | – | – | – | 0.2 | 5.2 | 13.6 | 37.3 | 58.0 | 51.0 | 20.9 | 14.1 |
| *Drug-induced deaths (Many codes)*[42,43] ..... | 16.2 | 2.3 | 0.5 | 0.2 | 10.0 | 21.4 | 20.8 | 26.6 | 26.8 | 16.4 | 10.2 | 15.3 |
| *Injury at work*[44] ..... | 1.5 | – | – | – | 0.2 | 1.8 | 1.8 | 2.3 | 3.6 | 1.9 | – | 1.2 |

– Quantity is zero.
1 International Statistical Classification of Diseases and Related Health Problems, Tenth Revision. Geneva: World Health Organization, 1992.
2 Rates per 100,000 population.
3 Human immunodeficiency virus/ acquired immune deficiency syndrome.
4 Includes uterus, part unspecified.
5 Includes meninges and other parts of the central nervous system.
6 Includes immunoproliferative neoplasms.
7 Includes in situ neoplasms, benign neoplasms, and neoplasms of uncertain or unknown behavior.
8 Includes diseases of the blood forming-organs and disorders involving the immune mechanism.
9 Includes metabolic diseases.
10 Includes behavioral disorders.
11 In 2005, the National Center for Health Statistics changed the ICD-10 codes to which certain brain disorders were coded. In prior years, "multi-infarct dementia" was coded to I63.9 (cerebral infarction, unspecified) and "vascular dementia" as I67.9 (cerebrovascular disease, unspecified). Beginning in 2005, "multi-infarct dementia" is assigned to code F01.1 and "vascular dementia" to F01.9. Therefore, certain deaths formerly attributed to the cerebrovascular disease rubric are now counted as forms of organic dementia.
12 For all deaths due to alcohol, see "Alcohol-induced deaths" at the end of the table.
13 Includes acute rheumatic fever.
14 The ICD-10 code is I25.0.

15 Includes angina, arteriosclerotic heart disease, coronary heart disease, and related disorders. The ICD-10 codes are I20, I25.1-I25.9.
16 Hypertension with/without renal disease.
17 Includes other intracranial hemorrhages.
18 Includes diseases of the arterioles and capillaries.
19 Includes acute bronchiolitis.
20 Formerly chronic obstructive pulmonary disease (COPD).
21 Includes respiratory conditions due to inhalation of chemicals, gases, fumes, and vapors.
22 Includes liver cirrhosis.
23 For all deaths due to alcohol, see "Alcohol-induced deaths" at the end of the table.
24 Includes other diseases of the gallbladder.
25 Includes subcutaneous tissues.
26 Includes connective tissue.
27 Includes nephrotic syndrome and nephrosis.
28 Includes acute and rapidly progressive nephritic and nephrotic syndrome.
29 Includes chronic glomerulonephritis, nephritis and nephritis not specified as acute or chronic, and renal sclerosis unspecified.
30 Inflammatory diseases of female pelvic organs.
31 Includes the puerperium.
32 Includes congenital deformations and chromosomal abnormalities.
33 Includes abnormal clinical and laboratory findings not elsewhere classified.
34 Includes the following ICD-10 codes: V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2.
35 Includes the following ICD-10 codes: V02-V04(.1,.9), V09.2, V12-V14(.3-.9), V19(.4-.6), V20-V28(.3-.9), V29(.4-.9), V30-V39(.4-.9), V40-V49(.4-.9), V50-V59(.4-.9), V60-V69(.4-.9), V70-V79(.4-.9), V80(.3-.5), V81.1, V82.1, V83-V86(.0-.3), V87(.0-.8), V89.2.
36 Includes the following ICD-10 codes: V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9.
37 Includes exposure to noxious substances.
38 Legal intervention is the intentional or unintentional death of a person resulting from the actions of a law enforcement agent. This category may not include all such deaths if the certifying medical examiner failed to note (on the death certificate) the involvement of a law enforcement agent.
39 Includes accidental, suicidal, homicidal, and undetermined intent gunshot deaths (ICD-10 codes W32-W34, X72-X74, X93-X95, Y22-Y24, and Y35.0). Note that injuries included here are also included in other cause of death categories.
40 Includes: alcoholic mental/behavioral disorders, degeneration of nervous system, polyneuropathy, alcoholic myopathy, cardiomyopathy, gastritis, liver disease, chronic pancreatitis, alcohol in the blood, accidental poisoning by alcohol, intentional self-poisoning, and poisoning of undetermined intent. Note that disorders included here are also included in other cause of death categories.
41 The ICD-10 codes for the above categories are E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15.
42 Includes a variety of conditions affecting multiple organ systems, such as poisonings/overdoses and mental/behavioral disorders due to substance use/abuse. Other causes, such as drug-induced hypoglycemia and drug-induced Parkinsonism, are also included here. Note that disorders included here are also included in other cause of death categories.
43 The ICD-10 codes for the above categories are: D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1-F11.5, F11.7-F11.9, F12.1-F12.5, F12.7-F12.9, F13.1-F13.5, F13.7-F13.9, F14.1-F14.5, F14.7-F14.9, F15.1-F15.5, F15.7-F15.9, F16.1-F16.5, F16.7-F16.9, F18.1-F18.5, F18.7-F18.9, F19.1-F19.5, F19.7-F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, K85.3, L10.5, L27.0-L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1-R78.5, X40-X44, X60-X64, X85, Y10-Y14.
44 Recorded as a separate item on the death certificate by the Medical Examiner.

## TABLE 6-7m. Male death rates for selected causes by age, Oregon residents, 2017

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| **Total** | 915.0 | 596.9 | 27.6 | 15.6 | 92.4 | 140.9 | 191.8 | 419.3 | 1,088.4 | 2,086.7 | 4,956.7 | 15,703.7 |
| **Infections & parasitic disease (A00-B99)** | 17.9 | 22.3 | 1.8 | 0.4 | 0.4 | 1.4 | 3.7 | 15.5 | 32.1 | 44.9 | 75.4 | 203.4 |
| Tuberculosis (A16-A19) | 0.2 | – | – | – | – | – | – | 0.4 | 0.4 | 1.5 | – | – |
| Septicemia (A40-A41) | 6.0 | 8.9 | – | 0.4 | 0.4 | 0.7 | 0.7 | 2.3 | 7.7 | 16.5 | 29.5 | 93.4 |
| Creutzfeldt-Jacob disease (A81.0) | 0.3 | – | – | – | – | – | – | – | 0.4 | 1.5 | 1.1 | 3.3 |
| Viral hepatitis (B15-B19) | 4.4 | – | – | – | – | – | 0.4 | 6.2 | 15.1 | 13.0 | 6.6 | 3.3 |
| HIV/AIDS (B20-B24)[3] | 1.7 | – | – | – | – | – | 2.2 | 5.4 | 3.1 | 2.5 | 1.1 | – |
| **Malignant neoplasms (C00-C97)** | 205.3 | – | 2.8 | 2.7 | 2.3 | 7.2 | 19.5 | 78.1 | 308.4 | 643.5 | 1,287.5 | 2,127.2 |
| Lip, oral cavity & pharynx (C00-C14) | 5.5 | – | – | – | – | – | 0.7 | 3.5 | 11.6 | 21.5 | 20.8 | 30.0 |
| Digestive organs (C15-26) | 61.3 | – | – | 0.8 | – | 0.7 | 6.6 | 30.9 | 116.5 | 202.0 | 333.4 | 460.1 |
| Esophagus (C15) | 10.2 | – | – | – | – | – | 0.7 | 7.0 | 19.0 | 35.9 | 54.6 | 60.0 |
| Stomach (C16) | 2.9 | – | – | – | – | – | 1.5 | 1.2 | 2.7 | 11.0 | 14.2 | 36.7 |
| Colon, rectum & anus (C18-C21) | 16.4 | – | – | – | – | 0.7 | 2.2 | 9.7 | 30.2 | 39.9 | 111.5 | 136.7 |
| Colon (C18) | 10.4 | – | – | – | – | 0.7 | 1.5 | 5.0 | 18.2 | 24.9 | 75.4 | 93.4 |
| Rectosigmoid junction (C19) | 1.5 | – | – | – | – | – | 0.7 | 1.2 | 3.5 | 2.0 | 8.7 | 16.7 |
| Rectum (C20) | 3.8 | – | – | – | – | – | – | 3.1 | 6.6 | 11.0 | 25.1 | 26.7 |
| Liver & intrahepatic bile ducts (C22) | 12.8 | – | – | 0.8 | – | – | 0.7 | 3.5 | 32.9 | 53.4 | 47.0 | 46.7 |
| Pancreas (C25) | 16.0 | – | – | – | – | – | 1.1 | 7.3 | 26.7 | 54.9 | 91.8 | 136.7 |
| Respiratory, intrathoracic org'ns (C30-C39) | 46.7 | – | – | – | – | – | 2.2 | 12.8 | 69.3 | 171.6 | 312.6 | 353.4 |
| Larynx (C32) | 1.2 | – | – | – | – | – | – | 0.4 | 1.9 | 5.0 | 6.6 | 6.7 |
| Trachea, bronchus & lung (C33-C34) | 45.1 | – | – | – | – | – | 1.8 | 12.4 | 66.2 | 165.6 | 303.9 | 346.7 |
| Bronchus & lung (C34) | 45.1 | – | – | – | – | – | 1.8 | 12.4 | 66.2 | 165.6 | 303.9 | 346.7 |
| Skin (C43-C44) | 6.7 | – | – | – | – | 1.1 | 2.2 | 1.9 | 10.1 | 19.0 | 40.4 | 70.0 |
| Melanoma of skin (C43) | 4.5 | – | – | – | – | 0.7 | 1.8 | 1.5 | 7.0 | 14.0 | 26.2 | 33.3 |
| Mesothelioma (C45) | 1.5 | – | – | – | – | – | – | – | 0.4 | 4.5 | 18.6 | 10.0 |
| Breast (C50) | 0.5 | – | – | – | – | – | – | – | 0.4 | 1.5 | 4.4 | 6.7 |
| Female genital organs (C51-58) | – | – | – | – | – | – | – | – | – | – | – | – |
| Cervix uteri (C53) | – | – | – | – | – | – | – | – | – | – | – | – |
| Corpus uteri (C54-C55)[4] | – | – | – | – | – | – | – | – | – | – | – | – |
| Ovary (C56) | – | – | – | – | – | – | – | – | – | – | – | – |
| Male genital organs (C60-C63) | 22.3 | – | – | – | 1.1 | 0.7 | 0.4 | 2.7 | 13.2 | 60.4 | 165.0 | 453.4 |
| Prostate (C61) | 21.6 | – | – | – | – | – | – | 2.3 | 12.4 | 58.9 | 165.0 | 446.8 |
| Kidney & renal pelvis (C64-C65) | 6.4 | – | – | – | – | 0.4 | 0.4 | 3.5 | 8.5 | 23.4 | 37.2 | 56.7 |
| Bladder (C67) | 8.5 | – | – | – | – | – | 0.4 | 0.8 | 8.9 | 19.5 | 52.5 | 200.0 |
| Brain, etc. (C70-C72)[5] | 6.9 | – | 0.9 | 0.4 | 0.4 | 2.1 | 2.2 | 5.4 | 17.4 | 20.0 | 24.0 | 13.3 |

See footnotes at end of table.

## TABLE 6-7m. Male death rates for selected causes by age, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Thyroid/endocrine gland (C73-C75) | 1.0 | – | – | – | – | – | – | 0.8 | 1.9 | 4.0 | 4.4 | 6.7 |
| Lymphoid & hematopoietic (C81-C96) | 21.9 | – | 0.9 | 0.4 | – | 1.1 | 2.6 | 8.1 | 25.9 | 54.4 | 168.3 | 280.1 |
| Hodgkin's disease (C81) | 0.1 | – | – | – | – | – | – | – | – | 1.0 | 1.1 | – |
| Non-Hodgkin's lymphoma (C82-C85) | 7.3 | – | – | – | – | – | 0.7 | 3.1 | 10.1 | 20.0 | 52.5 | 83.4 |
| Leukemia (C91-C95) | 9.4 | – | 0.9 | 0.4 | – | 1.1 | 1.8 | 3.1 | 10.4 | 20.0 | 75.4 | 130.0 |
| Lymphoid leukemia (C91) | 2.6 | – | 0.9 | – | – | 0.4 | 0.7 | – | 2.7 | 4.0 | 18.6 | 56.7 |
| Myeloid leukemia (C92) | 5.5 | – | – | – | – | 0.7 | 0.7 | 2.3 | 6.2 | 13.5 | 49.2 | 46.7 |
| Multiple myeloma (C88, C90)[6] | 4.8 | – | – | – | – | – | – | 1.9 | 5.0 | 13.5 | 38.3 | 63.3 |
| **Neopla. not specif. as malig. (D00-D48)**[7] | 5.9 | – | – | 0.4 | – | 0.4 | 0.7 | – | 3.1 | 15.5 | 44.8 | 123.4 |
| Myelodysplastic syndromes (D46) | 2.7 | – | – | – | – | – | – | – | 0.4 | 6.0 | 24.0 | 66.7 |
| **Diseases of the blood (D50-89)**[8] | 3.4 | 4.5 | 0.9 | 0.4 | 0.4 | 0.7 | 0.7 | 1.2 | 4.3 | 7.5 | 16.4 | 56.7 |
| Anemias (D50-D64) | 1.5 | 4.5 | – | – | 0.4 | 0.4 | 0.4 | – | 1.2 | 2.5 | 5.5 | 43.3 |
| **Endocrine & nutritional dis. (E00-E88)**[9] | 49.8 | 4.5 | 0.9 | – | 0.8 | 3.2 | 9.2 | 30.6 | 81.2 | 129.7 | 256.9 | 650.2 |
| Diabetes mellitus (E10-E14) | 34.6 | – | – | – | 0.4 | 1.8 | 5.5 | 19.0 | 58.0 | 93.8 | 182.5 | 440.1 |
| Nutritional deficiencies (E40-E64) | 1.9 | – | – | – | – | – | – | 0.4 | 0.8 | 1.5 | 14.2 | 63.3 |
| Malnutrition (E40-E46) | 1.9 | – | – | – | – | – | – | 0.4 | 0.8 | 1.5 | 14.2 | 63.3 |
| **Mental disorders (F01-F99)**[10] | 53.4 | 4.5 | – | – | 0.8 | 5.7 | 5.5 | 29.0 | 47.2 | 80.8 | 275.4 | 1,483.7 |
| Organic dementia (F01, F03)[11] | 35.7 | – | – | – | – | – | – | 0.4 | 3.5 | 34.9 | 247.0 | 1,413.7 |
| Due to alcohol (F10)[12] | 10.3 | – | – | – | – | 1.8 | 4.0 | 19.3 | 29.4 | 26.9 | 13.1 | 10.0 |
| Due to psychoactive substance (F11-F19) | 4.9 | – | – | – | 0.8 | 3.2 | 1.1 | 8.5 | 10.8 | 14.0 | 4.4 | 16.7 |
| **Nervous system dis. (G00-G99)** | 63.5 | – | 3.7 | 0.8 | 3.0 | 1.8 | 3.7 | 5.8 | 31.3 | 104.3 | 445.9 | 1,850.4 |
| Meningitis (G00, G03) | 0.1 | – | 0.9 | – | – | – | – | – | 0.4 | 0.5 | – | – |
| Amyotrophic lateral sclerosis (G12.2) | 2.7 | – | – | – | – | – | 1.5 | 0.8 | 4.6 | 13.0 | 9.8 | 6.7 |
| Parkinson's disease (G20-G21) | 14.9 | – | – | – | – | – | – | 0.4 | 2.7 | 22.9 | 143.2 | 400.1 |
| Alzheimer's disease (G30) | 27.9 | – | – | – | – | – | – | – | 3.1 | 18.5 | 178.2 | 1,203.6 |
| Multiple sclerosis (G35) | 1.6 | – | – | – | – | – | – | 0.4 | 2.3 | 9.0 | 5.5 | 6.7 |
| Epilepsy (G40-G41) | 0.6 | – | – | – | 0.4 | – | 0.4 | 1.9 | 0.8 | 1.0 | 1.1 | 3.3 |
| **Ear & mastoid process dis. (H60-H95)** | – | – | – | – | – | – | – | – | – | – | – | – |
| **Circulatory system diseases (I00-I99)** | 252.2 | – | – | 0.8 | 2.3 | 7.5 | 26.8 | 89.0 | 266.2 | 529.8 | 1,446.0 | 5,821.4 |
| Major cardiovascular disease (I00-I78) | 250.6 | – | – | 0.4 | 2.3 | 7.2 | 26.5 | 88.6 | 263.1 | 525.8 | 1,438.4 | 5,804.7 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 184.1 | – | – | – | 1.9 | 5.0 | 20.2 | 74.3 | 198.9 | 381.1 | 1,052.6 | 4,181.0 |
| Rheumatic heart disease (I00-I09)[13] | 0.9 | – | – | – | – | – | – | 0.4 | 1.2 | 1.5 | 2.2 | 33.3 |
| Hypertensive heart disease (I11) | 5.1 | – | – | – | – | – | 1.5 | 1.5 | 3.1 | 8.0 | 33.9 | 140.0 |
| Hypertensive heart & renal dis. (I13) | 2.0 | – | – | – | – | – | – | 0.4 | 1.5 | 1.5 | 13.1 | 66.7 |
| Ischemic heart disease (I20-I25) | 106.1 | – | – | – | 0.8 | 1.4 | 14.0 | 46.0 | 132.3 | 245.9 | 606.6 | 2,050.5 |
| Myocardial infarction (I21-I22) | 31.7 | – | – | – | 0.4 | 0.4 | 4.4 | 15.1 | 41.0 | 90.8 | 178.2 | 480.1 |

See footnotes at end of table.

## TABLE 6-7m. Male death rates for selected causes by age, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Other acute ischemic hrt. dis. (I24) .. | 0.7 | – | – | – | – | – | 0.4 | – | – | 2.5 | 7.7 | 6.7 |
| Chronic isch. heart dis. (I20, I25) .... | 73.7 | – | – | – | 0.4 | 1.1 | 9.2 | 30.9 | 91.3 | 152.6 | 420.8 | 1,563.7 |
| Atheroscler. cardiovascular dis.[14] | 4.6 | – | – | – | – | 0.4 | 0.7 | 3.9 | 12.4 | 10.5 | 17.5 | 40.0 |
| Other chr. ischemic heart dis.[15] ... | 69.1 | – | – | – | 0.4 | 0.7 | 8.5 | 27.1 | 78.9 | 142.2 | 403.3 | 1,523.7 |
| Nonrheumatic mitral valve dis. (I34) ... | 0.9 | – | – | – | – | – | – | 0.4 | 0.8 | 2.0 | 6.6 | 16.7 |
| Nonrheumatic aortic valve dis. (I35) ... | 10.3 | – | – | – | – | – | – | 0.8 | 3.9 | 11.5 | 59.0 | 403.4 |
| Cardiomyopathy (I42) ..... | 8.1 | – | – | – | 0.4 | 1.8 | 1.8 | 9.7 | 14.7 | 15.5 | 41.5 | 76.7 |
| Heart failure (I50) ..... | 23.0 | – | – | – | – | 0.7 | 0.7 | 3.9 | 12.8 | 43.4 | 129.0 | 726.8 |
| Congestive heart failure (I50.0) ..... | 16.8 | – | – | – | – | 0.4 | 0.4 | 3.5 | 10.1 | 28.4 | 90.7 | 556.8 |
| Left ventricular heart failure (I50.1) | 0.2 | – | – | – | – | – | – | – | – | 1.0 | 1.1 | 3.3 |
| Heart failure, unspecified (I50.9) ..... | 6.0 | – | – | – | – | 0.4 | 0.4 | 0.4 | 2.7 | 14.0 | 37.2 | 166.7 |
| HBP (I10, I12, I15)[16] ..... | 13.3 | – | – | – | – | – | 1.5 | 3.1 | 20.9 | 30.4 | 66.7 | 280.1 |
| Cerebrovascular disease (I60-I69)[11] ..... | 43.6 | – | – | 0.4 | – | 1.8 | 2.9 | 8.9 | 33.3 | 94.3 | 264.5 | 1,120.3 |
| Subarachnoid hemorrhage (I60) ..... | 0.9 | – | – | – | – | – | 0.4 | 2.3 | 1.9 | – | 2.2 | 16.7 |
| Intracerebral hemorrhage (I61-I62)[17] | 9.3 | – | – | 0.4 | – | 1.1 | 1.8 | 1.9 | 10.4 | 23.4 | 53.6 | 176.7 |
| Cerebral infarction (I63) ..... | 4.9 | – | – | – | – | – | – | 1.2 | 4.6 | 13.0 | 33.9 | 93.4 |
| Stroke (type not specified) (I64) ..... | 15.2 | – | – | – | – | 0.4 | 0.7 | 1.5 | 9.3 | 30.9 | 102.7 | 413.4 |
| Atherosclerosis (I70) ..... | 0.6 | – | – | – | – | – | – | – | – | 1.5 | 4.4 | 20.0 |
| Aortic aneurysm & dissection (I71) ..... | 5.4 | – | – | – | 0.4 | 0.4 | 0.7 | 2.3 | 6.2 | 9.5 | 33.9 | 113.4 |
| Diseases of arteries (I72-I78)[18] ..... | 3.6 | – | – | – | – | – | 1.1 | – | 3.9 | 9.0 | 16.4 | 90.0 |
| **Respiratory system diseases (J00-J99)** .. | 76.4 | 4.5 | 0.9 | – | 2.3 | 0.7 | 2.9 | 16.2 | 70.4 | 213.5 | 513.7 | 1,400.3 |
| Influenza & pneumonia (J09-J18) ..... | 13.8 | 4.5 | – | – | 0.8 | – | 1.5 | 5.8 | 13.5 | 26.4 | 72.1 | 353.4 |
| Influenza (J09-J11) ..... | 4.7 | – | – | – | – | – | 0.4 | 2.3 | 4.6 | 8.5 | 19.7 | 140.0 |
| Pneumonia (J12-J18) ..... | 9.1 | 4.5 | – | – | 0.8 | – | 1.1 | 3.5 | 8.9 | 18.0 | 52.5 | 213.4 |
| Other acute lower resp. infect'ns (J20-J22) | <0.05 | – | – | – | – | – | – | – | – | – | – | 3.3 |
| Acute bronchitis (J20-J21)[19] ..... | <0.05 | – | – | – | – | – | – | – | – | – | – | 3.3 |
| Chronic lower respiratory dis. (J40-J47)[20] .. | 46.5 | – | – | – | 0.8 | – | 0.7 | 7.3 | 41.8 | 154.6 | 322.4 | 710.2 |
| Bronchitis, chronic & unspec. (J40-J42) | 0.1 | – | – | – | – | – | – | – | 0.8 | – | – | 3.3 |
| Emphysema (J43) ..... | 2.6 | – | – | – | – | – | – | 0.8 | 3.5 | 8.0 | 16.4 | 40.0 |
| Asthma (J45-J46) ..... | 0.8 | – | – | – | 0.8 | – | 0.4 | 0.8 | 0.8 | 2.5 | 1.1 | 10.0 |
| Other CLRD (J44, J47) ..... | 42.9 | – | – | – | – | – | 0.4 | 5.8 | 36.8 | 144.2 | 304.9 | 656.8 |
| Bronchiectasis (J47) ..... | 0.2 | – | – | – | – | – | – | – | – | – | 2.2 | 10.0 |
| Pneumoconioses (J60-J66, J68)[21] ..... | 0.6 | – | – | – | – | – | – | – | – | 1.5 | 3.3 | 20.0 |
| Pneumonitis due to solids & liquids (J69) ... | 3.8 | – | 0.9 | – | – | 0.7 | – | 0.8 | 2.7 | 5.5 | 19.7 | 120.0 |
| **Digestive system diseases (K00-K92)** .... | 43.6 | 4.5 | – | – | 1.1 | 6.1 | 16.5 | 39.1 | 77.4 | 111.2 | 171.6 | 480.1 |
| Peptic ulcer (K25-K28) ..... | 1.7 | – | – | – | – | – | – | 0.4 | 2.3 | 4.5 | 10.9 | 30.0 |

See footnotes at end of table.

**TABLE 6-7m. Male death rates for selected causes by age, Oregon residents, 2017 — Continued**

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Diseases of the appendix (K35-K38) | 0.1 | – | – | – | – | – | – | – | – | 1.0 | 1.1 | – |
| Appendicitis (K35-K37) | 0.1 | – | – | – | – | – | – | – | – | 1.0 | 1.1 | – |
| Hernia (K40-K46) | 0.9 | – | – | – | – | – | – | – | 0.8 | 1.0 | 5.5 | 33.3 |
| Vascular disorders of the intestine (K55) | 2.0 | – | – | – | – | – | – | 0.8 | 2.3 | 5.5 | 10.9 | 40.0 |
| Chronic liver disease (K70, K73-K74)[22] | 20.0 | – | – | – | – | 4.6 | 13.2 | 29.4 | 49.9 | 56.9 | 33.9 | 30.0 |
| Alcoholic liver disease (K70)[23] | 17.8 | – | – | – | – | 4.3 | 12.5 | 26.3 | 48.4 | 48.4 | 23.0 | 20.0 |
| Cholelithiasis (K80-K82)[24] | 2.2 | – | – | – | – | – | – | – | 1.5 | 4.5 | 14.2 | 63.3 |
| **Diseases of the skin (L00-L98)**[25] | 1.8 | – | – | – | – | 0.7 | 0.4 | 0.4 | 2.3 | 3.0 | 7.7 | 46.7 |
| **Musculoskeletal disease (M00-M99)**[26] | 4.7 | – | – | – | – | – | 0.7 | 3.1 | 4.6 | 9.5 | 31.7 | 83.4 |
| **Genitourinary system dis. (N00-N99)** | 15.8 | – | – | – | – | 0.7 | 2.2 | 3.9 | 13.2 | 35.4 | 100.6 | 356.7 |
| Nephritis (N00-N07, N17-N19, N25-N27)[27] | 9.9 | – | – | – | – | 0.7 | 1.8 | 2.7 | 11.2 | 21.0 | 67.8 | 186.7 |
| Acute nephrotic syndrome[28] | 0.2 | – | – | – | – | – | – | – | – | – | 2.2 | 6.7 |
| Chronic nephritis[29] | 0.3 | – | – | – | – | 0.4 | – | – | – | 1.0 | 2.2 | 3.3 |
| Renal failure (N17-N19) | 9.4 | – | – | – | – | 0.4 | 1.8 | 2.7 | 10.8 | 20.0 | 63.4 | 176.7 |
| Kidney infect'ns (N10-N12, N13.6, N15.1) | 0.4 | – | – | – | – | – | – | 0.4 | – | 2.0 | – | 10.0 |
| Urinary tract infection (N39.0) | 2.6 | – | – | – | – | – | – | – | 0.4 | 5.5 | 15.3 | 90.0 |
| Hyperplasia of prostate (N40) | 1.1 | – | – | – | – | – | – | 0.4 | – | 1.0 | 6.6 | 43.3 |
| Female pelvic inflam. dis. (N70-N76)[30] | – | – | – | – | – | – | – | – | – | – | – | – |
| **Pregnancy & childbirth (O00-O99)**[31] | – | – | – | – | – | – | – | – | – | – | – | – |
| Pregnancy with abortive outcome (O00-O07) | – | – | – | – | – | – | – | – | – | – | – | – |
| **Perinatal conditions (P00-P96)** | 3.5 | 311.8 | – | – | – | – | – | – | – | 0.5 | – | – |
| **Congenital malformations (Q00-Q99)**[32] | 3.5 | 106.9 | 2.8 | 0.4 | – | 2.5 | 1.8 | 3.1 | 3.9 | 1.5 | 5.5 | 20.0 |
| Malformation of the heart (Q20-Q24) | 1.1 | 40.1 | – | – | – | 1.1 | 0.7 | 0.8 | 1.2 | – | 1.1 | 10.0 |
| Other malf. of the circul. sys. (Q25-Q28) | 0.1 | 4.5 | – | – | – | 0.4 | – | – | – | – | – | 3.3 |
| Malf. of the respiratory system (Q30-Q34) | <0.05 | – | – | – | – | – | – | – | – | 0.5 | – | – |
| **Symptoms & signs (R00-R99)**[33] | 12.9 | 80.2 | – | – | 1.1 | 1.8 | 2.9 | 5.4 | 20.9 | 29.4 | 50.3 | 186.7 |
| Senility (R54) | 0.4 | – | – | – | – | – | – | – | – | – | 1.1 | 23.3 |
| Sudden infant death syndrome (R95) | 0.8 | 75.7 | – | – | – | – | – | – | – | – | – | – |
| **External causes of death (V01-Y89)** | 101.5 | 53.5 | 13.8 | 9.7 | 78.0 | 100.5 | 94.5 | 99.0 | 121.9 | 126.7 | 227.3 | 813.5 |
| Accidents (V01-X59, Y85-Y86) | 62.1 | 44.5 | 11.0 | 6.6 | 40.5 | 54.0 | 47.8 | 51.8 | 75.1 | 75.8 | 170.5 | 683.5 |
| Transport accidents (V01-V99, Y85) | 19.4 | – | 8.3 | 4.3 | 22.7 | 21.1 | 17.3 | 20.1 | 26.7 | 21.5 | 36.1 | 43.3 |
| Motor vehicle acc. (Many codes)[34] | 17.6 | – | 8.3 | 3.9 | 22.4 | 20.4 | 15.4 | 17.4 | 24.0 | 18.5 | 31.7 | 33.3 |
| Motor veh. traf. (Many codes)[35] | 16.4 | – | 3.7 | 3.5 | 22.4 | 20.0 | 14.7 | 15.1 | 21.7 | 17.5 | 28.4 | 33.3 |
| Other land trans. acc. (Many codes)[36] | 0.7 | – | – | 0.4 | 0.4 | – | 1.5 | 1.2 | 0.8 | 0.5 | 1.1 | 3.3 |
| Water transport accidents (V90-V94) | 0.2 | – | – | – | – | 0.7 | – | 0.4 | – | 0.5 | 1.1 | – |

See footnotes at end of table.

## TABLE 6-7m. Male death rates for selected causes by age, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Air transport accidents (V95-V97) | 0.1 | – | – | – | – | – | – | 0.4 | – | 0.5 | 1.1 | – |
| Nontransport accidents (W00-X59,Y86) | 42.7 | 44.5 | 2.8 | 2.3 | 17.8 | 32.9 | 30.5 | 31.7 | 48.4 | 54.4 | 134.4 | 640.1 |
| Falls (W00-W19) | 17.7 | – | – | – | 1.9 | 2.5 | 2.9 | 3.1 | 12.0 | 24.4 | 101.6 | 533.5 |
| Firearms (W32-W34) | 0.2 | – | – | – | – | 0.4 | – | – | – | 1.0 | 1.1 | – |
| Drowning & submersion (W65-W74) | 1.9 | 4.5 | 0.9 | 1.2 | 3.4 | 2.1 | 1.5 | 0.8 | 1.5 | 3.0 | 3.3 | – |
| Exposure to smoke & fire (X00-X09) | 1.0 | 4.5 | – | 1.2 | – | – | 1.1 | 0.8 | 0.8 | – | 4.4 | 16.7 |
| Poisoning (X40-X49)[37] | 14.8 | – | – | – | 12.1 | 25.4 | 20.9 | 21.3 | 24.4 | 9.0 | 2.2 | 13.3 |
| Suicide (X60-X84, Y87.0) | 30.8 | – | – | 1.9 | 30.3 | 35.4 | 36.4 | 38.7 | 36.4 | 42.4 | 45.9 | 83.4 |
| Poisoning (X60-X69) | 3.3 | – | – | – | 1.9 | 3.6 | 4.8 | 5.0 | 4.3 | 5.0 | 3.3 | 6.7 |
| Hanging/suffocation (X70) | 6.6 | – | – | 1.6 | 9.1 | 12.2 | 9.2 | 6.6 | 6.6 | 5.0 | – | 10.0 |
| Firearm discharge (X72-X74) | 18.2 | – | – | 0.4 | 16.3 | 17.2 | 18.4 | 22.0 | 21.3 | 29.9 | 42.6 | 63.3 |
| Homicide (X85-Y09, Y87.1) | 4.7 | 4.5 | 1.8 | 1.2 | 3.8 | 8.2 | 7.4 | 7.3 | 3.9 | 3.5 | 1.1 | 3.3 |
| Firearm discharge (X93-X95) | 2.8 | – | – | 0.8 | 2.7 | 5.7 | 5.9 | 4.3 | 0.8 | 1.5 | – | 3.3 |
| Legal intervention (Y35, Y89.0)[38] | 0.5 | – | – | – | 1.1 | 1.1 | 1.1 | 0.4 | – | 0.5 | – | – |
| Undeterm. intent (Y10-Y34, Y87.2, Y89.9) | 1.6 | 4.5 | 0.9 | – | 2.3 | 1.8 | 1.5 | 0.4 | 3.9 | 1.0 | 2.2 | – |
| Medical care complica'ns (Y40-Y84, Y88) | 1.8 | – | – | – | – | – | 0.4 | 0.4 | 2.7 | 3.5 | 7.7 | 43.3 |
| *Injury by firearms (Many codes)*[39] | 21.8 | – | – | 1.2 | 20.1 | 24.3 | 25.4 | 26.7 | 22.1 | 32.9 | 43.7 | 66.7 |
| *Alcohol-induced deaths (Many codes)*[40,41] | 30.5 | – | – | – | – | 7.2 | 18.7 | 49.9 | 83.2 | 81.3 | 38.3 | 30.0 |
| *Drug-induced deaths (Many codes)*[42,43] | 20.5 | – | 0.9 | – | 14.4 | 30.0 | 23.2 | 30.6 | 34.4 | 23.9 | 8.7 | 26.7 |
| *Injury at work*[44] | 2.8 | – | – | – | 0.4 | 3.6 | 3.3 | 4.6 | 6.6 | 4.0 | – | 3.3 |

– Quantity is zero.

1 International Statistical Classification of Diseases and Related Health Problems, Tenth Revision. Geneva: World Health Organization, 1992.

2 Rates per 100,000 population.

3 Human immunodeficiency virus/ acquired immune deficiency syndrome.

4 Includes uterus, part unspecified.

5 Includes meninges and other parts of the central nervous system.

6 Includes immunoproliferative neoplasms.

7 Includes in situ neoplasms, benign neoplasms, and neoplasms of uncertain or unknown behavior.

8 Includes diseases of the blood forming-organs and disorders involving the immune mechanism.

9 Includes metabolic diseases.

10 Includes behavioral disorders.

11 In 2005, the National Center for Health Statistics changed the ICD-10 codes to which certain brain disorders were coded. In prior years, "multi-infarct dementia" was coded to I63.9 (cerebral infarction, unspecified) and "vascular dementia" as I67.9 (cerebrovascular disease, unspecified). Beginning in 2005, "multi-infarct dementia" is assigned to code F01.1 and "vascular dementia" to F01.9. Therefore, certain deaths formerly attributed to the cerebrovascular disease rubric are now counted as forms of organic dementia.

12 For all deaths due to alcohol, see "Alcohol-induced deaths" at the end of the table.

13 Includes acute rheumatic fever.

14 The ICD-10 code is I25.0.

[15] Includes angina, arteriosclerotic heart disease, coronary heart disease, and related disorders. The ICD-10 codes are I20, I25.1-I25.9.
[16] Hypertension with/without renal disease.
[17] Includes other intracranial hemorrhages.
[18] Includes diseases of the arterioles and capillaries.
[19] Includes acute bronchiolitis.
[20] Formerly chronic obstructive pulmonary disease (COPD).
[21] Includes respiratory conditions due to inhalation of chemicals, gases, fumes, and vapors.
[22] Includes liver cirrhosis.
[23] For all deaths due to alcohol, see "Alcohol-induced deaths" at the end of the table.
[24] Includes other diseases of the gallbladder.
[25] Includes subcutaneous tissues.
[26] Includes connective tissue.
[27] Includes nephrotic syndrome and nephrosis.
[28] Includes acute and rapidly progressive nephritic and nephrotic syndrome.
[29] Includes chronic glomerulonephritis, nephritis and nephritis not specified as acute or chronic, and renal sclerosis unspecified.
[30] Inflammatory diseases of female pelvic organs.
[31] Includes the puerperium.
[32] Includes congenital deformations and chromosomal abnormalities.
[33] Includes abnormal clinical and laboratory findings not elsewhere classified.
[34] Includes the following ICD-10 codes: V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2.
[35] Includes the following ICD-10 codes: V02-V04(.1,.9), V09.2, V12-V14(.3-.9), V19(.4-.6), V20-V28(.3-.9), V29(.4-.9), V30-V39(.4-.9), V40-V49(.4-.9), V50-V59(.4-.9), V60-V69(.4-.9), V70-V79(.4-.9), V80(.3-.5), V81.1, V82.1, V83-V86(.0-.3), V87(.0-.8), V89.2.
[36] Includes the following ICD-10 codes: V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9.
[37] Includes exposure to noxious substances.
[38] Legal intervention is the intentional or unintentional death of a person resulting from the actions of a law enforcement agent. This category may not include all such deaths if the certifying medical examiner failed to note (on the death certificate) the involvement of a law enforcement agent.
[39] Includes accidental, suicidal, homicidal, and undetermined intent gunshot deaths (ICD-10 codes W32-W34, X72-X74, X93-X95, Y22-Y24, and Y35.0). Note that injuries included here are also included in other cause of death categories.
[40] Includes: alcoholic mental/behavioral disorders, degeneration of nervous system, polyneuropathy, alcoholic myopathy, cardiomyopathy, gastritis, liver disease, chronic pancreatitis, alcohol in the blood, accidental poisoning by alcohol, intentional self-poisoning, and poisoning of undetermined intent. Note that disorders included here are also included in other cause of death categories.
[41] The ICD-10 codes for the above categories are E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15.
[42] Includes a variety of conditions affecting multiple organ systems, such as poisonings/overdoses and mental/behavioral disorders due to substance use/abuse. Other causes, such as drug-induced hypoglycemia and drug-induced Parkinsonism, are also included here. Note that disorders included here are also included in other cause of death categories.
[43] The ICD-10 codes for the above categories are: D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1-F11.5, F11.7-F11.9, F12.1-F12.5, F12.7-F12.9, F13.1-F13.5, F13.7-F13.9, F14.1-F14.5, F14.7-F14.9, F15.1-F15.5, F15.7-F15.9, F16.1-F16.5, F16.7-F16.9, F18.1-F18.5, F18.7-F18.9, F19.1-F19.5, F19.7-F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, K85.3, L10.5, L27.0-L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1-R78.5, X40-X44, X60-X64, X85, Y10-Y14.
[44] Recorded as a separate item on the death certificate by the Medical Examiner.

## TABLE 6-7f. Female death rates for selected causes by age, Oregon residents, 2017

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| **Total** | 855.2 | 481.6 | 19.4 | 14.3 | 38.1 | 56.8 | 125.0 | 277.2 | 651.0 | 1,353.8 | 3,645.7 | 13,698.3 |
| **Infections & parasitic disease (A00-B99)** | 15.7 | 18.9 | 1.0 | – | – | 0.7 | 3.7 | 8.0 | 19.6 | 32.6 | 59.7 | 176.2 |
| Tuberculosis (A16-A19) | <0.05 | – | – | – | – | – | – | – | – | – | – | 1.8 |
| Septicemia (A40-A41) | 5.7 | 4.7 | 1.0 | – | – | – | 1.8 | 3.1 | 6.9 | 10.4 | 26.4 | 60.0 |
| Creutzfeldt-Jacob disease (A81.0) | 0.2 | – | – | – | – | – | – | – | – | 1.8 | 0.9 | – |
| Viral hepatitis (B15-B19) | 2.4 | – | – | – | – | – | 0.4 | 3.4 | 6.9 | 6.8 | 1.8 | 7.3 |
| HIV/AIDS (B20-B24)[3] | 0.4 | – | – | – | – | – | 0.4 | 0.4 | 1.8 | – | – | 1.8 |
| **Malignant neoplasms (C00-C97)** | 185.4 | 4.7 | 1.9 | 2.4 | 3.9 | 6.2 | 30.6 | 86.9 | 239.2 | 484.9 | 939.1 | 1,351.8 |
| Lip, oral cavity & pharynx (C00-C14) | 1.6 | – | – | – | 0.4 | – | – | – | 2.5 | 5.4 | 7.0 | 9.1 |
| Digestive organs (C15-26) | 42.9 | – | – | – | – | 1.1 | 7.4 | 18.0 | 59.1 | 102.3 | 231.0 | 323.4 |
| Esophagus (C15) | 1.9 | – | – | – | – | – | 0.7 | 0.8 | 2.9 | 7.2 | 7.9 | 5.5 |
| Stomach (C16) | 1.8 | – | – | – | – | – | 0.7 | 1.1 | 2.2 | 5.0 | 9.7 | 7.3 |
| Colon, rectum & anus (C18-C21) | 15.9 | – | – | – | – | 0.7 | 3.7 | 7.7 | 20.3 | 30.3 | 79.1 | 159.9 |
| Colon (C18) | 10.7 | – | – | – | – | 0.7 | 1.8 | 5.4 | 10.9 | 20.8 | 58.9 | 109.0 |
| Rectosigmoid junction (C19) | 1.0 | – | – | – | – | – | 1.1 | 0.4 | 2.5 | 2.3 | 2.6 | 5.5 |
| Rectum (C20) | 3.1 | – | – | – | – | – | 0.7 | 1.1 | 5.1 | 5.9 | 11.4 | 36.3 |
| Liver & intrahepatic bile ducts (C22) | 5.6 | – | – | – | – | – | 0.7 | 3.1 | 11.6 | 16.3 | 21.1 | 27.3 |
| Pancreas (C25) | 15.0 | – | – | – | – | – | 1.5 | 4.6 | 18.5 | 38.5 | 98.4 | 90.8 |
| Respiratory, intrathoracic org'ns (C30-C39) | 45.6 | – | – | – | – | 0.4 | 1.1 | 13.4 | 56.2 | 143.5 | 270.6 | 250.7 |
| Larynx (C32) | 0.1 | – | – | – | – | – | – | – | – | 0.5 | 1.8 | – |
| Trachea, bronchus & lung (C33-C34) | 44.9 | – | – | – | – | – | 1.1 | 13.0 | 55.8 | 141.7 | 266.2 | 247.1 |
| Bronchus & lung (C34) | 44.9 | – | – | – | – | – | 1.1 | 13.0 | 55.8 | 141.7 | 266.2 | 247.1 |
| Skin (C43-C44) | 2.8 | – | – | – | 0.4 | 0.4 | 0.7 | – | 4.0 | 2.7 | 15.8 | 34.5 |
| Melanoma of skin (C43) | 2.0 | – | – | – | – | 0.4 | 0.7 | – | 2.9 | 1.8 | 12.3 | 23.6 |
| Mesothelioma (C45) | 0.5 | – | – | – | – | – | – | 0.4 | – | 0.9 | 5.3 | 3.6 |
| Breast (C50) | 24.1 | – | – | – | – | 0.4 | 9.2 | 21.8 | 39.5 | 58.4 | 87.0 | 156.3 |
| Female genital organs (C51-58) | 22.2 | – | – | – | – | 2.2 | 4.8 | 17.2 | 28.3 | 67.5 | 87.8 | 134.5 |
| Cervix uteri (C53) | 2.2 | – | – | – | – | 1.1 | 1.5 | 5.0 | 2.2 | 5.0 | 4.4 | 9.1 |
| Corpus uteri (C54-C55)[4] | 6.6 | – | – | – | – | – | 2.2 | 4.2 | 8.7 | 24.9 | 19.3 | 36.3 |
| Ovary (C56) | 11.4 | – | – | – | – | 1.1 | 1.1 | 7.3 | 15.9 | 31.7 | 54.5 | 69.0 |
| Male genital organs (C60-C63) | – | – | – | – | – | – | – | – | – | – | – | – |
| Prostate (C61) | – | – | – | – | – | – | – | – | – | – | – | – |
| Kidney & renal pelvis (C64-C65) | 2.8 | – | – | – | – | – | – | 2.3 | 1.8 | 5.9 | 16.7 | 29.1 |
| Bladder (C67) | 3.9 | – | – | – | – | – | – | 0.8 | 2.2 | 6.3 | 27.2 | 50.9 |
| Brain, etc. (C70-C72)[5] | 5.1 | – | – | 1.2 | 0.4 | 0.4 | 3.3 | 2.7 | 6.9 | 19.0 | 11.4 | 20.0 |

See footnotes at end of table.

**TABLE 6-7f. Female death rates for selected causes by age, Oregon residents, 2017 — Continued**

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Thyroid/endocrine gland (C73-C75) | 0.8 | 4.7 | 1.0 | – | – | – | – | – | 1.1 | 2.7 | 2.6 | 5.5 |
| Lymphoid & hematopoietic (C81-C96) | 17.5 | – | 1.0 | 0.4 | 1.6 | 0.4 | 1.1 | 5.0 | 17.0 | 37.1 | 98.4 | 187.2 |
| Hodgkin's disease (C81) | 0.3 | – | – | – | – | – | – | 0.4 | – | 0.5 | 2.6 | 1.8 |
| Non-Hodgkin's lymphoma (C82-C85) | 6.2 | – | – | – | – | – | – | 1.1 | 5.4 | 13.6 | 39.5 | 67.2 |
| Leukemia (C91-C95) | 7.3 | – | 1.0 | 0.4 | 1.6 | 0.4 | 1.1 | 3.4 | 6.9 | 14.9 | 34.3 | 78.1 |
| Lymphoid leukemia (C91) | 1.8 | – | – | 0.4 | 0.8 | 0.4 | – | – | 1.4 | 1.8 | 11.4 | 21.8 |
| Myeloid leukemia (C92) | 4.5 | – | 1.0 | – | 0.8 | – | 1.1 | 3.4 | 5.4 | 10.0 | 15.8 | 43.6 |
| Multiple myeloma (C88, C90)[6] | 3.6 | – | – | – | – | – | – | – | 4.7 | 8.1 | 20.2 | 38.2 |
| **Neopla. not specif. as malig. (D00-D48)**[7] | 4.9 | 4.7 | – | – | 0.8 | – | – | 0.4 | 2.9 | 12.2 | 25.5 | 63.6 |
| Myelodysplastic syndromes (D46) | 1.9 | – | – | – | – | – | – | – | 0.4 | 4.1 | 12.3 | 27.3 |
| **Diseases of the blood (D50-89)**[8] | 2.7 | 4.7 | 1.0 | 0.4 | – | 0.4 | – | 1.1 | 1.4 | 4.5 | 10.5 | 43.6 |
| Anemias (D50-D64) | 1.5 | – | 1.0 | – | – | – | – | – | 0.7 | 2.3 | 4.4 | 32.7 |
| **Endocrine & nutritional dis. (E00-E88)**[9] | 39.4 | – | – | 0.4 | 1.2 | 3.3 | 7.7 | 22.2 | 48.9 | 77.9 | 167.8 | 430.6 |
| Diabetes mellitus (E10-E14) | 25.5 | – | – | – | 0.8 | 1.1 | 4.8 | 16.5 | 34.1 | 51.2 | 112.4 | 254.4 |
| Nutritional deficiencies (E40-E64) | 2.9 | – | – | – | – | 0.7 | – | – | 0.4 | 4.1 | 7.9 | 70.9 |
| Malnutrition (E40-E46) | 2.9 | – | – | – | – | 0.7 | – | – | 0.4 | 4.1 | 7.9 | 70.9 |
| **Mental disorders (F01-F99)**[10] | 74.7 | – | – | – | 0.8 | 2.9 | 5.9 | 12.3 | 17.8 | 43.9 | 244.2 | 1,973.3 |
| Organic dementia (F01, F03)[11] | 67.1 | – | – | – | – | – | – | 0.4 | 4.0 | 28.5 | 227.5 | 1,951.4 |
| Due to alcohol (F10)[12] | 3.9 | – | – | – | – | 1.4 | 3.3 | 7.3 | 8.0 | 9.5 | 3.5 | 3.6 |
| Due to psychoactive substance (F11-F19) | 2.1 | – | – | – | 0.8 | 1.4 | 2.6 | 4.6 | 2.5 | 2.3 | 3.5 | 5.5 |
| **Nervous system dis. (G00-G99)** | 88.1 | 9.4 | 1.0 | 0.4 | 0.4 | 2.5 | 3.0 | 10.0 | 26.5 | 80.6 | 390.9 | 2,009.6 |
| Meningitis (G00, G03) | <0.05 | – | – | – | – | – | – | 0.4 | – | – | – | – |
| Amyotrophic lateral sclerosis (G12.2) | 2.2 | – | – | – | – | – | – | 0.8 | 5.8 | 5.4 | 13.2 | 3.6 |
| Parkinson's disease (G20-G21) | 7.6 | – | – | – | – | – | – | – | 1.8 | 10.0 | 53.6 | 130.8 |
| Alzheimer's disease (G30) | 61.0 | – | – | – | – | – | – | 1.1 | 4.3 | 35.3 | 246.9 | 1,648.0 |
| Multiple sclerosis (G35) | 2.1 | – | – | – | – | – | 0.4 | – | 4.0 | 5.4 | 14.1 | 9.1 |
| Epilepsy (G40-G41) | 1.0 | – | – | – | 0.4 | 0.7 | 0.4 | 1.1 | 1.1 | 1.8 | 3.5 | 7.3 |
| **Ear & mastoid process dis. (H60-H95)** | 0.1 | – | – | – | – | 0.4 | – | 0.4 | – | – | – | – |
| **Circulatory system diseases (I00-I99)** | 230.7 | – | 1.9 | 0.4 | 3.5 | 5.1 | 14.0 | 39.1 | 105.8 | 275.7 | 956.7 | 4,878.6 |
| Major cardiovascular disease (I00-I78) | 229.2 | – | 1.9 | 0.4 | 3.1 | 4.7 | 13.3 | 38.3 | 105.1 | 273.5 | 948.8 | 4,862.3 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 151.7 | – | 1.0 | 0.4 | 2.4 | 4.0 | 8.9 | 27.6 | 66.7 | 184.7 | 601.8 | 3,254.2 |
| Rheumatic heart disease (I00-I09)[13] | 3.2 | – | – | – | – | – | – | 0.8 | 1.8 | 6.3 | 14.9 | 54.5 |
| Hypertensive heart disease (I11) | 8.0 | – | – | – | – | 0.7 | – | 0.8 | 1.4 | 8.1 | 24.6 | 207.1 |
| Hypertensive heart & renal dis. (I13) | 2.2 | – | – | – | – | – | – | – | 0.7 | 2.3 | 8.8 | 54.5 |
| Ischemic heart disease (I20-I25) | 58.1 | – | – | – | – | 1.1 | 3.3 | 11.5 | 31.5 | 97.8 | 249.5 | 1,072.0 |
| Myocardial infarction (I21-I22) | 21.0 | – | – | – | – | 0.4 | 1.1 | 3.4 | 11.2 | 44.8 | 90.5 | 352.5 |

See footnotes at end of table.

## TABLE 6-7f. Female death rates for selected causes by age, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Other acute ischemic hrt. dis. (I24) .. | 0.5 | – | – | – | – | – | – | – | – | 0.9 | 1.8 | 12.7 |
| Chronic isch. heart dis. (I20, I25) .... | 36.6 | – | – | – | – | 0.7 | 2.2 | 8.0 | 20.3 | 52.1 | 157.2 | 706.8 |
| Atheroscler. cardiovascular dis.[14] | 2.1 | – | – | – | – | – | – | 1.1 | 2.9 | 1.8 | 13.2 | 25.4 |
| Other chr. ischemic heart dis.[15] ... | 34.5 | – | – | – | – | 0.7 | 2.2 | 6.9 | 17.4 | 50.3 | 144.1 | 681.4 |
| Nonrheumatic mitral valve dis. (I34) ... | 1.6 | – | – | – | – | – | – | 0.4 | 0.4 | 0.5 | 7.0 | 40.0 |
| Nonrheumatic aortic valve dis. (I35) ... | 12.3 | – | – | – | – | – | – | – | 1.8 | 5.9 | 46.6 | 341.6 |
| Cardiomyopathy (I42) ..... | 4.1 | – | – | – | 1.2 | – | 0.7 | 1.9 | 3.3 | 6.8 | 21.1 | 50.9 |
| Heart failure (I50) ..... | 26.9 | – | – | – | – | 0.4 | 0.7 | 3.4 | 6.9 | 25.8 | 97.5 | 663.2 |
| Congestive heart failure (I50.0) ..... | 20.0 | – | – | – | – | – | 0.4 | 2.7 | 5.1 | 16.8 | 72.0 | 506.9 |
| Left ventricular heart failure (I50.1) | 0.1 | – | – | – | – | – | – | – | – | 1.4 | – | – |
| Heart failure, unspecified (I50.9) ..... | 6.7 | – | – | – | – | 0.4 | 0.4 | 0.8 | 1.8 | 7.7 | 25.5 | 156.3 |
| HBP (I10, I12, I15)[16] ..... | 13.8 | – | – | – | – | – | 0.7 | 3.1 | 10.9 | 14.9 | 47.4 | 294.4 |
| Cerebrovascular disease (I60-I69)[11] ..... | 56.0 | – | 1.0 | – | 0.8 | 0.4 | 3.0 | 6.9 | 23.6 | 63.4 | 249.5 | 1,193.8 |
| Subarachnoid hemorrhage (I60) ..... | 1.9 | – | – | – | 0.4 | – | 0.7 | 1.1 | 4.7 | 4.1 | 7.0 | 7.3 |
| Intracerebral hemorrhage (I61-I62)[17] | 9.8 | – | – | – | – | 0.4 | 1.8 | 3.1 | 5.4 | 16.8 | 47.4 | 154.4 |
| Cerebral infarction (I63) ..... | 5.8 | – | – | – | – | – | – | 0.4 | 2.2 | 7.7 | 27.2 | 119.9 |
| Stroke (type not specified) (I64) ..... | 21.8 | – | 1.0 | – | – | – | – | 1.1 | 6.2 | 22.6 | 100.1 | 494.2 |
| Atherosclerosis (I70) ..... | 0.9 | – | – | – | – | – | – | – | 0.4 | 0.9 | 6.1 | 14.5 |
| Aortic aneurysm & dissection (I71) ..... | 3.3 | – | – | – | – | 0.4 | 0.4 | – | 2.2 | 2.7 | 25.5 | 47.2 |
| Diseases of arteries (I72-I78)[18] ..... | 3.6 | – | – | – | – | – | 0.4 | 0.8 | 1.4 | 6.8 | 18.4 | 58.1 |
| **Respiratory system diseases (J00-J99)** .. | 82.9 | – | 2.9 | – | 0.8 | 1.1 | 5.9 | 13.8 | 67.4 | 166.6 | 463.0 | 1,088.4 |
| Influenza & pneumonia (J09-J18) ..... | 13.9 | – | 1.0 | – | – | – | 1.5 | 2.7 | 10.1 | 11.8 | 56.2 | 292.5 |
| Influenza (J09-J11) ..... | 5.1 | – | – | – | – | – | 0.4 | 0.8 | 3.3 | 4.1 | 21.1 | 112.7 |
| Pneumonia (J12-J18) ..... | 8.8 | – | 1.0 | – | – | – | 1.1 | 1.9 | 6.9 | 7.7 | 35.1 | 179.9 |
| Other acute lower resp. infect'ns (J20-J22) | 0.2 | – | – | – | – | – | – | 0.4 | 0.4 | – | – | 5.5 |
| Acute bronchitis (J20-J21)[19] ..... | 0.1 | – | – | – | – | – | – | – | – | – | – | 3.6 |
| Chronic lower respiratory dis. (J40-J47)[20] .. | 54.3 | – | 1.0 | – | 0.4 | 1.1 | 2.2 | 8.8 | 46.8 | 127.2 | 320.6 | 599.6 |
| Bronchitis, chronic & unspec. (J40-J42) | 0.3 | – | – | – | – | – | – | 0.4 | – | – | 2.6 | 3.6 |
| Emphysema (J43) ..... | 4.3 | – | – | – | – | – | 0.4 | 0.8 | 4.7 | 12.2 | 21.1 | 41.8 |
| Asthma (J45-J46) ..... | 2.3 | – | 1.0 | – | 0.4 | 0.7 | 0.4 | 1.5 | 3.3 | 3.2 | 5.3 | 32.7 |
| Other CLRD (J44, J47) ..... | 47.4 | – | – | – | – | 0.4 | 1.5 | 6.1 | 38.8 | 111.8 | 291.7 | 521.5 |
| Bronchiectasis (J47) ..... | 0.7 | – | – | – | – | – | 0.4 | – | 0.4 | 1.4 | 3.5 | 9.1 |
| Pneumoconioses (J60-J66, J68)[21] ..... | <0.05 | – | – | – | – | – | – | – | – | 0.5 | – | – |
| Pneumonitis due to solids & liquids (J69) ... | 3.7 | – | 1.0 | – | 0.4 | – | – | 0.4 | 2.2 | 4.5 | 19.3 | 65.4 |
| **Digestive system diseases (K00-K92)** .... | 36.3 | 9.4 | – | 0.4 | 0.8 | 2.5 | 9.2 | 24.5 | 47.1 | 66.1 | 124.7 | 439.7 |
| Peptic ulcer (K25-K28) ..... | 1.6 | – | – | – | 0.4 | 0.4 | – | – | 1.1 | 2.7 | 7.9 | 23.6 |

See footnotes at end of table.

**TABLE 6-7f. Female death rates for selected causes by age, Oregon residents, 2017 — Continued**

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Diseases of the appendix (K35-K38) | 0.1 | – | – | – | – | – | – | – | – | – | 0.9 | 3.6 |
| Appendicitis (K35-K37) | 0.1 | – | – | – | – | – | – | – | – | – | 0.9 | 3.6 |
| Hernia (K40-K46) | 1.2 | – | – | – | – | – | – | – | 0.7 | 0.5 | 6.1 | 29.1 |
| Vascular disorders of the intestine (K55) | 3.6 | 4.7 | – | – | – | – | 0.4 | 1.1 | 1.8 | 10.0 | 17.6 | 43.6 |
| Chronic liver disease (K70, K73-K74)[22] | 11.1 | – | – | – | – | 1.8 | 5.5 | 17.6 | 30.1 | 24.9 | 18.4 | 16.4 |
| Alcoholic liver disease (K70)[23] | 7.6 | – | – | – | – | 1.4 | 5.2 | 14.6 | 25.4 | 13.1 | 2.6 | 1.8 |
| Cholelithiasis (K80-K82)[24] | 1.1 | – | – | – | – | – | – | – | 0.7 | 0.9 | 3.5 | 27.3 |
| **Diseases of the skin (L00-L98)**[25] | 2.5 | – | – | – | – | – | – | 1.1 | 3.3 | 2.7 | 6.1 | 49.1 |
| **Musculoskeletal disease (M00-M99)**[26] | 7.3 | – | – | – | – | 0.4 | 0.7 | 3.1 | 5.8 | 14.5 | 36.0 | 98.1 |
| **Genitourinary system dis. (N00-N99)** | 16.6 | – | – | – | 0.4 | 0.4 | 2.2 | 3.1 | 10.1 | 25.8 | 73.8 | 298.0 |
| Nephritis (N00-N07, N17-N19, N25-N27)[27] | 8.3 | – | – | – | – | 0.4 | 1.5 | 2.3 | 4.7 | 13.6 | 34.3 | 147.2 |
| Acute nephrotic syndrome[28] | 0.2 | – | – | – | – | – | – | – | 0.4 | – | – | 7.3 |
| Chronic nephritis[29] | 0.4 | – | – | – | – | – | 0.4 | 0.4 | – | – | 3.5 | 3.6 |
| Renal failure (N17-N19) | 7.7 | – | – | – | – | 0.4 | 1.1 | 1.9 | 4.3 | 13.6 | 30.7 | 136.3 |
| Kidney infect'ns (N10-N12, N13.6, N15.1) | 0.7 | – | – | – | 0.4 | – | 0.4 | – | 0.7 | 1.4 | 2.6 | 9.1 |
| Urinary tract infection (N39.0) | 5.2 | – | – | – | – | – | 0.4 | 0.4 | 4.0 | 6.8 | 23.7 | 99.9 |
| Hyperplasia of prostate (N40) | – | – | – | – | – | – | – | – | – | – | – | – |
| Female pelvic inflam. dis. (N70-N76)[30] | <0.05 | – | – | – | – | – | – | – | – | 0.5 | – | – |
| **Pregnancy & childbirth (O00-O99)**[31] | 0.6 | – | – | – | 1.6 | 1.4 | 1.1 | 0.4 | – | – | – | – |
| Pregnancy with abortive outcome (O00-O07) | – | – | – | – | – | – | – | – | – | – | – | – |
| **Perinatal conditions (P00-P96)** | 2.3 | 221.9 | 1.0 | – | – | – | – | – | – | – | 0.9 | – |
| **Congenital malformations (Q00-Q99)**[32] | 3.4 | 146.4 | 1.0 | 2.0 | 2.0 | – | 1.1 | 1.5 | 2.9 | 3.6 | 2.6 | 7.3 |
| Malformation of the heart (Q20-Q24) | 0.6 | 23.6 | 1.0 | 0.4 | 0.8 | – | 0.4 | – | – | 0.5 | – | 1.8 |
| Other malf. of the circul. sys. (Q25-Q28) | 0.2 | – | – | 0.4 | – | – | – | – | – | 0.5 | 0.9 | 3.6 |
| Malf. of the respiratory system (Q30-Q34) | 0.1 | 14.2 | – | – | – | – | – | – | – | – | – | – |
| **Symptoms & signs (R00-R99)**[33] | 9.8 | 23.6 | – | – | 0.4 | 1.1 | 0.7 | 2.7 | 6.9 | 14.0 | 34.3 | 178.1 |
| Senility (R54) | 0.9 | – | – | – | – | – | – | – | – | 0.5 | 2.6 | 25.4 |
| Sudden infant death syndrome (R95) | 0.2 | 18.9 | – | – | – | – | – | – | – | – | – | – |
| **External causes of death (V01-Y89)** | 51.9 | 37.8 | 7.7 | 7.7 | 21.6 | 28.6 | 39.1 | 46.7 | 45.3 | 48.0 | 109.8 | 612.3 |
| Accidents (V01-X59, Y85-Y86) | 38.4 | 28.3 | 7.7 | 3.7 | 13.4 | 17.7 | 24.7 | 23.7 | 27.5 | 34.0 | 87.8 | 579.6 |
| Transport accidents (V01-V99, Y85) | 7.5 | 4.7 | 2.9 | 1.6 | 7.5 | 6.9 | 8.9 | 4.6 | 11.2 | 9.1 | 14.1 | 14.5 |
| Motor vehicle acc. (Many codes)[34] | 7.0 | 4.7 | 2.9 | 1.6 | 7.5 | 6.9 | 8.5 | 4.2 | 9.8 | 8.1 | 12.3 | 14.5 |
| Motor veh. traf. (Many codes)[35] | 6.6 | 4.7 | 2.9 | 1.6 | 6.3 | 6.5 | 8.5 | 4.2 | 9.4 | 7.7 | 11.4 | 12.7 |
| Other land trans. acc. (Many codes)[36] | 0.1 | – | – | – | – | – | 0.4 | – | 0.4 | – | 0.9 | – |
| Water transport accidents (V90-V94) | <0.05 | – | – | – | – | – | – | 0.4 | – | – | – | – |

See footnotes at end of table.

## TABLE 6-7f. Female death rates for selected causes by age, Oregon residents, 2017 — Continued

| Causes of death (and their ICD-10 codes)[1] | Rate[2] | Age at death | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Air transport accidents (V95-V97) | <0.05 | – | – | – | – | – | – | – | 0.4 | – | – | – |
| Nontransport accidents (W00-X59,Y86) | 30.9 | 23.6 | 4.8 | 2.0 | 5.9 | 10.9 | 15.9 | 19.1 | 16.3 | 24.9 | 73.8 | 565.1 |
| Falls (W00-W19) | 19.2 | – | – | – | 0.8 | 1.1 | 0.7 | 1.9 | 2.5 | 15.4 | 58.9 | 514.2 |
| Firearms (W32-W34) | – | – | – | – | – | – | – | – | – | – | – | – |
| Drowning & submersion (W65-W74) | 0.5 | – | 1.0 | – | 0.4 | 1.1 | 0.4 | 0.4 | 0.4 | 0.5 | – | 1.8 |
| Exposure to smoke & fire (X00-X09) | 0.8 | – | 2.9 | 1.2 | 0.4 | – | 1.1 | 0.8 | 0.7 | 0.5 | 0.9 | – |
| Poisoning (X40-X49)[37] | 7.1 | – | – | – | 3.9 | 8.3 | 12.9 | 14.2 | 10.9 | 4.1 | 1.8 | 3.6 |
| Suicide (X60-X84, Y87.0) | 9.3 | – | – | 2.0 | 6.7 | 8.3 | 11.8 | 19.1 | 11.6 | 7.7 | 11.4 | 10.9 |
| Poisoning (X60-X69) | 3.0 | – | – | 0.4 | 1.2 | 2.5 | 3.3 | 5.7 | 5.4 | 2.7 | 5.3 | – |
| Hanging/suffocation (X70) | 2.2 | – | – | 1.2 | 2.8 | 3.3 | 3.7 | 3.1 | 1.4 | 1.8 | 0.9 | – |
| Firearm discharge (X72-X74) | 3.2 | – | – | 0.4 | 2.0 | 1.8 | 3.3 | 8.0 | 3.6 | 2.7 | 4.4 | 9.1 |
| Homicide (X85-Y09, Y87.1) | 1.5 | 9.4 | – | 1.6 | 0.4 | 1.8 | 1.8 | 1.1 | 1.4 | 1.8 | 2.6 | – |
| Firearm discharge (X93-X95) | 0.8 | – | – | 1.6 | 0.4 | 0.7 | 0.7 | 0.8 | 0.7 | – | 2.6 | – |
| Legal intervention (Y35, Y89.0)[38] | – | – | – | – | – | – | – | – | – | – | – | – |
| Undeterm. intent (Y10-Y34, Y87.2, Y89.9) | 1.3 | – | – | 0.4 | 1.2 | 0.7 | 0.7 | 2.7 | 3.3 | 1.4 | 0.9 | – |
| Medical care complica'ns (Y40-Y84, Y88) | 1.5 | – | – | – | – | – | – | – | 1.4 | 3.2 | 7.0 | 21.8 |
| *Injury by firearms (Many codes)*[39] | 4.0 | – | – | 2.0 | 2.4 | 2.5 | 4.1 | 9.2 | 4.3 | 2.7 | 7.0 | 9.1 |
| *Alcohol-induced deaths (Many codes)*[40,41] | 12.2 | – | – | – | 0.4 | 3.3 | 8.5 | 24.9 | 34.4 | 23.5 | 7.0 | 5.5 |
| *Drug-induced deaths (Many codes)*[42,43] | 12.0 | 4.7 | – | 0.4 | 5.5 | 12.3 | 18.4 | 22.6 | 19.6 | 9.5 | 11.4 | 9.1 |
| *Injury at work*[44] | 0.1 | – | – | – | – | – | 0.4 | – | 0.7 | – | – | – |

– Quantity is zero.
1 International Statistical Classification of Diseases and Related Health Problems, Tenth Revision. Geneva: World Health Organization, 1992.
2 Rates per 100,000 population.
3 Human immunodeficiency virus/ acquired immune deficiency syndrome.
4 Includes uterus, part unspecified.
5 Includes meninges and other parts of the central nervous system.
6 Includes immunoproliferative neoplasms.
7 Includes in situ neoplasms, benign neoplasms, and neoplasms of uncertain or unknown behavior.
8 Includes diseases of the blood forming-organs and disorders involving the immune mechanism.
9 Includes metabolic diseases.
10 Includes behavioral disorders.
11 In 2005, the National Center for Health Statistics changed the ICD-10 codes to which certain brain disorders were coded. In prior years, "multi-infarct dementia" was coded to I63.9 (cerebral infarction, unspecified) and "vascular dementia" as I67.9 (cerebrovascular disease, unspecified). Beginning in 2005, "multi-infarct dementia" is assigned to code F01.1 and "vascular dementia" to F01.9. Therefore, certain deaths formerly attributed to the cerebrovascular disease rubric are now counted as forms of organic dementia.
12 For all deaths due to alcohol, see "Alcohol-induced deaths" at the end of the table.
13 Includes acute rheumatic fever.
14 The ICD-10 code is I25.0.

[15] Includes angina, arteriosclerotic heart disease, coronary heart disease, and related disorders. The ICD-10 codes are I20, I25.1-I25.9.
[16] Hypertension with/without renal disease.
[17] Includes other intracranial hemorrhages.
[18] Includes diseases of the arterioles and capillaries.
[19] Includes acute bronchiolitis.
[20] Formerly chronic obstructive pulmonary disease (COPD).
[21] Includes respiratory conditions due to inhalation of chemicals, gases, fumes, and vapors.
[22] Includes liver cirrhosis.
[23] For all deaths due to alcohol, see "Alcohol-induced deaths" at the end of the table.
[24] Includes other diseases of the gallbladder.
[25] Includes subcutaneous tissues.
[26] Includes connective tissue.
[27] Includes nephrotic syndrome and nephrosis.
[28] Includes acute and rapidly progressive nephritic and nephrotic syndrome.
[29] Includes chronic glomerulonephritis, nephritis and nephritis not specified as acute or chronic, and renal sclerosis unspecified.
[30] Inflammatory diseases of female pelvic organs.
[31] Includes the puerperium.
[32] Includes congenital deformations and chromosomal abnormalities.
[33] Includes abnormal clinical and laboratory findings not elsewhere classified.
[34] Includes the following ICD-10 codes: V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2.
[35] Includes the following ICD-10 codes: V02-V04(.1,.9), V09.2, V12-V14(.3-.9), V19(.4-.6), V20-V28(.3-.9), V29(.4-.9), V30-V39(.4-.9), V40-V49(.4-.9), V50-V59(.4-.9), V60-V69(.4-.9), V70-V79(.4-.9), V80(.3-.5), V81.1, V82.1, V83-V86(.0-.3), V87(.0-.8), V89.2.
[36] Includes the following ICD-10 codes: V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9.
[37] Includes exposure to noxious substances.
[38] Legal intervention is the intentional or unintentional death of a person resulting from the actions of a law enforcement agent. This category may not include all such deaths if the certifying medical examiner failed to note (on the death certificate) the involvement of a law enforcement agent.
[39] Includes accidental, suicidal, homicidal, and undetermined intent gunshot deaths (ICD-10 codes W32-W34, X72-X74, X93-X95, Y22-Y24, and Y35.0). Note that injuries included here are also included in other cause of death categories.
[40] Includes: alcoholic mental/behavioral disorders, degeneration of nervous system, polyneuropathy, alcoholic myopathy, cardiomyopathy, gastritis, liver disease, chronic pancreatitis, alcohol in the blood, accidental poisoning by alcohol, intentional self-poisoning, and poisoning of undetermined intent. Note that disorders included here are also included in other cause of death categories.
[41] The ICD-10 codes for the above categories are E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15.
[42] Includes a variety of conditions affecting multiple organ systems, such as poisonings/overdoses and mental/behavioral disorders due to substance use/abuse. Other causes, such as drug-induced hypoglycemia and drug-induced Parkinsonism, are also included here. Note that disorders included here are also included in other cause of death categories.
[43] The ICD-10 codes for the above categories are: D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1-F11.5, F11.7-F11.9, F12.1-F12.5, F12.7-F12.9, F13.1-F13.5, F13.7-F13.9, F14.1-F14.5, F14.7-F14.9, F15.1-F15.5, F15.7-F15.9, F16.1-F16.5, F16.7-F16.9, F18.1-F18.5, F18.7-F18.9, F19.1-F19.5, F19.7-F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2-J70.4, K85.3, L10.5, L27.0-L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1-R78.5, X40-X44, X60-X64, X85, Y10-Y14.
[44] Recorded as a separate item on the death certificate by the Medical Examiner.

## TABLE 6-8. Number of deaths by cause and month of death, Oregon residents, 2017

| Cause of death | Total | Month of death | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| Total | 36,640 | 3,756 | 3,052 | 3,176 | 2,987 | 3,072 | 2,805 | 2,963 | 2,876 | 2,765 | 3,085 | 2,892 | 3,211 |
| Malignant neoplasms | 8,084 | 698 | 609 | 671 | 661 | 679 | 621 | 722 | 714 | 669 | 717 | 612 | 711 |
| Heart disease | 6,945 | 718 | 574 | 651 | 600 | 599 | 535 | 523 | 511 | 465 | 582 | 552 | 635 |
| Chronic lower respiratory disease | 2,088 | 219 | 183 | 217 | 187 | 194 | 158 | 168 | 140 | 143 | 165 | 158 | 156 |
| Unintentional injuries | 2,073 | 179 | 148 | 154 | 162 | 178 | 163 | 184 | 199 | 162 | 187 | 194 | 163 |
| Cerebrovascular disease | 2,066 | 226 | 187 | 189 | 163 | 158 | 168 | 157 | 155 | 154 | 178 | 174 | 157 |
| Alzheimer's disease | 1,850 | 215 | 170 | 128 | 141 | 151 | 144 | 162 | 138 | 147 | 144 | 132 | 178 |
| Diabetes mellitus | 1,243 | 134 | 103 | 85 | 101 | 118 | 97 | 94 | 97 | 110 | 113 | 80 | 111 |
| Alcohol-induced[1,2] | 878 | 69 | 64 | 69 | 69 | 59 | 79 | 70 | 76 | 77 | 93 | 72 | 81 |
| Suicide | 825 | 74 | 67 | 66 | 74 | 65 | 63 | 74 | 75 | 69 | 73 | 63 | 62 |
| Influenza & pneumonia | 573 | 158 | 73 | 44 | 35 | 32 | 26 | 27 | 16 | 18 | 32 | 37 | 75 |
| Hypertension & renal hypertension | 561 | 69 | 57 | 56 | 47 | 37 | 42 | 29 | 40 | 43 | 45 | 36 | 60 |
| Parkinson's disease | 465 | 50 | 35 | 39 | 38 | 43 | 31 | 30 | 42 | 36 | 38 | 39 | 44 |
| Nephritis, nephrotic syndrome, etc. | 377 | 39 | 35 | 30 | 27 | 38 | 29 | 32 | 29 | 24 | 37 | 37 | 20 |
| Septicemia | 242 | 35 | 18 | 15 | 15 | 16 | 14 | 24 | 20 | 9 | 28 | 25 | 23 |
| Neoplasms not known to be malig. | 224 | 22 | 27 | 17 | 13 | 18 | 15 | 18 | 20 | 23 | 11 | 15 | 25 |
| Aortic aneurysm | 179 | 15 | 10 | 22 | 13 | 18 | 13 | 11 | 17 | 14 | 10 | 19 | 17 |
| Pneumonitis due to solids/liquids | 154 | 20 | 13 | 15 | 17 | 12 | 14 | 10 | 16 | 8 | 11 | 9 | 9 |
| Congenital malformations | 144 | 11 | 14 | 18 | 13 | 10 | 11 | 10 | 11 | 12 | 13 | 10 | 11 |
| Viral hepatitis | 139 | 16 | 11 | 12 | 10 | 12 | 6 | 9 | 16 | 8 | 17 | 13 | 9 |
| Homicide | 128 | 17 | 7 | 10 | 9 | 10 | 9 | 13 | 11 | 12 | 9 | 12 | 9 |
| Perinatal conditions | 120 | 8 | 9 | 9 | 14 | 14 | 10 | 9 | 6 | 12 | 12 | 7 | 10 |
| Amyotrophic lateral sclerosis | 102 | 13 | 10 | 10 | 7 | 7 | 9 | 8 | 10 | 4 | 5 | 9 | 10 |
| Nutritional deficiencies | 98 | 13 | 6 | 14 | 4 | 7 | 7 | 6 | 10 | 5 | 11 | 10 | 5 |
| Peptic ulcer | 68 | 6 | 7 | 13 | 4 | 8 | 6 | 3 | 4 | 3 | 3 | 7 | 4 |
| Gallbladder disorders | 68 | 4 | 5 | 5 | 5 | 6 | 8 | 3 | 8 | 7 | 7 | 6 | 4 |
| All other causes | 6,995 | 732 | 613 | 620 | 565 | 587 | 531 | 570 | 500 | 532 | 550 | 567 | 628 |

[1] Includes the following ICD-10 codes: E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15.
[2] Alcohol category is not mutually exclusive. Columns may not add to row totals.

**TABLE 6-9. Deaths by age, single mention race, and ethnicity, Oregon residents, 2017**

| Single mention race and ethnicity | Total | Age at death | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| **All races** | 36,640 | 236 | 50 | 75 | 113 | 228 | 268 | 284 | 399 | 462 |
| Hispanic | 1,074 | 58 | 10 | 18 | 18 | 27 | 31 | 29 | 34 | 40 |
| Non-Hispanic | 35,470 | 177 | 40 | 56 | 95 | 200 | 237 | 254 | 362 | 422 |
| Not stated[1] | 96 | 1 | – | 1 | – | 1 | – | 1 | 3 | – |
| **White** | 34,381 | 173 | 42 | 61 | 82 | 192 | 235 | 243 | 358 | 394 |
| Hispanic | 776 | 40 | 7 | 16 | 10 | 24 | 22 | 18 | 27 | 28 |
| Non-Hispanic | 33,605 | 133 | 35 | 45 | 72 | 168 | 213 | 225 | 331 | 366 |
| **Black** | 520 | 15 | 1 | 4 | 8 | 9 | 6 | 9 | 8 | 14 |
| Hispanic | 5 | 1 | – | 1 | 1 | – | – | 1 | – | – |
| Non-Hispanic | 515 | 14 | 1 | 3 | 7 | 9 | 6 | 8 | 8 | 14 |
| **American Indian** | 389 | 4 | – | 2 | 3 | 10 | 6 | 3 | 11 | 17 |
| Hispanic | 14 | – | – | – | – | – | 2 | – | 1 | – |
| Non-Hispanic | 375 | 4 | – | 2 | 3 | 10 | 4 | 3 | 10 | 17 |
| **Asian**[2] | 665 | 11 | – | 2 | 6 | 5 | 5 | 8 | 6 | 11 |
| Hispanic | 6 | 1 | – | – | – | – | – | 1 | – | – |
| Non-Hispanic | 659 | 10 | – | 2 | 6 | 5 | 5 | 7 | 6 | 11 |
| **HI & Pac. Is.**[3] | 77 | 8 | 2 | 1 | 3 | 1 | 2 | 4 | 1 | 6 |
| Hispanic | 6 | 2 | – | – | – | – | – | – | – | – |
| Non-Hispanic | 71 | 6 | 2 | 1 | 3 | 1 | 2 | 4 | 1 | 6 |
| **Other races & not stated** | 333 | 16 | 4 | 2 | 7 | 3 | 8 | 10 | 7 | 13 |
| Hispanic | 257 | 13 | 3 | 1 | 7 | 3 | 7 | 9 | 6 | 12 |
| Non-Hispanic | 76 | 3 | 1 | 1 | – | – | 1 | 1 | 1 | 1 |
| **Multiple races** | 275 | 9 | 1 | 3 | 4 | 8 | 6 | 7 | 8 | 7 |
| Hispanic | 10 | 1 | – | – | – | – | – | – | – | – |
| Non-Hispanic | 265 | 8 | 1 | 3 | 4 | 8 | 6 | 7 | 8 | 7 |

| Single mention race and ethnicity | Age at death | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75-79 | 80-84 | 85+ |
| **All races** | 680 | 1,128 | 1,984 | 2,626 | 3,374 | 3,799 | 4,158 | 4,527 | 12,249 |
| Hispanic | 57 | 61 | 79 | 65 | 89 | 74 | 94 | 87 | 203 |
| Non-Hispanic | 621 | 1,063 | 1,893 | 2,547 | 3,271 | 3,710 | 4,053 | 4,432 | 12,037 |
| Not stated[1] | 2 | 4 | 12 | 14 | 14 | 15 | 11 | 8 | 9 |
| **White** | 594 | 1,009 | 1,821 | 2,419 | 3,147 | 3,596 | 3,936 | 4,308 | 11,771 |
| Hispanic | 44 | 51 | 56 | 49 | 63 | 54 | 60 | 64 | 143 |
| Non-Hispanic | 550 | 958 | 1,765 | 2,370 | 3,084 | 3,542 | 3,876 | 4,244 | 11,628 |
| **Black** | 20 | 37 | 53 | 67 | 62 | 41 | 36 | 46 | 84 |
| Hispanic | – | – | 1 | – | – | – | – | – | – |
| Non-Hispanic | 20 | 37 | 52 | 67 | 62 | 41 | 36 | 46 | 84 |
| **American Indian** | 17 | 28 | 34 | 40 | 43 | 37 | 38 | 43 | 53 |
| Hispanic | – | – | 2 | 2 | 2 | – | – | 1 | 4 |
| Non-Hispanic | 17 | 28 | 32 | 38 | 41 | 37 | 38 | 42 | 49 |
| **Asian**[2] | 25 | 23 | 28 | 43 | 47 | 57 | 76 | 81 | 231 |
| Hispanic | 1 | – | – | – | – | – | 1 | – | 2 |
| Non-Hispanic | 24 | 23 | 28 | 43 | 47 | 57 | 75 | 81 | 229 |
| **HI & Pac. Is.**[3] | 2 | 8 | 7 | 5 | 7 | 7 | 5 | 3 | 5 |
| Hispanic | – | 1 | – | – | 1 | 1 | – | – | 1 |
| Non-Hispanic | 2 | 7 | 7 | 5 | 6 | 6 | 5 | 3 | 4 |
| **Other races & not stated** | 14 | 12 | 23 | 22 | 34 | 33 | 43 | 26 | 56 |
| Hispanic | 11 | 9 | 20 | 13 | 23 | 17 | 31 | 22 | 50 |
| Non-Hispanic | 3 | 3 | 3 | 9 | 11 | 16 | 12 | 4 | 6 |
| **Multiple races** | 8 | 11 | 18 | 30 | 34 | 28 | 24 | 20 | 49 |
| Hispanic | 1 | – | – | 1 | – | 2 | 2 | – | 3 |
| Non-Hispanic | 7 | 11 | 18 | 29 | 34 | 26 | 22 | 20 | 46 |

– Quantity is zero.
1 Ethnicity not reported. These cases are included in the non-Hispanic totals for racial categories.
2 Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, and other Asian.
3 Includes Guamanian, Hawaiian, Samoan, and other Pacific Islander.

**TABLE 6-10. Deaths by age, race (any mention), and ethnicity, Oregon residents, 2017**

| Any mention race and ethnicity[1] | Total | Age at death | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| **All races** | 36,640 | 236 | 50 | 75 | 113 | 228 | 268 | 284 | 399 | 462 |
| Hispanic | 1,074 | 58 | 10 | 18 | 18 | 27 | 31 | 29 | 34 | 40 |
| Non-Hispanic | 35,470 | 177 | 40 | 56 | 95 | 200 | 237 | 254 | 362 | 422 |
| Not stated[2] | 96 | 1 | – | 1 | – | 1 | – | 1 | 3 | – |
| **White** | 34,628 | 178 | 42 | 64 | 85 | 200 | 241 | 250 | 364 | 399 |
| Hispanic | 786 | 41 | 7 | 16 | 10 | 24 | 22 | 18 | 27 | 28 |
| Non-Hispanic | 33,842 | 137 | 35 | 48 | 75 | 176 | 219 | 232 | 337 | 371 |
| **Black** | 554 | 21 | 2 | 5 | 10 | 14 | 7 | 11 | 13 | 15 |
| Hispanic | 6 | 2 | – | 1 | 1 | – | – | 1 | – | – |
| Non-Hispanic | 548 | 19 | 2 | 4 | 9 | 14 | 7 | 10 | 13 | 15 |
| **American Indian** | 576 | 5 | – | 3 | 5 | 11 | 8 | 7 | 15 | 18 |
| Hispanic | 20 | – | – | – | – | – | 2 | – | 1 | – |
| Non-Hispanic | 556 | 5 | – | 3 | 5 | 11 | 6 | 7 | 14 | 18 |
| **Asian**[3] | 728 | 15 | – | 3 | 7 | 6 | 8 | 10 | 7 | 16 |
| Hispanic | 9 | 1 | – | – | – | – | – | 1 | – | – |
| Non-Hispanic | 719 | 14 | – | 3 | 7 | 6 | 8 | 9 | 7 | 16 |
| **HI & Pacific Islander**[4] | 104 | 10 | 3 | 1 | 3 | 2 | 2 | 4 | 1 | 8 |
| Hispanic | 6 | 2 | – | – | – | – | – | – | – | – |
| Non-Hispanic | 98 | 8 | 3 | 1 | 3 | 2 | 2 | 4 | 1 | 8 |
| **Other races & not stated** | 357 | 17 | 5 | 4 | 7 | 4 | 8 | 10 | 7 | 13 |
| Hispanic | 268 | 14 | 4 | 3 | 7 | 3 | 7 | 9 | 6 | 12 |
| Non-Hispanic | 89 | 3 | 1 | 1 | – | 1 | 1 | 1 | 1 | 1 |

| Any mention race and ethnicity[1] | Age at death | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75-79 | 80-84 | 85+ |
| **All races** | 680 | 1,128 | 1,984 | 2,626 | 3,374 | 3,799 | 4,158 | 4,527 | 12,249 |
| Hispanic | 57 | 61 | 79 | 65 | 89 | 74 | 94 | 87 | 203 |
| Non-Hispanic | 621 | 1,063 | 1,893 | 2,547 | 3,271 | 3,710 | 4,053 | 4,432 | 12,037 |
| Not stated[2] | 2 | 4 | 12 | 14 | 14 | 15 | 11 | 8 | 9 |
| **White** | 602 | 1,018 | 1,839 | 2,447 | 3,175 | 3,623 | 3,957 | 4,327 | 11,817 |
| Hispanic | 45 | 51 | 56 | 50 | 63 | 56 | 62 | 64 | 146 |
| Non-Hispanic | 557 | 967 | 1,783 | 2,397 | 3,112 | 3,567 | 3,895 | 4,263 | 11,671 |
| **Black** | 21 | 37 | 55 | 69 | 64 | 41 | 36 | 46 | 87 |
| Hispanic | – | – | 1 | – | – | – | – | – | – |
| Non-Hispanic | 21 | 37 | 54 | 69 | 64 | 41 | 36 | 46 | 87 |
| **American Indian** | 23 | 36 | 48 | 58 | 72 | 60 | 60 | 60 | 87 |
| Hispanic | 1 | – | 2 | 3 | 2 | 1 | 2 | 1 | 5 |
| Non-Hispanic | 22 | 36 | 46 | 55 | 70 | 59 | 58 | 59 | 82 |
| **Asian**[3] | 25 | 26 | 30 | 54 | 54 | 62 | 79 | 83 | 243 |
| Hispanic | 1 | – | – | – | – | 1 | 1 | – | 4 |
| Non-Hispanic | 24 | 26 | 30 | 54 | 54 | 61 | 78 | 83 | 239 |
| **HI & Pacific Islander**[4] | 3 | 10 | 7 | 7 | 11 | 9 | 7 | 5 | 11 |
| Hispanic | – | 1 | – | – | 1 | 1 | – | – | 1 |
| Non-Hispanic | 3 | 9 | 7 | 7 | 10 | 8 | 7 | 5 | 10 |
| **Other races & not stated** | 15 | 14 | 25 | 25 | 38 | 33 | 44 | 26 | 62 |
| Hispanic | 12 | 9 | 22 | 15 | 24 | 17 | 31 | 22 | 51 |
| Non-Hispanic | 3 | 5 | 3 | 10 | 14 | 16 | 13 | 4 | 11 |

– Quantity is zero.
1 Includes any race (one or more) and ethnicity mention. Race categories will not sum to the total since multiple race selections could be made for each decedent.
2 Ethnicity not reported. These cases are included in the non-Hispanic totals for racial categories.
3 Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, and other Asian.
4 Includes Guamanian, Hawaiian, Samoan, and other Pacific Islander.

**TABLE 6-11. Deaths by cause, single mention race, and ethnicity, Oregon residents, 2017**

| Selected causes of death | Total | Non-Hispanic single mention race | | | | | | Mult. races | His-panic[3] |
|---|---|---|---|---|---|---|---|---|---|
| | | White | Black | Am. Indian | Asian[1] | HI & Pac. Is.[2] | Other & not stated | | |
| Total | 36,640 | 33,605 | 515 | 375 | 659 | 71 | 76 | 265 | 1,074 |
| Infections & parasitic disease | 695 | 627 | 8 | 14 | 16 | 2 | – | 5 | 23 |
| Septicemia | 242 | 219 | 3 | 4 | 5 | 1 | – | 1 | 9 |
| Viral hepatitis | 139 | 120 | 3 | 3 | 5 | – | – | 3 | 5 |
| HIV disease | 42 | 37 | 1 | – | – | – | – | – | 4 |
| Malignant neoplasms | 8,084 | 7,425 | 103 | 75 | 189 | 16 | 14 | 54 | 208 |
| Colon | 437 | 394 | 5 | 4 | 15 | – | 1 | 2 | 16 |
| Pancreas | 640 | 593 | 8 | 9 | 17 | – | 1 | 3 | 9 |
| Bronchus & lung | 1,865 | 1,718 | 29 | 20 | 36 | 3 | 4 | 16 | 39 |
| Skin | 194 | 192 | – | – | – | 1 | 1 | – | – |
| Breast | 516 | 469 | 8 | 5 | 12 | 3 | – | 6 | 13 |
| Prostate | 441 | 408 | 9 | 2 | 6 | – | 1 | 1 | 14 |
| Kidney & renal pelvis | 190 | 183 | 1 | – | – | – | – | 2 | 4 |
| Bladder | 254 | 248 | – | 2 | 1 | – | – | – | 3 |
| Lymphatic | 814 | 747 | 10 | 6 | 20 | 2 | 1 | 7 | 21 |
| Non-Hodgkin's lymphoma | 279 | 249 | 3 | 5 | 12 | – | – | 5 | 5 |
| Leukemia | 346 | 323 | 5 | – | 4 | 1 | 1 | – | 12 |
| Benign & uncertain neoplasms | 224 | 204 | 5 | 1 | 4 | 1 | 1 | 3 | 5 |
| Diabetes mellitus | 1,243 | 1,087 | 37 | 14 | 28 | 7 | 3 | 15 | 52 |
| Organic dementia | 2,138 | 2,015 | 20 | 8 | 39 | 1 | 2 | 6 | 47 |
| Parkinson's disease | 465 | 446 | 2 | 2 | 10 | 1 | 1 | – | 3 |
| Alzheimer's disease | 1,850 | 1,758 | 13 | 12 | 24 | 1 | – | 7 | 35 |
| Diseases of circulatory sys. | 9,993 | 9,264 | 139 | 76 | 184 | 18 | 24 | 65 | 223 |
| Diseases of heart | 6,945 | 6,465 | 94 | 56 | 101 | 11 | 17 | 49 | 152 |
| Ischemic heart disease | 3,387 | 3,143 | 45 | 30 | 57 | 4 | 8 | 23 | 77 |
| Myocardial infarction | 1,088 | 999 | 15 | 9 | 26 | 2 | 2 | 12 | 23 |
| Cerebrovascular disease | 2,066 | 1,878 | 32 | 15 | 64 | 6 | 6 | 13 | 52 |
| Intracerebral hemorrhage | 395 | 348 | 10 | 5 | 13 | 3 | 1 | 2 | 13 |
| Cerebral infarction | 221 | 208 | 2 | 2 | 4 | – | 1 | – | 4 |
| Stroke of unspecified type | 768 | 698 | 13 | 6 | 29 | 1 | 4 | 2 | 15 |
| Hypertension & hyp. renal dis | 561 | 535 | 6 | 2 | 6 | – | 1 | 1 | 10 |
| Aortic aneurysm | 179 | 161 | 4 | 2 | 7 | – | – | 1 | 4 |
| Influenza & pneumonia | 573 | 524 | 9 | 10 | 9 | 2 | 1 | 3 | 15 |
| Chronic lower respiratory dis. | 2,088 | 1,994 | 19 | 22 | 10 | 1 | 9 | 13 | 20 |
| Diseases of the digestive sys. | 1,652 | 1,481 | 16 | 37 | 19 | – | – | 16 | 83 |
| Dis. of the genitourinary sys | 671 | 609 | 12 | 10 | 11 | 1 | 3 | 2 | 23 |
| Nephritis, nephrosis, etc. | 377 | 335 | 6 | 7 | 9 | 1 | – | 2 | 17 |
| Perinatal conditions | 120 | 68 | 6 | 1 | 7 | 4 | 3 | 3 | 28 |
| Congenital malformations | 144 | 108 | 3 | 3 | 1 | 2 | – | 3 | 24 |
| Sudden infant death syndrome | 21 | 15 | 2 | – | – | – | – | 2 | 2 |
| Unintentional injuries | 2,073 | 1,818 | 39 | 28 | 36 | 1 | 4 | 25 | 122 |
| Suicide | 825 | 728 | 10 | 14 | 16 | 2 | 2 | 17 | 36 |
| Homicide | 128 | 91 | 7 | 1 | 3 | – | – | 4 | 22 |
| Undetermined intent | 60 | 49 | 3 | 5 | – | – | – | – | 3 |
| *Alcohol-induced*[4] | 878 | 770 | 10 | 32 | – | – | 3 | 13 | 50 |
| *Drug-induced*[4] | 671 | 586 | 17 | 11 | 8 | – | 1 | 13 | 35 |
| *Injury by firearms*[4] | 529 | 467 | 9 | 9 | 8 | 1 | 1 | 7 | 27 |

– Quantity is zero.
1 Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, and other Asian.
2 Includes Guamanian, Hawaiian, Samoan, and other Pacific Islander.
3 Decedents of Hispanic ethnicity may belong to any race but have been removed from all race categories in this table.
4 See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.

**TABLE 6-12. Deaths by cause, race (any mention), and ethnicity, Oregon residents, 2017**

| Selected causes of death | Total[1] | White | Black | Am. Indian | Asian[2] | HI & Pac. Is.[3] | Other & not stated | His-panic[4] |
|---|---|---|---|---|---|---|---|---|
| Total | 36,640 | 34,628 | 554 | 576 | 728 | 104 | 357 | 1,074 |
| Infections & parasitic disease | 695 | 646 | 8 | 18 | 18 | 3 | 9 | 23 |
| Septicemia | 242 | 226 | 3 | 5 | 6 | 1 | 3 | 9 |
| Viral hepatitis | 139 | 126 | 3 | 6 | 5 | – | 2 | 5 |
| HIV disease | 42 | 40 | 1 | – | – | – | 1 | 4 |
| Malignant neoplasms | 8,084 | 7,628 | 108 | 121 | 202 | 21 | 65 | 208 |
| Colon | 437 | 406 | 6 | 5 | 16 | 2 | 4 | 16 |
| Pancreas | 640 | 602 | 10 | 11 | 18 | – | 2 | 9 |
| Bronchus & lung | 1,865 | 1,759 | 30 | 37 | 37 | 3 | 17 | 39 |
| Skin | 194 | 192 | – | – | – | 1 | 1 | – |
| Breast | 516 | 487 | 9 | 8 | 14 | 3 | 1 | 13 |
| Prostate | 441 | 415 | 9 | 3 | 6 | – | 9 | 14 |
| Kidney & renal pelvis | 190 | 188 | 1 | 1 | 1 | 1 | – | 4 |
| Bladder | 254 | 250 | – | 2 | 1 | – | 1 | 3 |
| Lymphatic | 814 | 768 | 10 | 14 | 20 | 2 | 9 | 21 |
| Non-Hodgkin's lymphoma | 279 | 258 | 3 | 10 | 12 | – | 2 | 5 |
| Leukemia | 346 | 331 | 5 | 1 | 4 | 1 | 5 | 12 |
| Benign & uncertain neoplasms | 224 | 211 | 5 | 3 | 5 | 2 | 1 | 5 |
| Diabetes mellitus | 1,243 | 1,137 | 39 | 26 | 31 | 8 | 18 | 52 |
| Organic dementia | 2,138 | 2,053 | 20 | 10 | 44 | 3 | 16 | 47 |
| Parkinson's disease | 465 | 447 | 2 | 2 | 10 | 1 | 3 | 3 |
| Alzheimer's disease | 1,850 | 1,788 | 14 | 17 | 27 | 2 | 10 | 35 |
| Diseases of circulatory sys. | 9,993 | 9,481 | 142 | 128 | 197 | 29 | 92 | 223 |
| Diseases of heart | 6,945 | 6,617 | 95 | 96 | 112 | 21 | 62 | 152 |
| Ischemic heart disease | 3,387 | 3,221 | 46 | 49 | 62 | 7 | 29 | 77 |
| Myocardial infarction | 1,088 | 1,024 | 15 | 18 | 28 | 4 | 12 | 23 |
| Cerebrovascular disease | 2,066 | 1,929 | 34 | 24 | 66 | 6 | 20 | 52 |
| Intracerebral hemorrhage | 395 | 359 | 11 | 6 | 13 | 3 | 5 | 13 |
| Cerebral infarction | 221 | 211 | 2 | 2 | 4 | – | 2 | 4 |
| Stroke of unspecified type | 768 | 714 | 13 | 8 | 29 | 1 | 5 | 15 |
| Hypertension & hyp. renal dis | 561 | 541 | 6 | 3 | 6 | – | 6 | 10 |
| Aortic aneurysm | 179 | 165 | 4 | 3 | 7 | 1 | 1 | 4 |
| Influenza & pneumonia | 573 | 537 | 11 | 10 | 11 | 3 | 5 | 15 |
| Chronic lower respiratory dis. | 2,088 | 2,024 | 19 | 33 | 13 | 1 | 12 | 20 |
| Diseases of the digestive sys. | 1,652 | 1,558 | 17 | 55 | 20 | 1 | 20 | 83 |
| Dis. of the genitourinary sys | 671 | 630 | 12 | 11 | 12 | 1 | 7 | 23 |
| Nephritis, nephrosis, etc. | 377 | 352 | 6 | 8 | 10 | 1 | 2 | 17 |
| Perinatal conditions | 120 | 92 | 7 | 2 | 9 | 6 | 8 | 28 |
| Congenital malformations | 144 | 126 | 4 | 5 | 2 | 2 | 9 | 24 |
| Sudden infant death syndrome | 21 | 18 | 4 | – | – | 1 | – | 2 |
| Unintentional injuries | 2,073 | 1,928 | 46 | 43 | 44 | 5 | 38 | 122 |
| Suicide | 825 | 772 | 15 | 23 | 21 | 2 | 11 | 36 |
| Homicide | 128 | 111 | 10 | 4 | 4 | 1 | 3 | 22 |
| Undetermined intent | 60 | 52 | 3 | 5 | – | – | – | 3 |
| *Alcohol-induced*[5] | 878 | 822 | 11 | 44 | 1 | 1 | 14 | 50 |
| *Drug-induced*[5] | 671 | 625 | 19 | 17 | 13 | 2 | 9 | 35 |
| *Injury by firearms*[5] | 529 | 496 | 13 | 14 | 8 | 1 | 5 | 27 |

– Quantity is zero.
1 Race categories will not add up to the total since multiple race selections could be made for each decedent.
2 Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, and other Asian.
3 Includes Guamanian, Hawaiian, Samoan, and other Pacific Islander.
4 Decedents of Hispanic ethnicity may belong to any race.
5 See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.

**TABLE 6-13. Years of potential life lost before age 75 from the leading causes of death, by year, Oregon residents, 2003-2017**

| Year | Total | Cancer | Unintended injury | Heart disease | Suicide | Alcohol-induced[1] | Diabetes | Perinatal conditions | Chronic lower respiratory disease |
|---|---|---|---|---|---|---|---|---|---|
| 2003 | 225,545 | 50,810 | 34,383 | 28,869 | 15,585 | 10,033 | 7,237 | 8,591 | 6,493 |
| 2004 | 221,453 | 50,892 | 34,830 | 26,449 | 15,294 | 9,877 | 7,497 | 8,396 | 5,848 |
| 2005 | 224,868 | 53,166 | 31,845 | 26,721 | 14,874 | 9,553 | 7,585 | 10,131 | 6,543 |
| 2006 | 231,592 | 52,025 | 36,529 | 26,871 | 16,158 | 9,082 | 7,590 | 9,067 | 6,807 |
| 2007 | 234,443 | 51,747 | 36,820 | 27,845 | 16,266 | 10,168 | 7,551 | 10,311 | 7,307 |
| 2008 | 231,750 | 51,479 | 38,621 | 27,793 | 16,342 | 10,362 | 6,621 | 8,994 | 7,598 |
| 2009 | 230,153 | 53,568 | 34,029 | 25,605 | 17,158 | 10,686 | 7,530 | 8,323 | 7,341 |
| 2010 | 224,366 | 54,941 | 30,199 | 23,929 | 17,963 | 10,666 | 7,292 | 7,891 | 7,799 |
| 2011 | 230,525 | 55,353 | 33,117 | 24,368 | 18,023 | 11,984 | 7,831 | 8,201 | 7,604 |
| 2012 | 228,909 | 54,352 | 31,236 | 24,889 | 19,481 | 11,856 | 7,273 | 8,473 | 7,141 |
| 2013 | 233,367 | 53,926 | 30,610 | 24,786 | 19,119 | 12,867 | 7,665 | 9,188 | 8,121 |
| 2014 | 241,894 | 55,761 | 33,715 | 24,665 | 20,875 | 13,653 | 7,988 | 9,671 | 8,543 |
| 2015 | 245,051 | 54,811 | 35,984 | 26,157 | 20,564 | 15,347 | 8,141 | 8,544 | 7,704 |
| 2016 | 247,542 | 54,393 | 40,139 | 26,410 | 20,427 | 14,448 | 8,691 | 7,498 | 8,501 |
| 2017 | 251,589 | 53,022 | 38,787 | 27,675 | 22,602 | 14,895 | 8,993 | 8,848 | 8,150 |

| Year | Congenital anomalies | Cerebro-vascular disease | Homicide[2] | Pneu-monia & influenza | Septicemia | Viral hepatitis | Undeter-mined external causes | Sudden infant death syndrome | HIV disease |
|---|---|---|---|---|---|---|---|---|---|
| 2003 | 6,313 | 6,108 | 3,522 | 1,985 | 1,309 | 2,050 | 3,575 | 1,714 | 2,675 |
| 2004 | 6,720 | 6,221 | 4,502 | 1,671 | 1,481 | 2,105 | 3,284 | 1,416 | 1,902 |
| 2005 | 5,695 | 6,274 | 4,078 | 2,421 | 1,658 | 1,717 | 3,370 | 1,491 | 1,729 |
| 2006 | 6,918 | 5,737 | 4,429 | 1,578 | 1,429 | 1,817 | 3,390 | 2,236 | 1,478 |
| 2007 | 6,293 | 6,339 | 3,147 | 1,684 | 1,709 | 3,536 | 3,691 | 2,833 | 1,518 |
| 2008 | 6,271 | 5,135 | 3,949 | 2,236 | 1,839 | 2,860 | 2,693 | 1,492 | 1,045 |
| 2009 | 4,264 | 5,714 | 3,684 | 3,822 | 2,096 | 3,276 | 3,004 | 2,163 | 1,076 |
| 2010 | 5,688 | 5,206 | 4,080 | 1,760 | 1,660 | 3,197 | 3,432 | 2,385 | 1,130 |
| 2011 | 5,831 | 5,709 | 4,235 | 1,786 | 1,581 | 3,177 | 2,437 | 2,087 | 859 |
| 2012 | 5,405 | 5,171 | 4,159 | 1,482 | 1,253 | 2,597 | 2,379 | 1,865 | 1,359 |
| 2013 | 5,607 | 5,302 | 3,211 | 1,915 | 1,403 | 3,858 | 2,316 | 1,715 | 1,234 |
| 2014 | 4,338 | 6,228 | 3,334 | 2,734 | 1,321 | 3,030 | 2,131 | 1,863 | 711 |
| 2015 | 5,214 | 5,488 | 4,918 | 1,638 | 1,804 | 2,618 | 2,354 | 1,714 | 909 |
| 2016 | 5,593 | 5,585 | 4,859 | 2,818 | 2,168 | 2,117 | 1,756 | 1,566 | 772 |
| 2017 | 6,318 | 5,950 | 4,472 | 2,381 | 1,997 | 1,864 | 1,734 | 1,566 | 888 |

[1] See Table 6-6, footnotes 39-40, for a list of included conditions and their ICD codes.
[2] Excludes legal intervention.

**TABLE 6-14. Years of potential life lost by cause and sex, Oregon residents, 2017**

| Selected causes of death | Before age 65 | | | Before age 75 | | | Before age 85 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Total[1] | M | F | Total[1] | M | F | Total[1] | M | F |
| Total | 128,476 | 80,855 | 47,586 | 251,589 | 155,829 | 95,705 | 455,041 | 274,989 | 179,977 |
| Infections & parasitic disease | 3,192 | 1,991 | 1,201 | 6,542 | 4,018 | 2,524 | 11,283 | 6,751 | 4,532 |
| Septicemia | 992 | 535 | 457 | 1,997 | 1,072 | 925 | 3,550 | 1,887 | 1,663 |
| Viral hepatitis | 707 | 454 | 253 | 1,864 | 1,214 | 650 | 3,170 | 2,071 | 1,099 |
| HIV disease | 504 | 435 | 69 | 888 | 749 | 139 | 1,298 | 1,089 | 209 |
| Malignant neoplasms | 19,515 | 9,432 | 10,083 | 53,022 | 27,220 | 25,802 | 110,191 | 57,735 | 52,456 |
| Colon | 1,100 | 584 | 516 | 2,825 | 1,553 | 1,272 | 5,686 | 3,107 | 2,579 |
| Pancreas | 1,166 | 647 | 519 | 3,793 | 2,208 | 1,585 | 8,477 | 4,767 | 3,710 |
| Bronchus & lung | 2,710 | 1,416 | 1,294 | 9,956 | 5,185 | 4,771 | 23,730 | 12,255 | 11,475 |
| Skin | 637 | 455 | 182 | 1,432 | 1,065 | 367 | 2,676 | 2,011 | 665 |
| Breast | 2,045 | 10 | 2,035 | 4,762 | 35 | 4,727 | 8,566 | 92 | 8,474 |
| Cervical | 439 | – | 439 | 751 | – | 751 | 1,155 | – | 1,155 |
| Uterine | 430 | – | 430 | 1,138 | – | 1,138 | 2,219 | – | 2,219 |
| Ovarian | 653 | – | 653 | 1,745 | – | 1,745 | 3,520 | – | 3,520 |
| Prostate | 212 | 212 | – | 1,138 | 1,138 | – | 3,498 | 3,498 | – |
| Kidney & renal pelvis | 395 | 293 | 102 | 1,144 | 854 | 290 | 2,467 | 1,829 | 638 |
| Bladder | 190 | 130 | 60 | 778 | 585 | 193 | 2,106 | 1,500 | 606 |
| Brain | 1,599 | 937 | 662 | 3,201 | 1,890 | 1,311 | 5,369 | 3,159 | 2,210 |
| Lymphatic | 1,796 | 976 | 820 | 4,418 | 2,474 | 1,944 | 9,517 | 5,421 | 4,096 |
| Benign & uncertain neoplasms | 397 | 172 | 225 | 898 | 432 | 466 | 2,087 | 1,105 | 982 |
| Diabetes mellitus | 3,685 | 2,088 | 1,597 | 8,993 | 5,231 | 3,762 | 17,486 | 10,314 | 7,172 |
| Organic dementia | 102 | 51 | 51 | 917 | 451 | 466 | 4,664 | 2,218 | 2,446 |
| Meningitis | 87 | 70 | 17 | 121 | 94 | 27 | 161 | 124 | 37 |
| Amyotrophic lateral sclerosis | 264 | 176 | 88 | 840 | 510 | 330 | 1,742 | 1,018 | 724 |
| Parkinson's disease | 66 | 49 | 17 | 486 | 323 | 163 | 2,312 | 1,546 | 766 |
| Alzheimer's disease | 93 | 18 | 75 | 802 | 247 | 555 | 4,189 | 1,412 | 2,777 |
| Epilepsy | 355 | 152 | 203 | 580 | 256 | 324 | 864 | 373 | 491 |
| Diseases of circulatory system | 14,690 | 9,724 | 4,963 | 38,006 | 25,463 | 12,530 | 81,968 | 53,375 | 28,570 |
| Hypertension | 800 | 499 | 301 | 2,348 | 1,487 | 861 | 4,958 | 3,102 | 1,856 |
| Heart disease | 10,843 | 7,456 | 3,384 | 27,675 | 19,272 | 8,390 | 58,724 | 39,872 | 18,829 |
| Cerebrovascular disease | 2,129 | 1,185 | 944 | 5,950 | 3,377 | 2,573 | 14,071 | 7,764 | 6,307 |
| Arteriosclerosis | 1 | 0 | 1 | 27 | 8 | 19 | 139 | 59 | 80 |
| Aortic aneurysm | 400 | 304 | 96 | 867 | 663 | 204 | 1,820 | 1,293 | 527 |
| Influenza & pneumonia | 1,017 | 608 | 409 | 2,381 | 1,418 | 963 | 4,837 | 2,835 | 2,002 |
| Chronic lower respiratory dis. | 2,231 | 896 | 1,335 | 8,150 | 3,832 | 4,318 | 20,793 | 9,974 | 10,819 |
| Pneumonitis due to solids/liq. | 350 | 198 | 152 | 663 | 372 | 291 | 1,304 | 689 | 615 |
| Digestive system disease | 7,254 | 4,494 | 2,760 | 15,283 | 9,435 | 5,848 | 26,576 | 16,221 | 10,355 |
| Genitourinary system disease | 990 | 516 | 474 | 2,584 | 1,377 | 1,207 | 5,795 | 3,118 | 2,677 |
| Nephritis, nephrosis, etc. | 712 | 433 | 279 | 1,762 | 1,056 | 706 | 3,714 | 2,256 | 1,458 |
| Pregnancy & childbirth | 412 | – | 412 | 532 | – | 532 | 652 | – | 652 |
| Congenital malformations | 5,105 | 2,344 | 2,761 | 6,318 | 2,942 | 3,376 | 7,629 | 3,589 | 4,040 |
| Sudden infant death syndrome | 1,356 | 1,097 | 259 | 1,566 | 1,267 | 299 | 1,776 | 1,437 | 339 |
| Unintentional injuries | 26,829 | 19,035 | 7,794 | 38,787 | 27,485 | 11,302 | 53,058 | 37,403 | 15,655 |
| Suicide | 15,605 | 11,997 | 3,576 | 22,602 | 17,289 | 5,271 | 30,330 | 23,151 | 7,127 |
| Homicide | 3,294 | 2,520 | 774 | 4,472 | 3,437 | 1,035 | 5,728 | 4,392 | 1,336 |
| Undetermined intent | 1,192 | 724 | 468 | 1,734 | 1,012 | 722 | 2,324 | 1,326 | 998 |
| Legal intervention | 343 | 343 | – | 448 | 448 | – | 558 | 558 | – |
| *Alcohol-induced*[2] | 7,459 | 5,065 | 2,394 | 14,895 | 10,245 | 4,650 | 23,392 | 16,249 | 7,143 |
| *Drug-induced*[2] | 12,535 | 8,037 | 4,466 | 18,641 | 11,888 | 6,711 | 25,147 | 15,957 | 9,138 |
| *Injury by firearms*[2] | 9,594 | 8,093 | 1,501 | 13,902 | 11,714 | 2,188 | 18,757 | 15,801 | 2,956 |

[1] Includes unknown sex.
[2] See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
Note: A zero indicates no deaths occurred before the base age, while a dash indicates no deaths of any kind.

## TABLE 6-15. Median age at death by year and cause, Oregon residents, 2003-2017

| Year | Total | Alzheimer's disease | Cerebro-vascular disease | Parkinson's disease | Pneu-monia & influenza | Heart disease | Arterio-sclerosis | Chronic lower respiratory disease |
|---|---|---|---|---|---|---|---|---|
| 2003 | 78 | 86 | 84 | 82 | 86 | 81 | 85 | 78 |
| 2004 | 79 | 86 | 84 | 83 | 86 | 82 | 85 | 78 |
| 2005 | 79 | 87 | 84 | 83 | 85 | 83 | 85 | 78 |
| 2006 | 79 | 87 | 83 | 83 | 85 | 82 | 85 | 78 |
| 2007 | 79 | 87 | 83 | 84 | 86 | 83 | 84 | 78 |
| 2008 | 79 | 87 | 84 | 83 | 85 | 83 | 85 | 78 |
| 2009 | 79 | 87 | 84 | 84 | 83 | 83 | 86 | 78 |
| 2010 | 79 | 88 | 84 | 83 | 85 | 83 | 85 | 78 |
| 2011 | 79 | 87 | 84 | 83 | 85 | 83 | 83 | 78 |
| 2012 | 79 | 88 | 84 | 84 | 85 | 84 | 89 | 78 |
| 2013 | 78 | 88 | 84 | 83 | 84 | 83 | 85 | 77 |
| 2014 | 78 | 88 | 83 | 83 | 81 | 83 | 83 | 77 |
| 2015 | 78 | 88 | 84 | 83 | 85 | 83 | 78 | 78 |
| 2016 | 78 | 88 | 84 | 84 | 80 | 83 | 81 | 77 |
| 2017 | 78 | 88 | 84 | 83 | 83 | 82 | 82 | 77 |

| Year | Diabetes | Cancer | Unintended injury | Viral hepatitis | Alcohol-induced[1] | Suicide | Undeter-mined external causes | Homicide[2] |
|---|---|---|---|---|---|---|---|---|
| 2003 | 76 | 74 | 51 | 51 | 55 | 48 | 42 | 34 |
| 2004 | 76 | 74 | 52 | 53 | 55 | 47 | 43 | 33 |
| 2005 | 76 | 73 | 54 | 54 | 56 | 48 | 42 | 34 |
| 2006 | 76 | 74 | 53 | 55 | 55 | 47 | 45 | 36 |
| 2007 | 75 | 74 | 53 | 56 | 56 | 48 | 44 | 34 |
| 2008 | 75 | 74 | 54 | 57 | 56 | 48 | 45 | 35 |
| 2009 | 75 | 73 | 55 | 55 | 56 | 49 | 48 | 40 |
| 2010 | 75 | 73 | 60 | 57 | 56 | 49 | 44 | 41 |
| 2011 | 75 | 73 | 59 | 58 | 56 | 47 | 47 | 33 |
| 2012 | 75 | 73 | 62 | 59 | 57 | 49 | 48 | 33 |
| 2013 | 75 | 73 | 64 | 59 | 58 | 50 | 40 | 36 |
| 2014 | 73 | 72 | 61 | 61 | 57 | 49 | 47 | 42 |
| 2015 | 73 | 72 | 63 | 61 | 58 | 49 | 44 | 40 |
| 2016 | 73 | 73 | 63 | 62 | 58 | 50 | 48 | 34 |
| 2017 | 73 | 73 | 63 | 62 | 59 | 48 | 52 | 39 |

[1] See Table 6-6, footnotes 39-40, for a list of included conditions and their ICD codes.
[2] Excludes legal intervention.

**TABLE 6-16. Selected causes of death among infants, children, and adolescents, by age, Oregon residents less than 20 years old, 2017**

| Manner and cause of death | Total | Age groups | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 0-17 | 1-17 | 13-19 | <1 | 1-4 | 5-9 | 10-14 | 15-17 | 18-19 |
| **Total** | 474 | 411 | 175 | 134 | 236 | 50 | 29 | 46 | 50 | 63 |
| **Total natural causes** | 301 | 290 | 74 | 31 | 216 | 27 | 14 | 17 | 16 | 11 |
| Perinatal conditions | 118 | 118 | 1 | – | 117 | 1 | – | – | – | – |
| Congenital anomalies | 67 | 65 | 10 | 2 | 55 | 4 | 4 | 2 | – | 2 |
| Cancer | 25 | 23 | 22 | 7 | 1 | 5 | 4 | 9 | 4 | 2 |
| SIDS | 21 | 21 | – | – | 21 | – | – | – | – | – |
| Heart disease | 5 | 4 | 4 | 3 | – | 1 | – | 1 | 2 | 1 |
| Septicemia | 5 | 5 | 2 | – | 3 | 1 | 1 | – | – | – |
| Cerebrovascular dis. | 4 | 4 | 4 | 2 | – | 1 | 1 | – | 2 | – |
| Neoplasms not known to be malignant | 4 | 3 | 2 | 2 | 1 | – | 1 | – | 1 | 1 |
| Diarrhea/gastroenteritis | 4 | 4 | – | – | 4 | – | – | – | – | – |
| Anemias | 3 | 3 | 2 | 1 | 1 | 1 | – | – | 1 | – |
| Influenza & pneumonia | 3 | 3 | 2 | 1 | 1 | 1 | – | – | 1 | – |
| Pneumonitis due to solids & liquids | 3 | 3 | 3 | 1 | – | 2 | – | – | 1 | – |
| Infantile cerebral palsy | 3 | 2 | 2 | 2 | – | 1 | – | 1 | – | 1 |
| Other | 36 | 32 | 20 | 10 | 12 | 9 | 3 | 4 | 4 | 4 |
| **Total external causes**[1] | 173 | 121 | 101 | 103 | 20 | 23 | 15 | 29 | 34 | 52 |
| Unintentional injuries | 102 | 72 | 56 | 48 | 16 | 20 | 13 | 13 | 10 | 30 |
| Motor vehicle | 52 | 35 | 34 | 29 | 1 | 12 | 7 | 7 | 8 | 17 |
| Suffocation | 14 | 14 | 1 | – | 13 | 1 | – | – | – | – |
| Fire | 11 | 10 | 9 | 3 | 1 | 3 | 3 | 3 | – | 1 |
| Drowning[2] | 10 | 7 | 6 | 5 | 1 | 2 | 1 | 2 | 1 | 3 |
| Poisoning | 7 | – | – | 7 | – | – | – | – | – | 7 |
| Struck by/against | 3 | 3 | 3 | 1 | – | 1 | 1 | 1 | – | – |
| Fall | 3 | 1 | 1 | 3 | – | – | – | – | 1 | 2 |
| Other | 2 | 2 | 2 | – | – | 1 | 1 | – | – | – |
| Suicide | 49 | 31 | 31 | 47 | – | – | – | 10 | 21 | 18 |
| Suffocation/hanging | 24 | 16 | 16 | 22 | – | – | – | 7 | 9 | 8 |
| Firearm | 19 | 13 | 13 | 19 | – | – | – | 2 | 11 | 6 |
| Cut/pierce | 1 | – | – | 1 | – | – | – | – | – | 1 |
| Fall | 1 | 1 | 1 | 1 | – | – | – | – | 1 | – |
| Poisoning | 1 | 1 | 1 | 1 | – | – | – | 1 | – | – |
| Other | 3 | – | – | 3 | – | – | – | – | – | 3 |
| Homicide | 14 | 13 | 10 | 2 | 3 | 2 | 2 | 5 | 1 | 1 |
| Firearm | 8 | 7 | 7 | 2 | – | – | 2 | 4 | 1 | 1 |
| Child abuse/neglect[3] | 1 | 1 | 1 | – | – | – | – | 1 | – | – |
| Poisoning | 1 | 1 | – | – | 1 | – | – | – | – | – |
| Other | 4 | 4 | 2 | – | 2 | 2 | – | – | – | – |
| Undetermined intent | 6 | 3 | 2 | 4 | 1 | 1 | – | 1 | – | 3 |
| Drowning[2] | 2 | – | – | 2 | – | – | – | – | – | 2 |
| Poisoning | 2 | 1 | 1 | 1 | – | 1 | – | – | – | 1 |
| Suffocation | 2 | 2 | 1 | 1 | 1 | – | – | 1 | – | – |
| *Gunshot (any manner)* | 29 | 22 | 22 | 23 | – | – | 2 | 6 | 14 | 7 |
| *Drug-induced*[4] | 9 | 3 | 2 | 7 | 1 | 1 | – | 1 | – | 6 |

– Quantity is zero.
1 Includes deaths resulting from complications of medical and surgical care (Y40-Y84, Y88).
2 Includes drownings that involved watercraft (V90, V92), as well as those that did not (W65-W74).
3 Abuse and neglect deaths are underreported on death certificates.
4 Includes any manner of overdose, as well as deaths resulting from substance abuse by mothers during pregnancy (O35.4-O35.5, P04.3-P04.4).

**TABLE 6-17. Deaths due to alcohol or drugs by sex, age, race/ethnicity, and educational attainment, Oregon residents, 2017**

| Demographic characteristics | Total | | Chronic alcoholic liver disease | | Other alcohol-induced | | Opioid-induced[1] | | Other drug-induced | | Unintended injuries | | Suicides | | Undetermined intent | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | % | # | % | # | % | # | % | # | % | # | % | # | % | # | % |
| **Total*** | 1,549 | 100 | 522 | 100 | 316 | 100 | 22 | 100 | 125 | 100 | 436 | 100 | 94 | 100 | 34 | 100 |
| **Sex** | | | | | | | | | | | | | | | | |
| Male | 1,040 | 67 | 363 | 70 | 231 | 73 | 11 | 50 | 90 | 72 | 291 | 67 | 40 | 43 | 14 | 41 |
| Female | 508 | 33 | 159 | 30 | 85 | 27 | 11 | 50 | 35 | 28 | 145 | 33 | 53 | 56 | 20 | 59 |
| **Age** | | | | | | | | | | | | | | | | |
| <15 | 3 | <0.5 | – | – | – | – | – | – | 1 | 1 | – | – | 1 | 1 | 1 | 3 |
| 15-17 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 18-19 | 6 | <0.5 | – | – | – | – | – | – | – | – | 6 | 1 | – | – | – | – |
| 20-24 | 47 | 3 | – | – | – | – | – | – | 4 | 3 | 35 | 8 | 5 | 5 | 3 | 9 |
| 25-29 | 74 | 5 | 5 | 1 | 3 | 1 | 1 | 5 | 4 | 3 | 53 | 12 | 7 | 7 | 1 | 3 |
| 30-34 | 74 | 5 | 11 | 2 | 6 | 2 | 4 | 18 | 4 | 3 | 39 | 9 | 9 | 10 | 1 | 3 |
| 35-44 | 187 | 12 | 48 | 9 | 21 | 7 | 2 | 9 | 8 | 6 | 88 | 20 | 16 | 17 | 4 | 12 |
| 45-54 | 332 | 21 | 106 | 20 | 76 | 24 | 4 | 18 | 30 | 24 | 91 | 21 | 18 | 19 | 7 | 21 |
| 55-64 | 453 | 29 | 195 | 37 | 102 | 32 | 5 | 23 | 30 | 24 | 89 | 20 | 20 | 21 | 12 | 35 |
| 65-74 | 284 | 18 | 126 | 24 | 84 | 27 | 2 | 9 | 31 | 25 | 27 | 6 | 10 | 11 | 4 | 12 |
| 75-84 | 64 | 4 | 24 | 5 | 19 | 6 | 1 | 5 | 8 | 6 | 3 | 1 | 8 | 9 | 1 | 3 |
| 85+ | 25 | 2 | 7 | 1 | 5 | 2 | 3 | 14 | 5 | 4 | 5 | 1 | – | – | – | – |
| **Race/ethnicity** | | | | | | | | | | | | | | | | |
| White only | 1,356 | 88 | 452 | 87 | 286 | 91 | 19 | 86 | 116 | 93 | 367 | 84 | 87 | 93 | 29 | 85 |
| Black only | 27 | 2 | 3 | 1 | 6 | 2 | – | – | 2 | 2 | 15 | 3 | – | – | 1 | 3 |
| Am. Indian only | 43 | 3 | 21 | 4 | 9 | 3 | 1 | 5 | 1 | 1 | 7 | 2 | 1 | 1 | 3 | 9 |
| Asian only | 8 | 1 | – | – | – | – | – | – | – | – | 7 | 2 | 1 | 1 | – | – |
| HI & Pac. Is. only | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Other & not stated | 4 | <0.5 | – | – | 3 | 1 | – | – | – | – | 1 | <0.5 | – | – | – | – |
| Multiple races | 26 | 2 | 9 | 2 | 3 | 1 | – | – | 2 | 2 | 11 | 3 | 1 | 1 | – | – |
| Hispanic[2] | 85 | 5 | 37 | 7 | 9 | 3 | 2 | 9 | 4 | 3 | 28 | 6 | 4 | 4 | 1 | 3 |
| **Education** | | | | | | | | | | | | | | | | |
| Less than high school | 248 | 16 | 73 | 14 | 39 | 12 | 4 | 18 | 31 | 25 | 83 | 19 | 9 | 10 | 9 | 26 |
| High school / GED | 635 | 41 | 221 | 42 | 148 | 47 | 11 | 50 | 47 | 38 | 177 | 41 | 23 | 24 | 8 | 24 |
| Some college | 423 | 27 | 141 | 27 | 76 | 24 | 7 | 32 | 31 | 25 | 122 | 28 | 38 | 40 | 8 | 24 |
| Bachelor's degree | 141 | 9 | 53 | 10 | 29 | 9 | – | – | 4 | 3 | 33 | 8 | 19 | 20 | 3 | 9 |
| Master's degree | 44 | 3 | 17 | 3 | 11 | 3 | – | – | 2 | 2 | 8 | 2 | 4 | 4 | 2 | 6 |
| Doc. or pro. degree | 12 | 1 | 8 | 2 | 1 | <0.5 | – | – | 1 | 1 | 1 | <0.5 | 1 | 1 | – | – |
| Not stated | 46 | 3 | 9 | 2 | 12 | 4 | – | – | 9 | 7 | 12 | 3 | – | – | 4 | 12 |

– Quantity is zero.
* Includes unknown sex.
1 Includes ICD-10 codes F11.1-F11.5, F11.7-F11.9, and R78.1. Does not include drug overdoses.
2 Decedents of Hispanic ethnicity may belong to any race but have been removed from all race categories in this table.
NOTE: Overdoses/poisonings are shown under "Unintentional injuries," "Suicides," or "Undetermined intent" in this table. See Table 6-35 for more information.

## TABLE 6-18. Deaths due to alcohol or drugs by county of residence, Oregon, 2017

| County of residence | Total | | Chronic alcoholic liver disease | | Other alcohol-induced | | Opioid use[1] | | Other drug-induced | | Unintended injuries | | Suicides | | Undetermined intent | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | % | # | % | # | % | # | % | # | % | # | % | # | % | # | % |
| Total | 1,549 | 100 | 522 | 100 | 316 | 100 | 22 | 100 | 125 | 100 | 436 | 100 | 94 | 100 | 34 | 100 |
| Baker | 11 | 1 | 5 | 1 | 2 | 1 | – | – | 1 | 1 | 2 | <0.5 | 1 | 1 | – | – |
| Benton | 10 | 1 | 1 | <0.5 | 3 | 1 | 1 | 5 | 1 | 1 | 3 | 1 | 1 | 1 | – | – |
| Clackamas | 120 | 8 | 45 | 9 | 25 | 8 | – | – | 15 | 12 | 25 | 6 | 7 | 7 | 3 | 9 |
| Clatsop | 17 | 1 | 11 | 2 | 3 | 1 | – | – | 1 | 1 | 1 | <0.5 | 1 | 1 | – | – |
| Columbia | 13 | 1 | 4 | 1 | 2 | 1 | – | – | – | – | 6 | 1 | 1 | 1 | – | – |
| Coos | 55 | 4 | 22 | 4 | 11 | 3 | – | – | 9 | 7 | 13 | 3 | – | – | – | – |
| Crook | 8 | 1 | 4 | 1 | 1 | <0.5 | 1 | 5 | – | – | 1 | <0.5 | 1 | 1 | – | – |
| Curry | 16 | 1 | 8 | 2 | 1 | <0.5 | – | – | – | – | 3 | 1 | 2 | 2 | 2 | 6 |
| Deschutes | 57 | 4 | 24 | 5 | 6 | 2 | 1 | 5 | 3 | 2 | 14 | 3 | 7 | 7 | 2 | 6 |
| Douglas | 53 | 3 | 23 | 4 | 13 | 4 | – | – | 3 | 2 | 10 | 2 | 4 | 4 | – | – |
| Grant | 2 | <0.5 | 2 | <0.5 | – | – | – | – | – | – | – | – | – | – | – | – |
| Harney | 4 | <0.5 | 3 | 1 | – | – | – | – | 1 | 1 | – | – | – | – | – | – |
| Hood River | 9 | 1 | 4 | 1 | 2 | 1 | – | – | – | – | 3 | 1 | – | – | – | – |
| Jackson | 94 | 6 | 36 | 7 | 16 | 5 | 2 | 9 | 13 | 10 | 16 | 4 | 10 | 11 | 1 | 3 |
| Jefferson | 9 | 1 | 1 | <0.5 | 4 | 1 | – | – | 1 | 1 | 3 | 1 | – | – | – | – |
| Josephine | 60 | 4 | 18 | 3 | 17 | 5 | – | – | 6 | 5 | 17 | 4 | 2 | 2 | – | – |
| Klamath | 44 | 3 | 18 | 3 | 10 | 3 | – | – | 5 | 4 | 7 | 2 | 3 | 3 | 1 | 3 |
| Lane | 175 | 11 | 49 | 9 | 37 | 12 | 2 | 9 | 11 | 9 | 61 | 14 | 11 | 12 | 4 | 12 |
| Lincoln | 30 | 2 | 11 | 2 | 6 | 2 | 1 | 5 | 2 | 2 | 3 | 1 | 6 | 6 | 1 | 3 |
| Linn | 47 | 3 | 22 | 4 | 11 | 3 | 1 | 5 | 3 | 2 | 5 | 1 | 3 | 3 | 2 | 6 |
| Malheur | 9 | 1 | 4 | 1 | 2 | 1 | – | – | – | – | 2 | <0.5 | 1 | 1 | – | – |
| Marion | 110 | 7 | 30 | 6 | 22 | 7 | 2 | 9 | 12 | 10 | 34 | 8 | 7 | 7 | 3 | 9 |
| Morrow | 1 | <0.5 | – | – | – | – | – | – | 1 | 1 | – | – | – | – | – | – |
| Multnomah | 330 | 21 | 72 | 14 | 64 | 20 | 9 | 41 | 24 | 19 | 141 | 32 | 13 | 14 | 7 | 21 |
| Polk | 29 | 2 | 9 | 2 | 12 | 4 | – | – | 3 | 2 | 4 | 1 | 1 | 1 | – | – |
| Tillamook | 16 | 1 | 7 | 1 | 2 | 1 | – | – | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 6 |
| Umatilla | 36 | 2 | 20 | 4 | 6 | 2 | – | – | 1 | 1 | 8 | 2 | – | – | 1 | 3 |
| Union | 10 | 1 | 2 | <0.5 | 3 | 1 | – | – | 1 | 1 | 4 | 1 | – | – | – | – |
| Wallowa | 3 | <0.5 | – | – | 1 | <0.5 | – | – | 1 | 1 | 1 | <0.5 | – | – | – | – |
| Wasco | 12 | 1 | 4 | 1 | 4 | 1 | – | – | – | – | 3 | 1 | 1 | 1 | – | – |
| Washington | 125 | 8 | 51 | 10 | 25 | 8 | 1 | 5 | 5 | 4 | 30 | 7 | 8 | 9 | 5 | 15 |
| Wheeler | 2 | <0.5 | – | – | 2 | 1 | – | – | – | – | – | – | – | – | – | – |
| Yamhill | 32 | 2 | 12 | 2 | 3 | 1 | 1 | 5 | 1 | 1 | 13 | 3 | 2 | 2 | – | – |

– Quantity is zero.
[1] Includes ICD-10 codes F11.1-F11.5, F11.7-F11.9, and R78.1. Does not include drug overdoses.
NOTE: Overdoses/poisonings are shown under "Unintentional injuries," "Suicides," or "Undetermined intent" in this table. See Table 6-35 for more information.

**TABLE 6-19. Tobacco-linked deaths by sex, age, and education, Oregon residents, 2017**

| Sex, age, and education | Total | Linked [1] | | Not linked | | Unknown | |
|---|---|---|---|---|---|---|---|
| | | Number | Percent | Number | Percent | Number | Percent |
| Both sexes* | | | | | | | |
| Total | 36,640 | 7,843 | 21.4 | 20,053 | 54.7 | 8,744 | 23.9 |
| <25[2] | 702 | 4 | 0.6 | 652 | 92.9 | 46 | 6.6 |
| 25-34 | 552 | 13 | 2.4 | 479 | 86.8 | 60 | 10.9 |
| 35-44 | 861 | 71 | 8.2 | 613 | 71.2 | 177 | 20.6 |
| 45-54 | 1,808 | 375 | 20.7 | 987 | 54.6 | 446 | 24.7 |
| 55-64 | 4,610 | 1,434 | 31.1 | 2,099 | 45.5 | 1,077 | 23.4 |
| 65-74 | 7,173 | 2,289 | 31.9 | 3,207 | 44.7 | 1,677 | 23.4 |
| 75-84 | 8,685 | 2,215 | 25.5 | 4,287 | 49.4 | 2,183 | 25.1 |
| 85-94 | 9,708 | 1,305 | 13.4 | 5,888 | 60.7 | 2,515 | 25.9 |
| 95+ | 2,541 | 137 | 5.4 | 1,841 | 72.5 | 563 | 22.2 |
| *Median* | *78* | *73* | ~ | *80* | ~ | *79* | ~ |
| Male | | | | | | | |
| Total | 18,689 | 4,608 | 24.7 | 9,310 | 49.8 | 4,771 | 25.5 |
| <25[2] | 448 | 3 | 0.7 | 414 | 92.4 | 31 | 6.9 |
| 25-34 | 394 | 6 | 1.5 | 345 | 87.6 | 43 | 10.9 |
| 35-44 | 522 | 47 | 9.0 | 370 | 70.9 | 105 | 20.1 |
| 45-54 | 1,084 | 239 | 22.0 | 575 | 53.0 | 270 | 24.9 |
| 55-64 | 2,813 | 895 | 31.8 | 1,209 | 43.0 | 709 | 25.2 |
| 65-74 | 4,183 | 1,426 | 34.1 | 1,694 | 40.5 | 1,063 | 25.4 |
| 75-84 | 4,535 | 1,239 | 27.3 | 2,054 | 45.3 | 1,242 | 27.4 |
| 85-94 | 4,031 | 696 | 17.3 | 2,199 | 54.6 | 1,136 | 28.2 |
| 95+ | 679 | 57 | 8.4 | 450 | 66.3 | 172 | 25.3 |
| *Median* | *74* | *72* | ~ | *75* | ~ | *76* | ~ |
| Female | | | | | | | |
| Total | 17,949 | 3,234 | 18.0 | 10,743 | 59.9 | 3,972 | 22.1 |
| <25[2] | 254 | 1 | 0.4 | 238 | 93.7 | 15 | 5.9 |
| 25-34 | 157 | 7 | 4.5 | 134 | 85.4 | 16 | 10.2 |
| 35-44 | 339 | 24 | 7.1 | 243 | 71.7 | 72 | 21.2 |
| 45-54 | 724 | 136 | 18.8 | 412 | 56.9 | 176 | 24.3 |
| 55-64 | 1,796 | 538 | 30.0 | 890 | 49.6 | 368 | 20.5 |
| 65-74 | 2,990 | 863 | 28.9 | 1,513 | 50.6 | 614 | 20.5 |
| 75-84 | 4,150 | 976 | 23.5 | 2,233 | 53.8 | 941 | 22.7 |
| 85-94 | 5,677 | 609 | 10.7 | 3,689 | 65.0 | 1,379 | 24.3 |
| 95+ | 1,862 | 80 | 4.3 | 1,391 | 74.7 | 391 | 21.0 |
| *Median* | *81* | *75* | ~ | *83* | ~ | *82* | ~ |
| **Education**[3] | | | | | | | |
| 8th grade or less | 2,032 | 421 | 20.7 | 1,111 | 54.7 | 500 | 24.6 |
| 9th-12th, no diploma | 3,225 | 971 | 30.1 | 1,481 | 45.9 | 773 | 24.0 |
| High school/GED | 14,205 | 3,406 | 24.0 | 7,282 | 51.3 | 3,517 | 24.8 |
| Some college | 6,749 | 1,508 | 22.3 | 3,596 | 53.3 | 1,645 | 24.4 |
| Associate degree | 2,351 | 476 | 20.2 | 1,316 | 56.0 | 559 | 23.8 |
| Bachelor's degree | 4,262 | 617 | 14.5 | 2,705 | 63.5 | 940 | 22.1 |
| Master's degree | 1,819 | 185 | 10.2 | 1,189 | 65.4 | 445 | 24.5 |
| Doc. or pro. degree | 745 | 86 | 11.5 | 503 | 67.5 | 156 | 20.9 |
| Not stated | 550 | 169 | 30.7 | 218 | 39.6 | 163 | 29.6 |

* Includes unknown sex.

1 The Oregon death certificate provides four possible answers to the question, "Did tobacco use contribute to death?": yes, probably, no and unknown. The linked category includes deaths listed as yes or probably, or if a contributing cause is F17.

2 The number of infant deaths due to exposure to tobacco combustion products is underreported.

3 Excludes decedents under 25 years of age.

**TABLE 6-20. Tobacco-linked deaths by cause of death, Oregon residents, 2017**

| Selected causes of death (and their ICD-10 codes) | Total | Linked [1] | | Not linked | | Unknown | |
|---|---|---|---|---|---|---|---|
| | | Number | Percent | Number | Percent | Number | Percent |
| Total [2] | 36,640 | 7,843 | 21.4 | 20,053 | 54.7 | 8,744 | 23.9 |
| Malignant neoplasms | 3,670 | 1,830 | 49.9 | 1,159 | 31.6 | 681 | 18.6 |
| Oral cavity, lip, pharynx (C00.0-C14.8) | 145 | 68 | 46.9 | 44 | 30.3 | 33 | 22.8 |
| Esophagus (C15) | 249 | 109 | 43.8 | 88 | 35.3 | 52 | 20.9 |
| Stomach (C16) | 97 | 22 | 22.7 | 40 | 41.2 | 35 | 36.1 |
| Pancreas (C25) | 640 | 87 | 13.6 | 416 | 65.0 | 137 | 21.4 |
| Larynx (C32) | 27 | 19 | 70.4 | 2 | 7.4 | 6 | 22.2 |
| Lung, bronchi, and trachea (C33-C34) | 1,865 | 1,401 | 75.1 | 210 | 11.3 | 254 | 13.6 |
| Cervix uteri (C53) | 47 | 4 | 8.5 | 30 | 63.8 | 13 | 27.7 |
| Kidney, other urinary tract (C64-C65) | 190 | 33 | 17.4 | 103 | 54.2 | 54 | 28.4 |
| Urinary bladder (C67) | 254 | 83 | 32.7 | 93 | 36.6 | 78 | 30.7 |
| Acute myeloid leukemia (C92.0) | 156 | 4 | 2.6 | 133 | 85.3 | 19 | 12.2 |
| Cardiovascular disease | 9,009 | 2,048 | 22.7 | 4,226 | 46.9 | 2,735 | 30.4 |
| Ischemic heart disease (I20-I25) | 3,387 | 1,098 | 32.4 | 1,323 | 39.1 | 966 | 28.5 |
| Other heart disease (I00-I09, I26-I51) | 3,198 | 525 | 16.4 | 1,730 | 54.1 | 943 | 29.5 |
| Cerebrovascular disease (I60-I69) | 2,066 | 304 | 14.7 | 1,039 | 50.3 | 723 | 35.0 |
| Atherosclerosis (I70) | 31 | 12 | 38.7 | 10 | 32.3 | 9 | 29.0 |
| Aortic aneurysm (I71) | 179 | 58 | 32.4 | 64 | 35.8 | 57 | 31.8 |
| Other arterial disease (I72-I78) | 148 | 51 | 34.5 | 60 | 40.5 | 37 | 25.0 |
| Respiratory diseases | 2,577 | 1,698 | 65.9 | 482 | 18.7 | 397 | 15.4 |
| Pneumonia and influenza (J09-J18) | 573 | 83 | 14.5 | 334 | 58.3 | 156 | 27.2 |
| Bronchitis and emphysema (J40-J43) | 153 | 129 | 84.3 | 13 | 8.5 | 11 | 7.2 |
| Other chronic airways obstruction (J44) | 1,851 | 1,486 | 80.3 | 135 | 7.3 | 230 | 12.4 |
| Perinatal conditions [3] | 67 | – | – | 64 | 95.5 | 3 | 4.5 |
| Selected perinatal conditions [4] | 46 | – | – | 45 | 97.8 | 1 | 2.2 |
| Sudden infant death syndrome (R95) | 21 | – | – | 19 | 90.5 | 2 | 9.5 |
| Other causes | 21,317 | 2,267 | 10.6 | 14,122 | 66.2 | 4,928 | 23.1 |

– Quantity is zero.

[1] The Oregon death certificate provides four possible answers to the question, "Did tobacco use contribute to death?": yes, probably, no and unknown. The linked category includes deaths listed as yes or probably, or if a contributing cause is F17.

[2] The causes of death shown in this table are those linked to tobacco use by the federal Centers for Disease Control and Prevention (CDC. Annual Smoking-Attributable Mortality, Years of Potential Life Lost, and Productivity Losses -- United States, 1997-2001. MMWR 2005; 54:625-628.).

[3] The number of infant deaths resulting from exposure to tobacco combustion products is underreported.

[4] The category includes the following conditions: other disorders related to short gestation and low birthweight (P07), respiratory distress of newborn (P22), congenital pneumonia (P23), neonatal aspiration syndromes (P24), and other respiratory conditions originating in the perinatal period (P25-P28).

**TABLE 6-21. Tobacco-linked deaths by county of residence, Oregon, 2017**

| County of residence | Total | Linked [1] | | Not linked | | Unknown | |
|---|---|---|---|---|---|---|---|
| | | Number | Percent | Number | Percent | Number | Percent |
| Total | 36,640 | 7,843 | 21.4 | 20,053 | 54.7 | 8,744 | 23.9 |
| Baker | 208 | 57 | 27.4 | 124 | 59.6 | 27 | 13.0 |
| Benton | 590 | 92 | 15.6 | 357 | 60.5 | 141 | 23.9 |
| Clackamas | 3,409 | 679 | 19.9 | 1,946 | 57.1 | 784 | 23.0 |
| Clatsop | 437 | 107 | 24.5 | 217 | 49.7 | 113 | 25.9 |
| Columbia | 461 | 125 | 27.1 | 195 | 42.3 | 141 | 30.6 |
| Coos | 974 | 290 | 29.8 | 442 | 45.4 | 242 | 24.8 |
| Crook | 274 | 60 | 21.9 | 132 | 48.2 | 82 | 29.9 |
| Curry | 375 | 80 | 21.3 | 149 | 39.7 | 146 | 38.9 |
| Deschutes | 1,516 | 278 | 18.3 | 799 | 52.7 | 439 | 29.0 |
| Douglas | 1,554 | 418 | 26.9 | 821 | 52.8 | 315 | 20.3 |
| Gilliam | 21 | 6 | 28.6 | 12 | 57.1 | 3 | 14.3 |
| Grant | 94 | 27 | 28.7 | 45 | 47.9 | 22 | 23.4 |
| Harney | 66 | 14 | 21.2 | 41 | 62.1 | 11 | 16.7 |
| Hood River | 190 | 41 | 21.6 | 115 | 60.5 | 34 | 17.9 |
| Jackson | 2,470 | 515 | 20.9 | 1,464 | 59.3 | 491 | 19.9 |
| Jefferson | 201 | 49 | 24.4 | 112 | 55.7 | 40 | 19.9 |
| Josephine | 1,235 | 325 | 26.3 | 629 | 50.9 | 281 | 22.8 |
| Klamath | 833 | 207 | 24.8 | 442 | 53.1 | 184 | 22.1 |
| Lake | 75 | 15 | 20.0 | 41 | 54.7 | 19 | 25.3 |
| Lane | 3,720 | 735 | 19.8 | 1,980 | 53.2 | 1,005 | 27.0 |
| Lincoln | 652 | 182 | 27.9 | 376 | 57.7 | 94 | 14.4 |
| Linn | 1,321 | 290 | 22.0 | 671 | 50.8 | 360 | 27.3 |
| Malheur | 323 | 71 | 22.0 | 201 | 62.2 | 51 | 15.8 |
| Marion | 2,879 | 591 | 20.5 | 1,535 | 53.3 | 753 | 26.2 |
| Morrow | 73 | 15 | 20.5 | 41 | 56.2 | 17 | 23.3 |
| Multnomah | 5,821 | 1,203 | 20.7 | 3,274 | 56.2 | 1,344 | 23.1 |
| Polk | 718 | 151 | 21.0 | 385 | 53.6 | 182 | 25.3 |
| Sherman | 19 | 5 | 26.3 | 11 | 57.9 | 3 | 15.8 |
| Tillamook | 302 | 96 | 31.8 | 141 | 46.7 | 65 | 21.5 |
| Umatilla | 658 | 174 | 26.4 | 334 | 50.8 | 150 | 22.8 |
| Union | 265 | 61 | 23.0 | 115 | 43.4 | 89 | 33.6 |
| Wallowa | 89 | 20 | 22.5 | 60 | 67.4 | 9 | 10.1 |
| Wasco | 334 | 76 | 22.8 | 182 | 54.5 | 76 | 22.8 |
| Washington | 3,433 | 570 | 16.6 | 2,049 | 59.7 | 814 | 23.7 |
| Wheeler | 17 | 2 | 11.8 | 9 | 52.9 | 6 | 35.3 |
| Yamhill | 1,032 | 216 | 20.9 | 605 | 58.6 | 211 | 20.4 |
| Unknown | 1 | – | – | 1 | 100.0 | – | – |

– Quantity is zero.

[1] The Oregon death certificate provides four possible answers to the question, "Did tobacco use contribute to death?": yes, probably, no and unknown. The linked category includes deaths listed as yes or probably, or if a contributing cause is F17.

**TABLE 6-22. Selected causes of death among adult males by veteran status and age, Oregon residents, 2017**

| Selected causes of death | All males, age 18+ | | Male veteran age groups[2] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total (18+) | | 18-34 | | 35-54 | | 55-74 | | 75+ | |
| | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] |
| **Total** | 18,448 | 1170.9 | 9,108 | 3274.0 | 38 | 186.5 | 177 | 312.5 | 2,645 | 2012.8 | 6,248 | 8955.5 |
| Infections & parasitic disease | 358 | 22.7 | 148 | 53.2 | – | – | 2 | 3.5 | 65 | 49.5 | 81 | 116.1 |
| Septicemia | 119 | 7.6 | 53 | 19.1 | – | – | – | – | 21 | 16.0 | 32 | 45.9 |
| Viral hepatitis | 89 | 5.6 | 28 | 10.1 | – | – | 1 | 1.8 | 24 | 18.3 | 3 | 4.3 |
| HIV disease | 34 | 2.2 | 8 | 2.9 | – | – | 1 | 1.8 | 7 | 5.3 | – | – |
| Malignant neoplasms | 4,181 | 265.4 | 2,024 | 727.6 | 1 | 4.9 | 31 | 54.7 | 816 | 620.9 | 1,176 | 1685.6 |
| Colon | 213 | 13.5 | 89 | 32.0 | – | – | 2 | 3.5 | 33 | 25.1 | 54 | 77.4 |
| Pancreas | 326 | 20.7 | 143 | 51.4 | – | – | 5 | 8.8 | 62 | 47.2 | 76 | 108.9 |
| Bronchus & lung | 922 | 58.5 | 482 | 173.3 | – | – | 5 | 8.8 | 220 | 167.4 | 257 | 368.4 |
| Skin | 136 | 8.6 | 65 | 23.4 | – | – | – | – | 20 | 15.2 | 45 | 64.5 |
| Breast | 10 | 0.6 | 5 | 1.8 | – | – | – | – | 1 | 0.8 | 4 | 5.7 |
| Prostate | 441 | 28.0 | 246 | 88.4 | – | – | – | – | 66 | 50.2 | 180 | 258.0 |
| Kidney & renal pelvis | 131 | 8.3 | 73 | 26.2 | – | – | 1 | 1.8 | 34 | 25.9 | 38 | 54.5 |
| Bladder | 173 | 11.0 | 99 | 35.6 | – | – | – | – | 24 | 18.3 | 75 | 107.5 |
| Brain | 137 | 8.7 | 41 | 14.7 | 1 | 4.9 | 2 | 3.5 | 22 | 16.7 | 16 | 22.9 |
| Lymphatic | 445 | 28.2 | 216 | 77.6 | – | – | 4 | 7.1 | 74 | 56.3 | 138 | 197.8 |
| Non-Hodgkin's lymphoma | 149 | 9.5 | 62 | 22.3 | – | – | 2 | 3.5 | 25 | 19.0 | 35 | 50.2 |
| Leukemia | 191 | 12.1 | 99 | 35.6 | – | – | 1 | 1.8 | 29 | 22.1 | 69 | 98.9 |
| Benign & uncertain neoplasms | 120 | 7.6 | 71 | 25.5 | – | – | – | – | 20 | 15.2 | 51 | 73.1 |
| Diabetes mellitus | 707 | 44.9 | 326 | 117.2 | – | – | 5 | 8.8 | 130 | 98.9 | 191 | 273.8 |
| Organic dementia | 730 | 46.3 | 493 | 177.2 | – | – | – | – | 40 | 30.4 | 453 | 649.3 |
| Parkinson's disease | 305 | 19.4 | 199 | 71.5 | – | – | – | – | 27 | 20.5 | 172 | 246.5 |
| Alzheimer's disease | 569 | 36.1 | 405 | 145.6 | – | – | – | – | 21 | 16.0 | 384 | 550.4 |
| Diseases of circulatory sys. | 5,148 | 326.7 | 2,812 | 1010.8 | – | – | 35 | 61.8 | 658 | 500.7 | 2,119 | 3037.3 |
| Heart disease | 3,760 | 238.6 | 2,063 | 741.6 | – | – | 24 | 42.4 | 494 | 375.9 | 1,545 | 2214.5 |
| Ischemic heart disease | 2,168 | 137.6 | 1,165 | 418.8 | – | – | 18 | 31.8 | 340 | 258.7 | 807 | 1156.7 |
| Cerebrovascular disease | 889 | 56.4 | 490 | 176.1 | – | – | 4 | 7.1 | 104 | 79.1 | 382 | 547.5 |
| Intracerebral hemorrhage | 189 | 12.0 | 100 | 35.9 | – | – | 1 | 1.8 | 27 | 20.5 | 72 | 103.2 |
| Cerebral infarction | 100 | 6.3 | 51 | 18.3 | – | – | 1 | 1.8 | 15 | 11.4 | 35 | 50.2 |
| Stroke, unspecified type | 311 | 19.7 | 175 | 62.9 | – | – | 1 | 1.8 | 31 | 23.6 | 143 | 205.0 |
| Hypertension & hyp. renal dis. | 272 | 17.3 | 134 | 48.2 | – | – | 4 | 7.1 | 30 | 22.8 | 100 | 143.3 |
| Aortic aneurysm | 110 | 7.0 | 59 | 21.2 | – | – | 3 | 5.3 | 13 | 9.9 | 43 | 61.6 |
| Influenza & pneumonia | 280 | 17.8 | 149 | 53.6 | – | – | 1 | 1.8 | 33 | 25.1 | 115 | 164.8 |
| Chronic lower respiratory dis. | 949 | 60.2 | 547 | 196.6 | – | – | 2 | 3.5 | 202 | 153.7 | 343 | 491.6 |
| Diseases of digestive sys. | 890 | 56.5 | 327 | 117.5 | 1 | 4.9 | 10 | 17.7 | 118 | 89.8 | 198 | 283.8 |
| Dis. of genitourinary sys. | 322 | 20.4 | 169 | 60.7 | – | – | 2 | 3.5 | 37 | 28.2 | 130 | 186.3 |
| Nephritis | 203 | 12.9 | 107 | 38.5 | – | – | 2 | 3.5 | 27 | 20.5 | 78 | 111.8 |
| Congenital malformations | 44 | 2.8 | 9 | 3.2 | 1 | 4.9 | – | – | 2 | 1.5 | 6 | 8.6 |
| Unintentional injuries | 1,221 | 77.5 | 408 | 146.7 | 12 | 58.9 | 29 | 51.2 | 118 | 89.8 | 249 | 356.9 |
| Suicide | 608 | 38.6 | 159 | 57.2 | 18 | 88.4 | 36 | 63.6 | 61 | 46.4 | 44 | 63.1 |
| Homicide | 90 | 5.7 | 11 | 4.0 | 1 | 4.9 | 2 | 3.5 | 6 | 4.6 | 2 | 2.9 |
| Undetermined intent | 30 | 1.9 | 4 | 1.4 | – | – | – | – | 3 | 2.3 | 1 | 1.4 |
| *Alcohol-induced*[3] | 622 | 39.5 | 150 | 53.9 | 2 | 9.8 | 17 | 30.0 | 104 | 79.1 | 27 | 38.7 |
| *Drug-induced*[3] | 417 | 26.5 | 74 | 26.6 | 6 | 29.5 | 16 | 28.2 | 43 | 32.7 | 9 | 12.9 |
| *Injury by firearms*[3] | 431 | 27.4 | 132 | 47.4 | 17 | 83.5 | 24 | 42.4 | 51 | 38.8 | 40 | 57.3 |

– Quantity is zero.
1 Rates per 100,000 population. Rates were calculated using 2017 population estimates from Portland State University (Appendix A) and 2017 veteran population estimates from the United States Department of Veteran Affairs (http://www1.va.gov/vetdata/Veteran_Population.asp).
2 Excludes blank and unknown veteran status.
3 See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
WARNING: Rates based on less than five events are unreliable.

## TABLE 6-23. Selected causes of death among adult males by veteran and combat status and age, Oregon occurrence, 2015-2017

| Selected causes of death | All males, age 18+[1] | | Non-veteran | | | | Veteran | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 18-49 | | 50 or greater | | Combat | | | | Non-combat | | | | Unk. combat status | | | |
| | | | | | | | 18-49 | | 50 or greater | | 18-49 | | 50 or greater | | 18-49 | | 50 or greater | |
| | No. | Col % | No. | Col % | No. | Col % | No. | Col % | No. | Col % | No. | Col % | No. | Col % | No. | Col % | No. | Col % |
| **Total**[2] | 54,526 | 100.0 | 4,277 | 100.0 | 21,974 | 100.0 | 116 | 100.0 | 9,285 | 100.0 | 228 | 100.0 | 13,210 | 100.0 | 45 | 100.0 | 4,942 | 100.0 |
| Malignant neoplasms | 12,608 | 23.1 | 380 | 8.9 | 5,747 | 26.2 | 12 | 10.3 | 1,984 | 21.4 | 29 | 12.7 | 3,313 | 25.1 | 6 | 13.3 | 1,061 | 21.5 |
| Heart disease | 11,224 | 20.6 | 401 | 9.4 | 4,401 | 20.0 | 6 | 5.2 | 2,267 | 24.4 | 15 | 6.6 | 2,957 | 22.4 | 4 | 8.9 | 1,098 | 22.2 |
| Unintentional injuries | 3,659 | 6.7 | 1,278 | 29.9 | 1,154 | 5.3 | 30 | 25.9 | 359 | 3.9 | 51 | 22.4 | 533 | 4.0 | 10 | 22.2 | 214 | 4.3 |
| Chronic lower respiratory dis. | 2,902 | 5.3 | 27 | 0.6 | 1,115 | 5.1 | – | – | 592 | 6.4 | 1 | 0.4 | 784 | 5.9 | 1 | 2.2 | 348 | 7.0 |
| Cerebrovascular disease | 2,486 | 4.6 | 72 | 1.7 | 992 | 4.5 | 1 | 0.9 | 473 | 5.1 | 4 | 1.8 | 666 | 5.0 | – | – | 253 | 5.1 |
| Diabetes mellitus | 2,064 | 3.8 | 126 | 2.9 | 941 | 4.3 | 2 | 1.7 | 344 | 3.7 | 7 | 3.1 | 456 | 3.5 | 1 | 2.2 | 169 | 3.4 |
| Alzheimer's disease | 1,633 | 3.0 | 1 | >0 | 463 | 2.1 | – | – | 428 | 4.6 | – | – | 535 | 4.0 | – | – | 204 | 4.1 |
| Hypertension & hyp. renal dis. | 792 | 1.5 | 21 | 0.5 | 345 | 1.6 | 2 | 1.7 | 144 | 1.6 | 3 | 1.3 | 182 | 1.4 | 3 | 6.7 | 86 | 1.7 |
| Parkinson's disease | 845 | 1.5 | 1 | >0 | 301 | 1.4 | – | – | 166 | 1.8 | – | – | 287 | 2.2 | – | – | 89 | 1.8 |
| Influenza & pneumonia | 700 | 1.3 | 32 | 0.7 | 259 | 1.2 | – | – | 140 | 1.5 | – | – | 187 | 1.4 | 1 | 2.2 | 72 | 1.5 |
| Viral hepatitis | 317 | 0.6 | 20 | 0.5 | 185 | 0.8 | – | – | 28 | 0.3 | 2 | 0.9 | 49 | 0.4 | – | – | 28 | 0.6 |
| Nephritis | 626 | 1.1 | 23 | 0.5 | 244 | 1.1 | – | – | 121 | 1.3 | 3 | 1.3 | 158 | 1.2 | – | – | 72 | 1.5 |
| Benign & uncertain neoplasms | 371 | 0.7 | 13 | 0.3 | 146 | 0.7 | – | – | 68 | 0.7 | 1 | 0.4 | 115 | 0.9 | – | – | 28 | 0.6 |
| Septicemia | 357 | 0.7 | 20 | 0.5 | 149 | 0.7 | – | – | 56 | 0.6 | – | – | 95 | 0.7 | – | – | 25 | 0.5 |
| Aortic aneurysm | 273 | 0.5 | 8 | 0.2 | 112 | 0.5 | 2 | 1.7 | 46 | 0.5 | 1 | 0.4 | 78 | 0.6 | – | – | 25 | 0.5 |
| Pneumonitis due to solids & liquids | 252 | 0.5 | 6 | 0.1 | 92 | 0.4 | – | – | 55 | 0.6 | – | – | 58 | 0.4 | – | – | 40 | 0.8 |
| Amyotrophic lateral sclerosis | 189 | 0.3 | 12 | 0.3 | 100 | 0.5 | – | – | 22 | 0.2 | – | – | 47 | 0.4 | – | – | 8 | 0.2 |
| Congenital malformations | 127 | 0.2 | 37 | 0.9 | 64 | 0.3 | – | – | 5 | 0.1 | 2 | 0.9 | 13 | 0.1 | – | – | 5 | 0.1 |
| Suicide | 1,787 | 3.3 | 768 | 18.0 | 540 | 2.5 | 43 | 37.1 | 107 | 1.2 | 67 | 29.4 | 198 | 1.5 | 7 | 15.6 | 47 | 1.0 |
| Homicide | 273 | 0.5 | 177 | 4.1 | 58 | 0.3 | 2 | 1.7 | 5 | 0.1 | 8 | 3.5 | 18 | 0.1 | – | – | 3 | 0.1 |
| Undetermined intent | 118 | 0.2 | 67 | 1.6 | 32 | 0.1 | 2 | 1.7 | – | – | 1 | 0.4 | 11 | 0.1 | – | – | 4 | 0.1 |
| Operations of war | 1 | >0 | – | – | – | – | – | – | 1 | >0 | – | – | – | – | – | – | – | – |
| *Injury by firearms*[3] | 1,278 | 2.3 | 527 | 12.3 | 365 | 1.7 | 35 | 30.2 | 89 | 1.0 | 53 | 23.2 | 162 | 1.2 | 3 | 6.7 | 39 | 0.8 |
| *Alcohol-induced*[3] | 1,864 | 3.4 | 325 | 7.6 | 997 | 4.5 | 9 | 7.8 | 132 | 1.4 | 10 | 4.4 | 243 | 1.8 | 6 | 13.3 | 106 | 2.1 |
| *Drug-induced*[3] | 1,186 | 2.2 | 569 | 13.3 | 370 | 1.7 | 16 | 13.8 | 44 | 0.5 | 28 | 12.3 | 102 | 0.8 | 5 | 11.1 | 37 | 0.7 |

– Quantity is zero.
1 Total includes all males age 18 and older with missing or unknown veteran status.
2 The causes in this table represent a selection of the total possible causes; the rows will not add up to the total.
3 See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
>0 Value too small to display.

## TABLE 6-24. Injury deaths by intent, mechanism of injury, and age, Oregon residents, 2017

| | Total | Age at death | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-9 | 10-14 | 15-17 | 18-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75+ |
| **Total external** | 3,164 | 20 | 23 | 15 | 29 | 34 | 52 | 175 | 361 | 363 | 378 | 440 | 360 | 914 |
| Cut/pierce | 38 | – | – | – | – | – | 1 | 3 | 3 | 5 | 10 | 10 | 4 | 2 |
| Drowning | 70 | 1 | 2 | 1 | 2 | 1 | 5 | 9 | 12 | 8 | 4 | 12 | 8 | 5 |
| Fall | 790 | – | – | – | – | 2 | 2 | 5 | 16 | 16 | 18 | 43 | 84 | 604 |
| Fire/hot object or substance | 42 | 1 | 3 | 3 | 3 | – | 1 | 1 | – | 8 | 4 | 4 | 4 | 10 |
| Firearm | 529 | – | – | 2 | 6 | 14 | 7 | 38 | 75 | 80 | 93 | 69 | 72 | 73 |
| Machinery | 9 | – | – | – | – | – | – | – | – | – | 2 | 4 | 1 | 2 |
| All transport[1] | 538 | 1 | 12 | 8 | 7 | 8 | 18 | 54 | 80 | 70 | 63 | 93 | 58 | 66 |
| Motor vehicle traffic | 473 | 1 | 7 | 6 | 7 | 7 | 17 | 51 | 74 | 63 | 50 | 82 | 52 | 56 |
| Other land transport[2] | 55 | – | 5 | 2 | – | 1 | 1 | 3 | 4 | 7 | 10 | 10 | 4 | 8 |
| Other transport | 10 | – | – | – | – | – | – | – | 2 | – | 3 | 1 | 2 | 2 |
| Natural/environmental | 23 | – | 1 | – | – | – | – | 2 | 1 | 4 | 4 | 2 | 4 | 5 |
| Poisoning | 618 | 1 | 1 | – | 1 | – | 8 | 46 | 114 | 118 | 127 | 131 | 48 | 23 |
| Struck by or against | 28 | – | 1 | 1 | 1 | – | – | – | 5 | 2 | 3 | 3 | 7 | 5 |
| Suffocation | 281 | 14 | 1 | – | 8 | 9 | 8 | 14 | 45 | 42 | 31 | 31 | 31 | 47 |
| Other and unspecified | 131 | 2 | 2 | – | 1 | – | 2 | 3 | 10 | 9 | 18 | 27 | 25 | 32 |
| Medical care complications | 67 | – | – | – | – | – | – | – | – | 1 | 1 | 11 | 14 | 40 |
| **Unintentional** | 2,073 | 16 | 20 | 13 | 13 | 10 | 30 | 101 | 200 | 197 | 196 | 270 | 227 | 780 |
| Cut/pierce | 2 | – | – | – | – | – | – | – | – | – | – | – | 1 | 1 |
| Drowning | 49 | 1 | 2 | 1 | 2 | 1 | 3 | 6 | 9 | 5 | 3 | 5 | 7 | 4 |
| Fall | 764 | – | – | – | – | 1 | 2 | 4 | 10 | 10 | 13 | 38 | 83 | 603 |
| Fire/hot object or substance | 36 | 1 | 3 | 3 | 3 | – | 1 | – | – | 6 | 4 | 4 | 1 | 10 |
| Firearm | 4 | – | – | – | – | – | – | – | 1 | – | – | – | 2 | 1 |
| Machinery | 9 | – | – | – | – | – | – | – | – | – | 2 | 4 | 1 | 2 |
| All transport[1] | 534 | 1 | 12 | 8 | 7 | 8 | 17 | 54 | 78 | 70 | 62 | 93 | 58 | 66 |
| Motor vehicle traffic | 473 | 1 | 7 | 6 | 7 | 7 | 17 | 51 | 74 | 63 | 50 | 82 | 52 | 56 |
| Other land transport[2] | 51 | – | 5 | 2 | – | 1 | – | 3 | 2 | 7 | 9 | 10 | 4 | 8 |
| Other transport | 10 | – | – | – | – | – | – | – | 2 | – | 3 | 1 | 2 | 2 |
| Natural/environmental | 23 | – | 1 | – | – | – | – | 2 | 1 | 4 | 4 | 2 | 4 | 5 |
| Poisoning | 450 | – | – | – | – | – | 7 | 35 | 94 | 92 | 92 | 93 | 27 | 10 |
| Struck by or against | 24 | – | 1 | 1 | 1 | – | – | – | 4 | 1 | 2 | 2 | 7 | 5 |
| Suffocation | 95 | 13 | 1 | – | – | – | – | – | 1 | 5 | 6 | 10 | 16 | 43 |
| Other and unspecified | 83 | – | – | – | – | – | – | – | 2 | 4 | 8 | 19 | 20 | 30 |

See footnotes at end of table.

## TABLE 6-24. Injury deaths by intent, mechanism of injury, and age, Oregon residents, 2017 — Continued

| | Total | Age at death | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <1 | 1-4 | 5-9 | 10-14 | 15-17 | 18-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75+ |
| **Suicide** | 825 | – | – | – | 10 | 21 | 18 | 58 | 123 | 131 | 150 | 126 | 102 | 86 |
| Cut/pierce | 20 | – | – | – | – | – | 1 | 1 | 1 | 4 | 7 | 6 | – | – |
| Drowning | 8 | – | – | – | – | – | – | – | 1 | 2 | 1 | 2 | 1 | 1 |
| Fall | 25 | – | – | – | – | 1 | – | 1 | 5 | 6 | 5 | 5 | 1 | 1 |
| Fire/hot object or substance | 2 | – | – | – | – | – | – | – | – | 1 | – | – | 1 | – |
| Firearm | 439 | – | – | – | 2 | 11 | 6 | 31 | 53 | 59 | 78 | 65 | 66 | 68 |
| All transport[1] | 2 | – | – | – | – | – | 1 | – | – | – | 1 | – | – | – |
| Other land transport[2] | 2 | – | – | – | – | – | 1 | – | – | – | 1 | – | – | – |
| Poisoning | 130 | – | – | – | 1 | – | – | 8 | 18 | 22 | 28 | 26 | 16 | 11 |
| Suffocation | 180 | – | – | – | 7 | 9 | 8 | 14 | 43 | 35 | 25 | 21 | 14 | 4 |
| Other and unspecified | 19 | – | – | – | – | – | 2 | 3 | 2 | 2 | 5 | 1 | 3 | 1 |
| **Homicide** | 128 | 3 | 2 | 2 | 5 | 1 | 1 | 9 | 28 | 25 | 22 | 14 | 11 | 5 |
| Cut/pierce | 16 | – | – | – | – | – | – | 2 | 2 | 1 | 3 | 4 | 3 | 1 |
| Fire/hot object or substance | 4 | – | – | – | – | – | – | 1 | – | 1 | – | – | 2 | – |
| Firearm | 74 | – | – | 2 | 4 | 1 | 1 | 6 | 18 | 18 | 13 | 4 | 3 | 4 |
| All transport[1] | 1 | – | – | – | – | – | – | – | 1 | – | – | – | – | – |
| Other land transport[2] | 1 | – | – | – | – | – | – | – | 1 | – | – | – | – | – |
| Poisoning | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – |
| Struck by or against | 4 | – | – | – | – | – | – | – | 1 | 1 | 1 | 1 | – | – |
| Suffocation | 4 | – | – | – | – | – | – | – | 1 | 2 | – | – | 1 | – |
| Other and unspecified | 24 | 2 | 2 | – | 1 | – | – | – | 5 | 2 | 5 | 5 | 2 | – |
| **Undetermined** | 60 | 1 | 1 | – | 1 | – | 3 | 6 | 7 | 6 | 8 | 19 | 5 | 3 |
| Drowning | 13 | – | – | – | – | – | 2 | 3 | 2 | 1 | – | 5 | – | – |
| Fall | 1 | – | – | – | – | – | – | – | 1 | – | – | – | – | – |
| Firearm | 1 | – | – | – | – | – | – | – | – | – | 1 | – | – | – |
| All transport[1] | 1 | – | – | – | – | – | – | – | 1 | – | – | – | – | – |
| Other land transport[2] | 1 | – | – | – | – | – | – | – | 1 | – | – | – | – | – |
| Poisoning | 37 | – | 1 | – | – | – | 1 | 3 | 2 | 4 | 7 | 12 | 5 | 2 |
| Suffocation | 2 | 1 | – | – | 1 | – | – | – | – | – | – | – | – | – |
| Other and unspecified | 5 | – | – | – | – | – | – | – | 1 | 1 | – | 2 | – | 1 |
| **Legal intervention/war**[3] | 11 | – | – | – | – | 2 | – | 1 | 3 | 3 | 1 | – | 1 | – |
| Firearm | 11 | – | – | – | – | 2 | – | 1 | 3 | 3 | 1 | – | 1 | – |

– Quantity is zero.
1 Excludes late effects of transport accidents (ICD-10 code Y85).
2 Includes non-traffic accidents involving pedestrians or cyclists (see Table 6-26).
3 Includes late effects of injuries sustained in war. Oregon residents who died outside the U.S. while on active duty are not reported to the Center for Health Statistics.

## TABLE 6-25. Injury death rates by intent, mechanism of injury, and age, Oregon residents, 2017

| | Total | Rate[1] | Age at death | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | <1 | 1-4 | 5-9 | 10-14 | 15-17 | 18-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75+ |
| **Total external** | 3,164 | 76.4 | 45.8 | 10.8 | 6.1 | 11.4 | 22.1 | 49.2 | 67.6 | 64.9 | 66.8 | 72.7 | 82.3 | 85.4 | 314.8 |
| Cut/pierce | 38 | 0.9 | – | – | – | – | – | 0.9 | 1.2 | 0.5 | 0.9 | 1.9 | 1.9 | 0.9 | 0.7 |
| Drowning | 70 | 1.7 | 2.3 | 0.9 | 0.4 | 0.8 | 0.6 | 4.7 | 3.5 | 2.2 | 1.5 | 0.8 | 2.2 | 1.9 | 1.7 |
| Fall | 790 | 19.1 | – | – | – | – | 1.3 | 1.9 | 1.9 | 2.9 | 2.9 | 3.5 | 8.0 | 19.9 | 208.0 |
| Fire/hot object or substance | 42 | 1.0 | 2.3 | 1.4 | 1.2 | 1.2 | – | 0.9 | 0.4 | – | 1.5 | 0.8 | 0.7 | 0.9 | 3.4 |
| Firearm | 529 | 12.8 | – | – | 0.8 | 2.4 | 9.1 | 6.6 | 14.7 | 13.5 | 14.7 | 17.9 | 12.9 | 17.1 | 25.1 |
| Machinery | 9 | 0.2 | – | – | – | – | – | – | – | – | – | 0.4 | 0.7 | 0.2 | 0.7 |
| All transport[2] | 538 | 13.0 | 2.3 | 5.7 | 3.2 | 2.7 | 5.2 | 17.0 | 20.9 | 14.4 | 12.9 | 12.1 | 17.4 | 13.8 | 22.7 |
| Motor vehicle traffic | 473 | 11.4 | 2.3 | 3.3 | 2.4 | 2.7 | 4.5 | 16.1 | 19.7 | 13.3 | 11.6 | 9.6 | 15.3 | 12.3 | 19.3 |
| Other land transport[3] | 55 | 1.3 | – | 2.4 | 0.8 | – | 0.6 | 0.9 | 1.2 | 0.7 | 1.3 | 1.9 | 1.9 | 0.9 | 2.8 |
| Other transport | 10 | 0.2 | – | – | – | – | – | – | – | 0.4 | – | 0.6 | 0.2 | 0.5 | 0.7 |
| Natural/environmental | 23 | 0.6 | – | 0.5 | – | – | – | – | 0.8 | 0.2 | 0.7 | 0.8 | 0.4 | 0.9 | 1.7 |
| Poisoning | 618 | 14.9 | 2.3 | 0.5 | – | 0.4 | – | 7.6 | 17.8 | 20.5 | 21.7 | 24.4 | 24.5 | 11.4 | 7.9 |
| Struck by or against | 28 | 0.7 | – | 0.5 | 0.4 | 0.4 | – | – | – | 0.9 | 0.4 | 0.6 | 0.6 | 1.7 | 1.7 |
| Suffocation | 281 | 6.8 | 32.1 | 0.5 | – | 3.1 | 5.8 | 7.6 | 5.4 | 8.1 | 7.7 | 6.0 | 5.8 | 7.4 | 16.2 |
| Other and unspecified | 131 | 3.2 | 4.6 | 0.9 | – | 0.4 | – | 1.9 | 1.2 | 1.8 | 1.7 | 3.5 | 5.1 | 5.9 | 11.0 |
| Medical care complications | 67 | 1.6 | – | – | – | – | – | – | – | – | 0.2 | 0.2 | 2.1 | 3.3 | 13.8 |
| **Unintentional** | 2,073 | 50.1 | 36.7 | 9.4 | 5.3 | 5.1 | 6.5 | 28.4 | 39.0 | 36.0 | 36.3 | 37.7 | 50.5 | 53.9 | 268.6 |
| Cut/pierce | 2 | <.05 | – | – | – | – | – | – | – | – | – | – | – | 0.2 | 0.3 |
| Drowning | 49 | 1.2 | 2.3 | 0.9 | 0.4 | 0.8 | 0.6 | 2.8 | 2.3 | 1.6 | 0.9 | 0.6 | 0.9 | 1.7 | 1.4 |
| Fall | 764 | 18.4 | – | – | – | – | 0.6 | 1.9 | 1.5 | 1.8 | 1.8 | 2.5 | 7.1 | 19.7 | 207.7 |
| Fire/hot object or substance | 36 | 0.9 | 2.3 | 1.4 | 1.2 | 1.2 | – | 0.9 | – | – | 1.1 | 0.8 | 0.7 | 0.2 | 3.4 |
| Firearm | 4 | 0.1 | – | – | – | – | – | – | – | 0.2 | – | – | – | 0.5 | 0.3 |
| Machinery | 9 | 0.2 | – | – | – | – | – | – | – | – | – | 0.4 | 0.7 | 0.2 | 0.7 |
| All transport[2] | 534 | 12.9 | 2.3 | 5.7 | 3.2 | 2.7 | 5.2 | 16.1 | 20.9 | 14.0 | 12.9 | 11.9 | 17.4 | 13.8 | 22.7 |
| Motor vehicle traffic | 473 | 11.4 | 2.3 | 3.3 | 2.4 | 2.7 | 4.5 | 16.1 | 19.7 | 13.3 | 11.6 | 9.6 | 15.3 | 12.3 | 19.3 |
| Other land transport[3] | 51 | 1.2 | – | 2.4 | 0.8 | – | 0.6 | – | 1.2 | 0.4 | 1.3 | 1.7 | 1.9 | 0.9 | 2.8 |
| Other transport | 10 | 0.2 | – | – | – | – | – | – | – | 0.4 | – | 0.6 | 0.2 | 0.5 | 0.7 |
| Natural/environmental | 23 | 0.6 | – | 0.5 | – | – | – | – | 0.8 | 0.2 | 0.7 | 0.8 | 0.4 | 0.9 | 1.7 |
| Poisoning | 450 | 10.9 | – | – | – | – | – | 6.6 | 13.5 | 16.9 | 16.9 | 17.7 | 17.4 | 6.4 | 3.4 |
| Struck by or against | 24 | 0.6 | – | 0.5 | 0.4 | 0.4 | – | – | – | 0.7 | 0.2 | 0.4 | 0.4 | 1.7 | 1.7 |
| Suffocation | 95 | 2.3 | 29.8 | 0.5 | – | – | – | – | – | 0.2 | 0.9 | 1.2 | 1.9 | 3.8 | 14.8 |
| Other and unspecified | 83 | 2.0 | – | – | – | – | – | – | – | 0.4 | 0.7 | 1.5 | 3.6 | 4.7 | 10.3 |

See footnotes at end of table.

## TABLE 6-25. Injury death rates by intent, mechanism of injury, and age, Oregon residents, 2017 — Continued

| | Total | Rate[1] | Age at death | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | <1 | 1-4 | 5-9 | 10-14 | 15-17 | 18-19 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75+ |
| **Suicide** | 825 | 19.9 | – | – | – | 3.9 | 13.6 | 17.0 | 22.4 | 22.1 | 24.1 | 28.9 | 23.6 | 24.2 | 29.6 |
| Cut/pierce | 20 | 0.5 | – | – | – | – | – | 0.9 | 0.4 | 0.2 | 0.7 | 1.3 | 1.1 | – | – |
| Drowning | 8 | 0.2 | – | – | – | – | – | – | – | 0.2 | 0.4 | 0.2 | 0.4 | 0.2 | 0.3 |
| Fall | 25 | 0.6 | – | – | – | – | 0.6 | – | 0.4 | 0.9 | 1.1 | 1.0 | 0.9 | 0.2 | 0.3 |
| Fire/hot object or substance | 2 | <.05 | – | – | – | – | – | – | – | – | 0.2 | – | – | 0.2 | – |
| Firearm | 439 | 10.6 | – | – | – | 0.8 | 7.1 | 5.7 | 12.0 | 9.5 | 10.9 | 15.0 | 12.2 | 15.7 | 23.4 |
| All transport[2] | 2 | <.05 | – | – | – | – | – | 0.9 | – | – | – | 0.2 | – | – | – |
| Other land transport[3] | 2 | <.05 | – | – | – | – | – | 0.9 | – | – | – | 0.2 | – | – | – |
| Poisoning | 130 | 3.1 | – | – | – | 0.4 | – | – | 3.1 | 3.2 | 4.0 | 5.4 | 4.9 | 3.8 | 3.8 |
| Suffocation | 180 | 4.3 | – | – | – | 2.7 | 5.8 | 7.6 | 5.4 | 7.7 | 6.4 | 4.8 | 3.9 | 3.3 | 1.4 |
| Other and unspecified | 19 | 0.5 | – | – | – | – | – | 1.9 | 1.2 | 0.4 | 0.4 | 1.0 | 0.2 | 0.7 | 0.3 |
| **Homicide** | 128 | 3.1 | 6.9 | 0.9 | 0.8 | 2.0 | 0.6 | 0.9 | 3.5 | 5.0 | 4.6 | 4.2 | 2.6 | 2.6 | 1.7 |
| Cut/pierce | 16 | 0.4 | – | – | – | – | – | – | 0.8 | 0.4 | 0.2 | 0.6 | 0.7 | 0.7 | 0.3 |
| Fire/hot object or substance | 4 | 0.1 | – | – | – | – | – | – | 0.4 | – | 0.2 | – | – | 0.5 | – |
| Firearm | 74 | 1.8 | – | – | 0.8 | 1.6 | 0.6 | 0.9 | 2.3 | 3.2 | 3.3 | 2.5 | 0.7 | 0.7 | 1.4 |
| All transport[2] | 1 | <.05 | – | – | – | – | – | – | – | 0.2 | – | – | – | – | – |
| Other land transport[3] | 1 | <.05 | – | – | – | – | – | – | – | 0.2 | – | – | – | – | – |
| Poisoning | 1 | <.05 | 2.3 | – | – | – | – | – | – | – | – | – | – | – | – |
| Struck by or against | 4 | 0.1 | – | – | – | – | – | – | – | 0.2 | 0.2 | 0.2 | 0.2 | – | – |
| Suffocation | 4 | 0.1 | – | – | – | – | – | – | – | 0.2 | 0.4 | – | – | 0.2 | – |
| Other and unspecified | 24 | 0.6 | 4.6 | 0.9 | – | 0.4 | – | – | – | 0.9 | 0.4 | 1.0 | 0.9 | 0.5 | – |
| **Undetermined** | 60 | 1.4 | 2.3 | 0.5 | – | 0.4 | – | 2.8 | 2.3 | 1.3 | 1.1 | 1.5 | 3.6 | 1.2 | 1.0 |
| Drowning | 13 | 0.3 | – | – | – | – | – | 1.9 | 1.2 | 0.4 | 0.2 | – | 0.9 | – | – |
| Fall | 1 | <.05 | – | – | – | – | – | – | – | 0.2 | – | – | – | – | – |
| Firearm | 1 | <.05 | – | – | – | – | – | – | – | – | – | 0.2 | – | – | – |
| All transport[2] | 1 | <.05 | – | – | – | – | – | – | – | 0.2 | – | – | – | – | – |
| Other land transport[3] | 1 | <.05 | – | – | – | – | – | – | – | 0.2 | – | – | – | – | – |
| Poisoning | 37 | 0.9 | – | 0.5 | – | – | – | 0.9 | 1.2 | 0.4 | 0.7 | 1.3 | 2.2 | 1.2 | 0.7 |
| Suffocation | 2 | <.05 | 2.3 | – | – | 0.4 | – | – | – | – | – | – | – | – | – |
| Other and unspecified | 5 | 0.1 | – | – | – | – | – | – | – | 0.2 | 0.2 | – | 0.4 | – | 0.3 |
| **Legal intervention/war[4]** | 11 | 0.3 | – | – | – | – | 1.3 | – | 0.4 | 0.5 | 0.6 | 0.2 | – | 0.2 | – |
| Firearm | 11 | 0.3 | – | – | – | – | 1.3 | – | 0.4 | 0.5 | 0.6 | 0.2 | – | 0.2 | – |

– Quantity is zero.
1 Rate per 100,000 population.
2 Excludes late effects of transport accidents (ICD-10 code Y85).
3 Includes non-traffic accidents involving pedestrians or cyclists (see Table 6-26).
4 Includes late effects of injuries sustained in war. Oregon residents who died outside the U.S. while on active duty are not reported to the Center for Health Statistics.

## TABLE 6-26. Injury deaths and crude death rates by mechanism and intent, Oregon residents, 2017

| Mechanism | Total external | | Unintentional | | Suicide | | Homicide | | Undetermined | | Legal intervention/ war[2] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total | Rate[1] | Total | Rate[1] | Total | Rate[1] | Total | Rate[1] | Total | Rate[1] | Total | Rate[1] |
| Total | 3,164 | 76.4 | 2,073 | 50.1 | 825 | 19.9 | 128 | 3.1 | 60 | 1.4 | 11 | 0.3 |
| Cut/pierce | 38 | 0.9 | 2 | <.05 | 20 | 0.5 | 16 | 0.4 | – | – | – | – |
| Drowning | 70 | 1.7 | 49 | 1.2 | 8 | 0.2 | – | – | 13 | 0.3 | – | – |
| Fall | 790 | 19.1 | 764 | 18.4 | 25 | 0.6 | – | – | 1 | <.05 | – | – |
| Fire/hot object or substance | 42 | 1.0 | 36 | 0.9 | 2 | <.05 | 4 | 0.1 | – | – | – | – |
| Firearm | 529 | 12.8 | 4 | 0.1 | 439 | 10.6 | 74 | 1.8 | 1 | <.05 | 11 | 0.3 |
| Machinery | 9 | 0.2 | 9 | 0.2 | – | – | – | – | – | – | – | – |
| All transport[3] | 538 | 13.0 | 534 | 12.9 | 2 | <.05 | 1 | <.05 | 1 | <.05 | – | – |
| Motor vehicle traffic | 473 | 11.4 | 473 | 11.4 | – | – | – | – | – | – | – | – |
| *Occupant*[4] | 258 | 6.2 | 258 | 6.2 | – | – | – | – | – | – | – | – |
| *Driver*[5] | 188 | 4.5 | 188 | 4.5 | – | – | – | – | – | – | – | – |
| *Passenger*[5] | 59 | 1.4 | 59 | 1.4 | – | – | – | – | – | – | – | – |
| *Motorcyclist*[6] | 58 | 1.4 | 58 | 1.4 | – | – | – | – | – | – | – | – |
| *Pedal cyclist*[6] | 9 | 0.2 | 9 | 0.2 | – | – | – | – | – | – | – | – |
| *Pedestrian* | 78 | 1.9 | 78 | 1.9 | – | – | – | – | – | – | – | – |
| *Other and unspecified* | 70 | 1.7 | 70 | 1.7 | – | – | – | – | – | – | – | – |
| Pedal cyclist, other | 7 | 0.2 | 7 | 0.2 | – | – | – | – | – | – | – | – |
| Pedestrian, other | 19 | 0.5 | 19 | 0.5 | – | – | – | – | – | – | – | – |
| Other land transport | 29 | 0.7 | 25 | 0.6 | 2 | <.05 | 1 | <.05 | 1 | <.05 | – | – |
| Other transport | 10 | 0.2 | 10 | 0.2 | – | – | – | – | – | – | – | – |
| Natural/environmental | 23 | 0.6 | 23 | 0.6 | – | – | – | – | – | – | – | – |
| Poisoning | 618 | 14.9 | 450 | 10.9 | 130 | 3.1 | 1 | <.05 | 37 | 0.9 | – | – |
| Struck by or against | 28 | 0.7 | 24 | 0.6 | – | – | 4 | 0.1 | – | – | – | – |
| Suffocation | 281 | 6.8 | 95 | 2.3 | 180 | 4.3 | 4 | 0.1 | 2 | <.05 | – | – |
| Other and unspecified | 131 | 3.2 | 83 | 2.0 | 19 | 0.5 | 24 | 0.6 | 5 | 0.1 | – | – |
| Medical care complications | 67 | 1.6 | – | – | – | – | – | – | – | – | – | – |

– Quantity is zero.
1 Rate per 100,000 population.
2 Includes late effects of injuries sustained in war. Oregon residents who died outside the U.S. while on active duty are not reported to the Center for Health Statistics.
3 Excludes late effects of transport accidents (ICD-10 code Y85).
4 Excludes persons traveling by motorcycle and pedal cycle.
5 The sum of decedents who were drivers and passengers is less than the number shown in the occupant category because the passenger status was not stated in all cases.
6 Includes both drivers and passengers.

## TABLE 6-27. Unintentional deaths by type or source of injury, age, and sex, Oregon residents, 2017

| Type or source of unintentional injury | Total | Sex | | Age at death | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | F | 0-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| **Total**[1] | 2,073 | 1,268 | 805 | 36 | 26 | 141 | 200 | 197 | 196 | 270 | 227 | 256 | 524 |
| **Transportation**[2] | 553 | 396 | 157 | 13 | 15 | 79 | 78 | 71 | 64 | 100 | 63 | 49 | 21 |
| Motor vehicle traffic accident | 473 | 334 | 139 | 8 | 13 | 75 | 74 | 63 | 50 | 82 | 52 | 39 | 17 |
| Water transport | 6 | 5 | 1 | – | – | – | 2 | – | 2 | – | 1 | 1 | – |
| Air transport | 4 | 3 | 1 | – | – | – | – | – | 1 | 1 | 1 | 1 | – |
| Rail transport | 8 | 5 | 3 | – | – | 1 | – | 2 | 1 | 1 | 1 | 1 | 1 |
| **Poisoning** | 450 | 302 | 148 | – | – | 42 | 94 | 92 | 92 | 93 | 27 | 4 | 6 |
| Drugs and medications | 401 | 266 | 135 | – | – | 40 | 88 | 84 | 80 | 79 | 22 | 3 | 5 |
| Other/unspec solid or liquid | 38 | 27 | 11 | – | – | 1 | 5 | 5 | 11 | 11 | 5 | – | – |
| Gases or vapors | 11 | 9 | 2 | – | – | 1 | 1 | 3 | 1 | 3 | – | 1 | 1 |
| **Suffocation or obstruction** | 95 | 58 | 37 | 14 | – | – | 1 | 5 | 6 | 10 | 16 | 18 | 25 |
| In bed | 15 | 9 | 6 | 11 | – | – | – | 1 | – | – | 1 | 1 | 1 |
| Hanging/strangulation | 5 | 5 | – | 1 | – | – | – | 1 | 1 | 2 | – | – | – |
| Gastric contents | 5 | 2 | 3 | – | – | – | – | – | – | 1 | 2 | – | 2 |
| Food | 25 | 14 | 11 | – | – | – | – | 2 | 1 | 1 | 7 | 5 | 9 |
| Other substance/object[3] | 35 | 21 | 14 | 1 | – | – | – | – | 1 | 4 | 6 | 12 | 11 |
| **Inanimate mechanical forces** | 43 | 36 | 7 | 1 | 2 | – | 5 | 2 | 5 | 6 | 12 | 8 | 2 |
| Struck by falling object[4] | 17 | 14 | 3 | 1 | 2 | – | 3 | 1 | 1 | 1 | 6 | 1 | 1 |
| Struck by other object | 7 | 3 | 4 | – | – | – | 1 | – | 1 | 1 | 1 | 2 | 1 |
| Caught between objects | 1 | 1 | – | – | – | – | – | – | – | – | – | 1 | – |
| Agricultural machinery | 5 | 5 | – | – | – | – | – | – | – | 3 | 1 | 1 | – |
| Other machinery | 6 | 6 | – | – | – | – | – | – | 2 | 1 | 1 | 2 | – |
| Firearms | 4 | 4 | – | – | – | – | 1 | – | – | – | 2 | 1 | – |
| Explosion of devices/materials[5] | 3 | 3 | – | – | – | – | – | 1 | 1 | – | 1 | – | – |
| **Miscellaneous** | 903 | 456 | 447 | 8 | 9 | 20 | 22 | 26 | 26 | 54 | 101 | 174 | 463 |
| Falls | 764 | 361 | 403 | – | – | 7 | 10 | 10 | 13 | 38 | 83 | 160 | 443 |
| Animal bite/envenomation | 4 | 3 | 1 | – | – | – | – | 3 | – | 1 | – | – | – |
| Drowning and submersion | 49 | 39 | 10 | 3 | 3 | 10 | 9 | 5 | 3 | 5 | 7 | 3 | 1 |
| Electric current | 3 | 3 | – | – | – | – | 1 | – | – | 1 | 1 | – | – |
| Fire, flames and smoke | 36 | 20 | 16 | 4 | 6 | 1 | – | 6 | 4 | 4 | 1 | 5 | 5 |
| Excessive natural heat | 2 | 1 | 1 | 1 | – | 1 | – | – | – | – | – | – | – |
| Excessive natural cold | 13 | 10 | 3 | – | – | 1 | – | – | 4 | 1 | 4 | 1 | 2 |

– Quantity is zero.
1 Includes all unintentional injury deaths, not just those in the categories shown.
2 Subsets are based on the victim's mode of transport, if known, except for railway transport accidents where all related deaths are included.
3 Inhalation and ingestion of objects/substances, other than food or gastric contents, causing obstruction of the respiratory tract.
4 Includes thrown and projected objects.
5 Includes explosion of fireworks, boiler, gas cylinder, pressurized tire, pipe, or hose, and other materials or pressurized devices.

## TABLE 6-28. Unintentional fatal falls by type or source, age, and sex, Oregon residents, 2017

| Type or source of fall | Total | Sex | | Age at death | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | F | 0-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Total | 764 | 361 | 403 | – | – | 7 | 10 | 10 | 13 | 38 | 83 | 160 | 443 |
| On same level | 512 | 212 | 300 | – | – | – | 2 | 4 | 4 | 16 | 58 | 107 | 321 |
| Involving ice and snow | 2 | 1 | 1 | – | – | – | – | – | – | – | – | – | 2 |
| From slipping or tripping | 30 | 15 | 15 | – | – | – | – | – | – | – | 4 | 11 | 15 |
| Collision with another person[1] | 1 | 1 | – | – | – | – | – | – | – | 1 | – | – | – |
| Other | 479 | 195 | 284 | – | – | – | 2 | 4 | 4 | 15 | 54 | 96 | 304 |
| Involving skis, skates, skateboards | 2 | 2 | – | – | – | 1 | – | – | – | – | 1 | – | – |
| While carried by another | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Involving wheelchair | 26 | 12 | 14 | – | – | – | – | – | 1 | 1 | 2 | 6 | 16 |
| Involving bed | 25 | 9 | 16 | – | – | – | – | – | – | – | 4 | 2 | 19 |
| Involving chair | 6 | 4 | 2 | – | – | – | – | – | – | – | 1 | 1 | 4 |
| Involving other furniture | 5 | 3 | 2 | – | – | – | – | – | – | – | – | 3 | 2 |
| Involving playground equipment | – | – | – | – | – | – | – | – | – | – | – | – | – |
| On and from stairs | 38 | 30 | 8 | – | – | – | – | 1 | 1 | 8 | 4 | 11 | 13 |
| On and from ladder | 7 | 7 | – | – | – | – | – | – | 1 | – | 2 | 2 | 2 |
| On and from scaffolding | – | – | – | – | – | – | – | – | – | – | – | – | – |
| From building or structure[2] | 7 | 7 | – | – | – | – | 1 | – | 1 | 2 | 1 | 1 | 1 |
| From tree | 2 | 2 | – | – | – | – | – | 1 | – | – | 1 | – | – |
| From cliff | 9 | 7 | 2 | – | – | 3 | 3 | – | 1 | 1 | 1 | – | – |
| While diving/jumping into water[3] | 2 | – | 2 | – | – | – | 2 | – | – | – | – | – | – |
| Other multilevel fall[4] | 6 | 4 | 2 | – | – | 3 | 2 | – | – | 1 | – | – | – |
| Unspecified fall | 117 | 62 | 55 | – | – | – | – | 4 | 4 | 9 | 8 | 27 | 65 |

– Quantity is zero.
1 Includes pushing by another person.
2 Includes fall from, out of, or through building or structure.
3 Causing an injury other than drowning or submersion.
4 Includes falls from or into quarry, tank, dock, haystack, well, etc.

**TABLE 6-29. Decedent's mode of travel by collision type for land transport-related deaths, Oregon occurrence injuries, 2017[1]**

| Decedent's mode of travel | Total | In collision with | | | | | | | | Non-collision | Other and not stated |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Pedestrian or animal[2] | Pedal cycle | Motorcycle[3] | Car, van, pickup | Heavy transport vehicle[4] | Railway train[5] | Other nonmotor vehicle[6] | Fixed object | | |
| Total | 547 | – | 1 | 1 | 197 | 39 | 11 | – | 62 | 95 | 141 |
| Foot | 103 | – | – | 1 | 67 | 6 | 9 | – | – | – | 20 |
| Pedal cycle | 18 | – | – | – | 5 | 3 | – | – | 1 | 6 | 3 |
| Motorcycle[3] | 64 | – | – | – | 24 | 5 | – | – | 10 | 11 | 14 |
| Car | 203 | – | – | – | 86 | 15 | 1 | – | 39 | 55 | 7 |
| Pickup or van | 61 | – | 1 | – | 13 | 10 | 1 | – | 11 | 20 | 5 |
| Heavy transport vehicle | 4 | – | – | – | – | – | – | – | 1 | 3 | – |
| Bus/coach | – | – | – | – | – | – | – | – | – | – | – |
| Animal-drawn vehicle[7] | – | – | – | – | – | – | – | – | – | – | – |
| Railway train or vehicle | – | – | – | – | – | – | – | – | – | – | – |
| Streetcar | – | – | – | – | – | – | – | – | – | – | – |
| Industr./constr.vehicle | – | – | – | – | – | – | – | – | – | – | – |
| Agricultural vehicle | 2 | – | – | – | – | – | – | – | – | – | 2 |
| All-terrain vehicle | 20 | – | – | – | – | – | – | – | – | – | 20 |
| Unspecified vehicle | 72 | – | – | – | 2 | – | – | – | – | – | 70 |

– Quantity is zero.
1 Includes all land transport deaths regardless of whether or not they resulted from traffic accidents. Excludes residents of other states who were injured in Oregon but died outside of Oregon.
2 Excludes collisions with animal-drawn vehicles or animals being ridden.
3 Includes three-wheeled motor vehicles such as motorized tricycles; excludes motor vehicles designed primarily for off-road use.
4 Includes buses and coaches.
5 Includes interurban electric cars (streetcars) operating on their own right-of-way and not open to other traffic.
6 Includes animal-drawn vehicles, animals being ridden, streetcars (when operating on a right-of-way that forms part of a public street), etc.
7 Includes animals being ridden.

## TABLE 6-30. Fatal motor vehicle injuries by age, sex, occupant and traffic status, Oregon occurrence injuries, 2017[1]

| Mode of transport, traffic status & passenger status | Total | Sex | | Age at death | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | F | <16 | 16-17 | 18-19 | 20-21 | 22-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Total[2] | 547 | 392 | 155 | 30 | 5 | 17 | 18 | 36 | 84 | 74 | 70 | 95 | 56 | 43 | 19 |
| Motorcycle | 64 | 55 | 9 | 1 | – | 1 | 2 | 1 | 9 | 13 | 10 | 14 | 10 | 3 | – |
| Driver, nontraffic | 1 | – | 1 | – | – | – | – | 1 | – | – | – | – | – | – | – |
| Passenger, nontraffic | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Unspecified, nontraffic | 2 | 2 | – | – | – | – | – | – | – | – | 2 | – | – | – | – |
| While boarding or alighting | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Driver, traffic | 44 | 41 | 3 | – | – | 1 | 2 | – | 8 | 11 | 3 | 9 | 9 | 1 | – |
| Passenger, traffic | 4 | 1 | 3 | 1 | – | – | – | – | – | – | 2 | 1 | – | – | – |
| Unspecified, traffic | 13 | 11 | 2 | – | – | – | – | – | 1 | 2 | 3 | 4 | 1 | 2 | – |
| Car | 203 | 127 | 76 | 12 | 2 | 10 | 9 | 15 | 35 | 28 | 25 | 23 | 17 | 15 | 12 |
| Driver, nontraffic | 2 | 2 | – | – | – | – | – | – | – | 1 | 1 | – | – | – | – |
| Passenger, nontraffic | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Person on outside, nontraffic | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Unspecified, nontraffic | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| While boarding or alighting | 3 | 2 | 1 | – | – | – | – | – | 1 | – | – | – | – | – | 2 |
| Driver, traffic | 148 | 95 | 53 | 1 | – | 6 | 4 | 12 | 28 | 21 | 21 | 20 | 14 | 13 | 8 |
| Passenger, traffic | 46 | 27 | 19 | 11 | 2 | 4 | 3 | 3 | 5 | 6 | 3 | 3 | 3 | 1 | 2 |
| Person on outside, traffic | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Unspecified, traffic | 4 | 1 | 3 | – | – | – | 2 | – | 1 | – | – | – | – | 1 | – |
| Pickup truck or van | 61 | 49 | 12 | 1 | 1 | 3 | 4 | 4 | 11 | 6 | 8 | 10 | 5 | 6 | 2 |
| Driver, nontraffic | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Passenger, nontraffic | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Person on outside, nontraffic | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Unspecified, nontraffic | 1 | 1 | – | – | – | – | – | – | – | – | – | 1 | – | – | – |
| While boarding or alighting | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Driver, traffic | 42 | 40 | 2 | – | 1 | 2 | 2 | 2 | 6 | 4 | 7 | 8 | 3 | 6 | 1 |
| Passenger, traffic | 15 | 6 | 9 | 1 | – | – | 1 | 2 | 4 | 2 | 1 | 1 | 2 | – | 1 |
| Person on outside, traffic | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Unspecified, traffic | 3 | 2 | 1 | – | – | 1 | 1 | – | 1 | – | – | – | – | – | – |

– Quantity is zero.

1 Excludes residents of other states who were injured in Oregon but died outside of Oregon.

2 Total includes all land transport deaths (e.g., water and air transport-related deaths are excluded). Only the most common types of motorized land transport vehicle-related fatalities are shown by category. See Table 6-29 for other categories.

## TABLE 6-31. Traffic accidents by decedent's mode of transport, sex, and age, Oregon occurrence injuries, 2017[1]

| Mode of transport & leading accident types | Total | Sex | | Age at death | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | F | <16 | 16-17 | 18-19 | 20-21 | 22-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| Total | 490 | 349 | 141 | 24 | 4 | 17 | 17 | 35 | 78 | 67 | 61 | 83 | 51 | 36 | 17 |
| Pedestrian | 81 | 54 | 27 | 8 | – | – | 1 | 8 | 10 | 13 | 10 | 17 | 8 | 4 | 2 |
| Struck by car, van, pickup | 59 | 37 | 22 | 4 | – | – | – | 4 | 6 | 10 | 10 | 15 | 5 | 3 | 2 |
| Struck by heavy vehicle | 4 | 4 | – | 1 | – | – | – | – | 2 | – | – | – | 1 | – | – |
| Pedal cycle | 16 | 14 | 2 | 1 | – | – | – | – | 1 | 3 | 4 | 4 | 2 | 1 | – |
| Motorcycle | 61 | 53 | 8 | 1 | – | 1 | 2 | – | 9 | 13 | 8 | 14 | 10 | 3 | – |
| Collision with car, van, pickup | 24 | 21 | 3 | 1 | – | 1 | 2 | – | 2 | 6 | 3 | 6 | 2 | 1 | – |
| Collision with heavy vehicle | 5 | 5 | – | – | – | – | – | – | 1 | 2 | – | – | 2 | – | – |
| Collision with fixed object | 10 | 9 | 1 | – | – | – | – | – | 5 | 2 | – | 1 | 2 | – | – |
| Non-collision | 10 | 8 | 2 | – | – | – | – | – | – | 1 | 2 | 4 | 3 | – | – |
| Car | 201 | 125 | 76 | 12 | 2 | 10 | 9 | 15 | 35 | 27 | 24 | 23 | 17 | 15 | 12 |
| Collision with car, van, pickup | 86 | 59 | 27 | 8 | 1 | 4 | 1 | 5 | 10 | 10 | 10 | 14 | 10 | 7 | 6 |
| Collision with heavy vehicle | 15 | 9 | 6 | 1 | – | 1 | – | 1 | 4 | 1 | 1 | 3 | 1 | 2 | – |
| Collision with fixed object | 39 | 26 | 13 | – | 1 | 3 | 2 | 4 | 9 | 7 | 5 | 3 | 2 | 3 | – |
| Non-collision | 53 | 29 | 24 | 3 | – | 1 | 4 | 5 | 12 | 9 | 8 | 2 | 1 | 2 | 6 |
| Pickup or van | 60 | 48 | 12 | 1 | 1 | 3 | 4 | 4 | 11 | 6 | 8 | 9 | 5 | 6 | 2 |
| Collision with car, van, pickup | 13 | 9 | 4 | 1 | 1 | 1 | – | – | – | 2 | – | 4 | 1 | 2 | 1 |
| Collision with heavy vehicle | 10 | 9 | 1 | – | – | – | – | – | 1 | 1 | 2 | 2 | 2 | 2 | – |
| Collision with fixed object | 11 | 9 | 2 | – | – | – | 1 | 1 | 3 | 1 | 3 | 2 | – | – | – |
| Non-collision | 19 | 16 | 3 | – | – | 1 | 2 | 3 | 5 | 2 | 3 | 1 | – | 1 | 1 |
| Heavy transport vehicle | 4 | 4 | – | 1 | – | – | – | – | – | – | – | 3 | – | – | – |
| Bus | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Animal-drawn vehicle[2] | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Railway train or vehicle | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Streetcar | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Other and unspecified | 67 | 51 | 16 | – | 1 | 3 | 1 | 8 | 12 | 5 | 7 | 13 | 9 | 7 | 1 |

– Quantity is zero.

[1] Unlike tables 6-29 and 6-30 (which include all land transport accidents), this table includes only traffic accidents.

[2] Includes animals being ridden.

**TABLE 6-32. Unintentional deaths due to drownings by sex, age, county of injury, and circumstances of drowning, Oregon occurrence injuries, 2017**

| Demographic characteristics | Total | Boating[1] | Bathtub & hot tub | Swimming pool | While in natural water | Fall into natural water | Other & unspec. |
|---|---|---|---|---|---|---|---|
| **Total** | 59 | 8 | 6 | 6 | 32 | 4 | 3 |
| **Sex** | | | | | | | |
| Male | 46 | 8 | 3 | 4 | 24 | 4 | 3 |
| Female | 13 | – | 3 | 2 | 8 | – | – |
| **Age** | | | | | | | |
| <1 | 1 | – | 1 | – | – | – | – |
| 1-4 | 2 | – | – | 1 | – | 1 | – |
| 5-14 | 3 | – | – | – | 2 | 1 | – |
| 15-17 | 1 | – | – | – | 1 | – | – |
| 18-19 | 3 | – | – | – | 3 | – | – |
| 20-24 | 7 | – | – | 1 | 5 | – | 1 |
| 25-34 | 13 | 3 | 1 | 1 | 8 | – | – |
| 35-44 | 5 | – | 1 | – | 4 | – | – |
| 45-54 | 4 | 1 | – | – | 2 | – | 1 |
| 55-64 | 7 | 1 | 1 | 1 | 3 | 1 | – |
| 65-74 | 8 | 2 | – | 1 | 3 | 1 | 1 |
| 75+ | 5 | 1 | 2 | 1 | 1 | – | – |
| **County** | | | | | | | |
| Baker | 1 | 1 | – | – | – | – | – |
| Clackamas | 6 | – | 1 | 2 | 2 | – | 1 |
| Clatsop | 1 | – | – | 1 | – | – | – |
| Columbia | 4 | 1 | – | – | 2 | 1 | – |
| Curry | 2 | – | – | – | 2 | – | – |
| Deschutes | 1 | – | – | – | 1 | – | – |
| Douglas | 6 | 1 | 1 | 1 | 3 | – | – |
| Gilliam | 1 | 1 | – | – | – | – | – |
| Hood River | 1 | – | – | – | 1 | – | – |
| Jackson | 4 | – | 1 | – | 3 | – | – |
| Jefferson | 1 | 1 | – | – | – | – | – |
| Josephine | 4 | – | – | – | 4 | – | – |
| Klamath | 1 | – | – | 1 | – | – | – |
| Lane | 2 | 2 | – | – | – | – | – |
| Lincoln | 4 | – | – | – | 4 | – | – |
| Linn | 2 | – | – | – | 1 | – | 1 |
| Malheur | 1 | – | – | – | – | 1 | – |
| Marion | 5 | 1 | 1 | – | 2 | – | 1 |
| Multnomah | 5 | – | 1 | – | 4 | – | – |
| Polk | 2 | – | – | 1 | – | 1 | – |
| Tillamook | 1 | – | – | – | 1 | – | – |
| Umatilla | 1 | – | – | – | 1 | – | – |
| Union | 1 | – | – | – | – | 1 | – |
| Washington | 2 | – | 1 | – | 1 | – | – |

– Quantity is zero.
[1] Excludes deaths resulting from voluntarily jumping from a boat.
NOTE: Only age groups or counties with at least one unintentional death due to drowning are shown.

**TABLE 6-33. Deaths from suicide, homicide, legal intervention, and undetermined intent external causes by age, sex, and method, Oregon residents, 2017**

| Manner and method of death[1] | Total* | All ages | | <15 | | 15-24 | | 25-34 | | 35-44 | | 45-54 | | 55-64 | | 65-74 | | 75-84 | | 85+ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| **Suicide** | 825 | 629 | 195 | 5 | 5 | 80 | 17 | 99 | 23 | 99 | 32 | 100 | 50 | 94 | 32 | 85 | 17 | 42 | 13 | 25 | 6 |
| Poisoning | 130 | 67 | 62 | – | 1 | 5 | 3 | 10 | 7 | 13 | 9 | 13 | 15 | 11 | 15 | 10 | 6 | 3 | 6 | 2 | – |
| *Drugs/medications* | 91 | 38 | 52 | – | 1 | 2 | 3 | 8 | 7 | 8 | 7 | 7 | 11 | 5 | 13 | 6 | 4 | 2 | 6 | – | – |
| *Other substances* | 39 | 29 | 10 | – | – | 3 | – | 2 | – | 5 | 2 | 6 | 4 | 6 | 2 | 4 | 2 | 1 | – | 2 | – |
| Suffocation | 180 | 134 | 46 | 4 | 3 | 24 | 7 | 34 | 9 | 25 | 10 | 17 | 8 | 17 | 4 | 10 | 4 | – | 1 | 3 | – |
| Drowning | 8 | 7 | 1 | – | – | – | – | 1 | – | 2 | – | 1 | – | 2 | – | – | 1 | – | – | 1 | – |
| Firearms[2] | 439 | 372 | 67 | 1 | 1 | 43 | 5 | 48 | 5 | 50 | 9 | 57 | 21 | 55 | 10 | 60 | 6 | 39 | 5 | 19 | 5 |
| *Handguns* | 323 | 262 | 61 | – | 1 | 26 | 5 | 34 | 4 | 37 | 8 | 34 | 18 | 39 | 10 | 47 | 5 | 30 | 5 | 15 | 5 |
| *Long guns* | 78 | 77 | 1 | 1 | – | 12 | – | 9 | – | 9 | – | 19 | 1 | 13 | – | 8 | – | 5 | – | 1 | – |
| Fire/flame/hot object | 2 | 2 | – | – | – | – | – | – | – | 1 | – | – | – | – | – | 1 | – | – | – | – | – |
| Sharp object | 20 | 16 | 4 | – | – | 2 | – | 1 | – | 3 | 1 | 4 | 3 | 6 | – | – | – | – | – | – | – |
| Jumping from high place | 25 | 16 | 9 | – | – | 2 | – | 3 | 2 | 3 | 3 | 4 | 1 | 3 | 2 | 1 | – | – | – | – | 1 |
| **Homicide** | 128 | 97 | 31 | 6 | 6 | 10 | 1 | 23 | 5 | 20 | 5 | 19 | 3 | 10 | 4 | 7 | 4 | 1 | 3 | 1 | – |
| Suffocation | 4 | 2 | 2 | – | – | – | – | 1 | – | 1 | 1 | – | – | – | – | – | 1 | – | – | – | – |
| Drowning | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Firearms[2,3] | 74 | 58 | 16 | 2 | 4 | 7 | 1 | 16 | 2 | 16 | 2 | 11 | 2 | 2 | 2 | 3 | – | – | 3 | 1 | – |
| *Handguns* | 17 | 8 | 9 | – | 1 | 1 | – | 2 | 1 | – | 1 | 1 | 1 | 2 | 2 | 2 | – | – | 3 | – | – |
| *Long guns* | 9 | 8 | 1 | 2 | 1 | 1 | – | 1 | – | – | – | 3 | – | – | – | 1 | – | – | – | – | – |
| Sharp object | 16 | 12 | 4 | – | – | 2 | – | 1 | 1 | 1 | – | 2 | 1 | 4 | – | 1 | 2 | 1 | – | – | – |
| Blunt object | 2 | 1 | 1 | – | – | – | – | – | – | – | 1 | 1 | – | – | – | – | – | – | – | – | – |
| Bodily force | 2 | 2 | – | – | – | – | – | 1 | – | – | – | – | – | 1 | – | – | – | – | – | – | – |
| Neglect and maltreatment | 1 | 1 | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Legal intervention** | 11 | 11 | – | – | – | 3 | – | 3 | – | 3 | – | 1 | – | – | – | 1 | – | – | – | – | – |
| Firearms | 11 | 11 | – | – | – | 3 | – | 3 | – | 3 | – | 1 | – | – | – | 1 | – | – | – | – | – |
| **Undetermined manner** | 60 | 32 | 28 | 2 | 1 | 6 | 3 | 5 | 2 | 4 | 2 | 1 | 7 | 10 | 9 | 2 | 3 | 2 | 1 | – | – |
| Poisoning | 37 | 16 | 21 | 1 | – | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 6 | 5 | 7 | 2 | 3 | 1 | 1 | – | – |
| *Drugs/medications* | 32 | 13 | 19 | 1 | – | 3 | – | 1 | 1 | 2 | 2 | 1 | 5 | 4 | 7 | 1 | 3 | – | 1 | – | – |
| *Other substances* | 5 | 3 | 2 | – | – | – | 1 | – | – | – | – | – | 1 | 1 | – | 1 | – | 1 | – | – | – |
| Drowning | 13 | 10 | 3 | – | – | 3 | 2 | 2 | – | 1 | – | – | – | 4 | 1 | – | – | – | – | – | – |
| Firearms[2] | 1 | – | 1 | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – |
| *Handguns* | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| *Long guns* | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |

– Quantity is zero.
* Includes unknown sex.
1 'Other' and 'Unknown' subcategories are not shown but are included in the totals.
2 Unlike ICD-9, ICD-10 does not distinguish between rifles, shotguns, and military (assault) weapons.
3 It is the Oregon Medical Examiner's policy not to specify the type of firearm used in a homicide on the death certificate.

**TABLE 6-34. Deaths due to firearms by manner, sex, age, race/ethnicity, county of residence, and weapon type, Oregon residents, 2017**

| Characteristics | Total | | Unintended injuries | | Suicide | | Homicide | | Legal interven.[2] | | Undeterm. manner | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | All guns | Hand-guns[1] | M | F | M | F | M | F | M | F | M | F |
| Total | 529 | 343 | 4 | – | 372 | 67 | 58 | 16 | 11 | – | – | 1 |
| ***Age*** | | | | | | | | | | | | |
| <1 | – | – | – | – | – | – | – | – | – | – | – | – |
| 1-4 | – | – | – | – | – | – | – | – | – | – | – | – |
| 5-9 | 2 | – | – | – | – | – | – | 2 | – | – | – | – |
| 10-14 | 6 | 2 | – | – | 1 | 1 | 2 | 2 | – | – | – | – |
| 15-17 | 14 | 5 | – | – | 8 | 3 | 1 | – | 2 | – | – | – |
| 18-19 | 7 | 3 | – | – | 6 | – | 1 | – | – | – | – | – |
| 20-21 | 19 | 15 | – | – | 15 | 2 | 2 | – | – | – | – | – |
| 22-24 | 19 | 9 | – | – | 14 | – | 3 | 1 | 1 | – | – | – |
| 25-34 | 75 | 41 | 1 | – | 48 | 5 | 16 | 2 | 3 | – | – | – |
| 35-44 | 80 | 46 | – | – | 50 | 9 | 16 | 2 | 3 | – | – | – |
| 45-54 | 93 | 54 | – | – | 57 | 21 | 11 | 2 | 1 | – | – | 1 |
| 55-64 | 69 | 53 | – | – | 55 | 10 | 2 | 2 | – | – | – | – |
| 65-74 | 72 | 56 | 2 | – | 60 | 6 | 3 | – | 1 | – | – | – |
| 75-84 | 48 | 39 | 1 | – | 39 | 5 | – | 3 | – | – | – | – |
| 85+ | 25 | 20 | – | – | 19 | 5 | 1 | – | – | – | – | – |
| ***Single mention race/ethnicity*** | | | | | | | | | | | | |
| White | 467 | 311 | 4 | – | 340 | 60 | 41 | 14 | 7 | – | – | 1 |
| Black | 9 | 4 | – | – | 2 | 1 | 5 | – | 1 | – | – | – |
| American Indian | 9 | 3 | – | – | 7 | 1 | 1 | – | – | – | – | – |
| Asian[3] | 8 | 6 | – | – | 4 | 3 | 1 | – | – | – | – | – |
| HI & Pac. Is.[4] | 1 | 1 | – | – | 1 | – | – | – | – | – | – | – |
| Other & not stated | 1 | 1 | – | – | 1 | – | – | – | – | – | – | – |
| Multiple races | 7 | 4 | – | – | 4 | 1 | 1 | – | 1 | – | – | – |
| Hispanic[5] | 27 | 13 | – | – | 13 | 1 | 9 | 2 | 2 | – | – | – |
| ***County of residence*** | | | | | | | | | | | | |
| Baker | 4 | 3 | – | – | 2 | 2 | – | – | – | – | – | – |
| Benton | 11 | 7 | – | – | 9 | 2 | – | – | – | – | – | – |
| Clackamas | 38 | 23 | – | – | 28 | 3 | 3 | 2 | 2 | – | – | – |
| Clatsop | 6 | 6 | – | – | 6 | – | – | – | – | – | – | – |
| Columbia | 7 | 5 | – | – | 5 | 1 | 1 | – | – | – | – | – |
| Coos | 10 | 6 | – | – | 9 | 1 | – | – | – | – | – | – |
| Crook | 6 | 3 | – | – | 4 | – | 2 | – | – | – | – | – |
| Curry | 11 | 8 | – | – | 8 | 3 | – | – | – | – | – | – |
| Deschutes | 38 | 31 | 1 | – | 24 | 10 | 2 | 1 | – | – | – | – |
| Douglas | 18 | 16 | – | – | 11 | 3 | 1 | 3 | – | – | – | – |
| Gilliam | – | – | – | – | – | – | – | – | – | – | – | – |
| Grant | 1 | – | – | – | – | – | 1 | – | – | – | – | – |

See footnotes at end of table.

**TABLE 6-34. Deaths due to firearms by manner, sex, age, race/ethnicity, county of residence, and weapon type, Oregon residents, 2017 — Continued**

| Characteristics | Total | | Unintended injuries | | Suicide | | Homicide | | Legal interven.[2] | | Undeterm. manner | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | All guns | Hand-guns[1] | M | F | M | F | M | F | M | F | M | F |
| ***County of residence*** | | | | | | | | | | | | |
| Harney | 3 | 1 | – | – | 2 | 1 | – | – | – | – | – | – |
| Hood River | 2 | – | – | – | 2 | – | – | – | – | – | – | – |
| Jackson | 36 | 23 | 1 | – | 23 | 7 | 5 | – | – | – | – | – |
| Jefferson | 1 | 1 | – | – | 1 | – | – | – | – | – | – | – |
| Josephine | 28 | 23 | – | – | 18 | 5 | 3 | 1 | 1 | – | – | – |
| Klamath | 20 | 14 | – | – | 15 | 1 | 3 | – | 1 | – | – | – |
| Lake | 2 | 2 | – | – | 1 | 1 | – | – | – | – | – | – |
| Lane | 57 | 41 | – | – | 44 | 6 | 4 | – | 3 | – | – | – |
| Lincoln | 9 | 5 | – | – | 9 | – | – | – | – | – | – | – |
| Linn | 17 | 12 | – | – | 9 | 4 | 2 | 2 | – | – | – | – |
| Malheur | 1 | 1 | – | – | 1 | – | – | – | – | – | – | – |
| Marion | 42 | 24 | 2 | – | 26 | 2 | 8 | 2 | 1 | – | – | 1 |
| Morrow | – | – | – | – | – | – | – | – | – | – | – | – |
| Multnomah | 74 | 42 | – | – | 48 | 6 | 16 | 2 | 2 | – | – | – |
| Polk | 3 | 2 | – | – | 3 | – | – | – | – | – | – | – |
| Sherman | – | – | – | – | – | – | – | – | – | – | – | – |
| Tillamook | 4 | 1 | – | – | 2 | 1 | 1 | – | – | – | – | – |
| Umatilla | 13 | 3 | – | – | 9 | 3 | 1 | – | – | – | – | – |
| Union | 3 | 1 | – | – | 3 | – | – | – | – | – | – | – |
| Wallowa | 4 | 4 | – | – | 4 | – | – | – | – | – | – | – |
| Wasco | 4 | 2 | – | – | 3 | – | 1 | – | – | – | – | – |
| Washington | 47 | 29 | – | – | 36 | 4 | 3 | 3 | 1 | – | – | – |
| Wheeler | 1 | – | – | – | 1 | – | – | – | – | – | – | – |
| Yamhill | 8 | 4 | – | – | 6 | 1 | 1 | – | – | – | – | – |
| ***Weapon type*** | | | | | | | | | | | | |
| Handgun | 343 | 343 | 3 | – | 262 | 61 | 8 | 9 | – | – | – | – |
| Long gun[6] | 88 | – | 1 | – | 77 | 1 | 8 | 1 | – | – | – | – |
| Other & not stated[7,8] | 98 | – | – | – | 33 | 5 | 42 | 6 | 11 | – | – | 1 |

– Quantity is zero.

1 The 10th revision of the International Classification of Disease (ICD-10) does not distinguish between the types of firearms involved in legal intervention deaths. Although handguns were used in nearly all such deaths, they are not included in this column.

2 Legal intervention is the intentional or unintentional death of a person resulting from the actions of a law enforcement agent. This category may not include all such deaths if the certifying medical examiner failed to note (on the death certificate) the involvement of a law enforcement agent.

3 Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese and other Asian.

4 Includes Guamanian, Hawaiian, Samoan and other Pacific Islander.

5 Decedents of Hispanic ethnicity may belong to any race but have been removed from all race categories in this table.

6 The ICD-10, unlike ICD-9, does not distinguish between rifles, shotguns, and military (assault) weapons.

7 Because the ICD-10 does not include codes for the specific types of guns involved in legal intervention deaths, all such deaths are included here. However, nearly all legal intervention gunshot deaths involve handguns.

8 It is the Oregon Medical Examiner's policy not to specify the type of firearm used in a homicide on the death certificate.

## TABLE 6-35. Fatal overdoses and poisonings by manner, type, sex, and age, Oregon residents, 2017

| Manner and type of substance[1] | Total* | M | F | Age at death | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| **Total** | 1,052 | 694 | 357 | 2 | 1 | 58 | 136 | 148 | 230 | 264 | 154 | 38 | 21 |
| **Mental and behavioral disorders due to psychoactive substance use**[2] | 434 | 309 | 125 | – | – | 4 | 22 | 30 | 103 | 133 | 106 | 23 | 13 |
| Alcohol[3] | 291 | 210 | 81 | – | – | – | 9 | 20 | 69 | 98 | 75 | 15 | 5 |
| Opioids | 22 | 11 | 11 | – | – | – | 5 | 2 | 4 | 5 | 2 | 1 | 3 |
| Cannabinoids | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Sedatives and hypnotics | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Cocaine | 3 | 2 | 1 | – | – | – | – | – | 1 | 1 | 1 | – | – |
| Other stimulants | 36 | 26 | 10 | – | – | – | 1 | 4 | 15 | 11 | 5 | – | – |
| Hallucinogens | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Tobacco[4] | 54 | 44 | 10 | – | – | – | – | 1 | 8 | 15 | 20 | 6 | 4 |
| Volatile solvents | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Other (multiple) psychoactive substances | 28 | 16 | 12 | – | – | 4 | 7 | 3 | 6 | 3 | 3 | 1 | 1 |
| **Unintentional overdoses/poisoning** | 450 | 302 | 148 | – | – | 42 | 94 | 92 | 92 | 93 | 27 | 4 | 6 |
| Nonopioid analgesics, antipyretics, etc. | 5 | 2 | 3 | – | – | – | – | 2 | 1 | – | – | 1 | 1 |
| Psychotropic, sedative-hypnotic drugs | 84 | 62 | 22 | – | – | 5 | 12 | 14 | 21 | 26 | 5 | 1 | – |
| Narcotics and hallucinogens[5] | 167 | 115 | 52 | – | – | 25 | 57 | 27 | 25 | 24 | 9 | – | – |
| Other and unspecified drugs[6] | 145 | 87 | 58 | – | – | 10 | 19 | 41 | 33 | 29 | 8 | 1 | 4 |
| Alcohol | 35 | 25 | 10 | – | – | 1 | 4 | 4 | 11 | 10 | 5 | – | – |
| Organic solvents & halogenated HC[7] | 1 | 1 | – | – | – | – | – | 1 | – | – | – | – | – |
| Carbon monoxide & other gases | 11 | 9 | 2 | – | – | 1 | 1 | 3 | 1 | 3 | – | 1 | 1 |
| Pesticides | 1 | – | 1 | – | – | – | – | – | – | 1 | – | – | – |
| Other chemicals & substances | 1 | 1 | – | – | – | – | 1 | – | – | – | – | – | – |
| *Any opioid*[8] | 274 | 180 | 94 | – | – | 32 | 69 | 57 | 49 | 53 | 13 | – | 1 |
| **Intentional self-poisoning** | 130 | 67 | 62 | – | 1 | 8 | 18 | 22 | 28 | 26 | 16 | 9 | 2 |
| Nonopioid analgesics, antipyretics, etc. | 1 | 1 | – | – | – | – | – | 1 | – | – | – | – | – |
| Psychotropic, sedative-hypnotic drugs | 17 | 6 | 11 | – | – | – | 6 | 1 | 4 | 4 | 2 | – | – |
| Narcotics and hallucinogens[5] | 18 | 6 | 11 | – | 1 | 1 | 2 | – | 3 | 6 | 3 | 2 | – |
| Other and unspecified drugs[6] | 55 | 25 | 30 | – | – | 4 | 8 | 13 | 11 | 8 | 5 | 6 | – |
| Alcohol | 3 | 2 | 1 | – | – | – | – | 1 | – | 2 | – | – | – |
| Organic solvents & halogenated HC[7] | 5 | 1 | 4 | – | – | – | – | 2 | 1 | 1 | 1 | – | – |
| Carbon monoxide & other gases | 30 | 25 | 5 | – | – | 3 | 2 | 4 | 9 | 5 | 5 | 1 | 1 |
| Pesticides | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Other chemicals & substances | 1 | 1 | – | – | – | – | – | – | – | – | – | – | 1 |
| *Any opioid*[8] | 41 | 16 | 24 | – | 1 | 2 | 6 | 4 | 5 | 10 | 7 | 6 | – |

See footnotes at end of table.

**TABLE 6-35. Fatal overdoses and poisonings by manner, type, sex, and age, Oregon residents, 2017 — Continued**

| Manner and type of substance[1] | Total* | M | F | Age at death | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ |
| **Assault by poisoning** | 1 | – | 1 | 1 | – | – | – | – | – | – | – | – | – |
| **Undetermined intent** | 37 | 16 | 21 | 1 | – | 4 | 2 | 4 | 7 | 12 | 5 | 2 | – |
| Nonopioid analgesics, antipyretics, etc. | 1 | – | 1 | – | – | – | – | – | 1 | – | – | – | – |
| Psychotropic, sedative-hypnotic drugs | 11 | 5 | 6 | – | – | 2 | 1 | 1 | 1 | 4 | 2 | – | – |
| Narcotics and hallucinogens[5] | 11 | 5 | 6 | 1 | – | 1 | 1 | 1 | 1 | 4 | 1 | 1 | – |
| Other and unspecified drugs[6] | 9 | 3 | 6 | – | – | – | – | 2 | 3 | 3 | 1 | – | – |
| Alcohol | 2 | 1 | 1 | – | – | – | – | – | 1 | 1 | – | – | – |
| Organic solvents & halogenated HC[7] | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Carbon monoxide & other gases | 2 | 2 | – | – | – | – | – | – | – | – | 1 | 1 | – |
| Pesticides | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Other chemicals & substances | 1 | – | 1 | – | – | 1 | – | – | – | – | – | – | – |
| *Any opioid*[8] | 18 | 7 | 11 | 1 | – | 1 | 1 | 3 | 4 | 5 | 2 | 1 | – |

– Quantity is zero.

* Includes unknown sex.

1 The distinction between deaths classified as mental/behavioral disorders due to psychoactive substance use versus injury deaths is somewhat factitious. Deaths attributed to drug toxicity are classified to the former category while deaths attributed to poisoning are classified as injury deaths. If the certifying physician notes that a death is due to chronic drug use, then the death is classified to mental/behavioral disorders, but this may not be done in all applicable cases. Other "natural" causes, such as drug-induced hypopituitarism, are not included here but are included in tables 6-6, 6-7, 6-17, and 6-18, among others.

2 Includes ICD-10 codes F10-F19.

3 Most deaths involving abusive alcohol use are attributed to other organ systems (e.g., alcoholic cirrhosis of the liver). See "Alcohol-induced deaths" in other tables, such as 6-6, 6-7, 6-17, and 6-18, for a more inclusive count. Note these figures, too, are undercounts, as they do not include injury deaths in which alcohol played a critical role (e.g., motor vehicle crashes, homicides).

4 Most deaths resulting from tobacco use were attributed to other organ systems (e.g., lung cancer, emphysema, heart disease). See tables 6-19 through 6-21 for a more complete account of tobacco-linked deaths.

5 Includes other drugs acting on the autonomic nervous system.

6 Includes deaths due to poisoning from multiple substances in more than one category.

7 HC = hydrocarbons.

8 Fatal overdoses/poisonings in which a specific opioid was coded on the death certificate (ICD-10 codes T40.0-T40.4, T40.6). Some death certificates involving overdoses/poisonings do not mention the specific drug(s). Category is not mutually exclusive.

**TABLE 6-36. Leading causes of death by county of residence, Oregon, 2017**

| County of residence | Total | Cancer | Heart dis | CLRD | Unint injur | CeVD | Alzheimer's | Diabetes | Alcohol-induc.[2] | Suicide | Flu & pneumonia | HBP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 36,640 | 8,084 | 6,945 | 2,088 | 2,073 | 2,066 | 1,850 | 1,243 | 878 | 825 | 573 | 561 |
| Rate[1] | 884.8 | 195.2 | 167.7 | 50.4 | 50.1 | 49.9 | 44.7 | 30.0 | 21.2 | 19.9 | 13.8 | 13.5 |
| Median age | 78 | 73 | 82 | 77 | 63 | 84 | 88 | 73 | 59 | 48 | 83 | 81 |
| Baker | 208 | 36 | 52 | 19 | 17 | 11 | 14 | 9 | 8 | 7 | – | 2 |
| Benton | 590 | 129 | 120 | 28 | 33 | 40 | 35 | 20 | 5 | 18 | 11 | 8 |
| Clackamas | 3,409 | 754 | 634 | 159 | 180 | 218 | 182 | 121 | 72 | 67 | 53 | 54 |
| Clatsop | 437 | 110 | 99 | 28 | 22 | 19 | 22 | 13 | 14 | 9 | 6 | 5 |
| Columbia | 461 | 123 | 108 | 29 | 23 | 18 | 17 | 14 | 7 | 9 | 7 | 5 |
| Coos | 974 | 213 | 205 | 67 | 47 | 50 | 55 | 42 | 40 | 16 | 16 | 19 |
| Crook | 274 | 65 | 71 | 14 | 13 | 31 | 8 | 5 | 5 | 5 | 6 | 2 |
| Curry | 375 | 92 | 88 | 24 | 14 | 20 | 13 | 7 | 9 | 14 | 5 | 4 |
| Deschutes | 1,516 | 346 | 286 | 83 | 104 | 80 | 79 | 37 | 33 | 57 | 21 | 11 |
| Douglas | 1,554 | 345 | 291 | 124 | 87 | 86 | 69 | 58 | 38 | 26 | 22 | 33 |
| Gilliam | 21 | 8 | 2 | – | – | 3 | – | 3 | – | – | – | – |
| Grant | 94 | 18 | 16 | 8 | 5 | 5 | 1 | 6 | 2 | 1 | 2 | 2 |
| Harney | 66 | 8 | 15 | 3 | 5 | 5 | 1 | 1 | 3 | 3 | 2 | – |
| Hood River | 190 | 32 | 51 | 5 | 7 | 10 | 5 | 6 | 6 | 6 | 2 | 1 |
| Jackson | 2,470 | 515 | 422 | 162 | 108 | 130 | 147 | 54 | 54 | 53 | 41 | 40 |
| Jefferson | 201 | 45 | 40 | 8 | 14 | 14 | 4 | 15 | 6 | 4 | 1 | 4 |
| Josephine | 1,235 | 259 | 228 | 78 | 69 | 66 | 48 | 37 | 36 | 29 | 22 | 19 |
| Klamath | 833 | 183 | 149 | 75 | 40 | 37 | 22 | 32 | 28 | 27 | 19 | 10 |
| Lake | 75 | 22 | 10 | 4 | 1 | 5 | 1 | 4 | – | 2 | 4 | 3 |
| Lane | 3,720 | 790 | 674 | 246 | 245 | 211 | 288 | 122 | 89 | 88 | 62 | 59 |
| Lincoln | 652 | 178 | 126 | 32 | 38 | 24 | 34 | 25 | 19 | 19 | 5 | 10 |
| Linn | 1,321 | 300 | 273 | 91 | 74 | 70 | 64 | 51 | 33 | 29 | 21 | 23 |
| Malheur | 323 | 76 | 77 | 16 | 19 | 19 | 20 | 10 | 7 | 3 | 3 | 3 |
| Marion | 2,879 | 643 | 536 | 148 | 169 | 152 | 112 | 102 | 54 | 58 | 41 | 40 |
| Morrow | 73 | 19 | 11 | 7 | 3 | 4 | 6 | 2 | – | 1 | 2 | 1 |
| Multnomah | 5,821 | 1,262 | 1,037 | 284 | 402 | 354 | 248 | 190 | 143 | 136 | 103 | 88 |
| Polk | 718 | 167 | 127 | 31 | 45 | 36 | 31 | 24 | 21 | 9 | 16 | 13 |
| Sherman | 19 | 3 | 6 | 1 | 2 | 1 | – | 1 | – | – | – | – |
| Tillamook | 302 | 81 | 55 | 26 | 17 | 16 | 9 | 12 | 10 | 6 | 4 | 4 |
| Umatilla | 658 | 132 | 123 | 50 | 31 | 33 | 28 | 35 | 28 | 20 | 13 | 5 |
| Union | 265 | 61 | 50 | 22 | 17 | 18 | 18 | 11 | 5 | 4 | 2 | 8 |
| Wallowa | 89 | 20 | 22 | 3 | 5 | 2 | 1 | 2 | 1 | 4 | 3 | 4 |
| Wasco | 334 | 68 | 69 | 23 | 16 | 16 | 6 | 9 | 8 | 4 | 6 | 12 |
| Washington | 3,433 | 778 | 642 | 129 | 148 | 211 | 203 | 117 | 77 | 74 | 40 | 55 |
| Wheeler | 17 | 3 | 4 | – | – | 1 | – | 1 | 2 | 1 | – | 3 |
| Yamhill | 1,032 | 200 | 225 | 61 | 53 | 50 | 59 | 45 | 15 | 16 | 12 | 11 |
| Unknown | 1 | – | 1 | – | – | – | – | – | – | – | – | – |

– Quantity is zero.
[1] Rates per 100,000 population.
[2] See Table 6-6, footnotes 39-40, for a list of included conditions and their ICD codes.
Abbreviations: Cancer = Malignant neoplasms; Heart dis = Heart disease; CLRD = Chronic lower respiratory disease; Unint injur = Unintentional injuries; CeVD = Cerebrovascular disease; Alcohol-induc = Alcohol-induced deaths; HBP = Hypertension with/without renal disease.

**TABLE 6-36. Leading causes of death by county of residence, Oregon, 2017 — Continued**

| County of residence | Parkinson's | Nephritis | Septicemia | Benign neopl | Aortic aneurysm | Pneu S&L | Cong anom | Viral hepatitis | Homicide | Perinatal cond. | ALS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 465 | 377 | 242 | 224 | 179 | 154 | 144 | 139 | 128 | 120 | 102 |
| Rate[1] | 11.2 | 9.1 | 5.8 | 5.4 | 4.3 | 3.7 | 3.5 | 3.4 | 3.1 | 2.9 | 2.5 |
| Median age | 83 | 79 | 74 | 79 | 79 | 84 | 31 | 62 | 39 | 0 | 68 |
| Baker | 2 | 3 | 2 | – | 2 | 1 | – | – | – | – | – |
| Benton | 12 | 11 | 1 | 4 | 2 | 3 | 3 | 1 | 1 | 1 | – |
| Clackamas | 57 | 34 | 29 | 19 | 14 | 15 | 11 | 11 | 8 | 8 | 11 |
| Clatsop | 5 | 3 | 2 | 1 | 2 | 3 | – | 1 | 1 | – | – |
| Columbia | 2 | 4 | 4 | 2 | – | – | 5 | 1 | 1 | 3 | 1 |
| Coos | 4 | 10 | 8 | 6 | 6 | 3 | 2 | 9 | 4 | 1 | – |
| Crook | 1 | 1 | – | 2 | 3 | 1 | 2 | – | 2 | – | 2 |
| Curry | 3 | 4 | 1 | 4 | 1 | 1 | 1 | 2 | 1 | – | – |
| Deschutes | 30 | 9 | 8 | 14 | 8 | 10 | 3 | 4 | 3 | 1 | 9 |
| Douglas | 13 | 25 | 10 | 18 | 5 | 3 | 4 | 6 | 6 | 3 | 2 |
| Gilliam | – | – | – | – | – | – | – | – | – | – | – |
| Grant | 1 | 1 | – | – | 1 | – | 1 | – | 1 | – | – |
| Harney | 1 | – | – | – | 1 | – | – | 1 | 1 | – | – |
| Hood River | 4 | 2 | – | – | – | 1 | – | – | – | – | – |
| Jackson | 38 | 32 | 15 | 18 | 15 | 10 | 11 | 11 | 8 | 7 | 4 |
| Jefferson | 2 | 4 | 1 | 1 | – | – | 3 | – | – | 1 | 2 |
| Josephine | 15 | 11 | 11 | 12 | 6 | 3 | 3 | 6 | 5 | 2 | 5 |
| Klamath | 5 | 6 | 4 | 3 | 4 | 2 | 3 | 2 | 4 | 5 | 1 |
| Lake | 2 | 1 | – | 1 | 1 | 1 | – | – | – | – | – |
| Lane | 42 | 38 | 21 | 19 | 27 | 17 | 12 | 9 | 8 | 9 | 10 |
| Lincoln | 8 | 3 | 1 | 3 | 3 | – | 2 | 8 | – | – | 3 |
| Linn | 17 | 10 | 6 | 8 | 9 | 5 | 2 | 4 | 6 | 3 | – |
| Malheur | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | – | – | 1 |
| Marion | 34 | 28 | 22 | 10 | 13 | 16 | 12 | 12 | 16 | 18 | 9 |
| Morrow | – | – | 2 | – | – | 1 | – | – | – | 2 | – |
| Multnomah | 79 | 44 | 50 | 34 | 29 | 21 | 27 | 32 | 33 | 23 | 15 |
| Polk | 3 | 6 | 5 | 7 | 3 | 6 | 1 | 1 | – | 6 | 3 |
| Sherman | – | – | 1 | – | – | – | – | – | – | – | – |
| Tillamook | 2 | 2 | 2 | 5 | 4 | – | 1 | 2 | 1 | – | 3 |
| Umatilla | 4 | 10 | 1 | 5 | 4 | 4 | 2 | 2 | 3 | 5 | 1 |
| Union | 3 | 5 | 1 | 4 | – | 3 | 2 | 1 | – | – | 1 |
| Wallowa | – | – | 1 | – | – | – | – | 1 | – | – | – |
| Wasco | 6 | 5 | 3 | 1 | 1 | 2 | 1 | 3 | 3 | – | – |
| Washington | 47 | 45 | 22 | 20 | 10 | 15 | 21 | 5 | 9 | 19 | 11 |
| Wheeler | – | – | – | – | – | – | – | – | – | – | – |
| Yamhill | 20 | 18 | 6 | 1 | 4 | 5 | 7 | 2 | 3 | 3 | 8 |
| Unknown | – | – | – | – | – | – | – | – | – | – | – |

– Quantity is zero.
[1] Rates per 100,000 population.
Abbreviations: Nephritis = Nephritis, nephrosis, etc.; Benign neopl = Benign, In Situ, and neoplasms of uncertain behavior; Pneu S&L = Pneumonia due to solids and liquids; Cong anom = Congenital anomalies; ALS = Amyotrophic lateral sclerosis.

**TABLE 6-37. Deaths by age, sex, and county of residence, Oregon residents, 2017**

| County of residence | Total* | Age and sex | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All ages | | <1 | | 1-4 | | 5-14 | | 15-24 | | 25-34 | |
| | | M | F | M | F | M | F | M | F | M | F | M | F |
| Total | 36,640 | 18,689 | 17,949 | 134 | 102 | 30 | 20 | 40 | 35 | 244 | 97 | 394 | 157 |
| Baker | 208 | 117 | 91 | 1 | – | – | – | 1 | 1 | 1 | – | 1 | 1 |
| Benton | 590 | 297 | 293 | 1 | 3 | – | – | – | 1 | 2 | 3 | 6 | 5 |
| Clackamas | 3,409 | 1,632 | 1,777 | 11 | 5 | – | 2 | 5 | 4 | 21 | 6 | 30 | 17 |
| Clatsop | 437 | 209 | 228 | 1 | – | – | – | – | – | 5 | 1 | 5 | 2 |
| Columbia | 461 | 236 | 225 | 1 | 1 | – | 1 | – | – | 5 | 1 | 4 | 2 |
| Coos | 974 | 519 | 455 | 2 | – | 2 | – | – | – | 5 | 5 | 5 | 5 |
| Crook | 274 | 150 | 124 | – | 1 | – | 1 | – | – | 1 | – | 5 | – |
| Curry | 375 | 194 | 181 | – | – | – | – | – | – | 4 | 1 | 4 | 1 |
| Deschutes | 1,516 | 762 | 754 | 5 | 1 | – | 1 | 3 | 2 | 7 | 4 | 16 | 4 |
| Douglas | 1,554 | 835 | 719 | 7 | 2 | 1 | 2 | 4 | 2 | 7 | 1 | 9 | 5 |
| Gilliam | 21 | 10 | 11 | – | – | – | – | – | – | – | – | – | – |
| Grant | 94 | 45 | 49 | – | – | – | 2 | – | – | – | 1 | 1 | – |
| Harney | 66 | 34 | 32 | – | – | – | – | – | – | 1 | 1 | – | – |
| Hood River | 190 | 102 | 88 | – | – | – | – | – | – | 1 | 1 | 1 | – |
| Jackson | 2,470 | 1,251 | 1,219 | 7 | 7 | 2 | 1 | 4 | 1 | 10 | 6 | 26 | 18 |
| Jefferson | 201 | 104 | 97 | 2 | 2 | – | – | – | – | 5 | – | 2 | 1 |
| Josephine | 1,235 | 654 | 581 | 2 | 2 | – | 1 | 1 | – | 10 | 4 | 9 | 3 |
| Klamath | 833 | 455 | 378 | 3 | 5 | 1 | 2 | – | 2 | 10 | 1 | 12 | 3 |
| Lake | 75 | 45 | 30 | – | – | – | 1 | – | – | – | – | – | – |
| Lane | 3,720 | 1,915 | 1,804 | 12 | 8 | 2 | – | 6 | 2 | 25 | 12 | 42 | 17 |
| Lincoln | 652 | 345 | 307 | – | 2 | – | – | – | 2 | 2 | – | 9 | 2 |
| Linn | 1,321 | 670 | 651 | 5 | 2 | – | – | 1 | – | 6 | 5 | 15 | 2 |
| Malheur | 323 | 164 | 159 | – | 1 | 2 | – | – | – | 3 | – | 4 | 2 |
| Marion | 2,879 | 1,448 | 1,431 | 13 | 12 | 4 | 1 | 5 | 5 | 25 | 11 | 24 | 10 |
| Morrow | 73 | 46 | 27 | 1 | 1 | – | – | – | – | 2 | – | 1 | – |
| Multnomah | 5,821 | 3,010 | 2,810 | 24 | 18 | 6 | 1 | 1 | 4 | 45 | 17 | 86 | 27 |
| Polk | 718 | 372 | 346 | 4 | 4 | 2 | – | 1 | – | 4 | – | 8 | 3 |
| Sherman | 19 | 9 | 10 | – | – | – | – | – | – | – | – | – | – |
| Tillamook | 302 | 160 | 142 | 1 | – | – | 1 | – | – | 1 | – | 2 | 1 |
| Umatilla | 658 | 353 | 305 | 3 | 3 | – | – | 1 | – | 9 | 1 | 12 | 1 |
| Union | 265 | 135 | 130 | 1 | 1 | – | – | – | 1 | 1 | – | 2 | 2 |
| Wallowa | 89 | 45 | 44 | – | – | – | – | – | – | 1 | 1 | – | – |
| Wasco | 334 | 181 | 153 | – | 1 | 3 | – | – | – | 3 | 1 | 5 | 1 |
| Washington | 3,433 | 1,638 | 1,795 | 26 | 14 | 5 | 3 | 7 | 7 | 15 | 9 | 30 | 17 |
| Wheeler | 17 | 12 | 5 | – | – | – | – | – | – | – | – | – | – |
| Yamhill | 1,032 | 534 | 498 | 1 | 6 | – | – | – | 1 | 7 | 4 | 18 | 5 |
| Unknown | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – |

– Quantity is zero.
* Includes unknown sex.

**TABLE 6-37. Deaths by age, sex, and county of residence, Oregon residents, 2017 — Continued**

| County of residence | Age and sex | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 35-44 | | 45-54 | | 55-64 | | 65-74 | | 75-84 | | 85+ | |
| | M | F | M | F | M | F | M | F | M | F | M | F |
| Total | 522 | 339 | 1,084 | 724 | 2,813 | 1,796 | 4,183 | 2,990 | 4,535 | 4,150 | 4,710 | 7,539 |
| Baker | 1 | 1 | 1 | 3 | 12 | 11 | 25 | 13 | 36 | 26 | 38 | 35 |
| Benton | 3 | 5 | 17 | 7 | 32 | 16 | 54 | 38 | 81 | 72 | 101 | 143 |
| Clackamas | 46 | 31 | 89 | 69 | 223 | 167 | 347 | 267 | 422 | 392 | 438 | 817 |
| Clatsop | 4 | 5 | 12 | 13 | 40 | 32 | 57 | 32 | 53 | 44 | 32 | 99 |
| Columbia | 7 | 2 | 16 | 10 | 29 | 24 | 63 | 49 | 62 | 51 | 49 | 84 |
| Coos | 12 | 4 | 35 | 14 | 86 | 64 | 118 | 90 | 136 | 113 | 118 | 160 |
| Crook | 2 | 1 | 5 | 5 | 14 | 13 | 35 | 13 | 56 | 40 | 32 | 50 |
| Curry | 2 | 1 | 9 | 6 | 16 | 21 | 53 | 26 | 58 | 49 | 48 | 76 |
| Deschutes | 27 | 11 | 45 | 19 | 91 | 54 | 159 | 134 | 204 | 198 | 205 | 326 |
| Douglas | 13 | 11 | 49 | 20 | 123 | 87 | 190 | 127 | 242 | 182 | 190 | 280 |
| Gilliam | 1 | – | – | – | – | 1 | 2 | 1 | 4 | 5 | 3 | 4 |
| Grant | 2 | – | 1 | 1 | 7 | 6 | 12 | 8 | 6 | 10 | 16 | 21 |
| Harney | 3 | 1 | 2 | 1 | 2 | 1 | 9 | 4 | 9 | 10 | 8 | 14 |
| Hood River | 4 | 2 | 7 | 2 | 11 | 5 | 27 | 12 | 25 | 18 | 26 | 48 |
| Jackson | 20 | 21 | 55 | 42 | 154 | 99 | 305 | 193 | 323 | 301 | 345 | 530 |
| Jefferson | 2 | 4 | 4 | 6 | 10 | 11 | 26 | 21 | 32 | 19 | 21 | 33 |
| Josephine | 15 | 10 | 27 | 19 | 93 | 53 | 160 | 116 | 167 | 139 | 170 | 234 |
| Klamath | 9 | 16 | 29 | 17 | 78 | 41 | 99 | 52 | 115 | 107 | 99 | 132 |
| Lake | 1 | – | 2 | 2 | 5 | 4 | 15 | 4 | 10 | 9 | 12 | 10 |
| Lane | 47 | 17 | 121 | 68 | 292 | 178 | 422 | 308 | 452 | 422 | 494 | 772 |
| Lincoln | 10 | 6 | 12 | 13 | 61 | 36 | 77 | 55 | 97 | 76 | 77 | 115 |
| Linn | 11 | 16 | 39 | 32 | 105 | 62 | 166 | 121 | 157 | 156 | 165 | 255 |
| Malheur | 5 | 6 | 12 | 9 | 25 | 21 | 34 | 23 | 44 | 37 | 35 | 60 |
| Marion | 45 | 27 | 83 | 58 | 216 | 149 | 332 | 235 | 329 | 332 | 372 | 591 |
| Morrow | – | 1 | 1 | – | 7 | 4 | 11 | 7 | 11 | 4 | 12 | 10 |
| Multnomah | 139 | 81 | 214 | 147 | 583 | 293 | 661 | 493 | 582 | 584 | 669 | 1,145 |
| Polk | 11 | 5 | 17 | 15 | 54 | 39 | 84 | 55 | 71 | 65 | 116 | 160 |
| Sherman | – | 1 | – | – | 2 | – | – | 2 | 3 | 3 | 4 | 4 |
| Tillamook | 2 | 3 | 4 | 9 | 25 | 12 | 45 | 25 | 44 | 34 | 36 | 57 |
| Umatilla | 11 | 11 | 21 | 20 | 61 | 34 | 89 | 51 | 80 | 84 | 66 | 100 |
| Union | 3 | 3 | 3 | 5 | 19 | 16 | 40 | 21 | 33 | 27 | 33 | 54 |
| Wallowa | 1 | – | 1 | – | 6 | 7 | 11 | 6 | 14 | 11 | 11 | 19 |
| Wasco | 4 | 1 | 11 | 3 | 31 | 12 | 30 | 26 | 42 | 34 | 52 | 74 |
| Washington | 53 | 23 | 120 | 72 | 231 | 161 | 314 | 280 | 388 | 390 | 449 | 819 |
| Wheeler | – | – | 1 | – | 2 | – | 2 | – | 3 | – | 4 | 5 |
| Yamhill | 5 | 12 | 19 | 17 | 67 | 62 | 109 | 82 | 144 | 106 | 164 | 203 |
| Unknown | 1 | – | – | – | – | – | – | – | – | – | – | – |

– Quantity is zero.

**TABLE 6-38. Years of potential life lost before age 75 by cause and county of residence, Oregon residents, 2017**

| County of residence | Total | Cancer | Unintentional injuries | Heart disease | Suicide | Alcohol induced[1] | Diabetes | Perinatal conditions | CLRD | Congenital anomalies | Cerebrovascular disease |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 251,589 | 53,022 | 38,787 | 27,675 | 22,602 | 14,895 | 8,993 | 8,848 | 8,150 | 6,318 | 5,950 |
| Baker | 1,051 | 155 | 263 | 166 | 138 | 100 | 13 | – | 78 | – | 25 |
| Benton | 3,178 | 666 | 469 | 387 | 431 | 85 | 134 | 75 | 64 | 149 | 112 |
| Clackamas | 21,245 | 5,154 | 2,792 | 2,327 | 1,992 | 1,378 | 720 | 600 | 617 | 430 | 585 |
| Clatsop | 3,151 | 716 | 539 | 545 | 260 | 252 | 71 | – | 91 | – | 115 |
| Columbia | 3,112 | 695 | 543 | 584 | 288 | 141 | 47 | 224 | 126 | 133 | 12 |
| Coos | 6,333 | 1,399 | 959 | 734 | 322 | 774 | 316 | 75 | 242 | 3 | 161 |
| Crook | 1,433 | 321 | 298 | 134 | 132 | 57 | 11 | – | 32 | 118 | 37 |
| Curry | 1,929 | 435 | 247 | 284 | 241 | 176 | 71 | – | 55 | 25 | 21 |
| Deschutes | 8,945 | 1,934 | 1,496 | 753 | 1,581 | 553 | 315 | 75 | 168 | 141 | 203 |
| Douglas | 9,709 | 1,828 | 1,559 | 1,188 | 656 | 517 | 457 | 225 | 563 | 179 | 218 |
| Gilliam | 71 | 26 | – | 39 | – | – | – | – | – | – | 6 |
| Grant | 666 | 99 | 146 | 63 | 35 | 29 | 25 | – | 58 | 52 | 71 |
| Harney | 435 | 19 | 67 | 35 | 110 | 82 | 34 | – | 8 | – | – |
| Hood River | 1,039 | 259 | 150 | 139 | 201 | 94 | 19 | – | 25 | – | 19 |
| Jackson | 14,749 | 3,403 | 1,868 | 1,389 | 1,309 | 842 | 352 | 452 | 604 | 453 | 223 |
| Jefferson | 1,736 | 235 | 508 | 192 | 106 | 123 | 85 | 75 | 44 | 150 | 9 |
| Josephine | 7,309 | 1,303 | 1,515 | 754 | 557 | 483 | 198 | 150 | 297 | 150 | 174 |
| Klamath | 6,857 | 1,115 | 789 | 787 | 939 | 362 | 265 | 375 | 304 | 181 | 211 |
| Lake | 440 | 149 | 26 | 2 | 39 | – | 39 | – | 15 | – | 19 |
| Lane | 24,816 | 5,074 | 4,610 | 2,593 | 2,232 | 1,419 | 820 | 675 | 901 | 485 | 517 |
| Lincoln | 4,188 | 1,000 | 433 | 556 | 352 | 321 | 121 | – | 115 | 149 | 77 |
| Linn | 8,765 | 1,868 | 937 | 1,259 | 926 | 610 | 392 | 225 | 335 | 75 | 251 |
| Malheur | 2,548 | 608 | 547 | 442 | 105 | 99 | 84 | – | 51 | 79 | 42 |
| Marion | 20,981 | 4,043 | 3,208 | 2,297 | 1,587 | 884 | 827 | 1,350 | 589 | 614 | 621 |
| Morrow | 643 | 172 | 106 | 57 | 18 | – | 2 | 150 | 7 | – | 20 |
| Multnomah | 48,341 | 9,951 | 8,056 | 4,943 | 4,032 | 2,515 | 1,558 | 1,649 | 1,327 | 1,215 | 1,170 |
| Polk | 5,028 | 1,201 | 756 | 452 | 282 | 381 | 245 | 450 | 232 | 17 | 78 |
| Sherman | 68 | 54 | – | 13 | – | – | 1 | – | – | – | – |
| Tillamook | 1,796 | 476 | 147 | 164 | 195 | 135 | 70 | – | 67 | 20 | 71 |
| Umatilla | 5,526 | 844 | 656 | 409 | 730 | 504 | 289 | 375 | 215 | 30 | 131 |
| Union | 1,732 | 434 | 326 | 162 | 88 | 54 | 132 | – | 110 | 79 | 34 |
| Wallowa | 420 | 97 | 117 | 55 | 13 | 39 | 5 | – | 17 | – | – |
| Wasco | 2,228 | 418 | 487 | 298 | 204 | 129 | 17 | – | 27 | 75 | 35 |
| Washington | 24,356 | 5,607 | 3,123 | 2,603 | 1,907 | 1,550 | 941 | 1,424 | 506 | 1,002 | 560 |
| Wheeler | 72 | 20 | – | 12 | 29 | 2 | – | – | – | – | – |
| Yamhill | 6,657 | 1,244 | 1,047 | 822 | 565 | 205 | 317 | 225 | 260 | 313 | 122 |
| Unknown | 36 | – | – | 36 | – | – | – | – | – | – | – |

See footnotes at end of table.

**TABLE 6-38. Years of potential life lost before age 75 by cause and county of residence, Oregon residents, 2017 — Continued**

| County of residence | Homicide | Flu & pneu-monia | Hyper-tension | Septi-cemia | Viral hepatitis | Nephritis | Undeter-mined intent | SIDS | HIV/AIDS | Pneu-monitis due to solids & liquids | Epilepsy |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 4,472 | 2,381 | 2,348 | 1,997 | 1,864 | 1,762 | 1,734 | 1,566 | 888 | 663 | 580 |
| Baker | – | – | 1 | – | – | – | – | – | – | 3 | – |
| Benton | 3 | 12 | 19 | – | 8 | 28 | – | – | 22 | 11 | – |
| Clackamas | 157 | 322 | 186 | 194 | 139 | 108 | 235 | – | 40 | 15 | – |
| Clatsop | 9 | 16 | 22 | 10 | 14 | – | 52 | 75 | – | 18 | – |
| Columbia | 37 | 4 | 41 | 25 | 12 | 6 | 14 | – | – | – | – |
| Coos | 107 | 47 | 90 | 69 | 118 | 47 | 14 | 75 | 48 | 14 | 14 |
| Crook | 43 | 47 | 5 | – | – | 20 | – | – | – | – | – |
| Curry | 50 | 20 | – | – | 27 | 6 | 35 | – | 23 | – | – |
| Deschutes | 69 | 57 | 109 | 41 | 39 | 65 | 37 | 75 | – | 32 | – |
| Douglas | 287 | 78 | 216 | 72 | 113 | 134 | – | 149 | – | 22 | – |
| Gilliam | – | – | – | – | – | – | – | – | – | – | – |
| Grant | 29 | 13 | – | – | – | – | – | – | – | – | – |
| Harney | 16 | 14 | – | – | – | – | – | – | – | – | – |
| Hood River | – | 1 | – | – | – | – | – | – | 18 | – | 25 |
| Jackson | 250 | 62 | 144 | 151 | 127 | 160 | 16 | 149 | 26 | 99 | 65 |
| Jefferson | – | – | – | 9 | – | 15 | – | – | – | – | – |
| Josephine | 142 | 58 | 56 | 130 | 64 | 54 | – | – | 36 | – | 59 |
| Klamath | 150 | 87 | 29 | 13 | 22 | 19 | 22 | – | 30 | 6 | 8 |
| Lake | – | 19 | 17 | – | – | – | – | – | – | 4 | – |
| Lane | 184 | 266 | 292 | 125 | 130 | 227 | 276 | 224 | 83 | 95 | 38 |
| Lincoln | – | – | 37 | – | 191 | 17 | 54 | – | 18 | – | 20 |
| Linn | 228 | 86 | 143 | 41 | 37 | 27 | 88 | 149 | – | 4 | 27 |
| Malheur | – | – | 39 | 39 | 51 | 18 | – | – | – | 4 | – |
| Marion | 694 | 144 | 181 | 212 | 140 | 138 | 122 | – | 187 | 145 | – |
| Morrow | – | – | 5 | – | – | – | – | – | 40 | – | – |
| Multnomah | 1,303 | 698 | 394 | 377 | 390 | 272 | 627 | 75 | 250 | 57 | 136 |
| Polk | – | 36 | 49 | 39 | 10 | – | – | 75 | – | 104 | – |
| Sherman | – | – | – | – | – | – | – | – | – | – | – |
| Tillamook | 26 | 15 | 18 | 12 | 47 | 10 | 19 | 75 | 14 | – | – |
| Umatilla | 86 | 130 | 20 | 33 | 42 | 62 | 54 | – | – | – | 23 |
| Union | – | – | 26 | – | 20 | 3 | – | 75 | – | – | – |
| Wallowa | – | 14 | 3 | – | – | – | – | – | – | – | – |
| Wasco | 89 | 20 | 14 | 9 | 24 | 29 | – | – | – | – | – |
| Washington | 366 | 90 | 153 | 310 | 60 | 203 | 69 | 373 | 53 | 9 | 102 |
| Wheeler | – | – | – | – | – | – | – | – | – | – | – |
| Yamhill | 148 | 25 | 39 | 87 | 39 | 94 | – | – | – | 21 | 63 |
| Unknown | – | – | – | – | – | – | – | – | – | – | – |

– Quantity is zero, either because no deaths occurred prior to age 75, or because there were no deaths in that cause category.
[1] See Table 6-6, footnotes 39-40, for a list of included conditions and their ICD-10 codes.

## TABLE 6-39. Median age at death by sex and county of residence, Oregon residents, 2017

| County of residence | Total* | | Male | | Female | |
|---|---|---|---|---|---|---|
| | Number | Median | Number | Median | Number | Median |
| Total | 36,640 | 78 | 18,689 | 74 | 17,949 | 81 |
| Baker | 208 | 80 | 117 | 79 | 91 | 82 |
| Benton | 590 | 82 | 297 | 79 | 293 | 84 |
| Clackamas | 3,409 | 79 | 1,632 | 75 | 1,777 | 83 |
| Clatsop | 437 | 76 | 209 | 71 | 228 | 82 |
| Columbia | 461 | 76 | 236 | 74 | 225 | 79 |
| Coos | 974 | 76 | 519 | 74 | 455 | 79 |
| Crook | 274 | 79 | 150 | 77 | 124 | 82 |
| Curry | 375 | 79 | 194 | 77 | 181 | 82 |
| Deschutes | 1,516 | 79 | 762 | 76 | 754 | 82 |
| Douglas | 1,554 | 78 | 835 | 75 | 719 | 80 |
| Gilliam | 21 | 83 | 10 | 79 | 11 | 83 |
| Grant | 94 | 81 | 45 | 74 | 49 | 83 |
| Harney | 66 | 79 | 34 | 76 | 32 | 83 |
| Hood River | 190 | 81 | 102 | 75 | 88 | 86 |
| Jackson | 2,470 | 79 | 1,251 | 76 | 1,219 | 82 |
| Jefferson | 201 | 75 | 104 | 75 | 97 | 76 |
| Josephine | 1,235 | 78 | 654 | 75 | 581 | 81 |
| Klamath | 833 | 76 | 455 | 73 | 378 | 80 |
| Lake | 75 | 75 | 45 | 74 | 30 | 78 |
| Lane | 3,720 | 78 | 1,915 | 74 | 1,804 | 82 |
| Lincoln | 652 | 77 | 345 | 75 | 307 | 80 |
| Linn | 1,321 | 76 | 670 | 74 | 651 | 79 |
| Malheur | 323 | 78 | 164 | 73 | 159 | 80 |
| Marion | 2,879 | 78 | 1,448 | 74 | 1,431 | 81 |
| Morrow | 73 | 75 | 46 | 76 | 27 | 75 |
| Multnomah | 5,821 | 75 | 3,010 | 71 | 2,810 | 81 |
| Polk | 718 | 79 | 372 | 75 | 346 | 83 |
| Sherman | 19 | 81 | 9 | 81 | 10 | 82 |
| Tillamook | 302 | 77 | 160 | 75 | 142 | 81 |
| Umatilla | 658 | 75 | 353 | 71 | 305 | 79 |
| Union | 265 | 78 | 135 | 74 | 130 | 81 |
| Wallowa | 89 | 79 | 45 | 76 | 44 | 81 |
| Wasco | 334 | 80 | 181 | 75 | 153 | 84 |
| Washington | 3,433 | 79 | 1,638 | 75 | 1,795 | 82 |
| Wheeler | 17 | 85 | 12 | 75 | 5 | 91 |
| Yamhill | 1,032 | 79 | 534 | 77 | 498 | 81 |
| Unknown | 1 | 39 | 1 | 39 | – | – |

– Quantity is zero.
* Includes unknown sex.

**TABLE 6-40. Deaths by race, ethnicity, and county of residence, Oregon residents, 2017**

| County of residence | Total | Non-Hispanic single mention race | | | | | | Multiple races | His-panic[3] |
|---|---|---|---|---|---|---|---|---|---|
| | | White | Black | Am. Indian | Asian[1] | HI & Pac. Is.[2] | Other & not stated | | |
| Total | 36,640 | 33,605 | 515 | 375 | 659 | 71 | 76 | 265 | 1,074 |
| Baker | 208 | 202 | 1 | 1 | – | – | – | 2 | 2 |
| Benton | 590 | 560 | – | 2 | 7 | 1 | 2 | 9 | 9 |
| Clackamas | 3,409 | 3,223 | 14 | 12 | 56 | 7 | 4 | 19 | 74 |
| Clatsop | 437 | 417 | 1 | 2 | 4 | – | – | 4 | 9 |
| Columbia | 461 | 447 | 1 | 3 | 1 | – | – | 4 | 5 |
| Coos | 974 | 913 | 3 | 14 | 6 | 2 | 2 | 13 | 21 |
| Crook | 274 | 267 | – | 4 | – | – | – | – | 3 |
| Curry | 375 | 353 | 1 | 2 | 2 | – | 5 | 3 | 9 |
| Deschutes | 1,516 | 1,455 | 4 | 13 | 6 | – | 1 | 7 | 30 |
| Douglas | 1,554 | 1,492 | 5 | 16 | 6 | 1 | 1 | 13 | 20 |
| Gilliam | 21 | 21 | – | – | – | – | – | – | – |
| Grant | 94 | 93 | – | 1 | – | – | – | – | – |
| Harney | 66 | 60 | – | 3 | 1 | – | – | 1 | 1 |
| Hood River | 190 | 170 | – | – | 5 | 1 | – | 2 | 12 |
| Jackson | 2,470 | 2,340 | 9 | 22 | 18 | 2 | 4 | 8 | 67 |
| Jefferson | 201 | 157 | – | 33 | – | – | – | 1 | 10 |
| Josephine | 1,235 | 1,161 | 4 | 10 | 6 | 1 | 2 | 14 | 37 |
| Klamath | 833 | 760 | 5 | 26 | 3 | 1 | 4 | 3 | 31 |
| Lake | 75 | 73 | – | 2 | – | – | – | – | – |
| Lane | 3,720 | 3,520 | 26 | 25 | 36 | 7 | 11 | 25 | 70 |
| Lincoln | 652 | 621 | 2 | 10 | 3 | – | 1 | 4 | 11 |
| Linn | 1,321 | 1,268 | 5 | 7 | 6 | 1 | 2 | 10 | 22 |
| Malheur | 323 | 267 | 3 | 2 | 6 | 1 | – | – | 44 |
| Marion | 2,879 | 2,584 | 18 | 18 | 33 | 17 | 5 | 24 | 180 |
| Morrow | 73 | 64 | – | 1 | 1 | – | – | – | 7 |
| Multnomah | 5,821 | 4,842 | 370 | 64 | 281 | 18 | 25 | 55 | 166 |
| Polk | 718 | 672 | 1 | 8 | 3 | 1 | 2 | 4 | 27 |
| Sherman | 19 | 19 | – | – | – | – | – | – | – |
| Tillamook | 302 | 298 | – | – | 1 | – | – | 1 | 2 |
| Umatilla | 658 | 572 | – | 34 | 2 | – | 1 | 7 | 42 |
| Union | 265 | 262 | – | 1 | – | – | – | 1 | 1 |
| Wallowa | 89 | 89 | – | – | – | – | – | – | – |
| Wasco | 334 | 312 | – | 8 | 2 | – | 1 | 3 | 8 |
| Washington | 3,433 | 3,067 | 37 | 17 | 157 | 9 | 2 | 23 | 121 |
| Wheeler | 17 | 17 | – | – | – | – | – | – | – |
| Yamhill | 1,032 | 966 | 5 | 14 | 7 | 1 | 1 | 5 | 33 |
| Unknown | 1 | 1 | – | – | – | – | – | – | – |

– Quantity is zero.
1 Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, and other Asian.
2 Includes Guamanian, Hawaiian, Samoan, and other Pacific Islander.
3 Decedents of Hispanic ethnicity may belong to any race but have been removed from all race categories in this table.

**TABLE 6-41. Selected causes of death for Portland, Salem, and Eugene, Oregon residents, 2017**

| Selected causes of death (and their ICD-10 codes) | Oregon | | Portland | | Salem | | Eugene | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] |
| Total | 36,640 | 884.8 | 5,132 | 803.0 | 1,631 | 997.7 | 1,627 | 969.7 |
| Infections & parasitic disease (A00-B99) | 695 | 16.8 | 130 | 20.3 | 45 | 27.5 | 25 | 14.9 |
| Septicemia (A40-A41) | 242 | 5.8 | 44 | 6.9 | 15 | 9.2 | 9 | 5.4 |
| Viral hepatitis (B15-B19) | 139 | 3.4 | 27 | 4.2 | 11 | 6.7 | 7 | 4.2 |
| HIV disease (B20-B24) | 42 | 1.0 | 16 | 2.5 | 3 | 1.8 | 2 | 1.2 |
| Malignant neoplasms (C00-C97) | 8,084 | 195.2 | 1,088 | 170.2 | 353 | 215.9 | 334 | 199.1 |
| Colon (C18) | 437 | 10.6 | 45 | 7.0 | 20 | 12.2 | 27 | 16.1 |
| Pancreas (C25) | 640 | 15.5 | 89 | 13.9 | 18 | 11.0 | 29 | 17.3 |
| Bronchus & lung (C34) | 1,865 | 45.0 | 255 | 39.9 | 85 | 52.0 | 71 | 42.3 |
| Skin (C43-C44) | 194 | 4.7 | 29 | 4.5 | 8 | 4.9 | 10 | 6.0 |
| Breast (C50) | 516 | 12.5 | 86 | 13.5 | 34 | 20.8 | 21 | 12.5 |
| Cervical (C53) | 47 | 1.1 | 6 | 0.9 | 3 | 1.8 | 1 | 0.6 |
| Uterine (C54-C55) | 138 | 3.3 | 18 | 2.8 | 7 | 4.3 | 6 | 3.6 |
| Ovarian (C56) | 239 | 5.8 | 38 | 5.9 | 13 | 8.0 | 9 | 5.4 |
| Prostate (C61) | 441 | 10.6 | 50 | 7.8 | 15 | 9.2 | 17 | 10.1 |
| Kidney & renal pelvis (C64-C65) | 190 | 4.6 | 17 | 2.7 | 6 | 3.7 | 4 | 2.4 |
| Bladder (C67) | 254 | 6.1 | 28 | 4.4 | 9 | 5.5 | 10 | 6.0 |
| Brain (C70-C72) | 246 | 5.9 | 43 | 6.7 | 8 | 4.9 | 7 | 4.2 |
| Lymphatic (C81-C96) | 814 | 19.7 | 101 | 15.8 | 50 | 30.6 | 38 | 22.6 |
| Non-Hodgkin's lymphoma (C82-C85) | 279 | 6.7 | 37 | 5.8 | 15 | 9.2 | 14 | 8.3 |
| Leukemia (C91-C95) | 346 | 8.4 | 44 | 6.9 | 18 | 11.0 | 20 | 11.9 |
| Benign & uncertain neoplasms (D00-D48) | 224 | 5.4 | 31 | 4.9 | 11 | 6.7 | 8 | 4.8 |
| Diabetes mellitus (E10-E14) | 1,243 | 30.0 | 163 | 25.5 | 53 | 32.4 | 49 | 29.2 |
| Organic dementia (F01, F03) | 2,138 | 51.6 | 323 | 50.5 | 125 | 76.5 | 80 | 47.7 |
| Parkinson's disease (G20-G21) | 465 | 11.2 | 86 | 13.5 | 10 | 6.1 | 24 | 14.3 |
| Alzheimer's disease (G30) | 1,850 | 44.7 | 231 | 36.1 | 67 | 41.0 | 144 | 85.8 |
| Diseases of the circulatory system (I00-I99) | 9,993 | 241.3 | 1,382 | 216.2 | 428 | 261.8 | 410 | 244.4 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 6,945 | 167.7 | 930 | 145.5 | 297 | 181.7 | 300 | 178.8 |
| Ischemic heart disease (I20-I25) | 3,387 | 81.8 | 454 | 71.0 | 154 | 94.2 | 124 | 73.9 |
| Cerebrovascular disease (I60-I69) | 2,066 | 49.9 | 309 | 48.3 | 91 | 55.7 | 76 | 45.3 |
| Intracerebral hemorrhage, etc. (I61-I62) | 395 | 9.5 | 61 | 9.5 | 18 | 11.0 | 14 | 8.3 |
| Cerebral infarction (I63) | 221 | 5.3 | 24 | 3.8 | 15 | 9.2 | 11 | 6.6 |
| Stroke of unspecified type (I64) | 768 | 18.5 | 112 | 17.5 | 32 | 19.6 | 32 | 19.1 |
| Hypertension & hyp. renal dis. (I10, I12, I15) | 561 | 13.5 | 84 | 13.1 | 19 | 11.6 | 20 | 11.9 |
| Aortic aneurysm (I71) | 179 | 4.3 | 23 | 3.6 | 9 | 5.5 | 10 | 6.0 |
| Influenza & pneumonia (J09-J18) | 573 | 13.8 | 81 | 12.7 | 27 | 16.5 | 33 | 19.7 |
| Chronic lower respiratory diseases (J40-J47) | 2,088 | 50.4 | 230 | 36.0 | 72 | 44.0 | 101 | 60.2 |
| Diseases of the digestive system (K00-K92) | 1,652 | 39.9 | 220 | 34.4 | 77 | 47.1 | 70 | 41.7 |
| Diseases of the genitourinary sys. (N00-N99) | 671 | 16.2 | 80 | 12.5 | 27 | 16.5 | 26 | 15.5 |
| Nephritis (N00-N07, N17-N19, N25-N27) | 377 | 9.1 | 40 | 6.3 | 13 | 8.0 | 18 | 10.7 |
| Perinatal conditions (P00-P96) | 120 | 2.9 | 18 | 2.8 | 7 | 4.3 | 3 | 1.8 |
| Congenital malformations (Q00-Q99) | 144 | 3.5 | 22 | 3.4 | 6 | 3.7 | 7 | 4.2 |
| Sudden infant death syndrome (R95) | 21 | 0.5 | 1 | 0.2 | – | – | 1 | 0.6 |
| Unintentional injuries (V01-X59, Y85-Y86) | 2,073 | 50.1 | 341 | 53.4 | 98 | 59.9 | 110 | 65.6 |
| Suicide (X60-X84, Y87.0) | 825 | 19.9 | 127 | 19.9 | 33 | 20.2 | 39 | 23.2 |
| Homicide (X85-Y09, Y87.1) | 128 | 3.1 | 26 | 4.1 | 6 | 3.7 | 4 | 2.4 |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | 60 | 1.4 | 14 | 2.2 | 3 | 1.8 | 5 | 3.0 |
| *Alcohol-induced* [2] | 878 | 21.2 | 120 | 18.8 | 42 | 25.7 | 33 | 19.7 |
| *Drug-induced* [2] | 671 | 16.2 | 171 | 26.8 | 37 | 22.6 | 47 | 28.0 |
| *Injury by firearms* [2] | 529 | 12.8 | 65 | 10.2 | 21 | 12.8 | 22 | 13.1 |

– Quantity is zero.
[1] Rate per 100,000 population.
[2] See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD-10 codes.
WARNING: Rates based on less than five events are unreliable.

**TABLE 6-42. Selected causes of death by county, Oregon residents, 2017**

| Selected causes of death (and their ICD-10 codes) | Baker | | Benton | | Clackamas | | Clatsop | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] |
| Total | 208 | 1241.8 | 590 | 637.3 | 3,409 | 825.4 | 437 | 1125.7 |
| Infections & parasitic disease (A00-B99) | 4 | 23.9 | 8 | 8.6 | 73 | 17.7 | 6 | 15.5 |
| Septicemia (A40-A41) | 2 | 11.9 | 1 | 1.1 | 29 | 7.0 | 2 | 5.2 |
| Viral hepatitis (B15-B19) | – | – | 1 | 1.1 | 11 | 2.7 | 1 | 2.6 |
| HIV disease (B20-B24 ) | – | – | 1 | 1.1 | 2 | 0.5 | – | – |
| Malignant neoplasms (C00-C97) | 36 | 214.9 | 129 | 139.3 | 754 | 182.6 | 110 | 283.4 |
| Colon (C18) | 4 | 23.9 | 4 | 4.3 | 36 | 8.7 | 8 | 20.6 |
| Pancreas (C25) | 2 | 11.9 | 7 | 7.6 | 70 | 16.9 | 8 | 20.6 |
| Bronchus & lung (C34) | 14 | 83.6 | 32 | 34.6 | 159 | 38.5 | 25 | 64.4 |
| Skin (C43-44) | – | – | 3 | 3.2 | 20 | 4.8 | 2 | 5.2 |
| Breast (C50) | 2 | 11.9 | 10 | 10.8 | 55 | 13.3 | 9 | 23.2 |
| Cervical (C53) | 1 | 6.0 | – | – | 6 | 1.5 | 1 | 2.6 |
| Uterine (C54-C55) | 1 | 6.0 | 5 | 5.4 | 10 | 2.4 | 2 | 5.2 |
| Ovarian (C56) | 1 | 6.0 | 5 | 5.4 | 21 | 5.1 | 2 | 5.2 |
| Prostate (C61) | – | – | 9 | 9.7 | 45 | 10.9 | 5 | 12.9 |
| Kidney & renal pelvis (C64-C65) | 1 | 6.0 | 1 | 1.1 | 17 | 4.1 | 1 | 2.6 |
| Bladder (C67) | – | – | 1 | 1.1 | 25 | 6.1 | 3 | 7.7 |
| Brain (C70-C72) | 1 | 6.0 | 7 | 7.6 | 26 | 6.3 | 4 | 10.3 |
| Lymphatic (C81-C96) | 3 | 17.9 | 12 | 13.0 | 55 | 13.3 | 12 | 30.9 |
| Non-Hodgkin's lymphoma (C82-C85) | 1 | 6.0 | 5 | 5.4 | 26 | 6.3 | 5 | 12.9 |
| Leukemia (C91-C95) | 2 | 11.9 | 2 | 2.2 | 18 | 4.4 | 6 | 15.5 |
| Benign & uncertain neoplasms (D00-D48) | – | – | 4 | 4.3 | 19 | 4.6 | 1 | 2.6 |
| Diabetes mellitus (E10-E14) | 9 | 53.7 | 20 | 21.6 | 121 | 29.3 | 13 | 33.5 |
| Organic dementia (F01 F03) | 4 | 23.9 | 32 | 34.6 | 231 | 55.9 | 17 | 43.8 |
| Parkinson's disease (G20-G21) | 2 | 11.9 | 12 | 13.0 | 57 | 13.8 | 5 | 12.9 |
| Alzheimer's disease (G30) | 14 | 83.6 | 35 | 37.8 | 182 | 44.1 | 22 | 56.7 |
| Diseases of the circulatory system (I00-I99) | 68 | 406.0 | 172 | 185.8 | 944 | 228.6 | 126 | 324.6 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 52 | 310.4 | 120 | 129.6 | 634 | 153.5 | 99 | 255.0 |
| Ischemic heart disease (I20-I25) | 34 | 203.0 | 60 | 64.8 | 297 | 71.9 | 57 | 146.8 |
| Cerebrovascular disease (I60-I69) | 11 | 65.7 | 40 | 43.2 | 218 | 52.8 | 19 | 48.9 |
| Intracerebral hemorrhage, etc. (I61-I62) | 4 | 23.9 | 8 | 8.6 | 46 | 11.1 | 3 | 7.7 |
| Cerebral infarction (I63) | 2 | 11.9 | 6 | 6.5 | 19 | 4.6 | 2 | 5.2 |
| Stroke of unspecified type (I64) | 3 | 17.9 | 14 | 15.1 | 75 | 18.2 | 8 | 20.6 |
| Hypertension & hyp. renal dis. (I10, I12, I15) | 2 | 11.9 | 8 | 8.6 | 54 | 13.1 | 5 | 12.9 |
| Aortic aneurysm (I71) | 2 | 11.9 | 2 | 2.2 | 14 | 3.4 | 2 | 5.2 |
| Influenza & pneumonia (J09-J18) | – | – | 11 | 11.9 | 53 | 12.8 | 6 | 15.5 |
| Chronic lower respiratory diseases (J40-J47) | 19 | 113.4 | 28 | 30.2 | 159 | 38.5 | 28 | 72.1 |
| Diseases of the digestive system (K00-K92) | 7 | 41.8 | 16 | 17.3 | 145 | 35.1 | 29 | 74.7 |
| Diseases of the genitourinary sys. (N00-N99) | 3 | 17.9 | 16 | 17.3 | 58 | 14.0 | 9 | 23.2 |
| Nephritis (N00-N07, N17-N19, N25-N27) | 3 | 17.9 | 11 | 11.9 | 34 | 8.2 | 3 | 7.7 |
| Perinatal conditions (P00-P96) | – | – | 1 | 1.1 | 8 | 1.9 | – | – |
| Congenital malformations (Q00-Q99) | – | – | 3 | 3.2 | 11 | 2.7 | – | – |
| Sudden infant death syndrome (R95) | – | – | – | – | – | – | 1 | 2.6 |
| Unintentional injuries (V01-X59, Y85-Y86) | 17 | 101.5 | 33 | 35.6 | 180 | 43.6 | 22 | 56.7 |
| Suicide (X60-X84, Y87.0) | 7 | 41.8 | 18 | 19.4 | 67 | 16.2 | 9 | 23.2 |
| Homicide (X85-Y09, Y87.1) | – | – | 1 | 1.1 | 8 | 1.9 | 1 | 2.6 |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | – | – | – | – | 5 | 1.2 | 1 | 2.6 |
| *Alcohol-induced* [2] | 8 | 47.8 | 5 | 5.4 | 72 | 17.4 | 14 | 36.1 |
| *Drug-induced* [2] | 3 | 17.9 | 5 | 5.4 | 48 | 11.6 | 3 | 7.7 |
| *Injury by firearms* [2] | 4 | 23.9 | 11 | 11.9 | 38 | 9.2 | 6 | 15.5 |

– Quantity is zero.
[1] Rate per 100,000 population.
[2] See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
WARNING: Rates based on less than five events are unreliable.

**TABLE 6-42. Selected causes of death by county, Oregon residents, 2017 — Continued**

| Selected causes of death (and their ICD-10 codes) | Columbia | | Coos | | Crook | | Curry | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] |
| Total | 461 | 897.8 | 974 | 1538.5 | 274 | 1239.5 | 375 | 1644.4 |
| Infections & parasitic disease (A00-B99) | 6 | 11.7 | 29 | 45.8 | 1 | 4.5 | 6 | 26.3 |
| Septicemia (A40-A41) | 4 | 7.8 | 8 | 12.6 | – | – | 1 | 4.4 |
| Viral hepatitis (B15-B19) | 1 | 1.9 | 9 | 14.2 | – | – | 2 | 8.8 |
| HIV disease (B20-B24 ) | – | – | 3 | 4.7 | – | – | 1 | 4.4 |
| Malignant neoplasms (C00-C97) | 123 | 239.6 | 213 | 336.4 | 65 | 294.1 | 92 | 403.4 |
| Colon (C18) | 6 | 11.7 | 9 | 14.2 | 4 | 18.1 | 5 | 21.9 |
| Pancreas (C25) | 11 | 21.4 | 16 | 25.3 | 3 | 13.6 | 8 | 35.1 |
| Bronchus & lung (C34) | 33 | 64.3 | 69 | 109.0 | 11 | 49.8 | 26 | 114.0 |
| Skin (C43-44) | 3 | 5.8 | 1 | 1.6 | 1 | 4.5 | 5 | 21.9 |
| Breast (C50) | 2 | 3.9 | 13 | 20.5 | 2 | 9.0 | 9 | 39.5 |
| Cervical (C53) | – | – | 2 | 3.2 | – | – | 1 | 4.4 |
| Uterine (C54-C55) | 2 | 3.9 | 2 | 3.2 | – | – | 1 | 4.4 |
| Ovarian (C56) | 5 | 9.7 | 6 | 9.5 | 4 | 18.1 | – | – |
| Prostate (C61) | 5 | 9.7 | 13 | 20.5 | 11 | 49.8 | 2 | 8.8 |
| Kidney & renal pelvis (C64-C65) | 5 | 9.7 | 3 | 4.7 | 5 | 22.6 | 2 | 8.8 |
| Bladder (C67) | 5 | 9.7 | 10 | 15.8 | 1 | 4.5 | 2 | 8.8 |
| Brain (C70-C72) | 5 | 9.7 | 6 | 9.5 | 1 | 4.5 | 4 | 17.5 |
| Lymphatic (C81-C96) | 13 | 25.3 | 12 | 19.0 | 4 | 18.1 | 9 | 39.5 |
| Non-Hodgkin's lymphoma (C82-C85) | 3 | 5.8 | 2 | 3.2 | 1 | 4.5 | 6 | 26.3 |
| Leukemia (C91-C95) | 6 | 11.7 | 8 | 12.6 | 1 | 4.5 | 2 | 8.8 |
| Benign & uncertain neoplasms (D00-D48) | 2 | 3.9 | 6 | 9.5 | 2 | 9.0 | 4 | 17.5 |
| Diabetes mellitus (E10-E14) | 14 | 27.3 | 42 | 66.3 | 5 | 22.6 | 7 | 30.7 |
| Organic dementia (F01 F03) | 21 | 40.9 | 33 | 52.1 | 4 | 18.1 | 21 | 92.1 |
| Parkinson's disease (G20-G21) | 2 | 3.9 | 4 | 6.3 | 1 | 4.5 | 3 | 13.2 |
| Alzheimer's disease (G30) | 17 | 33.1 | 55 | 86.9 | 8 | 36.2 | 13 | 57.0 |
| Diseases of the circulatory system (I00-I99) | 135 | 262.9 | 286 | 451.7 | 109 | 493.1 | 115 | 504.3 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 108 | 210.3 | 205 | 323.8 | 71 | 321.2 | 88 | 385.9 |
| Ischemic heart disease (I20-I25) | 49 | 95.4 | 117 | 184.8 | 36 | 162.9 | 42 | 184.2 |
| Cerebrovascular disease (I60-I69) | 18 | 35.1 | 50 | 79.0 | 31 | 140.2 | 20 | 87.7 |
| Intracerebral hemorrhage, etc. (I61-I62) | 1 | 1.9 | 12 | 19.0 | 3 | 13.6 | 1 | 4.4 |
| Cerebral infarction (I63) | 2 | 3.9 | 5 | 7.9 | – | – | 4 | 17.5 |
| Stroke of unspecified type (I64) | 5 | 9.7 | 21 | 33.2 | 11 | 49.8 | 9 | 39.5 |
| Hypertension & hyp. renal dis. (I10, I12, I15) | 5 | 9.7 | 19 | 30.0 | 2 | 9.0 | 4 | 17.5 |
| Aortic aneurysm (I71) | – | – | 6 | 9.5 | 3 | 13.6 | 1 | 4.4 |
| Influenza & pneumonia (J09-J18) | 7 | 13.6 | 16 | 25.3 | 6 | 27.1 | 5 | 21.9 |
| Chronic lower respiratory diseases (J40-J47) | 29 | 56.5 | 67 | 105.8 | 14 | 63.3 | 24 | 105.2 |
| Diseases of the digestive system (K00-K92) | 18 | 35.1 | 47 | 74.2 | 11 | 49.8 | 21 | 92.1 |
| Diseases of the genitourinary sys. (N00-N99) | 11 | 21.4 | 20 | 31.6 | 4 | 18.1 | 5 | 21.9 |
| Nephritis (N00-N07, N17-N19, N25-N27) | 4 | 7.8 | 10 | 15.8 | 1 | 4.5 | 4 | 17.5 |
| Perinatal conditions (P00-P96) | 3 | 5.8 | 1 | 1.6 | – | – | – | – |
| Congenital malformations (Q00-Q99) | 5 | 9.7 | 2 | 3.2 | 2 | 9.0 | 1 | 4.4 |
| Sudden infant death syndrome (R95) | – | – | 1 | 1.6 | – | – | – | – |
| Unintentional injuries (V01-X59, Y85-Y86) | 23 | 44.8 | 47 | 74.2 | 13 | 58.8 | 14 | 61.4 |
| Suicide (X60-X84, Y87.0) | 9 | 17.5 | 16 | 25.3 | 5 | 22.6 | 14 | 61.4 |
| Homicide (X85-Y09, Y87.1) | 1 | 1.9 | 4 | 6.3 | 2 | 9.0 | 1 | 4.4 |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | 1 | 1.9 | 1 | 1.6 | – | – | 3 | 13.2 |
| *Alcohol-induced* [2] | 7 | 13.6 | 40 | 63.2 | 5 | 22.6 | 9 | 39.5 |
| *Drug-induced* [2] | 6 | 11.7 | 15 | 23.7 | 3 | 13.6 | 7 | 30.7 |
| *Injury by firearms* [2] | 7 | 13.6 | 10 | 15.8 | 6 | 27.1 | 11 | 48.2 |

– Quantity is zero.
[1] Rate per 100,000 population.
[2] See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
WARNING: Rates based on less than five events are unreliable.

**TABLE 6-42. Selected causes of death by county, Oregon residents, 2017 — Continued**

| Selected causes of death (and their ICD-10 codes) | Deschutes | | Douglas | | Gilliam | | Grant | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] |
| Total | 1,516 | 828.7 | 1,554 | 1397.7 | 21 | 1052.6 | 94 | 1267.7 |
| Infections & parasitic disease (A00-B99) | 22 | 12.0 | 29 | 26.1 | – | – | 1 | 13.5 |
| Septicemia (A40-A41) | 8 | 4.4 | 10 | 9.0 | – | – | – | – |
| Viral hepatitis (B15-B19) | 4 | 2.2 | 6 | 5.4 | – | – | – | – |
| HIV disease (B20-B24 ) | – | – | – | – | – | – | – | – |
| Malignant neoplasms (C00-C97) | 346 | 189.1 | 345 | 310.3 | 8 | 401.0 | 18 | 242.8 |
| Colon (C18) | 23 | 12.6 | 15 | 13.5 | 1 | 50.1 | – | – |
| Pancreas (C25) | 39 | 21.3 | 28 | 25.2 | 1 | 50.1 | 2 | 27.0 |
| Bronchus & lung (C34) | 71 | 38.8 | 95 | 85.4 | 5 | 250.6 | 5 | 67.4 |
| Skin (C43-44) | 12 | 6.6 | 6 | 5.4 | – | – | – | – |
| Breast (C50) | 18 | 9.8 | 17 | 15.3 | – | – | 1 | 13.5 |
| Cervical (C53) | 1 | 0.5 | – | – | – | – | – | – |
| Uterine (C54-C55) | 3 | 1.6 | 4 | 3.6 | – | – | 1 | 13.5 |
| Ovarian (C56) | 8 | 4.4 | 11 | 9.9 | – | – | 1 | 13.5 |
| Prostate (C61) | 18 | 9.8 | 13 | 11.7 | – | – | 1 | 13.5 |
| Kidney & renal pelvis (C64-C65) | 11 | 6.0 | 14 | 12.6 | – | – | – | – |
| Bladder (C67) | 5 | 2.7 | 9 | 8.1 | – | – | 1 | 13.5 |
| Brain (C70-C72) | 19 | 10.4 | 5 | 4.5 | – | – | 1 | 13.5 |
| Lymphatic (C81-C96) | 31 | 16.9 | 36 | 32.4 | 1 | 50.1 | – | – |
| Non-Hodgkin's lymphoma (C82-C85) | 7 | 3.8 | 17 | 15.3 | – | – | – | – |
| Leukemia (C91-C95) | 14 | 7.7 | 12 | 10.8 | – | – | – | – |
| Benign & uncertain neoplasms (D00-D48) | 14 | 7.7 | 18 | 16.2 | – | – | – | – |
| Diabetes mellitus (E10-E14) | 37 | 20.2 | 58 | 52.2 | 3 | 150.4 | 6 | 80.9 |
| Organic dementia (F01 F03) | 80 | 43.7 | 79 | 71.1 | 2 | 100.3 | 6 | 80.9 |
| Parkinson's disease (G20-G21) | 30 | 16.4 | 13 | 11.7 | – | – | 1 | 13.5 |
| Alzheimer's disease (G30) | 79 | 43.2 | 69 | 62.1 | – | – | 1 | 13.5 |
| Diseases of the circulatory system (I00-I99) | 400 | 218.7 | 423 | 380.5 | 5 | 250.6 | 25 | 337.2 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 286 | 156.3 | 291 | 261.7 | 2 | 100.3 | 16 | 215.8 |
| Ischemic heart disease (I20-I25) | 147 | 80.4 | 165 | 148.4 | – | – | 7 | 94.4 |
| Cerebrovascular disease (I60-I69) | 80 | 43.7 | 86 | 77.4 | 3 | 150.4 | 5 | 67.4 |
| Intracerebral hemorrhage, etc. (I61-I62) | 11 | 6.0 | 11 | 9.9 | 1 | 50.1 | 4 | 53.9 |
| Cerebral infarction (I63) | 4 | 2.2 | 8 | 7.2 | – | – | – | – |
| Stroke of unspecified type (I64) | 34 | 18.6 | 39 | 35.1 | 2 | 100.3 | 1 | 13.5 |
| Hypertension & hyp. renal dis. (I10, I12, I15) | 11 | 6.0 | 33 | 29.7 | – | – | 2 | 27.0 |
| Aortic aneurysm (I71) | 8 | 4.4 | 5 | 4.5 | – | – | 1 | 13.5 |
| Influenza & pneumonia (J09-J18) | 21 | 11.5 | 22 | 19.8 | – | – | 2 | 27.0 |
| Chronic lower respiratory diseases (J40-J47) | 83 | 45.4 | 124 | 111.5 | – | – | 8 | 107.9 |
| Diseases of the digestive system (K00-K92) | 72 | 39.4 | 84 | 75.6 | 1 | 50.1 | 8 | 107.9 |
| Diseases of the genitourinary sys. (N00-N99) | 19 | 10.4 | 35 | 31.5 | – | – | 1 | 13.5 |
| Nephritis (N00-N07, N17-N19, N25-N27) | 9 | 4.9 | 25 | 22.5 | – | – | 1 | 13.5 |
| Perinatal conditions (P00-P96) | 1 | 0.5 | 3 | 2.7 | – | – | – | – |
| Congenital malformations (Q00-Q99) | 3 | 1.6 | 4 | 3.6 | – | – | 1 | 13.5 |
| Sudden infant death syndrome (R95) | 1 | 0.5 | 2 | 1.8 | – | – | – | – |
| Unintentional injuries (V01-X59, Y85-Y86) | 104 | 56.9 | 87 | 78.3 | – | – | 5 | 67.4 |
| Suicide (X60-X84, Y87.0) | 57 | 31.2 | 26 | 23.4 | – | – | 1 | 13.5 |
| Homicide (X85-Y09, Y87.1) | 3 | 1.6 | 6 | 5.4 | – | – | 1 | 13.5 |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | 2 | 1.1 | – | – | – | – | – | – |
| *Alcohol-induced* [2] | 33 | 18.0 | 38 | 34.2 | – | – | 2 | 27.0 |
| *Drug-induced* [2] | 24 | 13.1 | 15 | 13.5 | – | – | – | – |
| *Injury by firearms* [2] | 38 | 20.8 | 18 | 16.2 | – | – | 1 | 13.5 |

– Quantity is zero.
[1] Rate per 100,000 population.
[2] See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
WARNING: Rates based on less than five events are unreliable.

**TABLE 6-42. Selected causes of death by county, Oregon residents, 2017 — Continued**

| Selected causes of death (and their ICD-10 codes) | Harney | | Hood River | | Jackson | | Jefferson | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] |
| Total | 66 | 896.7 | 190 | 755.6 | 2,470 | 1138.8 | 201 | 866.8 |
| Infections & parasitic disease (A00-B99) | 1 | 13.6 | 1 | 4.0 | 60 | 27.7 | 4 | 17.2 |
| Septicemia (A40-A41) | – | – | – | – | 15 | 6.9 | 1 | 4.3 |
| Viral hepatitis (B15-B19) | 1 | 13.6 | – | – | 11 | 5.1 | – | – |
| HIV disease (B20-B24 ) | – | – | 1 | 4.0 | 1 | 0.5 | – | – |
| Malignant neoplasms (C00-C97) | 8 | 108.7 | 32 | 127.3 | 515 | 237.4 | 45 | 194.0 |
| Colon (C18) | 1 | 13.6 | 4 | 15.9 | 34 | 15.7 | 3 | 12.9 |
| Pancreas (C25) | – | – | 2 | 8.0 | 33 | 15.2 | 2 | 8.6 |
| Bronchus & lung (C34) | – | – | 8 | 31.8 | 117 | 53.9 | 15 | 64.7 |
| Skin (C43-44) | – | – | – | – | 16 | 7.4 | – | – |
| Breast (C50) | 1 | 13.6 | – | – | 27 | 12.4 | – | – |
| Cervical (C53) | – | – | – | – | 4 | 1.8 | 1 | 4.3 |
| Uterine (C54-C55) | – | – | – | – | 10 | 4.6 | 1 | 4.3 |
| Ovarian (C56) | – | – | 4 | 15.9 | 21 | 9.7 | 1 | 4.3 |
| Prostate (C61) | 1 | 13.6 | 3 | 11.9 | 35 | 16.1 | 3 | 12.9 |
| Kidney & renal pelvis (C64-C65) | 1 | 13.6 | – | – | 9 | 4.1 | 1 | 4.3 |
| Bladder (C67) | – | – | 4 | 15.9 | 11 | 5.1 | 1 | 4.3 |
| Brain (C70-C72) | – | – | – | – | 12 | 5.5 | 1 | 4.3 |
| Lymphatic (C81-C96) | 2 | 27.2 | 3 | 11.9 | 46 | 21.2 | 4 | 17.2 |
| Non-Hodgkin's lymphoma (C82-C85) | 1 | 13.6 | 1 | 4.0 | 19 | 8.8 | 1 | 4.3 |
| Leukemia (C91-C95) | – | – | 2 | 8.0 | 14 | 6.5 | 2 | 8.6 |
| Benign & uncertain neoplasms (D00-D48) | – | – | – | – | 18 | 8.3 | 1 | 4.3 |
| Diabetes mellitus (E10-E14) | 1 | 13.6 | 6 | 23.9 | 54 | 24.9 | 15 | 64.7 |
| Organic dementia (F01 F03) | 4 | 54.3 | 20 | 79.5 | 188 | 86.7 | 9 | 38.8 |
| Parkinson's disease (G20-G21) | 1 | 13.6 | 4 | 15.9 | 38 | 17.5 | 2 | 8.6 |
| Alzheimer's disease (G30) | 1 | 13.6 | 5 | 19.9 | 147 | 67.8 | 4 | 17.2 |
| Diseases of the circulatory system (I00-I99) | 21 | 285.3 | 63 | 250.5 | 631 | 290.9 | 58 | 250.1 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 15 | 203.8 | 51 | 202.8 | 422 | 194.6 | 40 | 172.5 |
| Ischemic heart disease (I20-I25) | 9 | 122.3 | 21 | 83.5 | 200 | 92.2 | 20 | 86.2 |
| Cerebrovascular disease (I60-I69) | 5 | 67.9 | 10 | 39.8 | 130 | 59.9 | 14 | 60.4 |
| Intracerebral hemorrhage, etc. (I61-I62) | – | – | 2 | 8.0 | 31 | 14.3 | 2 | 8.6 |
| Cerebral infarction (I63) | – | – | – | – | 13 | 6.0 | – | – |
| Stroke of unspecified type (I64) | 2 | 27.2 | 2 | 8.0 | 54 | 24.9 | 8 | 34.5 |
| Hypertension & hyp. renal dis. (I10, I12, I15) | – | – | 1 | 4.0 | 40 | 18.4 | 4 | 17.2 |
| Aortic aneurysm (I71) | 1 | 13.6 | – | – | 15 | 6.9 | – | – |
| Influenza & pneumonia (J09-J18) | 2 | 27.2 | 2 | 8.0 | 41 | 18.9 | 1 | 4.3 |
| Chronic lower respiratory diseases (J40-J47) | 3 | 40.8 | 5 | 19.9 | 162 | 74.7 | 8 | 34.5 |
| Diseases of the digestive system (K00-K92) | 4 | 54.3 | 15 | 59.7 | 112 | 51.6 | 7 | 30.2 |
| Diseases of the genitourinary sys. (N00-N99) | – | – | 6 | 23.9 | 53 | 24.4 | 6 | 25.9 |
| Nephritis (N00-N07, N17-N19, N25-N27) | – | – | 2 | 8.0 | 32 | 14.8 | 4 | 17.2 |
| Perinatal conditions (P00-P96) | – | – | – | – | 7 | 3.2 | 1 | 4.3 |
| Congenital malformations (Q00-Q99) | – | – | – | – | 11 | 5.1 | 3 | 12.9 |
| Sudden infant death syndrome (R95) | – | – | – | – | 2 | 0.9 | – | – |
| Unintentional injuries (V01-X59, Y85-Y86) | 5 | 67.9 | 7 | 27.8 | 108 | 49.8 | 14 | 60.4 |
| Suicide (X60-X84, Y87.0) | 3 | 40.8 | 6 | 23.9 | 53 | 24.4 | 4 | 17.2 |
| Homicide (X85-Y09, Y87.1) | 1 | 13.6 | – | – | 8 | 3.7 | – | – |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | – | – | – | – | 1 | 0.5 | – | – |
| *Alcohol-induced* [2] | 3 | 40.8 | 6 | 23.9 | 54 | 24.9 | 6 | 25.9 |
| *Drug-induced* [2] | 1 | 13.6 | 3 | 11.9 | 40 | 18.4 | 3 | 12.9 |
| *Injury by firearms* [2] | 3 | 40.8 | 2 | 8.0 | 36 | 16.6 | 1 | 4.3 |

– Quantity is zero.
[1] Rate per 100,000 population.
[2] See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
WARNING: Rates based on less than five events are unreliable.

**TABLE 6-42. Selected causes of death by county, Oregon residents, 2017 — Continued**

| Selected causes of death (and their ICD-10 codes) | Josephine | | Klamath | | Lake | | Lane | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] |
| Total | 1,235 | 1441.9 | 833 | 1230.6 | 75 | 923.6 | 3,720 | 1003.8 |
| Infections & parasitic disease (A00-B99) | 22 | 25.7 | 18 | 26.6 | – | – | 55 | 14.8 |
| Septicemia (A40-A41) | 11 | 12.8 | 4 | 5.9 | – | – | 21 | 5.7 |
| Viral hepatitis (B15-B19) | 6 | 7.0 | 2 | 3.0 | – | – | 9 | 2.4 |
| HIV disease (B20-B24 ) | 2 | 2.3 | 1 | 1.5 | – | – | 3 | 0.8 |
| Malignant neoplasms (C00-C97) | 259 | 302.4 | 183 | 270.4 | 22 | 270.9 | 790 | 213.2 |
| Colon (C18) | 15 | 17.5 | 11 | 16.3 | 2 | 24.6 | 56 | 15.1 |
| Pancreas (C25) | 16 | 18.7 | 15 | 22.2 | 1 | 12.3 | 70 | 18.9 |
| Bronchus & lung (C34) | 66 | 77.1 | 35 | 51.7 | 3 | 36.9 | 168 | 45.3 |
| Skin (C43-44) | 7 | 8.2 | 5 | 7.4 | – | – | 20 | 5.4 |
| Breast (C50) | 13 | 15.2 | 10 | 14.8 | – | – | 51 | 13.8 |
| Cervical (C53) | 1 | 1.2 | 2 | 3.0 | – | – | 2 | 0.5 |
| Uterine (C54-C55) | 8 | 9.3 | 2 | 3.0 | – | – | 16 | 4.3 |
| Ovarian (C56) | 6 | 7.0 | 4 | 5.9 | – | – | 22 | 5.9 |
| Prostate (C61) | 15 | 17.5 | 18 | 26.6 | 1 | 12.3 | 40 | 10.8 |
| Kidney & renal pelvis (C64-C65) | 6 | 7.0 | 7 | 10.3 | 1 | 12.3 | 18 | 4.9 |
| Bladder (C67) | 10 | 11.7 | 4 | 5.9 | 1 | 12.3 | 26 | 7.0 |
| Brain (C70-C72) | 9 | 10.5 | 4 | 5.9 | – | – | 19 | 5.1 |
| Lymphatic (C81-C96) | 28 | 32.7 | 24 | 35.5 | 9 | 110.8 | 84 | 22.7 |
| Non-Hodgkin's lymphoma (C82-C85) | 7 | 8.2 | 6 | 8.9 | 3 | 36.9 | 29 | 7.8 |
| Leukemia (C91-C95) | 12 | 14.0 | 11 | 16.3 | 6 | 73.9 | 43 | 11.6 |
| Benign & uncertain neoplasms (D00-D48) | 12 | 14.0 | 3 | 4.4 | 1 | 12.3 | 19 | 5.1 |
| Diabetes mellitus (E10-E14) | 37 | 43.2 | 32 | 47.3 | 4 | 49.3 | 122 | 32.9 |
| Organic dementia (F01 F03) | 105 | 122.6 | 42 | 62.0 | 2 | 24.6 | 167 | 45.1 |
| Parkinson's disease (G20-G21) | 15 | 17.5 | 5 | 7.4 | 2 | 24.6 | 42 | 11.3 |
| Alzheimer's disease (G30) | 48 | 56.0 | 22 | 32.5 | 1 | 12.3 | 288 | 77.7 |
| Diseases of the circulatory system (I00-I99) | 329 | 384.1 | 202 | 298.4 | 19 | 234.0 | 983 | 265.2 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 228 | 266.2 | 149 | 220.1 | 10 | 123.2 | 674 | 181.9 |
| Ischemic heart disease (I20-I25) | 104 | 121.4 | 73 | 107.8 | 5 | 61.6 | 287 | 77.4 |
| Cerebrovascular disease (I60-I69) | 66 | 77.1 | 37 | 54.7 | 5 | 61.6 | 211 | 56.9 |
| Intracerebral hemorrhage, etc. (I61-I62) | 11 | 12.8 | 9 | 13.3 | 1 | 12.3 | 40 | 10.8 |
| Cerebral infarction (I63) | 5 | 5.8 | 2 | 3.0 | – | – | 31 | 8.4 |
| Stroke of unspecified type (I64) | 32 | 37.4 | 20 | 29.5 | 3 | 36.9 | 74 | 20.0 |
| Hypertension & hyp. renal dis. (I10, I12, I15) | 19 | 22.2 | 10 | 14.8 | 3 | 36.9 | 59 | 15.9 |
| Aortic aneurysm (I71) | 6 | 7.0 | 4 | 5.9 | 1 | 12.3 | 27 | 7.3 |
| Influenza & pneumonia (J09-J18) | 22 | 25.7 | 19 | 28.1 | 4 | 49.3 | 62 | 16.7 |
| Chronic lower respiratory diseases (J40-J47) | 78 | 91.1 | 75 | 110.8 | 4 | 49.3 | 246 | 66.4 |
| Diseases of the digestive system (K00-K92) | 53 | 61.9 | 48 | 70.9 | 2 | 24.6 | 159 | 42.9 |
| Diseases of the genitourinary sys. (N00-N99) | 26 | 30.4 | 8 | 11.8 | 1 | 12.3 | 62 | 16.7 |
| Nephritis (N00-N07, N17-N19, N25-N27) | 11 | 12.8 | 6 | 8.9 | 1 | 12.3 | 38 | 10.3 |
| Perinatal conditions (P00-P96) | 2 | 2.3 | 5 | 7.4 | – | – | 9 | 2.4 |
| Congenital malformations (Q00-Q99) | 3 | 3.5 | 3 | 4.4 | – | – | 12 | 3.2 |
| Sudden infant death syndrome (R95) | – | – | – | – | – | – | 3 | 0.8 |
| Unintentional injuries (V01-X59, Y85-Y86) | 69 | 80.6 | 40 | 59.1 | 1 | 12.3 | 245 | 66.1 |
| Suicide (X60-X84, Y87.0) | 29 | 33.9 | 27 | 39.9 | 2 | 24.6 | 88 | 23.7 |
| Homicide (X85-Y09, Y87.1) | 5 | 5.8 | 4 | 5.9 | – | – | 8 | 2.2 |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | – | – | 1 | 1.5 | – | – | 10 | 2.7 |
| *Alcohol-induced* [2] | 36 | 42.0 | 28 | 41.4 | – | – | 89 | 24.0 |
| *Drug-induced* [2] | 24 | 28.0 | 16 | 23.6 | – | – | 86 | 23.2 |
| *Injury by firearms* [2] | 28 | 32.7 | 20 | 29.5 | 2 | 24.6 | 57 | 15.4 |

– Quantity is zero.
[1] Rate per 100,000 population.
[2] See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
WARNING: Rates based on less than five events are unreliable.

**TABLE 6-42. Selected causes of death by county, Oregon residents, 2017 — Continued**

| Selected causes of death (and their ICD-10 codes) | Lincoln | | Linn | | Malheur | | Marion | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] |
| Total | 652 | 1359.5 | 1,321 | 1065.2 | 323 | 1014.3 | 2,879 | 848.8 |
| Infections & parasitic disease (A00-B99) | 13 | 27.1 | 19 | 15.3 | 4 | 12.6 | 63 | 18.6 |
| Septicemia (A40-A41) | 1 | 2.1 | 6 | 4.8 | 2 | 6.3 | 22 | 6.5 |
| Viral hepatitis (B15-B19) | 8 | 16.7 | 4 | 3.2 | 2 | 6.3 | 12 | 3.5 |
| HIV disease (B20-B24 ) | 1 | 2.1 | – | – | – | – | 6 | 1.8 |
| Malignant neoplasms (C00-C97) | 178 | 371.1 | 300 | 241.9 | 76 | 238.7 | 643 | 189.6 |
| Colon (C18) | 9 | 18.8 | 16 | 12.9 | 3 | 9.4 | 36 | 10.6 |
| Pancreas (C25) | 11 | 22.9 | 22 | 17.7 | 5 | 15.7 | 49 | 14.4 |
| Bronchus & lung (C34) | 47 | 98.0 | 72 | 58.1 | 13 | 40.8 | 149 | 43.9 |
| Skin (C43-44) | 4 | 8.3 | 9 | 7.3 | 1 | 3.1 | 14 | 4.1 |
| Breast (C50) | 11 | 22.9 | 11 | 8.9 | 9 | 28.3 | 38 | 11.2 |
| Cervical (C53) | 1 | 2.1 | 3 | 2.4 | 2 | 6.3 | 4 | 1.2 |
| Uterine (C54-C55) | 3 | 6.3 | 4 | 3.2 | 1 | 3.1 | 10 | 2.9 |
| Ovarian (C56) | 4 | 8.3 | 7 | 5.6 | 5 | 15.7 | 19 | 5.6 |
| Prostate (C61) | 5 | 10.4 | 16 | 12.9 | 7 | 22.0 | 32 | 9.4 |
| Kidney & renal pelvis (C64-C65) | 4 | 8.3 | 9 | 7.3 | 3 | 9.4 | 20 | 5.9 |
| Bladder (C67) | 12 | 25.0 | 13 | 10.5 | 1 | 3.1 | 21 | 6.2 |
| Brain (C70-C72) | 2 | 4.2 | 3 | 2.4 | 1 | 3.1 | 21 | 6.2 |
| Lymphatic (C81-C96) | 17 | 35.4 | 31 | 25.0 | 6 | 18.8 | 81 | 23.9 |
| Non-Hodgkin's lymphoma (C82-C85) | 5 | 10.4 | 10 | 8.1 | 2 | 6.3 | 25 | 7.4 |
| Leukemia (C91-C95) | 11 | 22.9 | 16 | 12.9 | 1 | 3.1 | 30 | 8.8 |
| Benign & uncertain neoplasms (D00-D48) | 3 | 6.3 | 8 | 6.5 | 2 | 6.3 | 10 | 2.9 |
| Diabetes mellitus (E10-E14) | 25 | 52.1 | 51 | 41.1 | 10 | 31.4 | 102 | 30.1 |
| Organic dementia (F01 F03) | 27 | 56.3 | 58 | 46.8 | 9 | 28.3 | 209 | 61.6 |
| Parkinson's disease (G20-G21) | 8 | 16.7 | 17 | 13.7 | 3 | 9.4 | 34 | 10.0 |
| Alzheimer's disease (G30) | 34 | 70.9 | 64 | 51.6 | 20 | 62.8 | 112 | 33.0 |
| Diseases of the circulatory system (I00-I99) | 166 | 346.1 | 383 | 308.8 | 103 | 323.4 | 762 | 224.6 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 126 | 262.7 | 273 | 220.1 | 77 | 241.8 | 536 | 158.0 |
| Ischemic heart disease (I20-I25) | 62 | 129.3 | 156 | 125.8 | 47 | 147.6 | 271 | 79.9 |
| Cerebrovascular disease (I60-I69) | 24 | 50.0 | 70 | 56.4 | 19 | 59.7 | 152 | 44.8 |
| Intracerebral hemorrhage, etc. (I61-I62) | 3 | 6.3 | 11 | 8.9 | 1 | 3.1 | 32 | 9.4 |
| Cerebral infarction (I63) | 4 | 8.3 | 7 | 5.6 | 2 | 6.3 | 21 | 6.2 |
| Stroke of unspecified type (I64) | 10 | 20.9 | 25 | 20.2 | 7 | 22.0 | 56 | 16.5 |
| Hypertension & hyp. renal dis. (I10, I12, I15) | 10 | 20.9 | 23 | 18.5 | 3 | 9.4 | 40 | 11.8 |
| Aortic aneurysm (I71) | 3 | 6.3 | 9 | 7.3 | 1 | 3.1 | 13 | 3.8 |
| Influenza & pneumonia (J09-J18) | 5 | 10.4 | 21 | 16.9 | 3 | 9.4 | 41 | 12.1 |
| Chronic lower respiratory diseases (J40-J47) | 32 | 66.7 | 91 | 73.4 | 16 | 50.2 | 148 | 43.6 |
| Diseases of the digestive system (K00-K92) | 32 | 66.7 | 58 | 46.8 | 9 | 28.3 | 126 | 37.1 |
| Diseases of the genitourinary sys. (N00-N99) | 6 | 12.5 | 23 | 18.5 | 5 | 15.7 | 56 | 16.5 |
| Nephritis (N00-N07, N17-N19, N25-N27) | 3 | 6.3 | 10 | 8.1 | 2 | 6.3 | 28 | 8.3 |
| Perinatal conditions (P00-P96) | – | – | 3 | 2.4 | – | – | 18 | 5.3 |
| Congenital malformations (Q00-Q99) | 2 | 4.2 | 2 | 1.6 | 2 | 6.3 | 12 | 3.5 |
| Sudden infant death syndrome (R95) | – | – | 2 | 1.6 | – | – | – | – |
| Unintentional injuries (V01-X59, Y85-Y86) | 38 | 79.2 | 74 | 59.7 | 19 | 59.7 | 169 | 49.8 |
| Suicide (X60-X84, Y87.0) | 19 | 39.6 | 29 | 23.4 | 3 | 9.4 | 58 | 17.1 |
| Homicide (X85-Y09, Y87.1) | – | – | 6 | 4.8 | – | – | 16 | 4.7 |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | 2 | 4.2 | 3 | 2.4 | – | – | 5 | 1.5 |
| *Alcohol-induced* [2] | 19 | 39.6 | 33 | 26.6 | 7 | 22.0 | 54 | 15.9 |
| *Drug-induced* [2] | 11 | 22.9 | 14 | 11.3 | 2 | 6.3 | 56 | 16.5 |
| *Injury by firearms* [2] | 9 | 18.8 | 17 | 13.7 | 1 | 3.1 | 42 | 12.4 |

– Quantity is zero.
[1] Rate per 100,000 population.
[2] See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
WARNING: Rates based on less than five events are unreliable.

**TABLE 6-42. Selected causes of death by county, Oregon residents, 2017 — Continued**

| Selected causes of death (and their ICD-10 codes) | Morrow | | Multnomah | | Polk | | Sherman | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] |
| Total | 73 | 614.0 | 5,821 | 724.9 | 718 | 886.4 | 19 | 1055.6 |
| Infections & parasitic disease (A00-B99) | 3 | 25.2 | 144 | 17.9 | 10 | 12.3 | 1 | 55.6 |
| Septicemia (A40-A41) | 2 | 16.8 | 50 | 6.2 | 5 | 6.2 | 1 | 55.6 |
| Viral hepatitis (B15-B19) | – | – | 32 | 4.0 | 1 | 1.2 | – | – |
| HIV disease (B20-B24 ) | 1 | 8.4 | 15 | 1.9 | – | – | – | – |
| Malignant neoplasms (C00-C97) | 19 | 159.8 | 1,262 | 157.2 | 167 | 206.2 | 3 | 166.7 |
| Colon (C18) | 3 | 25.2 | 52 | 6.5 | 7 | 8.6 | – | – |
| Pancreas (C25) | 3 | 25.2 | 101 | 12.6 | 11 | 13.6 | – | – |
| Bronchus & lung (C34) | 2 | 16.8 | 292 | 36.4 | 37 | 45.7 | – | – |
| Skin (C43-44) | – | – | 32 | 4.0 | 2 | 2.5 | – | – |
| Breast (C50) | 3 | 25.2 | 97 | 12.1 | 13 | 16.0 | – | – |
| Cervical (C53) | – | – | 8 | 1.0 | 1 | 1.2 | – | – |
| Uterine (C54-C55) | – | – | 23 | 2.9 | 2 | 2.5 | – | – |
| Ovarian (C56) | – | – | 44 | 5.5 | 5 | 6.2 | – | – |
| Prostate (C61) | 1 | 8.4 | 53 | 6.6 | 14 | 17.3 | – | – |
| Kidney & renal pelvis (C64-C65) | – | – | 23 | 2.9 | 2 | 2.5 | 1 | 55.6 |
| Bladder (C67) | 1 | 8.4 | 35 | 4.4 | 7 | 8.6 | – | – |
| Brain (C70-C72) | – | – | 46 | 5.7 | 5 | 6.2 | 1 | 55.6 |
| Lymphatic (C81-C96) | 3 | 25.2 | 130 | 16.2 | 20 | 24.7 | – | – |
| Non-Hodgkin's lymphoma (C82-C85) | – | – | 45 | 5.6 | 5 | 6.2 | – | – |
| Leukemia (C91-C95) | 1 | 8.4 | 57 | 7.1 | 10 | 12.3 | – | – |
| Benign & uncertain neoplasms (D00-D48) | – | – | 34 | 4.2 | 7 | 8.6 | – | – |
| Diabetes mellitus (E10-E14) | 2 | 16.8 | 190 | 23.7 | 24 | 29.6 | 1 | 55.6 |
| Organic dementia (F01 F03) | – | – | 349 | 43.5 | 54 | 66.7 | 1 | 55.6 |
| Parkinson's disease (G20-G21) | – | – | 79 | 9.8 | 3 | 3.7 | – | – |
| Alzheimer's disease (G30) | 6 | 50.5 | 248 | 30.9 | 31 | 38.3 | – | – |
| Diseases of the circulatory system (I00-I99) | 18 | 151.4 | 1,546 | 192.5 | 186 | 229.6 | 7 | 388.9 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 11 | 92.5 | 1,037 | 129.1 | 127 | 156.8 | 6 | 333.3 |
| Ischemic heart disease (I20-I25) | 9 | 75.7 | 510 | 63.5 | 53 | 65.4 | 3 | 166.7 |
| Cerebrovascular disease (I60-I69) | 4 | 33.6 | 354 | 44.1 | 36 | 44.4 | 1 | 55.6 |
| Intracerebral hemorrhage, etc. (I61-I62) | 2 | 16.8 | 72 | 9.0 | 4 | 4.9 | – | – |
| Cerebral infarction (I63) | – | – | 32 | 4.0 | 7 | 8.6 | – | – |
| Stroke of unspecified type (I64) | 2 | 16.8 | 118 | 14.7 | 20 | 24.7 | 1 | 55.6 |
| Hypertension & hyp. renal dis. (I10, I12, I15) | 1 | 8.4 | 88 | 11.0 | 13 | 16.0 | – | – |
| Aortic aneurysm (I71) | – | – | 29 | 3.6 | 3 | 3.7 | – | – |
| Influenza & pneumonia (J09-J18) | 2 | 16.8 | 103 | 12.8 | 16 | 19.8 | – | – |
| Chronic lower respiratory diseases (J40-J47) | 7 | 58.9 | 284 | 35.4 | 31 | 38.3 | 1 | 55.6 |
| Diseases of the digestive system (K00-K92) | 7 | 58.9 | 239 | 29.8 | 30 | 37.0 | – | – |
| Diseases of the genitourinary sys. (N00-N99) | – | – | 91 | 11.3 | 9 | 11.1 | – | – |
| Nephritis (N00-N07, N17-N19, N25-N27) | – | – | 44 | 5.5 | 6 | 7.4 | – | – |
| Perinatal conditions (P00-P96) | 2 | 16.8 | 23 | 2.9 | 6 | 7.4 | – | – |
| Congenital malformations (Q00-Q99) | – | – | 27 | 3.4 | 1 | 1.2 | – | – |
| Sudden infant death syndrome (R95) | – | – | 1 | 0.1 | 1 | 1.2 | – | – |
| Unintentional injuries (V01-X59, Y85-Y86) | 3 | 25.2 | 402 | 50.1 | 45 | 55.6 | 2 | 111.1 |
| Suicide (X60-X84, Y87.0) | 1 | 8.4 | 136 | 16.9 | 9 | 11.1 | – | – |
| Homicide (X85-Y09, Y87.1) | – | – | 33 | 4.1 | – | – | – | – |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | – | – | 17 | 2.1 | – | – | – | – |
| *Alcohol-induced* [2] | – | – | 143 | 17.8 | 21 | 25.9 | – | – |
| *Drug-induced* [2] | 1 | 8.4 | 187 | 23.3 | 8 | 9.9 | – | – |
| *Injury by firearms* [2] | – | – | 74 | 9.2 | 3 | 3.7 | – | – |

– Quantity is zero.
[1] Rate per 100,000 population.
[2] See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
WARNING: Rates based on less than five events are unreliable.

**TABLE 6-42. Selected causes of death by county, Oregon residents, 2017 — Continued**

| Selected causes of death (and their ICD-10 codes) | Tillamook | | Umatilla | | Union | | Wallowa | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] |
| Total | 302 | 1153.8 | 658 | 817.4 | 265 | 985.1 | 89 | 1237.0 |
| Infections & parasitic disease (A00-B99) | 7 | 26.7 | 4 | 5.0 | 2 | 7.4 | 2 | 27.8 |
| Septicemia (A40-A41) | 2 | 7.6 | 1 | 1.2 | 1 | 3.7 | 1 | 13.9 |
| Viral hepatitis (B15-B19) | 2 | 7.6 | 2 | 2.5 | 1 | 3.7 | 1 | 13.9 |
| HIV disease (B20-B24 ) | 1 | 3.8 | – | – | – | – | – | – |
| Malignant neoplasms (C00-C97) | 81 | 309.5 | 132 | 164.0 | 61 | 226.8 | 20 | 278.0 |
| Colon (C18) | 6 | 22.9 | 4 | 5.0 | 7 | 26.0 | – | – |
| Pancreas (C25) | 8 | 30.6 | 6 | 7.5 | 6 | 22.3 | 1 | 13.9 |
| Bronchus & lung (C34) | 26 | 99.3 | 31 | 38.5 | 13 | 48.3 | 3 | 41.7 |
| Skin (C43-44) | 5 | 19.1 | 1 | 1.2 | 1 | 3.7 | – | – |
| Breast (C50) | 4 | 15.3 | 12 | 14.9 | 4 | 14.9 | 2 | 27.8 |
| Cervical (C53) | 1 | 3.8 | – | – | 1 | 3.7 | – | – |
| Uterine (C54-C55) | 2 | 7.6 | 1 | 1.2 | 1 | 3.7 | 2 | 27.8 |
| Ovarian (C56) | 2 | 7.6 | 3 | 3.7 | 2 | 7.4 | – | – |
| Prostate (C61) | 2 | 7.6 | 6 | 7.5 | 4 | 14.9 | 2 | 27.8 |
| Kidney & renal pelvis (C64-C65) | 2 | 7.6 | 1 | 1.2 | 4 | 14.9 | – | – |
| Bladder (C67) | 2 | 7.6 | 6 | 7.5 | 4 | 14.9 | 1 | 13.9 |
| Brain (C70-C72) | 2 | 7.6 | 4 | 5.0 | 2 | 7.4 | – | – |
| Lymphatic (C81-C96) | 5 | 19.1 | 12 | 14.9 | 3 | 11.2 | – | – |
| Non-Hodgkin's lymphoma (C82-C85) | 3 | 11.5 | 6 | 7.5 | 1 | 3.7 | – | – |
| Leukemia (C91-C95) | 1 | 3.8 | 4 | 5.0 | 1 | 3.7 | – | – |
| Benign & uncertain neoplasms (D00-D48) | 5 | 19.1 | 5 | 6.2 | 4 | 14.9 | – | – |
| Diabetes mellitus (E10-E14) | 12 | 45.8 | 35 | 43.5 | 11 | 40.9 | 2 | 27.8 |
| Organic dementia (F01 F03) | 8 | 30.6 | 21 | 26.1 | 5 | 18.6 | 6 | 83.4 |
| Parkinson's disease (G20-G21) | 2 | 7.6 | 4 | 5.0 | 3 | 11.2 | – | – |
| Alzheimer's disease (G30) | 9 | 34.4 | 28 | 34.8 | 18 | 66.9 | 1 | 13.9 |
| Diseases of the circulatory system (I00-I99) | 81 | 309.5 | 172 | 213.7 | 78 | 290.0 | 29 | 403.1 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 55 | 210.1 | 123 | 152.8 | 50 | 185.9 | 22 | 305.8 |
| Ischemic heart disease (I20-I25) | 29 | 110.8 | 64 | 79.5 | 18 | 66.9 | 14 | 194.6 |
| Cerebrovascular disease (I60-I69) | 16 | 61.1 | 33 | 41.0 | 18 | 66.9 | 2 | 27.8 |
| Intracerebral hemorrhage, etc. (I61-I62) | 2 | 7.6 | 4 | 5.0 | 5 | 18.6 | – | – |
| Cerebral infarction (I63) | 5 | 19.1 | 4 | 5.0 | 2 | 7.4 | 1 | 13.9 |
| Stroke of unspecified type (I64) | 3 | 11.5 | 19 | 23.6 | 5 | 18.6 | 1 | 13.9 |
| Hypertension & hyp. renal dis. (I10, I12, I15) | 4 | 15.3 | 5 | 6.2 | 8 | 29.7 | 4 | 55.6 |
| Aortic aneurysm (I71) | 4 | 15.3 | 4 | 5.0 | – | – | – | – |
| Influenza & pneumonia (J09-J18) | 4 | 15.3 | 13 | 16.1 | 2 | 7.4 | 3 | 41.7 |
| Chronic lower respiratory diseases (J40-J47) | 26 | 99.3 | 50 | 62.1 | 22 | 81.8 | 3 | 41.7 |
| Diseases of the digestive system (K00-K92) | 11 | 42.0 | 42 | 52.2 | 8 | 29.7 | 5 | 69.5 |
| Diseases of the genitourinary sys. (N00-N99) | 5 | 19.1 | 20 | 24.8 | 6 | 22.3 | 3 | 41.7 |
| Nephritis (N00-N07, N17-N19, N25-N27) | 2 | 7.6 | 10 | 12.4 | 5 | 18.6 | – | – |
| Perinatal conditions (P00-P96) | – | – | 5 | 6.2 | – | – | – | – |
| Congenital malformations (Q00-Q99) | 1 | 3.8 | 2 | 2.5 | 2 | 7.4 | – | – |
| Sudden infant death syndrome (R95) | 1 | 3.8 | – | – | 1 | 3.7 | – | – |
| Unintentional injuries (V01-X59, Y85-Y86) | 17 | 64.9 | 31 | 38.5 | 17 | 63.2 | 5 | 69.5 |
| Suicide (X60-X84, Y87.0) | 6 | 22.9 | 20 | 24.8 | 4 | 14.9 | 4 | 55.6 |
| Homicide (X85-Y09, Y87.1) | 1 | 3.8 | 3 | 3.7 | – | – | – | – |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | 2 | 7.6 | 1 | 1.2 | – | – | – | – |
| *Alcohol-induced* [2] | 10 | 38.2 | 28 | 34.8 | 5 | 18.6 | 1 | 13.9 |
| *Drug-induced* [2] | 6 | 22.9 | 8 | 9.9 | 5 | 18.6 | 2 | 27.8 |
| *Injury by firearms* [2] | 4 | 15.3 | 13 | 16.1 | 3 | 11.2 | 4 | 55.6 |

– Quantity is zero.
[1] Rate per 100,000 population.
[2] See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
WARNING: Rates based on less than five events are unreliable.

**TABLE 6-42. Selected causes of death by county, Oregon residents, 2017 — Continued**

| Selected causes of death (and their ICD-10 codes) | Wasco | | Washington | | Wheeler | | Yamhill | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] | No. | Rate[1] |
| Total | 334 | 1232.5 | 3,433 | 576.1 | 17 | 1148.6 | 1,032 | 970.8 |
| Infections & parasitic disease (A00-B99) | 8 | 29.5 | 55 | 9.2 | – | – | 14 | 13.2 |
| Septicemia (A40-A41) | 3 | 11.1 | 22 | 3.7 | – | – | 6 | 5.6 |
| Viral hepatitis (B15-B19) | 3 | 11.1 | 5 | 0.8 | – | – | 2 | 1.9 |
| HIV disease (B20-B24 ) | – | – | 3 | 0.5 | – | – | – | – |
| Malignant neoplasms (C00-C97) | 68 | 250.9 | 778 | 130.6 | 3 | 202.7 | 200 | 188.1 |
| Colon (C18) | 2 | 7.4 | 35 | 5.9 | 1 | 67.6 | 15 | 14.1 |
| Pancreas (C25) | 5 | 18.5 | 66 | 11.1 | – | – | 12 | 11.3 |
| Bronchus & lung (C34) | 21 | 77.5 | 153 | 25.7 | – | – | 49 | 46.1 |
| Skin (C43-44) | 1 | 3.7 | 20 | 3.4 | – | – | 3 | 2.8 |
| Breast (C50) | 4 | 14.8 | 57 | 9.6 | – | – | 11 | 10.3 |
| Cervical (C53) | – | – | 2 | 0.3 | – | – | 2 | 1.9 |
| Uterine (C54-C55) | – | – | 17 | 2.9 | – | – | 4 | 3.8 |
| Ovarian (C56) | 1 | 3.7 | 22 | 3.7 | – | – | 3 | 2.8 |
| Prostate (C61) | 5 | 18.5 | 41 | 6.9 | – | – | 15 | 14.1 |
| Kidney & renal pelvis (C64-C65) | – | – | 15 | 2.5 | – | – | 3 | 2.8 |
| Bladder (C67) | 1 | 3.7 | 23 | 3.9 | 1 | 67.6 | 7 | 6.6 |
| Brain (C70-C72) | 1 | 3.7 | 29 | 4.9 | – | – | 5 | 4.7 |
| Lymphatic (C81-C96) | 10 | 36.9 | 80 | 13.4 | 1 | 67.6 | 27 | 25.4 |
| Non-Hodgkin's lymphoma (C82-C85) | 3 | 11.1 | 25 | 4.2 | – | – | 9 | 8.5 |
| Leukemia (C91-C95) | 5 | 18.5 | 36 | 6.0 | 1 | 67.6 | 11 | 10.3 |
| Benign & uncertain neoplasms (D00-D48) | 1 | 3.7 | 20 | 3.4 | – | – | 1 | 0.9 |
| Diabetes mellitus (E10-E14) | 9 | 33.2 | 117 | 19.6 | 1 | 67.6 | 45 | 42.3 |
| Organic dementia (F01 F03) | 37 | 136.5 | 216 | 36.3 | 1 | 67.6 | 70 | 65.9 |
| Parkinson's disease (G20-G21) | 6 | 22.1 | 47 | 7.9 | – | – | 20 | 18.8 |
| Alzheimer's disease (G30) | 6 | 22.1 | 203 | 34.1 | – | – | 59 | 55.5 |
| Diseases of the circulatory system (I00-I99) | 98 | 361.6 | 948 | 159.1 | 8 | 540.5 | 293 | 275.6 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 69 | 254.6 | 642 | 107.7 | 4 | 270.3 | 225 | 211.7 |
| Ischemic heart disease (I20-I25) | 28 | 103.3 | 285 | 47.8 | 2 | 135.1 | 105 | 98.8 |
| Cerebrovascular disease (I60-I69) | 16 | 59.0 | 211 | 35.4 | 1 | 67.6 | 50 | 47.0 |
| Intracerebral hemorrhage, etc. (I61-I62) | 2 | 7.4 | 47 | 7.9 | – | – | 9 | 8.5 |
| Cerebral infarction (I63) | 1 | 3.7 | 24 | 4.0 | – | – | 8 | 7.5 |
| Stroke of unspecified type (I64) | 7 | 25.8 | 60 | 10.1 | 1 | 67.6 | 16 | 15.1 |
| Hypertension & hyp. renal dis. (I10, I12, I15) | 12 | 44.3 | 55 | 9.2 | 3 | 202.7 | 11 | 10.3 |
| Aortic aneurysm (I71) | 1 | 3.7 | 10 | 1.7 | – | – | 4 | 3.8 |
| Influenza & pneumonia (J09-J18) | 6 | 22.1 | 40 | 6.7 | – | – | 12 | 11.3 |
| Chronic lower respiratory diseases (J40-J47) | 23 | 84.9 | 129 | 21.6 | – | – | 61 | 57.4 |
| Diseases of the digestive system (K00-K92) | 12 | 44.3 | 167 | 28.0 | – | – | 47 | 44.2 |
| Diseases of the genitourinary sys. (N00-N99) | 6 | 22.1 | 70 | 11.7 | – | – | 28 | 26.3 |
| Nephritis (N00-N07, N17-N19, N25-N27) | 5 | 18.5 | 45 | 7.6 | – | – | 18 | 16.9 |
| Perinatal conditions (P00-P96) | – | – | 19 | 3.2 | – | – | 3 | 2.8 |
| Congenital malformations (Q00-Q99) | 1 | 3.7 | 21 | 3.5 | – | – | 7 | 6.6 |
| Sudden infant death syndrome (R95) | – | – | 5 | 0.8 | – | – | – | – |
| Unintentional injuries (V01-X59, Y85-Y86) | 16 | 59.0 | 148 | 24.8 | – | – | 53 | 49.9 |
| Suicide (X60-X84, Y87.0) | 4 | 14.8 | 74 | 12.4 | 1 | 67.6 | 16 | 15.1 |
| Homicide (X85-Y09, Y87.1) | 3 | 11.1 | 9 | 1.5 | – | – | 3 | 2.8 |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | – | – | 5 | 0.8 | – | – | – | – |
| *Alcohol-induced* [2] | 8 | 29.5 | 77 | 12.9 | 2 | 135.1 | 15 | 14.1 |
| *Drug-induced* [2] | 4 | 14.8 | 48 | 8.1 | – | – | 17 | 16.0 |
| *Injury by firearms* [2] | 4 | 14.8 | 47 | 7.9 | 1 | 67.6 | 8 | 7.5 |

– Quantity is zero.
[1] Rate per 100,000 population.
[2] See Table 6-6, footnotes 38-42, for a list of included conditions and their ICD codes.
WARNING: Rates based on less than five events are unreliable.

**TABLE 6-43. All deaths and medical examiner's cases by county of occurrence, autopsy status, and manner of death, Oregon, 2017**

| County of occurrence and manner of death | All deaths | | | M.E. cases | | |
|---|---|---|---|---|---|---|
| | Total | Autopsied | Percent autopsied | Total | Autopsied | Percent autopsied |
| Total | 36,697 | 1,092 | 3.0 | 4,862 | 846 | 17.4 |
| Baker | 193 | 1 | 0.5 | 51 | 1 | 2.0 |
| Benton | 650 | 14 | 2.2 | 81 | 11 | 13.6 |
| Clackamas | 3,415 | 72 | 2.1 | 338 | 55 | 16.3 |
| Clatsop | 348 | 10 | 2.9 | 79 | 8 | 10.1 |
| Columbia | 279 | 14 | 5.0 | 45 | 14 | 31.1 |
| Coos | 901 | 12 | 1.3 | 97 | 11 | 11.3 |
| Crook | 208 | 3 | 1.4 | 53 | 3 | 5.7 |
| Curry | 270 | 9 | 3.3 | 46 | 9 | 19.6 |
| Deschutes | 1,655 | 8 | 0.5 | 264 | 7 | 2.7 |
| Douglas | 1,434 | 22 | 1.5 | 169 | 20 | 11.8 |
| Gilliam | 14 | – | – | 3 | – | – |
| Grant | 79 | 1 | 1.3 | 15 | 1 | 6.7 |
| Harney | 63 | 1 | 1.6 | 17 | 1 | 5.9 |
| Hood River | 186 | 4 | 2.2 | 31 | 4 | 12.9 |
| Jackson | 2,600 | 74 | 2.8 | 263 | 65 | 24.7 |
| Jefferson | 161 | 7 | 4.3 | 48 | 6 | 12.5 |
| Josephine | 1,160 | 42 | 3.6 | 138 | 40 | 29.0 |
| Klamath | 777 | 30 | 3.9 | 114 | 28 | 24.6 |
| Lake | 64 | 2 | 3.1 | 9 | 1 | 11.1 |
| Lane | 3,892 | 136 | 3.5 | 494 | 126 | 25.5 |
| Lincoln | 537 | 10 | 1.9 | 89 | 10 | 11.2 |
| Linn | 1,231 | 12 | 1.0 | 229 | 12 | 5.2 |
| Malheur | 279 | 6 | 2.2 | 44 | 6 | 13.6 |
| Marion | 2,887 | 69 | 2.4 | 376 | 58 | 15.4 |
| Morrow | 44 | 2 | 4.5 | 8 | 2 | 25.0 |
| Multnomah | 6,974 | 374 | 5.4 | 1,024 | 221 | 21.6 |
| Polk | 539 | 14 | 2.6 | 66 | 14 | 21.2 |
| Sherman | 10 | – | – | 2 | – | – |
| Tillamook | 277 | 10 | 3.6 | 60 | 9 | 15.0 |
| Umatilla | 513 | 13 | 2.5 | 116 | 12 | 10.3 |
| Union | 248 | 1 | 0.4 | 37 | 1 | 2.7 |
| Wallowa | 79 | 2 | 2.5 | 19 | 2 | 10.5 |
| Wasco | 350 | 7 | 2.0 | 37 | 7 | 18.9 |
| Washington | 3,410 | 94 | 2.8 | 299 | 65 | 21.7 |
| Wheeler | 12 | 2 | 16.7 | 6 | 2 | 33.3 |
| Yamhill | 958 | 14 | 1.5 | 95 | 14 | 14.7 |
| Manner of death | | | | | | |
| Natural | 33,466 | 577 | 1.7 | 1,861 | 333 | 17.9 |
| Suicide | 856 | 49 | 5.7 | 855 | 49 | 5.7 |
| Homicide | 132 | 117 | 88.6 | 132 | 117 | 88.6 |
| Unintentional | 2,098 | 307 | 14.6 | 1,934 | 306 | 15.8 |
| Undetermined | 71 | 28 | 39.4 | 66 | 28 | 42.4 |
| Legal intervention | 12 | 12 | 100.0 | 12 | 12 | 100.0 |
| Medical care complication | 62 | 2 | 3.2 | 2 | 1 | 50.0 |

– Quantity is zero.

**TABLE 6-44. Oregon occurrence deaths by disposal of remains and county of residence, 2017**

| County of residence | Total | Burial | | Cremation | | Entombment | | Removal | | Dissolution | | Other | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Total | 36,697 | 5,932 | 16 | 28,104 | 77 | 339 | 1 | 1,459 | 4 | 147 | <0.5 | 716 | 2 |
| Baker | 190 | 31 | 16 | 150 | 79 | – | – | 6 | 3 | – | – | 3 | 2 |
| Benton | 579 | 81 | 14 | 474 | 82 | 1 | <0.5 | 13 | 2 | – | – | 10 | 2 |
| Clackamas | 3,350 | 663 | 20 | 2,501 | 75 | 59 | 2 | 71 | 2 | – | – | 56 | 2 |
| Clatsop | 421 | 51 | 12 | 353 | 84 | – | – | 9 | 2 | – | – | 8 | 2 |
| Columbia | 385 | 68 | 18 | 291 | 76 | 4 | 1 | 16 | 4 | – | – | 6 | 2 |
| Coos | 959 | 110 | 11 | 797 | 83 | 3 | <0.5 | 6 | 1 | – | – | 43 | 4 |
| Crook | 269 | 44 | 16 | 215 | 80 | – | – | 3 | 1 | – | – | 7 | 3 |
| Curry | 324 | 33 | 10 | 268 | 83 | – | – | 11 | 3 | – | – | 12 | 4 |
| Deschutes | 1,485 | 131 | 9 | 1,277 | 86 | 4 | <0.5 | 34 | 2 | – | – | 39 | 3 |
| Douglas | 1,532 | 211 | 14 | 1,109 | 72 | 8 | 1 | 22 | 1 | 141 | 9 | 41 | 3 |
| Gilliam | 18 | 3 | 17 | 15 | 83 | – | – | – | – | – | – | – | – |
| Grant | 88 | 20 | 23 | 66 | 75 | – | – | 2 | 2 | – | – | – | – |
| Harney | 63 | 23 | 37 | 39 | 62 | – | – | 1 | 2 | – | – | – | – |
| Hood River | 182 | 37 | 20 | 119 | 65 | 2 | 1 | 18 | 10 | – | – | 6 | 3 |
| Jackson | 2,430 | 307 | 13 | 2,031 | 84 | 8 | <0.5 | 46 | 2 | – | – | 38 | 2 |
| Jefferson | 197 | 50 | 25 | 138 | 70 | 2 | 1 | 6 | 3 | – | – | 1 | 1 |
| Josephine | 1,211 | 145 | 12 | 1,013 | 84 | 2 | <0.5 | 33 | 3 | 1 | <0.5 | 17 | 1 |
| Klamath | 812 | 133 | 16 | 647 | 80 | 1 | <0.5 | 19 | 2 | – | – | 12 | 1 |
| Lake | 70 | 12 | 17 | 55 | 79 | – | – | 2 | 3 | – | – | 1 | 1 |
| Lane | 3,677 | 469 | 13 | 2,982 | 81 | 32 | 1 | 80 | 2 | 2 | <0.5 | 112 | 3 |
| Lincoln | 637 | 57 | 9 | 551 | 86 | 5 | 1 | 12 | 2 | – | – | 12 | 2 |
| Linn | 1,305 | 223 | 17 | 1,024 | 78 | 6 | <0.5 | 16 | 1 | 1 | <0.5 | 35 | 3 |
| Malheur | 244 | 55 | 23 | 59 | 24 | – | – | 127 | 52 | – | – | 3 | 1 |
| Marion | 2,847 | 571 | 20 | 2,142 | 75 | 27 | 1 | 70 | 2 | – | – | 37 | 1 |
| Morrow | 57 | 15 | 26 | 40 | 70 | – | – | 2 | 4 | – | – | – | – |
| Multnomah | 5,691 | 1,030 | 18 | 4,296 | 75 | 100 | 2 | 175 | 3 | – | – | 90 | 2 |
| Polk | 708 | 145 | 20 | 532 | 75 | 12 | 2 | 6 | 1 | – | – | 13 | 2 |
| Sherman | 18 | 5 | 28 | 12 | 67 | – | – | – | – | – | – | 1 | 6 |
| Tillamook | 296 | 34 | 11 | 247 | 83 | 1 | <0.5 | 4 | 1 | – | – | 10 | 3 |
| Umatilla | 513 | 128 | 25 | 260 | 51 | 1 | <0.5 | 123 | 24 | – | – | 1 | <0.5 |
| Union | 242 | 61 | 25 | 146 | 60 | – | – | 28 | 12 | – | – | 7 | 3 |
| Wallowa | 77 | 16 | 21 | 60 | 78 | – | – | – | – | – | – | 1 | 1 |
| Wasco | 330 | 60 | 18 | 232 | 70 | – | – | 29 | 9 | – | – | 9 | 3 |
| Washington | 3,356 | 662 | 20 | 2,501 | 75 | 43 | 1 | 95 | 3 | – | – | 55 | 2 |
| Wheeler | 17 | 4 | 24 | 13 | 76 | – | – | – | – | – | – | – | – |
| Yamhill | 1,023 | 200 | 20 | 770 | 75 | 17 | 2 | 20 | 2 | – | – | 16 | 2 |
| Out of state | 1,094 | 44 | 4 | 679 | 62 | 1 | <0.5 | 354 | 32 | 2 | <0.5 | 14 | 1 |

– Quantity is zero.

**TABLE 6-45. Unintentional injury deaths for selected causes by county of residence, Oregon, 2017**

| County of residence | Total[1] | Motor vehicle | Falls | Poison - drugs[2] | Poison - other[3] | Drowning | Water transport[4] | Fire |
|---|---|---|---|---|---|---|---|---|
| Total | 2,073 | 507 | 764 | 401 | 49 | 49 | 6 | 36 |
| Baker | 17 | 4 | 5 | 1 | 3 | – | – | 1 |
| Benton | 33 | 9 | 15 | 2 | 1 | 3 | 1 | – |
| Clackamas | 180 | 47 | 79 | 24 | 2 | 5 | 1 | 4 |
| Clatsop | 22 | 11 | 7 | 1 | – | – | – | 1 |
| Columbia | 23 | 6 | 6 | 5 | 1 | 1 | – | 1 |
| Coos | 47 | 17 | 11 | 6 | 7 | 1 | – | 1 |
| Crook | 13 | 5 | 5 | 1 | – | – | – | – |
| Curry | 14 | 3 | 4 | 3 | – | 1 | – | – |
| Deschutes | 104 | 28 | 46 | 12 | 3 | 1 | 1 | – |
| Douglas | 87 | 21 | 31 | 8 | 3 | 3 | – | 8 |
| Gilliam | – | – | – | – | – | – | – | – |
| Grant | 5 | – | 3 | – | – | – | – | 2 |
| Harney | 5 | 2 | 3 | – | – | – | – | – |
| Hood River | 7 | 1 | 3 | 3 | – | – | – | – |
| Jackson | 108 | 31 | 39 | 14 | 2 | 6 | – | 3 |
| Jefferson | 14 | 8 | 2 | 2 | 1 | – | – | – |
| Josephine | 69 | 23 | 18 | 16 | 2 | 1 | – | 1 |
| Klamath | 40 | 13 | 14 | 7 | 1 | 1 | – | – |
| Lake | 1 | 1 | – | – | – | – | – | – |
| Lane | 245 | 52 | 96 | 59 | 4 | 1 | 2 | 3 |
| Lincoln | 38 | 8 | 23 | 1 | 2 | – | – | – |
| Linn | 74 | 15 | 34 | 5 | – | 1 | – | – |
| Malheur | 19 | 6 | 6 | 1 | 1 | 1 | – | – |
| Marion | 169 | 43 | 66 | 32 | 2 | 4 | – | 3 |
| Morrow | 3 | 1 | 1 | – | – | 1 | – | – |
| Multnomah | 402 | 70 | 134 | 135 | 8 | 8 | 1 | 4 |
| Polk | 45 | 11 | 23 | 4 | – | 2 | – | 1 |
| Sherman | 2 | – | 1 | – | – | – | – | – |
| Tillamook | 17 | 2 | 9 | 2 | 1 | – | – | – |
| Umatilla | 31 | 9 | 7 | 6 | 3 | – | – | – |
| Union | 17 | 7 | 2 | 4 | – | 1 | – | – |
| Wallowa | 5 | 1 | 1 | 1 | – | – | – | – |
| Wasco | 16 | 5 | 4 | 3 | – | – | – | – |
| Washington | 148 | 36 | 49 | 30 | 2 | 6 | – | – |
| Wheeler | – | – | – | – | – | – | – | – |
| Yamhill | 53 | 11 | 17 | 13 | – | 1 | – | 3 |

– Quantity is zero.
1 Includes all unintentional injury deaths, not just those in the seven categories shown.
2 Includes overdoses from all drugs/medications; ICD-10 codes do not distinguish between illicit and licit drugs.
3 Includes poisonings by substances other than drugs, such as carbon monoxide and alcohol.
4 Includes both drownings and other mishaps, but not voluntarily jumping from a watercraft.

**TABLE 6-46. Unintentional injury deaths for selected causes by county of injury, Oregon, 2017**

| County of injury[1] | Total[2] | Motor vehicle | Falls | Poison - drugs[3] | Poison - other[4] | Drowning | Water transport[5] | Fire |
|---|---|---|---|---|---|---|---|---|
| Total | 2,082 | 515 | 758 | 400 | 47 | 51 | 10 | 36 |
| Baker | 21 | 6 | 6 | 1 | 2 | – | 1 | 1 |
| Benton | 41 | 13 | 19 | 2 | 1 | – | – | – |
| Clackamas | 172 | 40 | 82 | 21 | 1 | 6 | – | 4 |
| Clatsop | 28 | 12 | 9 | 3 | – | 1 | – | 1 |
| Columbia | 24 | 6 | 6 | 4 | 1 | 3 | 1 | 1 |
| Coos | 43 | 14 | 11 | 5 | 7 | – | – | 1 |
| Crook | 10 | 5 | 5 | – | – | – | – | – |
| Curry | 14 | – | 5 | 2 | – | 2 | – | – |
| Deschutes | 97 | 23 | 44 | 12 | 3 | 1 | – | – |
| Douglas | 90 | 26 | 29 | 9 | 3 | 5 | 1 | 8 |
| Gilliam | 3 | 2 | – | – | – | – | 1 | – |
| Grant | 7 | 2 | 3 | – | – | – | – | 2 |
| Harney | 6 | 3 | 3 | – | – | – | – | – |
| Hood River | 13 | 1 | 7 | 3 | – | 1 | – | – |
| Jackson | 103 | 32 | 38 | 12 | 1 | 4 | – | 3 |
| Jefferson | 23 | 13 | 3 | 3 | 1 | – | 1 | – |
| Josephine | 74 | 26 | 19 | 16 | 1 | 4 | – | 1 |
| Klamath | 44 | 18 | 14 | 5 | 1 | 1 | – | – |
| Lake | 1 | – | 1 | – | – | – | – | – |
| Lane | 241 | 42 | 99 | 59 | 4 | – | 2 | 3 |
| Lincoln | 43 | 13 | 21 | 1 | 2 | 4 | – | – |
| Linn | 71 | 13 | 32 | 6 | – | 2 | – | – |
| Malheur | 21 | 6 | 6 | 2 | 1 | 1 | 1 | – |
| Marion | 175 | 45 | 76 | 29 | 2 | 4 | 1 | 3 |
| Morrow | 3 | 1 | 1 | – | – | – | – | – |
| Multnomah | 413 | 65 | 124 | 148 | 10 | 5 | 1 | 4 |
| Polk | 32 | 11 | 13 | 3 | – | 2 | – | 1 |
| Sherman | 1 | – | – | – | – | – | – | – |
| Tillamook | 24 | 5 | 12 | 3 | 1 | 1 | – | – |
| Umatilla | 28 | 8 | 6 | 5 | 2 | 1 | – | – |
| Union | 16 | 6 | 2 | 4 | – | 1 | – | – |
| Wallowa | 6 | 2 | 1 | 1 | 1 | – | – | – |
| Wasco | 22 | 12 | 3 | 3 | – | – | – | – |
| Washington | 126 | 26 | 47 | 30 | 2 | 2 | – | – |
| Wheeler | 4 | 4 | – | – | – | – | – | – |
| Yamhill | 42 | 14 | 11 | 8 | – | – | – | 3 |

– Quantity is zero.
1 The county of death is used in place of the county of injury for the few cases where the county of injury was not reported by the certifying physician.
2 Includes all unintentional injury deaths, not just those in the seven categories shown.
3 Includes overdoses from all drugs/medications; ICD-10 codes do not distinguish between illicit and licit drugs.
4 Includes poisonings by substances other than drugs, such as carbon monoxide and alcohol.
5 Includes both drownings and other mishaps, but not voluntarily jumping from a watercraft.

**TABLE 6-47t. Age-adjusted death rates[1] for selected causes, Oregon residents, 2013-2017**

| Cause of death | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|---|---|---|---|---|
| **Total** | 716.8 | 702.8 | 718.6 | 702.6 | 707.0 |
| Infectious & parasitic disease (A00-B99) | 15.1 | 13.5 | 14.2 | 13.8 | 13.4 |
| Septicemia (A40-A41) | 4.7 | 4.1 | 4.7 | 5.1 | 4.7 |
| Viral hepatitis (B15-B19) | 4.6 | 4.1 | 3.5 | 2.9 | 2.6 |
| HIV disease (B20-B24) | 1.2 | 0.8 | 1.0 | 0.8 | 0.9 |
| Malignant neoplasms (C00-C97) | 163.0 | 159.3 | 159.5 | 154.9 | 152.1 |
| Lip, oral & pharynx (C00-C14) | 2.4 | 2.8 | 3.1 | 3.1 | 2.6 |
| Esophagus (C15) | 4.5 | 4.8 | 4.3 | 4.3 | 4.6 |
| Stomach (C16) | 2.3 | 2.9 | 2.2 | 2.8 | 1.9 |
| Colon, rectum & anus (C18-C21) | 14.3 | 12.9 | 13.3 | 13.4 | 12.8 |
| Liver & intrahepatic bile duct (C22) | 6.8 | 6.1 | 7.1 | 7.1 | 6.8 |
| Pancreas (C25) | 9.6 | 11.5 | 12.4 | 11.3 | 12.0 |
| Trachea, bronchus & lung (C33-C34) | 41.8 | 39.8 | 38.2 | 35.7 | 34.4 |
| Melanoma of skin (C43) | 3.1 | 2.4 | 2.7 | 2.2 | 2.6 |
| Breast (C50) | 10.8 | 11.0 | 11.0 | 11.6 | 10.0 |
| Cervix uteri (C53) | 1.0 | 1.1 | 1.2 | 1.0 | 1.0 |
| Corpus uteri (C54-C55)[2] | 2.7 | 2.5 | 2.6 | 2.8 | 2.6 |
| Ovary (C56) | 4.5 | 4.8 | 4.6 | 4.2 | 4.5 |
| Prostate (C61) | 8.1 | 8.4 | 8.7 | 9.1 | 8.3 |
| Kidney & renal pelvis (C64-C65) | 3.8 | 3.6 | 3.9 | 3.5 | 3.6 |
| Bladder (C67) | 4.3 | 3.6 | 5.2 | 4.6 | 4.8 |
| Brain, etc. (C70-C72)[2] | 5.5 | 5.4 | 5.2 | 4.0 | 4.7 |
| Lymphoid & hematopoietic (C81-C96) | 17.4 | 16.0 | 14.4 | 15.6 | 15.6 |
| Non-Hodgkin's lymphoma (C82-C85) | 6.3 | 6.5 | 5.1 | 5.8 | 5.3 |
| Leukemia (C91-C95) | 6.9 | 5.5 | 5.4 | 6.3 | 6.7 |
| Lymphoid leukemia (C91) | 1.8 | 1.7 | 1.5 | 1.9 | 1.8 |
| Myeloid leukemia (C92) | 4.0 | 2.9 | 3.3 | 3.5 | 4.0 |
| Multiple myeloma (C88, C90) | 3.9 | 3.5 | 3.6 | 3.2 | 3.3 |
| Anemias (D50-D64) | 1.3 | 1.3 | 0.9 | 1.3 | 1.2 |
| Diabetes mellitus (E10-E14) | 23.4 | 22.3 | 22.9 | 23.9 | 23.6 |
| Organic dementia (F01, F03)[2] | 48.1 | 44.7 | 41.5 | 37.4 | 40.4 |
| Amyotrophic lateral sclerosis (G12.2) | 2.9 | 2.6 | 2.8 | 2.1 | 1.9 |
| Parkinson's disease (G20-G21) | 8.5 | 8.0 | 8.7 | 8.9 | 9.0 |
| Alzheimer's disease (G30) | 27.1 | 28.3 | 32.6 | 34.5 | 35.0 |
| Major cardiovascular diseases (I00-I78) | 189.7 | 184.6 | 190.1 | 188.4 | 187.8 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 134.6 | 131.3 | 135.3 | 134.3 | 131.5 |
| Rheumatic heart disease (I00-I09)[2] | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 |
| Hypertensive heart disease (I11) | 4.2 | 4.5 | 4.2 | 4.8 | 5.2 |
| Hypertensive heart & renal disease (I13) | 1.2 | 1.1 | 1.4 | 1.4 | 1.6 |
| Ischemic heart disease (I20-I25) | 71.1 | 66.9 | 67.7 | 66.9 | 63.9 |
| Myocardial infarction (I21-I22) | 21.4 | 20.2 | 20.6 | 20.4 | 20.4 |
| Chronic ischemic heart disease (I20, I25) | 49.2 | 46.4 | 46.8 | 46.1 | 43.0 |
| Atherosclerotic cardiovascular dis. (I25.0) | 3.9 | 2.9 | 3.0 | 2.7 | 2.6 |
| Other chr. isch. hrt. dis. (I20, I25.1-I25.9) | 45.3 | 43.5 | 43.8 | 43.3 | 40.4 |
| Nonrheumatic mitral valve disease (I34) | 0.9 | 1.2 | 1.1 | 1.2 | 1.0 |
| Nonrheumatic aortic valve disease (I35) | 10.2 | 10.7 | 9.8 | 9.4 | 8.8 |
| Heart failure (I50) | 17.0 | 17.8 | 19.4 | 19.7 | 19.4 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 10.7 | 9.8 | 11.1 | 10.5 | 10.4 |
| Cerebrovascular disease (I60-I69)[2] | 37.0 | 37.0 | 37.1 | 37.5 | 39.0 |
| Subarachnoid hemorrhage (I60) | 1.1 | 1.3 | 1.3 | 1.4 | 1.2 |
| Intracerebral hemorrhage (I61-I62)[2] | 7.6 | 7.3 | 7.4 | 7.5 | 7.5 |
| Cerebral infarction (I63) | 1.8 | 1.7 | 2.0 | 2.8 | 4.1 |
| Stroke (type not specified) (I64) | 18.8 | 18.3 | 17.4 | 15.7 | 14.5 |
| Atherosclerosis (I70) | 1.2 | 0.8 | 0.9 | 0.9 | 0.6 |

See footnotes at end of table.

**TABLE 6-47t. Age-adjusted death rates[1] for selected causes, Oregon residents, 2013-2017 — Continued**

| Cause of death | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|---|---|---|---|---|
| Aortic aneurysm & dissection (I71) | 3.3 | 3.0 | 3.0 | 2.5 | 3.5 |
| Diseases of arteries (I72-I78)[2] | 2.9 | 2.6 | 2.6 | 2.7 | 2.8 |
| Influenza & pneumonia (J09-J18) | 10.5 | 9.1 | 9.0 | 8.8 | 10.9 |
| Pneumonia (J12-J18) | 9.0 | 8.2 | 7.0 | 7.0 | 7.1 |
| Chronic lower respiratory disease (J40-J47)[2] | 42.6 | 39.7 | 41.9 | 40.0 | 39.0 |
| Emphysema (J43) | 3.3 | 2.7 | 2.8 | 3.0 | 2.7 |
| Asthma (J45-J46) | 1.4 | 1.7 | 1.1 | 1.6 | 1.3 |
| Other CLRD (J44, J47) | 37.8 | 35.2 | 37.8 | 35.3 | 34.8 |
| Pneumonitis from solids & liquids (J69) | 3.3 | 3.1 | 3.4 | 2.7 | 2.9 |
| Peptic ulcer (K25-K28) | 1.0 | 1.1 | 1.0 | 1.4 | 1.3 |
| Vascular disorders of the intestine (K55) | 2.6 | 2.7 | 2.4 | 2.3 | 2.2 |
| Chronic liver disease & cirrhosis (K70, K73-K74) | 11.7 | 12.8 | 13.8 | 12.2 | 12.7 |
| Alcoholic liver disease (K70)[2] | 8.7 | 10.7 | 11.7 | 10.4 | 10.4 |
| Cholelithiasis (K80-K82)[2] | 1.2 | 1.5 | 1.3 | 1.3 | 1.3 |
| Musculoskeletal disease (M00-M99)[2] | 5.1 | 4.9 | 4.9 | 4.7 | 4.8 |
| Genitourinary system disease (N00-N99) | 11.5 | 12.4 | 13.7 | 12.3 | 12.7 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 6.8 | 7.6 | 8.1 | 7.7 | 7.2 |
| Renal failure (N17-N19) | 6.5 | 7.4 | 7.7 | 7.3 | 6.7 |
| Urinary tract infection (N39.0) | 2.9 | 3.0 | 3.4 | 2.8 | 3.1 |
| Perinatal conditions (P00-P96) | 3.8 | 3.9 | 3.4 | 3.1 | 3.8 |
| Congenital malformations (Q00-Q99)[2] | 3.7 | 2.5 | 3.2 | 3.4 | 3.7 |
| Malformation of the heart (Q20-Q24) | 1.4 | 0.6 | 1.0 | 0.9 | 0.9 |
| Symptoms & signs NEC (R00-R99)[2] | 14.8 | 12.5 | 10.9 | 9.7 | 9.1 |
| Unintentional injuries (V01-X59, Y85-Y86) | 39.6 | 40.7 | 44.1 | 46.0 | 44.5 |
| Transport accidents (V01-V99, Y85) | 9.8 | 10.6 | 12.9 | 13.3 | 12.7 |
| Motor vehicle accidents (many codes)[2] | 8.6 | 9.1 | 11.8 | 12.2 | 11.7 |
| Motor vehicle traffic accidents (many codes)[2] | 7.9 | 8.5 | 11.3 | 11.8 | 10.9 |
| Water & air, etc. (V90-V99, Y85) | 0.8 | 0.9 | 0.9 | 0.8 | 0.6 |
| Nontransport accidents (W00-X59, Y86) | 29.8 | 30.1 | 31.2 | 32.7 | 31.9 |
| Falls (W00-W19) | 13.2 | 12.5 | 14.5 | 14.0 | 14.6 |
| Drowning & submersion (W65-W74) | 1.4 | 1.4 | 1.5 | 1.9 | 1.2 |
| Exposure to smoke & fire (X00-X09) | 0.9 | 0.9 | 0.8 | 0.6 | 0.9 |
| Poisoning (X40-X49)[2] | 9.5 | 10.6 | 9.6 | 10.9 | 10.7 |
| Suicide (X60-X84, Y87.0) | 16.8 | 18.6 | 17.8 | 17.8 | 19.1 |
| Poisoning (X60-X69) | 2.7 | 2.7 | 2.8 | 2.7 | 3.0 |
| Hanging/suffocation (X70) | 3.6 | 4.6 | 4.8 | 4.5 | 4.4 |
| Firearm discharge (X72-X74) | 9.2 | 9.8 | 8.6 | 9.3 | 9.9 |
| Homicide (X85-Y09, Y87.1) | 2.3 | 2.4 | 3.5 | 3.2 | 3.2 |
| Firearm discharge (X93-X95) | 1.4 | 1.3 | 2.4 | 1.9 | 1.9 |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | 1.8 | 1.7 | 1.8 | 1.5 | 1.3 |
| *Alcohol-induced (many codes)*[2] | 15.4 | 16.4 | 18.7 | 16.9 | 17.6 |
| *Drug-induced (many codes)*[2] | 13.0 | 14.6 | 14.0 | 15.0 | 15.5 |
| *Injury by firearms (many codes)*[2] | 11.0 | 11.7 | 11.4 | 11.8 | 12.2 |

[1] Age-adjusted rates are per 100,000 population based on the US year 2000 standard; calculations use age and sex population estimates from the Population Research Center, Portland State University.
[2] See footnote for this cause in Table 6-6.
* Age-adjusted rates are not calculated when fewer than 20 deaths were recorded, as the rate would be unreliable.

**TABLE 6-47m. Age-adjusted death rates[1] for selected causes, Oregon resident males, 2013-2017**

| Cause of death | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|---|---|---|---|---|
| **Total** | 843.9 | 831.8 | 838.1 | 833.6 | 830.2 |
| Infectious & parasitic disease (A00-B99) | 19.2 | 16.5 | 16.5 | 16.5 | 15.7 |
| Septicemia (A40-A41) | 5.7 | 4.4 | 4.7 | 5.8 | 5.3 |
| Viral hepatitis (B15-B19) | 6.6 | 5.8 | 4.8 | 4.0 | 3.4 |
| HIV disease (B20-B24) | 2.1 | 1.4 | 1.7 | 1.4 | 1.6 |
| Malignant neoplasms (C00-C97) | 193.6 | 187.2 | 185.8 | 183.9 | 175.7 |
| Lip, oral & pharynx (C00-C14) | 3.5 | 4.1 | 4.1 | 4.4 | 4.4 |
| Esophagus (C15) | 8.2 | 8.0 | 7.8 | 7.6 | 8.5 |
| Stomach (C16) | 3.4 | 4.0 | 3.0 | 3.9 | 2.6 |
| Colon, rectum & anus (C18-C21) | 16.1 | 16.0 | 15.0 | 15.9 | 14.1 |
| Liver & intrahepatic bile duct (C22) | 9.6 | 9.1 | 10.9 | 9.8 | 9.9 |
| Pancreas (C25) | 10.9 | 13.4 | 15.0 | 13.6 | 13.4 |
| Trachea, bronchus & lung (C33-C34) | 48.4 | 45.2 | 43.4 | 41.6 | 37.7 |
| Melanoma of skin (C43) | 4.7 | 3.3 | 3.5 | 3.1 | 3.8 |
| Breast (C50) | * | * | * | * | * |
| Cervix uteri (C53) | – | – | – | – | – |
| Corpus uteri (C54-C55)[2] | – | – | – | – | – |
| Ovary (C56) | – | – | – | – | – |
| Prostate (C61) | 19.6 | 20.4 | 20.8 | 21.8 | 19.6 |
| Kidney & renal pelvis (C64-C65) | 5.9 | 5.5 | 5.8 | 5.1 | 5.4 |
| Bladder (C67) | 7.4 | 6.8 | 8.5 | 7.9 | 7.7 |
| Brain, etc. (C70-C72)[2] | 6.2 | 7.1 | 6.1 | 4.9 | 5.7 |
| Lymphoid & hematopoietic (C81-C96) | 23.6 | 20.1 | 18.9 | 21.6 | 19.5 |
| Non-Hodgkin's lymphoma (C82-C85) | 8.4 | 7.7 | 6.4 | 8.3 | 6.4 |
| Leukemia (C91-C95) | 9.7 | 7.4 | 7.4 | 8.7 | 8.6 |
| Lymphoid leukemia (C91) | 2.8 | 2.5 | 2.3 | 2.8 | 2.4 |
| Myeloid leukemia (C92) | 5.5 | 3.7 | 4.2 | 4.8 | 4.9 |
| Multiple myeloma (C88, C90) | 5.2 | 4.4 | 4.7 | 4.1 | 4.3 |
| Anemias (D50-D64) | 1.3 | 1.5 | 1.1 | 1.6 | 1.4 |
| Diabetes mellitus (E10-E14) | 30.5 | 28.0 | 28.8 | 31.9 | 30.0 |
| Organic dementia (F01, F03)[2] | 43.0 | 40.5 | 36.8 | 34.1 | 35.7 |
| Amyotrophic lateral sclerosis (G12.2) | 3.4 | 3.5 | 3.1 | 2.5 | 2.1 |
| Parkinson's disease (G20-G21) | 12.4 | 11.9 | 12.9 | 13.7 | 14.4 |
| Alzheimer's disease (G30) | 21.8 | 23.6 | 26.6 | 27.5 | 28.1 |
| Major cardiovascular diseases (I00-I78) | 235.2 | 228.5 | 226.6 | 233.1 | 229.8 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 174.7 | 170.5 | 170.4 | 175.7 | 168.8 |
| Rheumatic heart disease (I00-I09)[2] | 1.1 | 1.5 | 1.2 | 1.4 | * |
| Hypertensive heart disease (I11) | 4.5 | 4.4 | 3.5 | 4.7 | 4.9 |
| Hypertensive heart & renal disease (I13) | 1.2 | 1.4 | 1.4 | 1.4 | 1.9 |
| Ischemic heart disease (I20-I25) | 103.8 | 98.9 | 100.4 | 102.4 | 95.6 |
| Myocardial infarction (I21-I22) | 29.2 | 28.3 | 28.7 | 29.7 | 27.9 |
| Chronic ischemic heart disease (I20, I25) | 74.2 | 70.3 | 71.3 | 72.1 | 67.0 |
| Atherosclerotic cardiovascular dis. (I25.0) | 5.5 | 4.1 | 3.8 | 4.6 | 3.9 |
| Other chr. isch. hrt. dis. (I20, I25.1-I25.9) | 68.6 | 66.2 | 67.5 | 67.6 | 63.2 |
| Nonrheumatic mitral valve disease (I34) | * | 1.0 | 1.2 | 1.1 | * |
| Nonrheumatic aortic valve disease (I35) | 11.7 | 11.1 | 10.1 | 9.8 | 10.1 |
| Heart failure (I50) | 18.8 | 21.6 | 21.7 | 22.4 | 21.8 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 12.5 | 10.0 | 11.7 | 11.6 | 11.8 |
| Cerebrovascular disease (I60-I69)[2] | 38.3 | 40.3 | 36.9 | 38.1 | 40.3 |
| Subarachnoid hemorrhage (I60) | * | 1.1 | * | 1.6 | * |
| Intracerebral hemorrhage (I61-I62)[2] | 8.7 | 8.5 | 7.7 | 8.1 | 8.4 |
| Cerebral infarction (I63) | 2.7 | 1.9 | 1.5 | 2.8 | 4.4 |
| Stroke (type not specified) (I64) | 18.1 | 18.4 | 17.4 | 15.4 | 14.2 |

See footnotes at end of table.

**TABLE 6-47m. Age-adjusted death rates[1] for selected causes, Oregon resident males, 2013-2017 — Continued**

| Cause of death | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|---|---|---|---|---|
| Atherosclerosis (I70) | 1.6 | * | 1.2 | 1.1 | * |
| Aortic aneurysm & dissection (I71) | 4.6 | 3.7 | 4.0 | 3.4 | 5.0 |
| Diseases of arteries (I72-I78)[2] | 3.6 | 3.1 | 2.4 | 3.2 | 3.2 |
| Influenza & pneumonia (J09-J18) | 11.9 | 9.8 | 10.2 | 10.0 | 12.8 |
| Pneumonia (J12-J18) | 10.6 | 9.0 | 8.3 | 8.0 | 8.4 |
| Chronic lower respiratory disease (J40-J47)[2] | 47.2 | 45.4 | 44.2 | 44.7 | 40.5 |
| Emphysema (J43) | 3.8 | 3.3 | 3.3 | 3.9 | 2.3 |
| Asthma (J45-J46) | 1.0 | 1.3 | * | 1.4 | * |
| Other CLRD (J44, J47) | 42.2 | 40.7 | 40.1 | 39.2 | 37.4 |
| Pneumonitis from solids & liquids (J69) | 4.4 | 4.3 | 4.6 | 4.0 | 3.6 |
| Peptic ulcer (K25-K28) | * | 1.6 | 1.1 | 1.7 | 1.5 |
| Vascular disorders of the intestine (K55) | 1.9 | 1.9 | 2.1 | 1.9 | 1.8 |
| Chronic liver disease & cirrhosis (K70, K73-K74) | 16.1 | 17.0 | 18.4 | 16.5 | 16.8 |
| Alcoholic liver disease (K70)[2] | 12.4 | 14.6 | 16.4 | 14.1 | 14.9 |
| Cholelithiasis (K80-K82)[2] | 1.6 | 1.7 | 1.5 | 1.3 | 2.1 |
| Musculoskeletal disease (M00-M99)[2] | 3.8 | 4.2 | 4.4 | 4.3 | 4.3 |
| Genitourinary system disease (N00-N99) | 12.8 | 14.8 | 16.2 | 14.2 | 14.5 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 7.9 | 10.1 | 10.4 | 9.7 | 9.1 |
| Renal failure (N17-N19) | 7.4 | 9.9 | 9.8 | 9.1 | 8.6 |
| Urinary tract infection (N39.0) | 2.4 | 2.6 | 2.6 | 2.3 | 2.5 |
| Perinatal conditions (P00-P96) | 3.5 | 4.5 | 4.4 | 3.3 | 4.3 |
| Congenital malformations (Q00-Q99)[2] | 3.9 | 2.3 | 3.3 | 3.9 | 3.7 |
| Malformation of the heart (Q20-Q24) | 1.6 | * | 1.1 | 1.0 | 1.2 |
| Symptoms & signs NEC (R00-R99)[2] | 15.9 | 13.6 | 13.0 | 11.0 | 11.6 |
| Unintentional injuries (V01-X59, Y85-Y86) | 50.4 | 52.6 | 58.9 | 60.0 | 59.7 |
| Transport accidents (V01-V99, Y85) | 14.8 | 15.6 | 18.7 | 18.9 | 18.6 |
| Motor vehicle accidents (many codes)[2] | 12.8 | 13.0 | 16.9 | 16.9 | 17.0 |
| Motor vehicle traffic accidents (many codes)[2] | 11.5 | 12.3 | 16.0 | 16.1 | 15.8 |
| Water & air, etc. (V90-V99, Y85) | 1.2 | 1.6 | 1.5 | 1.5 | 0.9 |
| Nontransport accidents (W00-X59, Y86) | 35.6 | 37.0 | 40.2 | 41.2 | 41.0 |
| Falls (W00-W19) | 14.9 | 13.6 | 17.4 | 15.3 | 17.0 |
| Drowning & submersion (W65-W74) | 1.9 | 2.2 | 2.4 | 2.9 | 1.9 |
| Exposure to smoke & fire (X00-X09) | 1.2 | 1.1 | 1.0 | 0.9 | 1.0 |
| Poisoning (X40-X49)[2] | 11.2 | 13.5 | 12.9 | 14.6 | 14.4 |
| Suicide (X60-X84, Y87.0) | 26.6 | 30.1 | 27.6 | 27.6 | 29.7 |
| Poisoning (X60-X69) | 2.9 | 3.1 | 2.9 | 2.7 | 3.2 |
| Hanging/suffocation (X70) | 5.6 | 7.1 | 7.6 | 6.5 | 6.6 |
| Firearm discharge (X72-X74) | 16.3 | 17.5 | 15.2 | 16.5 | 17.3 |
| Homicide (X85-Y09, Y87.1) | 3.1 | 3.2 | 5.1 | 4.6 | 4.8 |
| Firearm discharge (X93-X95) | 1.9 | 1.7 | 3.6 | 3.1 | 3.0 |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | 2.0 | 2.0 | 2.2 | 1.8 | 1.5 |
| *Alcohol-induced (many codes)*[2] | 22.7 | 23.7 | 27.9 | 24.2 | 25.6 |
| *Drug-induced (many codes)*[2] | 14.9 | 17.5 | 17.4 | 18.9 | 19.4 |
| *Injury by firearms (many codes)*[2] | 19.1 | 20.2 | 19.6 | 20.6 | 21.1 |

– Quantity is zero.
1 Age-adjusted rates are per 100,000 population based on the US year 2000 standard; calculations use age and sex population estimates from the Population Research Center, Portland State University.
2 See footnote for this cause in Table 6-6.
* Age-adjusted rates are not calculated when fewer than 20 deaths were recorded, as the rate would be unreliable.

**TABLE 6-47f. Age-adjusted death rates[1] for selected causes, Oregon resident females, 2013-2017**

| Cause of death | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|---|---|---|---|---|
| **Total** | 612.6 | 597.6 | 617.2 | 594.0 | 602.6 |
| Infectious & parasitic disease (A00-B99) | 11.4 | 10.7 | 12.3 | 11.4 | 11.4 |
| Septicemia (A40-A41) | 3.9 | 3.8 | 4.6 | 4.7 | 4.2 |
| Viral hepatitis (B15-B19) | 2.6 | 2.6 | 2.2 | 1.9 | 1.8 |
| HIV disease (B20-B24) | * | * | * | * | * |
| Malignant neoplasms (C00-C97) | 140.9 | 139.8 | 140.0 | 133.9 | 134.6 |
| Lip, oral & pharynx (C00-C14) | 1.4 | 1.6 | 2.3 | 1.9 | 1.1 |
| Esophagus (C15) | 1.3 | 2.2 | 1.4 | 1.6 | 1.4 |
| Stomach (C16) | 1.4 | 2.0 | 1.5 | 1.9 | 1.3 |
| Colon, rectum & anus (C18-C21) | 12.9 | 10.5 | 11.9 | 11.3 | 11.5 |
| Liver & intrahepatic bile duct (C22) | 4.4 | 3.4 | 3.9 | 4.7 | 4.0 |
| Pancreas (C25) | 8.4 | 9.9 | 10.3 | 9.5 | 10.8 |
| Trachea, bronchus & lung (C33-C34) | 36.9 | 35.9 | 34.1 | 31.4 | 31.9 |
| Melanoma of skin (C43) | 1.7 | 1.7 | 2.1 | 1.5 | 1.5 |
| Breast (C50) | 19.9 | 20.3 | 19.9 | 21.3 | 18.1 |
| Cervix uteri (C53) | 1.9 | 2.2 | 2.3 | 2.0 | 1.9 |
| Corpus uteri (C54-C55)[2] | 5.0 | 4.7 | 4.9 | 5.1 | 4.8 |
| Ovary (C56) | 8.4 | 8.9 | 8.4 | 7.8 | 8.3 |
| Prostate (C61) | – | – | – | – | – |
| Kidney & renal pelvis (C64-C65) | 2.2 | 2.2 | 2.5 | 2.1 | 2.1 |
| Bladder (C67) | 1.9 | 1.3 | 2.8 | 2.1 | 2.7 |
| Brain, etc. (C70-C72)[2] | 4.8 | 3.8 | 4.3 | 3.3 | 3.9 |
| Lymphoid & hematopoietic (C81-C96) | 12.3 | 12.8 | 11.0 | 11.0 | 12.5 |
| Non-Hodgkin's lymphoma (C82-C85) | 4.5 | 5.6 | 4.0 | 3.8 | 4.3 |
| Leukemia (C91-C95) | 4.7 | 4.0 | 4.0 | 4.4 | 5.4 |
| Lymphoid leukemia (C91) | 1.1 | 1.1 | 1.0 | 1.2 | 1.3 |
| Myeloid leukemia (C92) | 2.7 | 2.3 | 2.6 | 2.5 | 3.3 |
| Multiple myeloma (C88, C90) | 2.9 | 2.9 | 2.8 | 2.4 | 2.4 |
| Anemias (D50-D64) | 1.3 | 1.2 | 0.8 | 1.1 | 1.0 |
| Diabetes mellitus (E10-E14) | 17.8 | 17.6 | 18.0 | 17.5 | 18.6 |
| Organic dementia (F01, F03)[2] | 50.9 | 47.1 | 44.4 | 39.0 | 42.7 |
| Amyotrophic lateral sclerosis (G12.2) | 2.5 | 1.9 | 2.5 | 1.8 | 1.6 |
| Parkinson's disease (G20-G21) | 5.7 | 5.3 | 5.9 | 5.7 | 5.2 |
| Alzheimer's disease (G30) | 30.6 | 31.1 | 36.4 | 38.9 | 39.5 |
| Major cardiovascular diseases (I00-I78) | 153.5 | 149.9 | 159.1 | 152.2 | 153.7 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 103.3 | 100.7 | 106.3 | 101.7 | 101.6 |
| Rheumatic heart disease (I00-I09)[2] | 2.2 | 1.7 | 1.9 | 1.8 | 2.2 |
| Hypertensive heart disease (I11) | 3.8 | 4.2 | 4.5 | 4.7 | 5.2 |
| Hypertensive heart & renal disease (I13) | 1.2 | 0.8 | 1.3 | 1.4 | 1.5 |
| Ischemic heart disease (I20-I25) | 46.0 | 42.4 | 42.1 | 39.4 | 39.3 |
| Myocardial infarction (I21-I22) | 15.4 | 13.7 | 13.9 | 13.1 | 14.2 |
| Chronic ischemic heart disease (I20, I25) | 30.2 | 28.3 | 27.9 | 26.0 | 24.8 |
| Atherosclerotic cardiovascular dis. (I25.0) | 2.5 | 1.9 | 2.2 | 1.3 | 1.5 |
| Other chr. isch. hrt. dis. (I20, I25.1-I25.9) | 27.7 | 26.4 | 25.7 | 24.7 | 23.3 |
| Nonrheumatic mitral valve disease (I34) | 1.0 | 1.3 | 1.2 | 1.3 | 1.0 |
| Nonrheumatic aortic valve disease (I35) | 9.0 | 10.2 | 9.6 | 9.2 | 7.9 |
| Heart failure (I50) | 15.7 | 15.1 | 17.5 | 17.5 | 17.6 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 9.1 | 9.4 | 10.4 | 9.4 | 9.2 |
| Cerebrovascular disease (I60-I69)[2] | 35.6 | 34.5 | 36.7 | 36.3 | 37.6 |
| Subarachnoid hemorrhage (I60) | 1.3 | 1.5 | 1.7 | 1.2 | 1.4 |
| Intracerebral hemorrhage (I61-I62)[2] | 6.7 | 6.6 | 7.2 | 6.9 | 6.9 |
| Cerebral infarction (I63) | 1.1 | 1.6 | 2.2 | 2.8 | 3.8 |
| Stroke (type not specified) (I64) | 19.1 | 17.9 | 17.2 | 15.5 | 14.4 |

See footnotes at end of table.

**TABLE 6-47f. Age-adjusted death rates[1] for selected causes, Oregon resident females, 2013-2017 — Continued**

| Cause of death | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|---|---|---|---|---|
| Atherosclerosis (I70) | 0.9 | 0.7 | 0.7 | 0.8 | * |
| Aortic aneurysm & dissection (I71) | 2.3 | 2.4 | 2.2 | 1.7 | 2.4 |
| Diseases of arteries (I72-I78)[2] | 2.3 | 2.1 | 2.7 | 2.3 | 2.5 |
| Influenza & pneumonia (J09-J18) | 9.7 | 8.7 | 8.0 | 8.0 | 9.4 |
| Pneumonia (J12-J18) | 8.1 | 7.8 | 6.1 | 6.2 | 6.0 |
| Chronic lower respiratory disease (J40-J47)[2] | 39.6 | 35.6 | 40.6 | 36.9 | 38.0 |
| Emphysema (J43) | 3.0 | 2.3 | 2.4 | 2.3 | 3.0 |
| Asthma (J45-J46) | 1.6 | 2.0 | 1.5 | 1.8 | 1.7 |
| Other CLRD (J44, J47) | 34.9 | 31.2 | 36.6 | 32.7 | 33.0 |
| Pneumonitis from solids & liquids (J69) | 2.6 | 2.3 | 2.5 | 1.8 | 2.5 |
| Peptic ulcer (K25-K28) | 1.0 | 0.8 | 0.9 | 1.2 | 1.1 |
| Vascular disorders of the intestine (K55) | 2.9 | 3.3 | 2.6 | 2.6 | 2.6 |
| Chronic liver disease & cirrhosis (K70, K73-K74) | 7.7 | 8.9 | 9.5 | 8.4 | 8.9 |
| Alcoholic liver disease (K70)[2] | 5.3 | 6.9 | 7.3 | 6.9 | 6.2 |
| Cholelithiasis (K80-K82)[2] | 0.9 | 1.4 | 1.2 | 1.2 | 0.7 |
| Musculoskeletal disease (M00-M99)[2] | 5.9 | 5.4 | 5.2 | 5.0 | 5.2 |
| Genitourinary system disease (N00-N99) | 10.7 | 10.9 | 12.0 | 11.4 | 11.4 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 6.2 | 6.0 | 6.5 | 6.6 | 5.7 |
| Renal failure (N17-N19) | 6.0 | 5.9 | 6.3 | 6.3 | 5.3 |
| Urinary tract infection (N39.0) | 3.2 | 3.3 | 3.9 | 3.4 | 3.5 |
| Perinatal conditions (P00-P96) | 4.0 | 3.3 | 2.5 | 2.8 | 3.2 |
| Congenital malformations (Q00-Q99)[2] | 3.4 | 2.7 | 3.2 | 2.7 | 3.8 |
| Malformation of the heart (Q20-Q24) | 1.2 | * | * | * | * |
| Symptoms & signs NEC (R00-R99)[2] | 13.5 | 11.2 | 8.9 | 8.4 | 6.8 |
| Unintentional injuries (V01-X59, Y85-Y86) | 29.5 | 29.3 | 30.3 | 32.9 | 30.4 |
| Transport accidents (V01-V99, Y85) | 5.0 | 5.8 | 7.3 | 8.1 | 6.9 |
| Motor vehicle accidents (many codes)[2] | 4.6 | 5.4 | 6.9 | 7.8 | 6.5 |
| Motor vehicle traffic accidents (many codes)[2] | 4.4 | 5.0 | 6.7 | 7.7 | 6.2 |
| Water & air, etc. (V90-V99, Y85) | * | * | * | * | * |
| Nontransport accidents (W00-X59, Y86) | 24.4 | 23.5 | 23.1 | 24.7 | 23.5 |
| Falls (W00-W19) | 11.9 | 11.5 | 12.2 | 12.8 | 12.5 |
| Drowning & submersion (W65-W74) | * | * | * | 1.0 | * |
| Exposure to smoke & fire (X00-X09) | * | * | * | * | * |
| Poisoning (X40-X49)[2] | 7.9 | 7.7 | 6.3 | 7.2 | 7.0 |
| Suicide (X60-X84, Y87.0) | 7.6 | 7.9 | 8.5 | 8.7 | 9.1 |
| Poisoning (X60-X69) | 2.5 | 2.4 | 2.8 | 2.7 | 2.8 |
| Hanging/suffocation (X70) | 1.7 | 2.1 | 2.1 | 2.6 | 2.3 |
| Firearm discharge (X72-X74) | 2.6 | 2.7 | 2.4 | 2.6 | 3.0 |
| Homicide (X85-Y09, Y87.1) | 1.4 | 1.7 | 1.9 | 1.9 | 1.5 |
| Firearm discharge (X93-X95) | * | – | 1.1 | * | * |
| Undetermined intent (Y10-Y34, Y87.2, Y89.9) | 1.5 | 1.5 | 1.5 | 1.2 | 1.2 |
| *Alcohol-induced (many codes)*[2] | 8.5 | 9.7 | 10.1 | 10.2 | 10.2 |
| *Drug-induced (many codes)*[2] | 11.2 | 11.7 | 10.9 | 11.2 | 11.6 |
| *Injury by firearms (many codes)*[2] | 3.5 | 3.9 | 3.6 | 3.5 | 3.9 |

– Quantity is zero.
1 Age-adjusted rates are per 100,000 population based on the US year 2000 standard; calculations use age and sex population estimates from the Population Research Center, Portland State University.
2 See footnote for this cause in Table 6-6.
* Age-adjusted rates are not calculated when fewer than 20 deaths were recorded, as the rate would be unreliable.

**TABLE 6-48t. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon residents, 2015-2017**

| Cause of death | State | Clackamas | Deschutes | Douglas | Jackson |
|---|---|---|---|---|---|
| **Total** | 709.2 | 646.3 | 679.4 | 802.5 | 743.2 |
| Infectious & parasitic disease (A00-B99) | 13.8 | 12.4 | 8.6 | 15.1 | 16.2 |
| Septicemia (A40-A41) | 4.8 | 4.8 | * | 5.0 | 4.7 |
| Malignant neoplasms (C00-C97) | 155.4 | 146.4 | 143.5 | 174.5 | 159.4 |
| Esophagus (C15) | 4.4 | 4.4 | 3.2 | 6.6 | 4.9 |
| Colon, rectum & anus (C18-C21) | 13.2 | 11.9 | 16.1 | 13.4 | 14.1 |
| Pancreas (C25) | 11.9 | 12.1 | 15.6 | 11.4 | 10.5 |
| Trachea, bronchus & lung (C33-C34) | 36.1 | 32.1 | 27.7 | 47.4 | 37.7 |
| Breast (C50) | 10.9 | 11.8 | 8.3 | 10.4 | 10.6 |
| Ovary (C56) | 4.4 | 4.2 | 5.0 | 4.7 | 4.9 |
| Prostate (C61) | 8.7 | 8.8 | 6.6 | 9.9 | 9.4 |
| Brain, etc. (C70-C72)[2] | 4.6 | 3.9 | 7.1 | 5.2 | 5.3 |
| Lymphoid & hematopoietic (C81-C96) | 15.2 | 14.3 | 13.9 | 19.4 | 14.5 |
| Non-Hodgkin's lymphoma (C82-C85) | 5.4 | 5.4 | 4.9 | 6.8 | 4.7 |
| Leukemia (C91-C95) | 6.2 | 5.5 | 5.3 | 8.8 | 6.7 |
| Diabetes mellitus (E10-E14) | 23.5 | 19.9 | 16.1 | 33.4 | 20.8 |
| Parkinson's disease (G20-G21) | 8.9 | 9.0 | 14.1 | 7.8 | 10.2 |
| Alzheimer's disease (G30) | 34.1 | 33.0 | 37.5 | 27.8 | 35.3 |
| Major cardiovascular diseases (I00-I78) | 188.7 | 167.2 | 188.7 | 198.4 | 181.4 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 133.6 | 114.8 | 137.4 | 138.4 | 126.5 |
| Hypertensive heart disease (I11) | 4.7 | 4.5 | 5.0 | 3.2 | 3.3 |
| Ischemic heart disease (I20-I25) | 66.1 | 53.3 | 73.4 | 79.7 | 56.6 |
| Myocardial infarction (I21-I22) | 20.4 | 17.0 | 27.6 | 24.2 | 18.0 |
| Chronic ischemic heart disease (I20, I25) | 45.3 | 35.8 | 45.5 | 55.0 | 38.6 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | 2.8 | 1.6 | 3.7 | * | * |
| Heart failure (I50) | 19.5 | 18.1 | 17.9 | 15.6 | 20.0 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 10.7 | 8.6 | 6.6 | 14.6 | 11.9 |
| Cerebrovascular disease (I60-I69)[2] | 37.9 | 37.3 | 37.4 | 39.0 | 35.8 |
| Atherosclerosis (I70) | 0.8 | * | * | * | * |
| Aortic aneurysm & dissection (I71) | 3.0 | 3.1 | 3.0 | * | 3.4 |
| Influenza & pneumonia (J09-J18) | 9.6 | 8.6 | 8.6 | 11.2 | 10.5 |
| Chronic lower respiratory disease (J40-J47)[2] | 40.2 | 31.7 | 37.9 | 55.9 | 47.1 |
| Emphysema (J43) | 2.8 | 2.6 | * | 3.1 | 4.0 |
| Other CLRD (J44, J47) | 36.0 | 27.9 | 36.1 | 50.1 | 41.2 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | 12.9 | 10.7 | 13.5 | 17.5 | 15.0 |
| Alcoholic liver disease (K70)[2] | 10.8 | 9.0 | 11.1 | 14.1 | 12.8 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 7.7 | 7.1 | 5.5 | 10.8 | 8.6 |
| Symptoms & signs NEC (R00-R99)[2] | 9.9 | 7.2 | 4.9 | 6.8 | 20.8 |
| Unintentional injuries (V01-X59, Y85-Y86) | 44.9 | 38.4 | 44.2 | 60.8 | 43.8 |
| Transport accidents (V01-V99, Y85) | 13.0 | 10.7 | 13.9 | 20.3 | 15.7 |
| Motor vehicle accidents (many codes)[2] | 11.9 | 10.1 | 12.0 | 18.3 | 14.8 |
| Nontransport accidents (W00-X59, Y86) | 31.9 | 27.7 | 30.3 | 40.5 | 28.1 |
| Falls (W00-W19) | 14.4 | 12.9 | 16.6 | 15.2 | 11.3 |
| Poisoning (X40-X49)[2] | 10.4 | 7.8 | 8.9 | 12.1 | 9.6 |
| Suicide (X60-X84, Y87.0) | 18.2 | 16.3 | 22.3 | 25.7 | 23.4 |
| Homicide (X85-Y09, Y87.1) | 3.3 | 2.0 | * | 11.2 | * |
| *Alcohol-induced (many codes)*[2] | 17.7 | 14.6 | 16.8 | 24.6 | 19.7 |
| *Drug-induced (many codes)*[2] | 14.8 | 11.3 | 13.4 | 19.1 | 17.8 |
| *Injury by firearms (many codes)*[2] | 11.8 | 10.4 | 14.0 | 21.1 | 14.1 |

See footnotes at end of table.

**TABLE 6-48t. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon residents, 2015-2017 — Continued**

| Cause of death | Josephine | Lane | Linn | Marion | Multnomah |
|---|---|---|---|---|---|
| **Total** | 829.9 | 721.2 | 823.8 | 732.1 | 734.0 |
| Infectious & parasitic disease (A00-B99) | 17.9 | 13.8 | 15.0 | 15.6 | 16.6 |
| Septicemia (A40-A41) | 6.3 | 4.4 | 5.5 | 5.2 | 5.8 |
| Malignant neoplasms (C00-C97) | 176.2 | 151.0 | 175.3 | 163.1 | 157.2 |
| Esophagus (C15) | 6.2 | 3.8 | 4.3 | 3.1 | 3.6 |
| Colon, rectum & anus (C18-C21) | 14.5 | 12.8 | 13.9 | 13.1 | 12.1 |
| Pancreas (C25) | 11.2 | 12.0 | 10.6 | 12.1 | 11.3 |
| Trachea, bronchus & lung (C33-C34) | 44.5 | 34.0 | 46.3 | 39.5 | 37.7 |
| Breast (C50) | 13.6 | 10.1 | 10.5 | 11.9 | 10.9 |
| Ovary (C56) | * | 4.2 | * | 4.9 | 4.3 |
| Prostate (C61) | 10.3 | 8.0 | 10.1 | 8.1 | 8.4 |
| Brain, etc. (C70-C72)[2] | * | 4.2 | 4.1 | 5.1 | 4.7 |
| Lymphoid & hematopoietic (C81-C96) | 17.7 | 14.8 | 19.2 | 16.2 | 15.3 |
| Non-Hodgkin's lymphoma (C82-C85) | 5.5 | 5.3 | 6.2 | 5.8 | 5.8 |
| Leukemia (C91-C95) | 6.9 | 6.4 | 9.4 | 5.7 | 5.6 |
| Diabetes mellitus (E10-E14) | 22.5 | 21.8 | 32.3 | 30.0 | 24.0 |
| Parkinson's disease (G20-G21) | 8.3 | 8.8 | 11.4 | 7.5 | 9.9 |
| Alzheimer's disease (G30) | 23.8 | 49.5 | 41.2 | 26.8 | 35.0 |
| Major cardiovascular diseases (I00-I78) | 187.1 | 180.0 | 228.2 | 192.0 | 204.8 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 128.2 | 125.1 | 167.3 | 132.9 | 143.6 |
| Hypertensive heart disease (I11) | 4.5 | 4.1 | 6.1 | 4.3 | 5.6 |
| Ischemic heart disease (I20-I25) | 63.1 | 56.2 | 83.2 | 69.6 | 69.2 |
| Myocardial infarction (I21-I22) | 18.4 | 18.2 | 26.6 | 19.5 | 18.6 |
| Chronic ischemic heart disease (I20, I25) | 44.2 | 37.8 | 56.4 | 49.8 | 50.1 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | * | * | * | 1.9 | 2.5 |
| Heart failure (I50) | 16.0 | 18.9 | 23.8 | 18.5 | 20.6 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 14.6 | 12.0 | 14.4 | 11.3 | 11.5 |
| Cerebrovascular disease (I60-I69)[2] | 35.7 | 36.5 | 39.5 | 40.6 | 43.0 |
| Atherosclerosis (I70) | * | * | * | * | * |
| Aortic aneurysm & dissection (I71) | * | 3.8 | * | 3.1 | 3.3 |
| Influenza & pneumonia (J09-J18) | 11.8 | 10.1 | 9.2 | 9.3 | 11.6 |
| Chronic lower respiratory disease (J40-J47)[2] | 52.8 | 41.4 | 48.5 | 37.1 | 38.6 |
| Emphysema (J43) | 4.0 | 3.0 | * | 2.2 | 3.0 |
| Other CLRD (J44, J47) | 46.9 | 36.8 | 45.1 | 33.0 | 34.1 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | 21.7 | 12.8 | 17.0 | 12.3 | 11.3 |
| Alcoholic liver disease (K70)[2] | 18.7 | 10.8 | 14.6 | 10.0 | 9.5 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 7.8 | 9.3 | 7.7 | 7.6 | 6.4 |
| Symptoms & signs NEC (R00-R99)[2] | 20.5 | 7.8 | 8.4 | 12.7 | 9.2 |
| Unintentional injuries (V01-X59, Y85-Y86) | 67.1 | 57.3 | 56.4 | 46.0 | 44.6 |
| Transport accidents (V01-V99, Y85) | 34.2 | 15.0 | 16.6 | 14.0 | 8.3 |
| Motor vehicle accidents (many codes)[2] | 31.4 | 13.7 | 15.0 | 12.9 | 7.5 |
| Nontransport accidents (W00-X59, Y86) | 32.9 | 42.3 | 39.9 | 32.1 | 36.2 |
| Falls (W00-W19) | 11.1 | 19.0 | 23.2 | 16.7 | 14.9 |
| Poisoning (X40-X49)[2] | 14.1 | 15.7 | 7.9 | 9.3 | 14.5 |
| Suicide (X60-X84, Y87.0) | 28.1 | 20.7 | 22.1 | 16.4 | 15.2 |
| Homicide (X85-Y09, Y87.1) | * | 3.3 | * | 3.5 | 3.8 |
| *Alcohol-induced (many codes)*[2] | 28.9 | 18.3 | 22.6 | 16.0 | 17.7 |
| *Drug-induced (many codes)*[2] | 21.0 | 20.9 | 12.2 | 14.1 | 19.1 |
| *Injury by firearms (many codes)*[2] | 25.7 | 13.8 | 11.2 | 11.1 | 9.2 |

See footnotes at end of table.

**TABLE 6-48t. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon residents, 2015-2017 — Continued**

| Cause of death | Washington | Yamhill | North coast: Clatsop, Columbia, Lincoln, Tillamook | South coast: Coos, Curry |
|---|---|---|---|---|
| **Total** | 584.7 | 734.9 | 763.0 | 881.7 |
| Infectious & parasitic disease (A00-B99) | 10.1 | 10.4 | 14.4 | 24.9 |
| Septicemia (A40-A41) | 3.9 | * | 4.7 | 7.1 |
| Malignant neoplasms (C00-C97) | 132.0 | 157.2 | 176.1 | 190.2 |
| Esophagus (C15) | 3.4 | 5.4 | 6.6 | 6.6 |
| Colon, rectum & anus (C18-C21) | 10.0 | 16.0 | 15.3 | 16.7 |
| Pancreas (C25) | 11.4 | 13.6 | 13.0 | 14.7 |
| Trachea, bronchus & lung (C33-C34) | 27.1 | 34.4 | 44.7 | 48.3 |
| Breast (C50) | 10.2 | 9.2 | 10.2 | 13.6 |
| Ovary (C56) | 3.9 | * | 4.9 | 4.4 |
| Prostate (C61) | 6.9 | 10.9 | 9.0 | 9.6 |
| Brain, etc. (C70-C72)[2] | 4.5 | * | 3.8 | 5.6 |
| Lymphoid & hematopoietic (C81-C96) | 13.1 | 19.0 | 16.8 | 15.1 |
| Non-Hodgkin's lymphoma (C82-C85) | 4.3 | 7.6 | 5.7 | 5.5 |
| Leukemia (C91-C95) | 5.4 | 7.3 | 7.2 | 7.0 |
| Diabetes mellitus (E10-E14) | 18.6 | 24.3 | 25.6 | 28.6 |
| Parkinson's disease (G20-G21) | 8.1 | 11.1 | 6.7 | 6.2 |
| Alzheimer's disease (G30) | 35.1 | 38.1 | 32.2 | 36.7 |
| Major cardiovascular diseases (I00-I78) | 162.1 | 200.2 | 205.1 | 237.0 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 114.0 | 149.3 | 150.3 | 172.2 |
| Hypertensive heart disease (I11) | 4.5 | 7.2 | 6.0 | 5.7 |
| Ischemic heart disease (I20-I25) | 53.1 | 74.4 | 77.1 | 91.6 |
| Myocardial infarction (I21-I22) | 16.2 | 19.4 | 24.9 | 38.8 |
| Chronic ischemic heart disease (I20, I25) | 36.5 | 53.8 | 51.0 | 52.6 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | 1.9 | 5.6 | * | 4.5 |
| Heart failure (I50) | 19.7 | 21.3 | 25.0 | 24.0 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 9.9 | 7.3 | 10.1 | 13.7 |
| Cerebrovascular disease (I60-I69)[2] | 33.6 | 38.2 | 38.1 | 41.8 |
| Atherosclerosis (I70) | * | * | * | * |
| Aortic aneurysm & dissection (I71) | 1.7 | * | 2.8 | 5.1 |
| Influenza & pneumonia (J09-J18) | 7.3 | 8.5 | 9.3 | 12.3 |
| Chronic lower respiratory disease (J40-J47)[2] | 24.4 | 43.3 | 48.3 | 54.3 |
| Emphysema (J43) | 1.3 | * | 5.3 | * |
| Other CLRD (J44, J47) | 21.8 | 38.4 | 42.1 | 49.6 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | 8.8 | 10.4 | 16.0 | 23.1 |
| Alcoholic liver disease (K70)[2] | 6.9 | 8.8 | 14.1 | 21.3 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 7.7 | 11.5 | 6.2 | 9.3 |
| Symptoms & signs NEC (R00-R99)[2] | 7.0 | * | 10.9 | 20.8 |
| Unintentional injuries (V01-X59, Y85-Y86) | 26.5 | 49.0 | 53.8 | 67.0 |
| Transport accidents (V01-V99, Y85) | 6.4 | 16.8 | 19.3 | 22.1 |
| Motor vehicle accidents (many codes)[2] | 6.0 | 15.1 | 17.5 | 18.7 |
| Nontransport accidents (W00-X59, Y86) | 20.1 | 32.2 | 34.5 | 44.9 |
| Falls (W00-W19) | 9.8 | 15.5 | 14.3 | 15.2 |
| Poisoning (X40-X49)[2] | 5.5 | 9.7 | 11.6 | 16.2 |
| Suicide (X60-X84, Y87.0) | 12.9 | 19.3 | 27.1 | 29.0 |
| Homicide (X85-Y09, Y87.1) | 1.5 | * | * | * |
| *Alcohol-induced (many codes)*[2] | 11.1 | 12.4 | 21.8 | 35.8 |
| *Drug-induced (many codes)*[2] | 9.1 | 11.7 | 16.1 | 19.8 |
| *Injury by firearms (many codes)*[2] | 7.2 | 8.8 | 16.8 | 19.3 |

See footnotes at end of table.

**TABLE 6-48t. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon residents, 2015-2017 — Continued**

| Cause of death | Mid valley: Benton, Polk | North central: Crook, Gilliam, Hood River, Jefferson, Sherman, Wasco, Wheeler | South central: Klamath, Lake | Eastern Oregon: Baker, Grant, Harney, Malheur, Morrow, Umatilla, Union, Wallowa |
|---|---|---|---|---|
| **Total** | 610.8 | 722.4 | 836.2 | 723.5 |
| Infectious & parasitic disease (A00-B99) | 8.7 | 8.8 | 19.7 | 12.8 |
| Septicemia (A40-A41) | 3.6 | * | * | 6.4 |
| Malignant neoplasms (C00-C97) | 139.7 | 162.3 | 172.8 | 154.7 |
| Esophagus (C15) | 5.3 | 5.1 | * | 5.0 |
| Colon, rectum & anus (C18-C21) | 10.7 | 17.4 | 16.3 | 16.1 |
| Pancreas (C25) | 9.8 | 13.2 | 12.4 | 11.0 |
| Trachea, bronchus & lung (C33-C34) | 31.7 | 39.4 | 33.3 | 32.6 |
| Breast (C50) | 9.8 | 9.2 | 12.6 | 14.7 |
| Ovary (C56) | 5.4 | 4.5 | * | 5.8 |
| Prostate (C61) | 8.8 | 11.1 | 13.9 | 7.4 |
| Brain, etc. (C70-C72)[2] | 5.5 | 6.2 | * | 3.4 |
| Lymphoid & hematopoietic (C81-C96) | 13.8 | 13.1 | 22.7 | 12.7 |
| Non-Hodgkin's lymphoma (C82-C85) | 5.7 | * | 7.1 | 4.4 |
| Leukemia (C91-C95) | 4.5 | 5.6 | 9.5 | 5.1 |
| Diabetes mellitus (E10-E14) | 20.8 | 24.3 | 30.7 | 26.1 |
| Parkinson's disease (G20-G21) | 9.8 | 8.4 | 6.3 | 7.0 |
| Alzheimer's disease (G30) | 28.2 | 17.0 | 28.2 | 30.1 |
| Major cardiovascular diseases (I00-I78) | 160.4 | 216.0 | 206.4 | 197.6 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 113.8 | 157.3 | 156.5 | 144.3 |
| Hypertensive heart disease (I11) | 3.7 | 6.9 | * | 4.5 |
| Ischemic heart disease (I20-I25) | 56.6 | 82.8 | 75.3 | 80.3 |
| Myocardial infarction (I21-I22) | 18.5 | 24.3 | 20.2 | 24.6 |
| Chronic ischemic heart disease (I20, I25) | 37.7 | 57.7 | 54.7 | 55.1 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | * | * | 6.1 | 11.5 |
| Heart failure (I50) | 18.6 | 17.2 | 20.9 | 18.5 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 9.9 | 10.4 | 11.5 | 7.8 |
| Cerebrovascular disease (I60-I69)[2] | 32.0 | 43.7 | 33.2 | 37.8 |
| Atherosclerosis (I70) | * | * | – | * |
| Aortic aneurysm & dissection (I71) | * | * | * | * |
| Influenza & pneumonia (J09-J18) | 9.1 | 8.4 | 10.0 | 8.5 |
| Chronic lower respiratory disease (J40-J47)[2] | 28.8 | 36.0 | 65.9 | 51.3 |
| Emphysema (J43) | * | 4.6 | * | 3.0 |
| Other CLRD (J44, J47) | 25.0 | 30.7 | 61.4 | 46.3 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | 8.7 | 14.2 | 26.1 | 15.0 |
| Alcoholic liver disease (K70)[2] | 6.8 | 12.5 | 23.1 | 12.4 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 6.8 | 7.1 | 7.2 | 9.2 |
| Symptoms & signs NEC (R00-R99)[2] | 8.6 | 6.8 | 19.8 | 10.4 |
| Unintentional injuries (V01-X59, Y85-Y86) | 40.0 | 52.5 | 49.9 | 52.0 |
| Transport accidents (V01-V99, Y85) | 10.2 | 22.4 | 21.5 | 18.5 |
| Motor vehicle accidents (many codes)[2] | 9.9 | 21.0 | 20.4 | 17.3 |
| Nontransport accidents (W00-X59, Y86) | 29.8 | 30.1 | 28.4 | 33.5 |
| Falls (W00-W19) | 16.8 | 12.3 | 9.8 | 12.9 |
| Poisoning (X40-X49)[2] | 6.5 | 8.8 | 10.8 | 9.3 |
| Suicide (X60-X84, Y87.0) | 12.5 | 18.4 | 28.9 | 20.5 |
| Homicide (X85-Y09, Y87.1) | * | * | * | 4.3 |
| *Alcohol-induced (many codes)*[2] | 12.8 | 22.4 | 31.0 | 18.5 |
| *Drug-induced (many codes)*[2] | 9.7 | 10.8 | 18.0 | 11.5 |
| *Injury by firearms (many codes)*[2] | 6.8 | 14.3 | 23.8 | 15.3 |

– Quantity is zero.
1 Age-adjusted rates are per 100,000 population based on the US year 2000 standard; calculations use age and sex population estimates from the Population Research Center, Portland State University.
2 See footnote for this cause in Table 6-6.
* Age-adjusted rates are not calculated when fewer than 20 deaths were recorded, as the rate would be unreliable.

**TABLE 6-48m. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon resident males, 2015-2017**

| Cause of death | State | Clackamas | Deschutes | Douglas | Jackson |
|---|---|---|---|---|---|
| **Total** | 833.8 | 757.8 | 763.1 | 950.3 | 881.5 |
| Infectious & parasitic disease (A00-B99) | 16.2 | 15.8 | 8.5 | 19.0 | 20.9 |
| Septicemia (A40-A41) | 5.3 | 6.0 | * | * | 6.8 |
| Malignant neoplasms (C00-C97) | 181.7 | 172.7 | 164.3 | 205.7 | 184.1 |
| Esophagus (C15) | 7.9 | 9.0 | * | 11.6 | 9.2 |
| Colon, rectum & anus (C18-C21) | 15.0 | 12.9 | 17.3 | 14.2 | 14.0 |
| Pancreas (C25) | 14.0 | 13.9 | 19.3 | 11.0 | 13.4 |
| Trachea, bronchus & lung (C33-C34) | 40.8 | 36.3 | 31.4 | 56.3 | 43.1 |
| Breast (C50) | 0.4 | * | * | – | – |
| Ovary (C56) | – | – | – | – | – |
| Prostate (C61) | 20.7 | 21.7 | 15.5 | 22.7 | 21.9 |
| Brain, etc. (C70-C72)[2] | 5.6 | 4.9 | 8.5 | * | 7.1 |
| Lymphoid & hematopoietic (C81-C96) | 20.0 | 21.0 | 17.4 | 25.0 | 16.7 |
| Non-Hodgkin's lymphoma (C82-C85) | 7.0 | 8.3 | * | 8.3 | 5.7 |
| Leukemia (C91-C95) | 8.3 | 7.9 | 7.3 | 11.1 | 7.0 |
| Diabetes mellitus (E10-E14) | 30.2 | 25.4 | 19.2 | 45.3 | 27.9 |
| Parkinson's disease (G20-G21) | 13.7 | 15.1 | 19.5 | 11.6 | 16.0 |
| Alzheimer's disease (G30) | 27.4 | 26.9 | 27.3 | 19.5 | 28.6 |
| Major cardiovascular diseases (I00-I78) | 229.8 | 204.6 | 215.1 | 248.5 | 222.5 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 171.6 | 152.0 | 166.0 | 181.5 | 165.8 |
| Hypertensive heart disease (I11) | 4.4 | 4.8 | * | * | * |
| Ischemic heart disease (I20-I25) | 99.4 | 85.8 | 105.2 | 119.8 | 87.0 |
| Myocardial infarction (I21-I22) | 28.7 | 25.4 | 36.4 | 34.9 | 25.2 |
| Chronic ischemic heart disease (I20, I25) | 70.1 | 60.0 | 68.4 | 84.2 | 61.8 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | 4.1 | * | * | * | * |
| Heart failure (I50) | 22.0 | 20.1 | 19.0 | 18.2 | 26.2 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 11.7 | 8.0 | 7.6 | 17.4 | 10.1 |
| Cerebrovascular disease (I60-I69)[2] | 38.5 | 36.3 | 33.4 | 40.7 | 38.5 |
| Atherosclerosis (I70) | 1.0 | * | * | * | – |
| Aortic aneurysm & dissection (I71) | 4.1 | 4.5 | * | * | 4.2 |
| Influenza & pneumonia (J09-J18) | 11.0 | 9.8 | 11.1 | 10.7 | 13.1 |
| Chronic lower respiratory disease (J40-J47)[2] | 43.1 | 32.8 | 34.8 | 59.0 | 51.7 |
| Emphysema (J43) | 3.2 | * | * | * | 5.7 |
| Other CLRD (J44, J47) | 38.9 | 29.5 | 33.4 | 54.1 | 43.8 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | 17.2 | 13.0 | 18.1 | 23.2 | 21.2 |
| Alcoholic liver disease (K70)[2] | 15.1 | 11.3 | 16.3 | 19.8 | 19.0 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 9.7 | 7.5 | 8.1 | 14.2 | 10.9 |
| Symptoms & signs NEC (R00-R99)[2] | 11.9 | 8.9 | * | * | 26.3 |
| Unintentional injuries (V01-X59, Y85-Y86) | 59.5 | 49.4 | 57.1 | 74.2 | 58.4 |
| Transport accidents (V01-V99, Y85) | 18.7 | 14.4 | 22.1 | 24.7 | 21.8 |
| Motor vehicle accidents (many codes)[2] | 16.9 | 13.4 | 18.6 | 21.2 | 20.3 |
| Nontransport accidents (W00-X59, Y86) | 40.8 | 34.9 | 35.0 | 49.5 | 36.6 |
| Falls (W00-W19) | 16.5 | 13.7 | 17.4 | 17.6 | 13.5 |
| Poisoning (X40-X49)[2] | 14.0 | 11.2 | 11.9 | 14.2 | 12.5 |
| Suicide (X60-X84, Y87.0) | 28.3 | 27.0 | 32.4 | 41.7 | 33.0 |
| Homicide (X85-Y09, Y87.1) | 4.8 | 3.4 | * | * | * |
| *Alcohol-induced (many codes)*[2] | 25.9 | 19.7 | 25.4 | 32.2 | 31.1 |
| *Drug-induced (many codes)*[2] | 18.6 | 15.6 | 17.0 | 20.9 | 21.4 |
| *Injury by firearms (many codes)*[2] | 20.4 | 19.1 | 21.9 | 29.8 | 24.0 |

See footnotes at end of table.

**TABLE 6-48m. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon resident males, 2015-2017 — Continued**

| Cause of death | Josephine | Lane | Linn | Marion | Multnomah |
|---|---|---|---|---|---|
| **Total** | 1004.0 | 859.2 | 953.4 | 862.9 | 884.4 |
| Infectious & parasitic disease (A00-B99) | 25.8 | 16.6 | 21.8 | 18.1 | 20.1 |
| Septicemia (A40-A41) | * | 5.2 | * | 4.9 | 6.1 |
| Malignant neoplasms (C00-C97) | 207.8 | 179.9 | 210.6 | 191.5 | 183.6 |
| Esophagus (C15) | 10.6 | 7.1 | * | 6.0 | 6.6 |
| Colon, rectum & anus (C18-C21) | 17.5 | 14.5 | 15.6 | 17.6 | 15.5 |
| Pancreas (C25) | 12.4 | 14.6 | 14.9 | 14.0 | 13.4 |
| Trachea, bronchus & lung (C33-C34) | 52.5 | 37.3 | 54.9 | 48.9 | 40.4 |
| Breast (C50) | – | * | * | * | * |
| Ovary (C56) | – | – | – | – | – |
| Prostate (C61) | 23.6 | 18.9 | 23.8 | 20.2 | 21.1 |
| Brain, etc. (C70-C72)[2] | * | 5.7 | * | 7.0 | 6.0 |
| Lymphoid & hematopoietic (C81-C96) | 27.9 | 18.9 | 24.4 | 19.6 | 18.3 |
| Non-Hodgkin's lymphoma (C82-C85) | 9.8 | 6.4 | * | 7.8 | 7.3 |
| Leukemia (C91-C95) | 9.5 | 8.0 | 11.6 | 6.2 | 7.5 |
| Diabetes mellitus (E10-E14) | 32.2 | 26.0 | 35.7 | 37.7 | 32.8 |
| Parkinson's disease (G20-G21) | 13.7 | 14.6 | 16.3 | 10.6 | 15.3 |
| Alzheimer's disease (G30) | 21.7 | 40.9 | 32.3 | 20.3 | 28.5 |
| Major cardiovascular diseases (I00-I78) | 235.0 | 220.9 | 271.9 | 234.6 | 255.5 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 166.4 | 161.4 | 204.1 | 171.5 | 188.0 |
| Hypertensive heart disease (I11) | * | 4.3 | * | 4.3 | 4.8 |
| Ischemic heart disease (I20-I25) | 92.2 | 83.2 | 122.4 | 106.3 | 103.8 |
| Myocardial infarction (I21-I22) | 27.4 | 26.2 | 40.1 | 27.1 | 26.8 |
| Chronic ischemic heart disease (I20, I25) | 64.7 | 56.6 | 82.3 | 78.6 | 76.6 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | * | * | * | * | 3.7 |
| Heart failure (I50) | 16.6 | 20.7 | 23.1 | 23.1 | 25.9 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 16.5 | 15.4 | 15.6 | 12.2 | 13.2 |
| Cerebrovascular disease (I60-I69)[2] | 40.7 | 34.7 | 44.0 | 42.3 | 45.0 |
| Atherosclerosis (I70) | * | * | * | * | * |
| Aortic aneurysm & dissection (I71) | * | 6.7 | * | 4.0 | 5.1 |
| Influenza & pneumonia (J09-J18) | 16.2 | 13.3 | 9.4 | 11.8 | 12.5 |
| Chronic lower respiratory disease (J40-J47)[2] | 57.9 | 45.2 | 55.6 | 41.0 | 42.4 |
| Emphysema (J43) | * | 4.3 | * | * | 3.6 |
| Other CLRD (J44, J47) | 51.4 | 39.8 | 54.0 | 37.8 | 37.8 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | 30.2 | 17.8 | 26.9 | 15.7 | 16.0 |
| Alcoholic liver disease (K70)[2] | 24.9 | 15.8 | 23.1 | 14.0 | 14.3 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 10.8 | 10.8 | * | 11.9 | 8.5 |
| Symptoms & signs NEC (R00-R99)[2] | 25.3 | 11.2 | 11.3 | 14.0 | 10.8 |
| Unintentional injuries (V01-X59, Y85-Y86) | 93.0 | 75.0 | 69.7 | 60.2 | 62.7 |
| Transport accidents (V01-V99, Y85) | 45.9 | 22.9 | 21.4 | 20.0 | 13.1 |
| Motor vehicle accidents (many codes)[2] | 40.3 | 20.5 | 18.0 | 18.4 | 11.9 |
| Nontransport accidents (W00-X59, Y86) | 47.1 | 52.1 | 48.3 | 40.2 | 49.6 |
| Falls (W00-W19) | 12.4 | 19.4 | 24.8 | 19.0 | 19.2 |
| Poisoning (X40-X49)[2] | 22.6 | 21.6 | * | 11.5 | 20.7 |
| Suicide (X60-X84, Y87.0) | 39.5 | 33.2 | 32.8 | 25.1 | 24.4 |
| Homicide (X85-Y09, Y87.1) | * | 4.4 | * | 5.2 | 6.1 |
| *Alcohol-induced (many codes)*[2] | 42.6 | 28.0 | 33.4 | 23.1 | 27.3 |
| *Drug-induced (many codes)*[2] | 33.0 | 27.3 | 13.0 | 16.6 | 25.7 |
| *Injury by firearms (many codes)*[2] | 39.7 | 24.6 | 17.6 | 19.5 | 16.5 |

See footnotes at end of table.

**TABLE 6-48m. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon resident males, 2015-2017 — Continued**

| Cause of death | Washington | Yamhill | North coast: Clatsop, Columbia, Lincoln, Tillamook | South coast: Coos, Curry |
|---|---|---|---|---|
| **Total** | 679.8 | 858.9 | 884.1 | 1012.0 |
| Infectious & parasitic disease (A00-B99) | 10.5 | 11.2 | 14.4 | 27.8 |
| Septicemia (A40-A41) | 3.9 | * | * | * |
| Malignant neoplasms (C00-C97) | 156.0 | 183.4 | 198.5 | 210.9 |
| Esophagus (C15) | 6.5 | 11.1 | 11.0 | 10.3 |
| Colon, rectum & anus (C18-C21) | 12.5 | 16.6 | 18.4 | 14.6 |
| Pancreas (C25) | 14.5 | 15.3 | 12.8 | 15.2 |
| Trachea, bronchus & lung (C33-C34) | 31.6 | 40.5 | 47.1 | 50.3 |
| Breast (C50) | * | * | * | * |
| Ovary (C56) | – | – | – | – |
| Prostate (C61) | 17.2 | 26.5 | 20.7 | 20.6 |
| Brain, etc. (C70-C72)[2] | 5.2 | * | * | * |
| Lymphoid & hematopoietic (C81-C96) | 16.7 | 23.9 | 23.0 | 21.6 |
| Non-Hodgkin's lymphoma (C82-C85) | 5.6 | * | 6.6 | * |
| Leukemia (C91-C95) | 7.3 | 11.1 | 10.3 | 9.8 |
| Diabetes mellitus (E10-E14) | 25.5 | 28.5 | 30.5 | 41.3 |
| Parkinson's disease (G20-G21) | 12.5 | 17.9 | 10.4 | * |
| Alzheimer's disease (G30) | 29.2 | 32.6 | 28.2 | 30.5 |
| Major cardiovascular diseases (I00-I78) | 198.1 | 255.3 | 242.0 | 272.5 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 148.6 | 197.6 | 184.0 | 208.7 |
| Hypertensive heart disease (I11) | 3.9 | * | * | * |
| Ischemic heart disease (I20-I25) | 83.8 | 118.3 | 109.9 | 124.5 |
| Myocardial infarction (I21-I22) | 22.6 | 26.3 | 32.1 | 51.5 |
| Chronic ischemic heart disease (I20, I25) | 60.7 | 90.1 | 76.1 | 72.7 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | 3.6 | * | * | * |
| Heart failure (I50) | 22.1 | 29.5 | 24.8 | 21.6 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 10.4 | * | 13.0 | 16.3 |
| Cerebrovascular disease (I60-I69)[2] | 33.9 | 43.3 | 36.3 | 40.8 |
| Atherosclerosis (I70) | * | * | * | * |
| Aortic aneurysm & dissection (I71) | * | * | * | * |
| Influenza & pneumonia (J09-J18) | 8.4 | * | 11.5 | 11.1 |
| Chronic lower respiratory disease (J40-J47)[2] | 25.4 | 43.6 | 52.8 | 54.2 |
| Emphysema (J43) | * | * | * | * |
| Other CLRD (J44, J47) | 23.0 | 38.2 | 45.7 | 50.1 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | 11.9 | 11.2 | 20.1 | 28.0 |
| Alcoholic liver disease (K70)[2] | 9.6 | * | 19.0 | 26.3 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 9.7 | * | 6.8 | 11.4 |
| Symptoms & signs NEC (R00-R99)[2] | 7.4 | * | 14.1 | 26.1 |
| Unintentional injuries (V01-X59, Y85-Y86) | 34.9 | 63.2 | 71.9 | 92.3 |
| Transport accidents (V01-V99, Y85) | 9.1 | 22.6 | 28.3 | 27.6 |
| Motor vehicle accidents (many codes)[2] | 8.2 | 19.2 | 25.6 | 21.9 |
| Nontransport accidents (W00-X59, Y86) | 25.8 | 40.6 | 43.6 | 64.7 |
| Falls (W00-W19) | 12.2 | 17.6 | 16.4 | 21.7 |
| Poisoning (X40-X49)[2] | 6.7 | 13.7 | 15.7 | 21.7 |
| Suicide (X60-X84, Y87.0) | 19.1 | 29.2 | 42.1 | 43.7 |
| Homicide (X85-Y09, Y87.1) | * | * | * | * |
| *Alcohol-induced (many codes)*[2] | 16.0 | 15.2 | 32.0 | 43.9 |
| *Drug-induced (many codes)*[2] | 9.8 | 15.5 | 16.8 | 25.2 |
| *Injury by firearms (many codes)*[2] | 12.5 | 16.3 | 29.6 | 32.1 |

See footnotes at end of table.

**TABLE 6-48m. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon resident males, 2015-2017 — Continued**

| Cause of death | Mid valley: Benton, Polk | North central: Crook, Gilliam, Hood River, Jefferson, Sherman, Wasco, Wheeler | South central: Klamath, Lake | Eastern Oregon: Baker, Grant, Harney, Malheur, Morrow, Umatilla, Union, Wallowa |
|---|---|---|---|---|
| **Total** | 711.9 | 868.6 | 968.3 | 814.7 |
| Infectious & parasitic disease (A00-B99) | * | 10.4 | 24.0 | 13.6 |
| Septicemia (A40-A41) | * | * | * | * |
| Malignant neoplasms (C00-C97) | 167.8 | 200.1 | 191.9 | 167.3 |
| Esophagus (C15) | 8.0 | 8.9 | * | 8.3 |
| Colon, rectum & anus (C18-C21) | 10.9 | 20.3 | 16.1 | 16.2 |
| Pancreas (C25) | 10.8 | 15.9 | 15.0 | 12.3 |
| Trachea, bronchus & lung (C33-C34) | 37.0 | 45.0 | 31.0 | 37.3 |
| Breast (C50) | * | – | * | * |
| Ovary (C56) | – | – | – | – |
| Prostate (C61) | 21.0 | 25.1 | 31.7 | 16.4 |
| Brain, etc. (C70-C72)[2] | * | * | * | * |
| Lymphoid & hematopoietic (C81-C96) | 20.8 | 18.3 | 32.6 | 17.7 |
| Non-Hodgkin's lymphoma (C82-C85) | 8.4 | * | * | 6.3 |
| Leukemia (C91-C95) | 7.0 | * | 13.7 | 7.0 |
| Diabetes mellitus (E10-E14) | 24.7 | 30.2 | 39.2 | 32.2 |
| Parkinson's disease (G20-G21) | 15.0 | 11.8 | * | 11.0 |
| Alzheimer's disease (G30) | 25.3 | 13.7 | 18.6 | 20.2 |
| Major cardiovascular diseases (I00-I78) | 195.1 | 265.2 | 236.3 | 228.3 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 147.6 | 202.4 | 187.2 | 173.4 |
| Hypertensive heart disease (I11) | * | * | * | * |
| Ischemic heart disease (I20-I25) | 86.3 | 120.4 | 106.7 | 112.5 |
| Myocardial infarction (I21-I22) | 24.7 | 33.4 | 26.4 | 32.3 |
| Chronic ischemic heart disease (I20, I25) | 60.5 | 85.4 | 79.6 | 79.3 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | * | * | * | 16.3 |
| Heart failure (I50) | 20.1 | 19.1 | 18.6 | 18.3 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 11.4 | * | 13.9 | 6.6 |
| Cerebrovascular disease (I60-I69)[2] | 29.9 | 48.4 | 30.4 | 38.6 |
| Atherosclerosis (I70) | * | – | – | * |
| Aortic aneurysm & dissection (I71) | * | * | * | * |
| Influenza & pneumonia (J09-J18) | 8.4 | 10.3 | * | 10.0 |
| Chronic lower respiratory disease (J40-J47)[2] | 31.7 | 36.6 | 73.3 | 50.8 |
| Emphysema (J43) | * | * | * | * |
| Other CLRD (J44, J47) | 28.2 | 31.6 | 69.7 | 46.7 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | 9.8 | 16.7 | 35.4 | 18.7 |
| Alcoholic liver disease (K70)[2] | 8.4 | 15.6 | 30.6 | 16.9 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 9.8 | * | * | 10.7 |
| Symptoms & signs NEC (R00-R99)[2] | 10.7 | * | 24.6 | 11.9 |
| Unintentional injuries (V01-X59, Y85-Y86) | 48.3 | 68.3 | 61.8 | 71.7 |
| Transport accidents (V01-V99, Y85) | 14.1 | 31.6 | 29.9 | 28.4 |
| Motor vehicle accidents (many codes)[2] | 13.5 | 29.9 | 27.7 | 27.1 |
| Nontransport accidents (W00-X59, Y86) | 34.2 | 36.7 | 31.8 | 43.3 |
| Falls (W00-W19) | 17.3 | 15.7 | * | 14.6 |
| Poisoning (X40-X49)[2] | 9.4 | * | * | 12.2 |
| Suicide (X60-X84, Y87.0) | 19.7 | 30.3 | 44.7 | 31.3 |
| Homicide (X85-Y09, Y87.1) | * | * | * | * |
| *Alcohol-induced (many codes)*[2] | 18.5 | 28.9 | 44.6 | 26.1 |
| *Drug-induced (many codes)*[2] | 11.2 | * | 21.2 | 14.8 |
| *Injury by firearms (many codes)*[2] | 11.8 | 25.9 | 41.5 | 25.8 |

– Quantity is zero.
1 Age-adjusted rates are per 100,000 population based on the US year 2000 standard; calculations use age and sex population estimates from the Population Research Center, Portland State University.
2 See footnote for this cause in Table 6-6.
* Age-adjusted rates are not calculated when fewer than 20 deaths were recorded, as the rate would be unreliable.

**TABLE 6-48f. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon resident females, 2015-2017**

| Cause of death | State | Clackamas | Deschutes | Douglas | Jackson |
|---|---|---|---|---|---|
| **Total** | 604.4 | 556.6 | 601.8 | 669.0 | 624.0 |
| Infectious & parasitic disease (A00-B99) | 11.7 | 9.8 | 8.8 | 11.8 | 11.8 |
| Septicemia (A40-A41) | 4.5 | 4.0 | * | * | * |
| Malignant neoplasms (C00-C97) | 136.1 | 127.9 | 127.3 | 148.9 | 140.5 |
| Esophagus (C15) | 1.4 | * | * | * | * |
| Colon, rectum & anus (C18-C21) | 11.6 | 10.7 | 14.8 | 12.4 | 14.1 |
| Pancreas (C25) | 10.2 | 10.9 | 12.4 | 11.6 | 8.0 |
| Trachea, bronchus & lung (C33-C34) | 32.4 | 29.3 | 24.8 | 40.2 | 33.5 |
| Breast (C50) | 19.8 | 21.0 | 15.4 | 19.9 | 19.8 |
| Ovary (C56) | 8.2 | 7.7 | 9.5 | 8.9 | 8.9 |
| Prostate (C61) | – | – | – | – | – |
| Brain, etc. (C70-C72)[2] | 3.8 | 3.0 | 5.8 | * | * |
| Lymphoid & hematopoietic (C81-C96) | 11.5 | 9.2 | 11.1 | 14.8 | 12.7 |
| Non-Hodgkin's lymphoma (C82-C85) | 4.1 | 3.2 | * | * | 3.8 |
| Leukemia (C91-C95) | 4.6 | 3.5 | * | 7.1 | 6.7 |
| Diabetes mellitus (E10-E14) | 18.0 | 16.3 | 13.1 | 23.2 | 15.3 |
| Parkinson's disease (G20-G21) | 5.6 | 5.1 | 10.2 | * | 6.2 |
| Alzheimer's disease (G30) | 38.3 | 36.4 | 44.6 | 33.5 | 39.5 |
| Major cardiovascular diseases (I00-I78) | 155.0 | 137.0 | 165.0 | 155.2 | 147.7 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 103.2 | 86.0 | 113.2 | 101.2 | 95.2 |
| Hypertensive heart disease (I11) | 4.8 | 4.2 | 6.1 | * | 3.2 |
| Ischemic heart disease (I20-I25) | 40.2 | 29.3 | 47.7 | 45.7 | 32.7 |
| Myocardial infarction (I21-I22) | 13.7 | 10.7 | 19.6 | 15.0 | 12.3 |
| Chronic ischemic heart disease (I20, I25) | 26.2 | 18.2 | 28.2 | 30.2 | 20.4 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | 1.7 | * | * | * | * |
| Heart failure (I50) | 17.5 | 16.4 | 17.3 | 13.2 | 15.5 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 9.6 | 8.8 | 5.7 | 12.5 | 12.7 |
| Cerebrovascular disease (I60-I69)[2] | 36.9 | 37.1 | 39.7 | 37.2 | 33.4 |
| Atherosclerosis (I70) | 0.7 | * | * | * | * |
| Aortic aneurysm & dissection (I71) | 2.1 | * | * | * | * |
| Influenza & pneumonia (J09-J18) | 8.5 | 7.8 | 6.6 | 11.7 | 8.6 |
| Chronic lower respiratory disease (J40-J47)[2] | 38.4 | 31.6 | 40.2 | 53.8 | 43.6 |
| Emphysema (J43) | 2.6 | 2.7 | * | * | * |
| Other CLRD (J44, J47) | 34.1 | 27.3 | 38.1 | 47.2 | 39.4 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | 8.9 | 8.6 | 9.1 | 12.2 | 9.4 |
| Alcoholic liver disease (K70)[2] | 6.8 | 6.9 | 6.1 | 8.8 | 7.2 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 6.3 | 6.9 | * | 8.0 | 6.8 |
| Symptoms & signs NEC (R00-R99)[2] | 8.0 | 5.7 | * | 6.2 | 15.5 |
| Unintentional injuries (V01-X59, Y85-Y86) | 31.2 | 28.1 | 31.6 | 48.0 | 30.0 |
| Transport accidents (V01-V99, Y85) | 7.4 | 7.3 | * | 16.0 | 10.1 |
| Motor vehicle accidents (many codes)[2] | 7.1 | 7.1 | * | 15.3 | 9.8 |
| Nontransport accidents (W00-X59, Y86) | 23.8 | 20.8 | 25.3 | 32.0 | 19.9 |
| Falls (W00-W19) | 12.5 | 11.8 | 15.6 | 13.3 | 9.0 |
| Poisoning (X40-X49)[2] | 6.9 | 4.5 | * | * | 6.8 |
| Suicide (X60-X84, Y87.0) | 8.8 | 6.2 | 12.9 | * | 14.2 |
| Homicide (X85-Y09, Y87.1) | 1.7 | * | * | * | * |
| *Alcohol-induced (many codes)*[2] | 10.2 | 9.8 | 8.6 | 17.6 | 9.2 |
| *Drug-induced (many codes)*[2] | 11.2 | 7.2 | 10.0 | 17.4 | 14.3 |
| *Injury by firearms (many codes)*[2] | 3.7 | * | * | * | * |

See footnotes at end of table.

**TABLE 6-48f. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon resident females, 2015-2017 — Continued**

| Cause of death | Josephine | Lane | Linn | Marion | Multnomah |
|---|---|---|---|---|---|
| **Total** | 677.2 | 605.8 | 712.6 | 627.0 | 613.2 |
| Infectious & parasitic disease (A00-B99) | 11.3 | 12.0 | 9.3 | 13.4 | 13.1 |
| Septicemia (A40-A41) | * | 4.0 | * | 5.7 | 5.4 |
| Malignant neoplasms (C00-C97) | 150.9 | 129.5 | 147.4 | 142.7 | 139.2 |
| Esophagus (C15) | * | * | * | * | * |
| Colon, rectum & anus (C18-C21) | 11.8 | 11.1 | 12.2 | 9.9 | 9.7 |
| Pancreas (C25) | 10.3 | 9.8 | 7.1 | 10.5 | 9.6 |
| Trachea, bronchus & lung (C33-C34) | 37.4 | 31.8 | 39.8 | 32.3 | 35.7 |
| Breast (C50) | 25.3 | 18.2 | 18.5 | 20.6 | 19.6 |
| Ovary (C56) | * | 7.6 | * | 8.9 | 7.8 |
| Prostate (C61) | – | – | – | – | – |
| Brain, etc. (C70-C72)[2] | * | 2.9 | * | 3.2 | 3.7 |
| Lymphoid & hematopoietic (C81-C96) | 9.4 | 12.1 | 15.4 | 13.3 | 13.1 |
| Non-Hodgkin's lymphoma (C82-C85) | * | 4.7 | * | 4.3 | 4.6 |
| Leukemia (C91-C95) | * | 5.3 | * | 5.1 | 4.3 |
| Diabetes mellitus (E10-E14) | 14.7 | 18.5 | 29.5 | 23.9 | 17.4 |
| Parkinson's disease (G20-G21) | * | 4.7 | 7.7 | 5.3 | 6.5 |
| Alzheimer's disease (G30) | 25.7 | 54.9 | 47.4 | 30.8 | 38.7 |
| Major cardiovascular diseases (I00-I78) | 147.2 | 147.0 | 192.6 | 158.4 | 165.4 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 96.7 | 96.0 | 138.0 | 103.0 | 110.0 |
| Hypertensive heart disease (I11) | * | 3.8 | 7.6 | 4.0 | 5.8 |
| Ischemic heart disease (I20-I25) | 40.0 | 35.5 | 52.9 | 42.1 | 43.1 |
| Myocardial infarction (I21-I22) | 10.9 | 11.9 | 16.4 | 13.4 | 12.2 |
| Chronic ischemic heart disease (I20, I25) | 28.1 | 23.5 | 36.1 | 28.6 | 30.3 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | * | * | * | * | 1.4 |
| Heart failure (I50) | 15.3 | 17.6 | 24.2 | 15.4 | 17.3 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 12.8 | 9.1 | 12.8 | 10.3 | 9.7 |
| Cerebrovascular disease (I60-I69)[2] | 31.7 | 37.4 | 35.9 | 39.2 | 40.7 |
| Atherosclerosis (I70) | * | * | * | * | * |
| Aortic aneurysm & dissection (I71) | * | * | * | * | 2.1 |
| Influenza & pneumonia (J09-J18) | 8.8 | 7.8 | 9.0 | 7.5 | 10.7 |
| Chronic lower respiratory disease (J40-J47)[2] | 49.2 | 38.7 | 43.8 | 35.2 | 36.0 |
| Emphysema (J43) | * | * | * | * | 2.5 |
| Other CLRD (J44, J47) | 43.8 | 34.7 | 38.7 | 30.4 | 31.7 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | * | 8.1 | * | 9.0 | 7.0 |
| Alcoholic liver disease (K70)[2] | * | 6.0 | * | 6.3 | 5.0 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | * | 8.2 | * | 4.7 | 4.7 |
| Symptoms & signs NEC (R00-R99)[2] | 14.9 | 4.9 | * | 11.5 | 7.6 |
| Unintentional injuries (V01-X59, Y85-Y86) | 42.0 | 40.6 | 44.6 | 32.9 | 28.4 |
| Transport accidents (V01-V99, Y85) | 22.6 | 7.6 | 11.9 | 8.0 | 3.7 |
| Motor vehicle accidents (many codes)[2] | 22.6 | 7.2 | 11.9 | 7.3 | 3.4 |
| Nontransport accidents (W00-X59, Y86) | 19.4 | 33.1 | 32.7 | 24.9 | 24.7 |
| Falls (W00-W19) | 10.3 | 18.7 | 22.1 | 14.7 | 11.6 |
| Poisoning (X40-X49)[2] | * | 9.9 | * | 7.2 | 8.5 |
| Suicide (X60-X84, Y87.0) | 17.2 | 9.3 | 12.1 | 8.4 | 6.5 |
| Homicide (X85-Y09, Y87.1) | * | * | * | * | 1.5 |
| *Alcohol-induced (many codes)*[2] | 16.4 | 9.4 | 12.4 | 9.4 | 8.7 |
| *Drug-induced (many codes)*[2] | * | 14.9 | 11.6 | 11.7 | 12.7 |
| *Injury by firearms (many codes)*[2] | * | 3.9 | * | * | 2.3 |

See footnotes at end of table.

**TABLE 6-48f. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon resident females, 2015-2017 — Continued**

| Cause of death | Washington | Yamhill | North coast: Clatsop, Columbia, Lincoln, Tillamook | South coast: Coos, Curry |
|---|---|---|---|---|
| **Total** | 513.7 | 634.9 | 650.1 | 756.2 |
| Infectious & parasitic disease (A00-B99) | 9.7 | 9.5 | 14.7 | 21.5 |
| Septicemia (A40-A41) | 3.8 | * | 5.1 | * |
| Malignant neoplasms (C00-C97) | 117.3 | 137.9 | 157.8 | 172.4 |
| Esophagus (C15) | * | * | * | * |
| Colon, rectum & anus (C18-C21) | 8.4 | 15.2 | 12.4 | 18.6 |
| Pancreas (C25) | 9.3 | 12.1 | 12.6 | 14.3 |
| Trachea, bronchus & lung (C33-C34) | 24.1 | 29.6 | 42.9 | 46.6 |
| Breast (C50) | 18.0 | 16.6 | 19.1 | 24.8 |
| Ovary (C56) | 7.0 | * | 9.2 | 8.5 |
| Prostate (C61) | – | – | – | – |
| Brain, etc. (C70-C72)[2] | 3.9 | * | * | * |
| Lymphoid & hematopoietic (C81-C96) | 10.7 | 15.0 | 12.0 | 9.4 |
| Non-Hodgkin's lymphoma (C82-C85) | 3.5 | * | 4.9 | * |
| Leukemia (C91-C95) | 4.2 | * | 4.8 | * |
| Diabetes mellitus (E10-E14) | 13.6 | 21.4 | 21.1 | 17.0 |
| Parkinson's disease (G20-G21) | 5.2 | * | * | * |
| Alzheimer's disease (G30) | 38.7 | 42.2 | 34.2 | 41.1 |
| Major cardiovascular diseases (I00-I78) | 134.6 | 158.0 | 169.2 | 203.3 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 88.4 | 113.1 | 118.5 | 138.7 |
| Hypertensive heart disease (I11) | 4.8 | 9.4 | 5.7 | * |
| Ischemic heart disease (I20-I25) | 31.1 | 41.9 | 48.4 | 62.0 |
| Myocardial infarction (I21-I22) | 11.4 | 13.5 | 17.9 | 27.5 |
| Chronic ischemic heart disease (I20, I25) | 19.5 | 27.8 | 29.9 | 34.4 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | * | * | * | * |
| Heart failure (I50) | 17.9 | 15.2 | 24.3 | 25.9 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 9.2 | * | 7.7 | 11.1 |
| Cerebrovascular disease (I60-I69)[2] | 32.6 | 34.1 | 38.4 | 42.0 |
| Atherosclerosis (I70) | * | * | * | * |
| Aortic aneurysm & dissection (I71) | * | * | * | * |
| Influenza & pneumonia (J09-J18) | 6.4 | 8.7 | 7.4 | 12.9 |
| Chronic lower respiratory disease (J40-J47)[2] | 23.8 | 43.2 | 46.0 | 55.2 |
| Emphysema (J43) | * | * | 5.1 | * |
| Other CLRD (J44, J47) | 21.1 | 38.7 | 40.0 | 49.8 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | 6.2 | * | 12.2 | 18.4 |
| Alcoholic liver disease (K70)[2] | 4.5 | * | 9.7 | 16.5 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | 6.3 | 11.2 | 5.9 | 7.8 |
| Symptoms & signs NEC (R00-R99)[2] | 6.6 | * | 8.1 | 15.7 |
| Unintentional injuries (V01-X59, Y85-Y86) | 19.3 | 34.7 | 36.5 | 42.4 |
| Transport accidents (V01-V99, Y85) | 4.0 | * | 10.7 | 16.8 |
| Motor vehicle accidents (many codes)[2] | 3.9 | * | 9.7 | 15.7 |
| Nontransport accidents (W00-X59, Y86) | 15.3 | 23.7 | 25.8 | 25.6 |
| Falls (W00-W19) | 7.8 | 13.5 | 12.9 | 9.3 |
| Poisoning (X40-X49)[2] | 4.4 | * | * | * |
| Suicide (X60-X84, Y87.0) | 7.3 | * | 12.5 | 14.2 |
| Homicide (X85-Y09, Y87.1) | * | * | * | – |
| *Alcohol-induced (many codes)*[2] | 7.2 | * | 12.4 | 28.1 |
| *Drug-induced (many codes)*[2] | 8.3 | * | 15.1 | 14.2 |
| *Injury by firearms (many codes)*[2] | 2.5 | * | * | * |

See footnotes at end of table.

**TABLE 6-48f. Age-adjusted death rates[1] for selected causes by county/geographic region, Oregon resident females, 2015-2017 — Continued**

| Cause of death | Mid valley: Benton, Polk | North central: Crook, Gilliam, Hood River, Jefferson, Sherman, Wasco, Wheeler | South central: Klamath, Lake | Eastern Oregon: Baker, Grant, Harney, Malheur, Morrow, Umatilla, Union, Wallowa |
|---|---|---|---|---|
| **Total** | 526.7 | 594.0 | 720.3 | 636.7 |
| Infectious & parasitic disease (A00-B99) | 10.4 | * | 14.8 | 12.3 |
| Septicemia (A40-A41) | * | * | * | 8.1 |
| Malignant neoplasms (C00-C97) | 117.9 | 132.4 | 161.0 | 144.8 |
| Esophagus (C15) | * | * | * | * |
| Colon, rectum & anus (C18-C21) | 10.5 | 14.4 | 16.5 | 15.6 |
| Pancreas (C25) | 9.2 | 11.0 | * | 9.8 |
| Trachea, bronchus & lung (C33-C34) | 27.4 | 34.6 | 35.0 | 28.4 |
| Breast (C50) | 17.6 | 17.7 | 24.0 | 28.9 |
| Ovary (C56) | 10.3 | 8.4 | * | 11.3 |
| Prostate (C61) | – | – | – | – |
| Brain, etc. (C70-C72)[2] | * | * | * | * |
| Lymphoid & hematopoietic (C81-C96) | 7.9 | 8.7 | 14.9 | 8.2 |
| Non-Hodgkin's lymphoma (C82-C85) | * | * | * | * |
| Leukemia (C91-C95) | * | * | * | * |
| Diabetes mellitus (E10-E14) | 17.5 | 18.3 | 23.4 | 20.4 |
| Parkinson's disease (G20-G21) | 5.7 | * | * | * |
| Alzheimer's disease (G30) | 30.1 | 19.3 | 35.2 | 37.0 |
| Major cardiovascular diseases (I00-I78) | 132.3 | 172.8 | 179.2 | 170.0 |
| Heart disease (I00-I09, I11, I13, I20-I51) | 87.4 | 118.7 | 128.5 | 117.9 |
| Hypertensive heart disease (I11) | * | * | * | 5.0 |
| Ischemic heart disease (I20-I25) | 33.4 | 51.2 | 49.1 | 52.4 |
| Myocardial infarction (I21-I22) | 13.3 | 15.7 | 15.6 | 17.1 |
| Chronic ischemic heart disease (I20, I25) | 20.2 | 35.5 | 33.4 | 35.2 |
| Atherosclerotic cardiovascular dis. (I25.0)[2] | * | * | * | 7.4 |
| Heart failure (I50) | 17.6 | 15.1 | 22.2 | 18.4 |
| Hypertension & hyp. renal disease (I10, I12, I15) | 8.7 | 11.3 | * | 8.7 |
| Cerebrovascular disease (I60-I69)[2] | 32.4 | 39.3 | 35.6 | 37.1 |
| Atherosclerosis (I70) | – | * | – | * |
| Aortic aneurysm & dissection (I71) | * | * | * | * |
| Influenza & pneumonia (J09-J18) | 9.4 | * | 10.8 | 7.2 |
| Chronic lower respiratory disease (J40-J47)[2] | 26.9 | 36.6 | 60.7 | 52.2 |
| Emphysema (J43) | * | * | * | * |
| Other CLRD (J44, J47) | 22.9 | 30.8 | 55.5 | 46.3 |
| Chronic liver disease & cirrhosis (K70, K73-K74)[2] | 7.6 | 11.6 | 17.4 | 10.9 |
| Alcoholic liver disease (K70)[2] | * | * | 15.8 | 7.8 |
| Nephritis (N00-N07, N17-N19, N25-N27)[2] | * | * | * | 8.2 |
| Symptoms & signs NEC (R00-R99)[2] | 6.7 | * | 15.6 | 8.6 |
| Unintentional injuries (V01-X59, Y85-Y86) | 32.3 | 35.6 | 37.9 | 31.6 |
| Transport accidents (V01-V99, Y85) | * | 12.8 | * | 7.9 |
| Motor vehicle accidents (many codes)[2] | * | * | * | * |
| Nontransport accidents (W00-X59, Y86) | 25.8 | 22.7 | 25.0 | 23.8 |
| Falls (W00-W19) | 16.7 | 8.7 | * | 11.5 |
| Poisoning (X40-X49)[2] | * | * | * | * |
| Suicide (X60-X84, Y87.0) | * | * | * | 9.5 |
| Homicide (X85-Y09, Y87.1) | * | * | * | * |
| *Alcohol-induced (many codes)*[2] | 7.5 | 16.2 | 17.8 | 10.8 |
| *Drug-induced (many codes)*[2] | 8.2 | * | * | 8.0 |
| *Injury by firearms (many codes)*[2] | * | * | * | * |

– Quantity is zero.
1 Age-adjusted rates are per 100,000 population based on the US year 2000 standard; calculations use age and sex population estimates from the Population Research Center, Portland State University.
2 See footnote for this cause in Table 6-6.
* Age-adjusted rates are not calculated when fewer than 20 deaths were recorded, as the rate would be unreliable.

**TABLE 6-49. Selected causes of death for the residents of Oregon's largest cities, 2017**

| City of residence | Population | Total deaths | Selected causes of death | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cancer | Heart dis. | CLRD | Unint. injury | CeVD | Alz-hei-mer's | Dia-betes | Alcohol | Suicide | Flu & pneu. |
| State total ..... | 4,141,100 | 36,640 | 8,084 | 6,945 | 2,088 | 2,073 | 2,066 | 1,850 | 1,243 | 878 | 825 | 573 |
| Albany ..... | 52,710 | 616 | 137 | 119 | 36 | 38 | 31 | 41 | 26 | 11 | 9 | 5 |
| Ashland ..... | 20,700 | 226 | 59 | 34 | 9 | 7 | 12 | 19 | 2 | 5 | 5 | 2 |
| Baker City ..... | 9,800 | 160 | 28 | 38 | 14 | 13 | 8 | 11 | 7 | 7 | 6 | – |
| Beaverton ..... | 95,685 | 917 | 214 | 173 | 31 | 36 | 52 | 51 | 27 | 29 | 16 | 15 |
| Bend ..... | 86,765 | 908 | 193 | 190 | 41 | 61 | 46 | 59 | 17 | 18 | 42 | 10 |
| Canby ..... | 16,660 | 201 | 43 | 46 | 13 | 9 | 11 | 3 | 11 | 2 | 2 | 1 |
| Central Point ... | 17,700 | 291 | 61 | 54 | 19 | 10 | 17 | 15 | 8 | 7 | 8 | 3 |
| Coos Bay ..... | 16,615 | 412 | 86 | 73 | 27 | 22 | 24 | 28 | 21 | 15 | 9 | 4 |
| Cornelius ..... | 11,915 | 76 | 22 | 12 | 4 | 5 | 4 | 2 | 2 | 1 | – | 1 |
| Corvallis ..... | 58,735 | 425 | 88 | 86 | 17 | 27 | 33 | 28 | 12 | 2 | 10 | 7 |
| Cottage Grove | 9,920 | 223 | 52 | 47 | 15 | 16 | 19 | 8 | 7 | 4 | 6 | 1 |
| Dallas ..... | 15,570 | 269 | 55 | 52 | 15 | 21 | 13 | 11 | 7 | 7 | 2 | 2 |
| Eugene ..... | 167,780 | 1,858 | 395 | 339 | 114 | 132 | 85 | 157 | 56 | 36 | 42 | 35 |
| Forest Grove .. | 23,555 | 244 | 55 | 37 | 12 | 5 | 17 | 21 | 10 | 3 | 3 | 2 |
| Gladstone ..... | 11,840 | 131 | 27 | 31 | 5 | 8 | 9 | 1 | 4 | 2 | 3 | 2 |
| Grants Pass .... | 37,135 | 990 | 192 | 185 | 61 | 50 | 55 | 40 | 30 | 23 | 21 | 19 |
| Gresham ..... | 109,820 | 721 | 159 | 126 | 49 | 42 | 49 | 36 | 30 | 23 | 8 | 19 |
| Happy Valley .. | 19,985 | 194 | 44 | 49 | 7 | 11 | 8 | 12 | 3 | 4 | 8 | 4 |
| Hermiston ..... | 17,985 | 196 | 39 | 38 | 18 | 7 | 9 | 15 | 11 | 6 | 6 | 3 |
| Hillsboro ..... | 101,540 | 590 | 137 | 104 | 28 | 32 | 35 | 32 | 17 | 13 | 14 | 4 |
| Keizer ..... | 38,345 | 374 | 81 | 62 | 27 | 24 | 22 | 17 | 18 | 4 | 4 | 6 |
| Klamath Falls .. | 21,770 | 639 | 133 | 111 | 59 | 33 | 30 | 18 | 24 | 20 | 18 | 18 |
| La Grande ..... | 13,245 | 165 | 36 | 27 | 13 | 7 | 11 | 16 | 7 | 2 | 2 | 2 |
| Lake Oswego | 37,490 | 334 | 79 | 60 | 15 | 20 | 23 | 21 | 6 | 5 | 2 | 9 |
| Lebanon ..... | 16,720 | 366 | 85 | 84 | 22 | 19 | 19 | 13 | 14 | 11 | 12 | 8 |
| McMinnville ..... | 33,665 | 464 | 74 | 105 | 32 | 17 | 23 | 37 | 19 | 8 | 9 | 5 |
| Medford ..... | 79,590 | 1,161 | 220 | 204 | 75 | 43 | 56 | 81 | 31 | 25 | 22 | 25 |
| Milwaukie ..... | 20,550 | 639 | 136 | 123 | 24 | 26 | 39 | 31 | 26 | 22 | 12 | 10 |
| Newberg ..... | 23,480 | 271 | 49 | 52 | 12 | 12 | 20 | 18 | 13 | 1 | 2 | 1 |
| Newport ..... | 10,215 | 146 | 28 | 35 | 7 | 8 | 6 | 3 | 5 | 8 | 7 | 1 |
| Ontario ..... | 11,465 | 193 | 43 | 45 | 10 | 8 | 12 | 12 | 8 | 5 | 3 | 2 |
| Oregon City .... | 34,610 | 506 | 130 | 77 | 32 | 31 | 25 | 22 | 23 | 9 | 12 | 13 |
| Pendleton ..... | 16,890 | 193 | 39 | 31 | 15 | 10 | 8 | 3 | 6 | 13 | 7 | 3 |
| Portland ..... | 639,100 | 5,495 | 1,164 | 994 | 244 | 365 | 329 | 257 | 172 | 134 | 136 | 86 |
| Prineville ..... | 9,880 | 254 | 60 | 67 | 14 | 12 | 31 | 7 | 5 | 5 | 5 | 5 |
| Redmond ..... | 28,265 | 356 | 91 | 58 | 21 | 23 | 20 | 12 | 17 | 7 | 8 | 7 |
| Roseburg ..... | 24,015 | 723 | 138 | 140 | 49 | 43 | 40 | 39 | 30 | 13 | 13 | 11 |
| Salem ..... | 163,480 | 1,876 | 412 | 339 | 88 | 110 | 103 | 72 | 61 | 42 | 41 | 35 |
| Sandy ..... | 10,855 | 137 | 26 | 25 | 7 | 8 | 7 | 6 | 4 | 3 | 2 | 1 |
| Sherwood ..... | 19,350 | 136 | 24 | 25 | 3 | 7 | 7 | 11 | 9 | 1 | 5 | 1 |
| Silverton ..... | 10,070 | 102 | 27 | 12 | 2 | 5 | 6 | 2 | 9 | 2 | 7 | 1 |
| Springfield ..... | 60,655 | 803 | 164 | 133 | 60 | 36 | 43 | 75 | 35 | 26 | 17 | 17 |
| St. Helens ..... | 13,240 | 153 | 36 | 32 | 10 | 10 | 10 | 3 | 6 | 3 | 5 | 3 |
| The Dalles ..... | 14,625 | 288 | 55 | 60 | 19 | 13 | 13 | 6 | 8 | 6 | 2 | 6 |
| Tigard ..... | 50,985 | 465 | 117 | 99 | 18 | 17 | 23 | 21 | 20 | 9 | 13 | 7 |
| Troutdale ..... | 16,070 | 93 | 19 | 19 | 2 | 6 | 4 | 6 | 2 | 2 | 2 | 4 |
| Tualatin ..... | 26,960 | 183 | 35 | 30 | 8 | 9 | 15 | 12 | 4 | 2 | 2 | 2 |
| West Linn ..... | 25,695 | 186 | 34 | 27 | 8 | 10 | 14 | 18 | 6 | 4 | 4 | 4 |
| Wilsonville ..... | 24,315 | 182 | 44 | 30 | 6 | 8 | 17 | 16 | 5 | 2 | – | 3 |
| Woodburn ..... | 24,685 | 246 | 71 | 49 | 6 | 16 | 19 | 16 | 5 | 2 | 2 | 2 |

– Quantity is zero.
Abbreviations: CLRD = Chronic lower respiratory disease; CeVD = Cerebrovascular disease;

**TABLE 6-50. Oregon deaths resulting from injuries occurring while at work by sex, age, manner, place, weekday, and time, 2017**

| Manner/type, place, weekday, and time of injury | Total | Sex | | Age at death | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | M | F | < 25 | 25-34 | 35-44 | 45-54 | 55-64 | 65+ |
| **Total**[1] | 56 | 54 | 2 | 1 | 9 | 12 | 11 | 14 | 9 |
| Oregon residents | 50 | 48 | 2 | 1 | 9 | 9 | 10 | 13 | 8 |
| Non-Oregon residents | 6 | 6 | – | – | – | 3 | 1 | 1 | 1 |
| **Type of injury** | | | | | | | | | |
| Accident | 48 | 46 | 2 | 1 | 9 | 9 | 10 | 12 | 7 |
| Motor vehicle | 21 | 20 | 1 | 1 | 4 | 6 | 3 | 6 | 1 |
| Watercraft & drowning | – | – | – | – | – | – | – | – | – |
| Aircraft | – | – | – | – | – | – | – | – | – |
| Falls | 3 | 3 | – | – | – | 1 | – | – | 2 |
| Struck by projected/falling object | 2 | 2 | – | – | 1 | – | – | – | 1 |
| Smoke & fire | – | – | – | – | – | – | – | – | – |
| Machinery | 4 | 4 | – | – | – | – | 2 | 2 | – |
| Suicide | 5 | 5 | – | – | – | 2 | 1 | 1 | 1 |
| Homicide | 2 | 2 | – | – | – | 1 | – | 1 | – |
| Firearms | 1 | 1 | – | – | – | 1 | – | – | – |
| Undetermined intent | – | – | – | – | – | – | – | – | – |
| Other injury | 1 | 1 | – | – | – | – | – | – | 1 |
| **Place of injury** | | | | | | | | | |
| Home | 5 | 5 | – | – | – | 1 | – | – | 4 |
| Farm | 9 | 8 | 1 | – | 1 | 2 | 2 | 4 | – |
| Residential or other institution | – | – | – | – | – | – | – | – | – |
| Industrial or construction area | 2 | 2 | – | – | 1 | – | – | 1 | – |
| Warehouse, trade or service area | 2 | 2 | – | – | – | – | 1 | 1 | – |
| Street or highway | 18 | 17 | 1 | 1 | 2 | 5 | 3 | 6 | 1 |
| Sport or recreation area | – | – | – | – | – | – | – | – | – |
| Other or unspecified place | 20 | 20 | – | – | 5 | 4 | 5 | 2 | 4 |
| **Weekday of injury** | | | | | | | | | |
| Sunday | 2 | 2 | – | – | – | 1 | – | – | 1 |
| Monday | 5 | 4 | 1 | – | – | 2 | 1 | 1 | 1 |
| Tuesday | 18 | 18 | – | 1 | 3 | 1 | 4 | 5 | 4 |
| Wednesday | 10 | 9 | 1 | – | 1 | 3 | 5 | 1 | – |
| Thursday | 8 | 8 | – | – | 1 | 1 | 1 | 3 | 2 |
| Friday | 6 | 6 | – | – | 3 | 1 | – | 1 | 1 |
| Saturday | 7 | 7 | – | – | 1 | 3 | – | 3 | – |
| Not stated | – | – | – | – | – | – | – | – | – |
| **Time of injury** | | | | | | | | | |
| 12:00-3:59 AM | 2 | 2 | – | – | – | – | – | 2 | – |
| 4:00-7:59 AM | 5 | 5 | – | – | – | 2 | – | 2 | 1 |
| 8:00-11:59 AM | 15 | 15 | – | 1 | 2 | 5 | 4 | 1 | 2 |
| 12:00-3:59 PM | 11 | 11 | – | – | 1 | 2 | 3 | 3 | 2 |
| 4:00-7:59 PM | 4 | 3 | 1 | – | 2 | – | – | 1 | 1 |
| 8:00-11:59 PM | 3 | 3 | – | – | 1 | 1 | 1 | – | – |
| Not stated | 16 | 15 | 1 | – | 3 | 2 | 3 | 5 | 3 |

– Quantity is zero.
[1] Residents of other states who were injured in Oregon but died outside of Oregon are not included.

**TABLE 6-51. Causes mentioned on the death certificate but were not the underlying cause of death, by county of residence, Oregon residents, 2017**

| County of residence | Heart dis. | Dia-betes | CLRD | Organic demen-tia | CeVD | Cancer | Flu & pneu-monia | Alcohol induc. | Unint. injury | Alz-heim-er's |
|---|---|---|---|---|---|---|---|---|---|---|
| Total ..... | 7,439 | 3,300 | 2,662 | 2,085 | 1,847 | 1,114 | 1,076 | 708 | 648 | 488 |
| Baker ..... | 24 | 14 | 17 | 9 | 4 | 6 | 3 | 1 | 2 | 1 |
| Benton ..... | 128 | 47 | 30 | 30 | 29 | 19 | 18 | 8 | 11 | 11 |
| Clackamas ... | 735 | 298 | 231 | 241 | 193 | 97 | 91 | 71 | 65 | 45 |
| Clatsop ..... | 84 | 39 | 32 | 16 | 18 | 8 | 10 | 4 | 5 | 3 |
| Columbia ..... | 66 | 34 | 26 | 13 | 16 | 4 | 10 | 13 | 4 | 4 |
| Coos ..... | 177 | 86 | 84 | 40 | 38 | 30 | 39 | 23 | 16 | 14 |
| Crook ..... | 42 | 13 | 33 | 9 | 19 | 8 | 8 | 4 | 7 | 1 |
| Curry ..... | 76 | 30 | 24 | 16 | 15 | 11 | 12 | 6 | 4 | 2 |
| Deschutes .... | 295 | 118 | 109 | 84 | 70 | 55 | 44 | 43 | 29 | 20 |
| Douglas ..... | 351 | 189 | 153 | 73 | 69 | 57 | 57 | 29 | 22 | 21 |
| Gilliam ..... | 3 | – | 2 | 3 | – | – | – | – | – | 1 |
| Grant ..... | 23 | 14 | 10 | 8 | 3 | 5 | 5 | 2 | 5 | – |
| Harney ..... | 7 | 1 | 4 | 5 | 2 | 3 | 1 | 1 | 1 | – |
| Hood River ... | 30 | 16 | 11 | 13 | 15 | 6 | 4 | 6 | 10 | 4 |
| Jackson ..... | 500 | 215 | 155 | 131 | 102 | 66 | 85 | 39 | 42 | 20 |
| Jefferson ..... | 45 | 13 | 16 | 8 | 13 | 3 | 7 | 3 | 6 | 3 |
| Josephine .... | 257 | 107 | 105 | 64 | 54 | 35 | 41 | 23 | 35 | 10 |
| Klamath ..... | 183 | 80 | 68 | 40 | 43 | 25 | 18 | 17 | 17 | 4 |
| Lake ..... | 19 | 7 | 10 | 1 | 2 | 2 | 1 | 1 | – | – |
| Lane ..... | 864 | 396 | 366 | 227 | 211 | 166 | 85 | 84 | 57 | 72 |
| Lincoln ..... | 91 | 28 | 36 | 28 | 25 | 11 | 22 | 17 | 9 | 6 |
| Linn ..... | 291 | 168 | 132 | 81 | 74 | 43 | 35 | 34 | 19 | 20 |
| Malheur ..... | 42 | 31 | 25 | 19 | 17 | – | 8 | 3 | 3 | 7 |
| Marion ..... | 544 | 257 | 183 | 164 | 140 | 77 | 112 | 34 | 26 | 22 |
| Morrow ..... | 13 | 8 | 4 | 5 | 2 | 2 | – | 2 | 2 | 3 |
| Multnomah ... | 1,162 | 485 | 369 | 358 | 315 | 155 | 166 | 132 | 113 | 108 |
| Polk ..... | 148 | 57 | 42 | 45 | 30 | 22 | 27 | 10 | 18 | 8 |
| Sherman ..... | 3 | 5 | 1 | 2 | 2 | – | 1 | – | – | – |
| Tillamook ..... | 55 | 20 | 27 | 6 | 21 | 6 | 7 | 9 | 5 | 1 |
| Umatilla ..... | 189 | 78 | 62 | 33 | 41 | 29 | 21 | 14 | 14 | 13 |
| Union ..... | 32 | 19 | 11 | 7 | 4 | 5 | 7 | 7 | 6 | 1 |
| Wallowa ..... | 17 | 14 | 7 | 7 | 6 | 5 | 6 | 1 | 2 | – |
| Wasco ..... | 59 | 36 | 25 | 15 | 8 | 15 | 7 | 6 | 15 | 3 |
| Washington .. | 652 | 262 | 179 | 211 | 180 | 89 | 83 | 48 | 62 | 44 |
| Wheeler ..... | 5 | 1 | – | – | 2 | – | – | – | – | – |
| Yamhill ..... | 227 | 114 | 73 | 73 | 64 | 49 | 35 | 13 | 16 | 16 |

– Quantity is zero.

Notes: Causes mentioned are not counted more than once per certificate.

Abbreviations: Heart dis. = Heart disease; CLRD = Chronic lower respiratory disease; CeVD = Cerebrovascular disease; Unint. injury = Unintentional injury; Alcohol induc. = Alcohol induced.

**TABLE 6-52. Causes mentioned on the death certificate but were not the underlying cause of death, by sex and age, Oregon residents, 2017**

| Sex and age | Heart dis. | Dia-betes | CLRD | Organic demen-tia | CeVD | Cancer | Flu & pneu-monia | Alcohol induc. | Unint. injury | Alz-heim-er's |
|---|---|---|---|---|---|---|---|---|---|---|
| Both sexes* | | | | | | | | | | |
| Total ..... | 7,439 | 3,300 | 2,662 | 2,085 | 1,847 | 1,114 | 1,076 | 708 | 648 | 488 |
| <1 ..... | 13 | – | – | – | 1 | 1 | 2 | – | – | – |
| 1-4 ..... | 7 | – | – | – | – | 1 | – | – | – | – |
| 5-14 ..... | 10 | – | 2 | – | 1 | 2 | 4 | – | 2 | – |
| 15-24 ..... | 9 | 3 | 3 | – | 2 | – | 2 | 22 | 3 | – |
| 25-34 ..... | 47 | 6 | 4 | – | 6 | 1 | 6 | 42 | 7 | – |
| 35-44 ..... | 73 | 33 | 10 | 1 | 7 | 3 | 15 | 50 | 6 | – |
| 45-54 ..... | 245 | 126 | 78 | 4 | 40 | 23 | 33 | 112 | 15 | – |
| 55-64 ..... | 695 | 420 | 337 | 39 | 118 | 117 | 100 | 235 | 57 | 4 |
| 65-74 ..... | 1,415 | 744 | 699 | 159 | 273 | 216 | 212 | 158 | 106 | 31 |
| 75-84 ..... | 1,958 | 968 | 788 | 582 | 506 | 337 | 293 | 66 | 159 | 118 |
| 85+ ..... | 2,967 | 1,000 | 741 | 1,300 | 893 | 413 | 409 | 23 | 293 | 335 |
| Male | | | | | | | | | | |
| Total ..... | 3,816 | 1,851 | 1,424 | 889 | 831 | 612 | 566 | 520 | 326 | 183 |
| <1 ..... | 6 | – | – | – | – | – | 1 | – | – | – |
| 1-4 ..... | 4 | – | – | – | – | – | – | – | – | – |
| 5-14 ..... | 4 | – | 2 | – | – | – | 3 | – | – | – |
| 15-24 ..... | 5 | 1 | 2 | – | 1 | – | – | 19 | 2 | – |
| 25-34 ..... | 27 | 4 | 2 | – | 4 | – | 3 | 31 | 4 | – |
| 35-44 ..... | 33 | 21 | 4 | 1 | 3 | 1 | 7 | 35 | 2 | – |
| 45-54 ..... | 146 | 78 | 41 | 1 | 18 | 8 | 15 | 76 | 10 | – |
| 55-64 ..... | 431 | 268 | 194 | 22 | 70 | 76 | 56 | 169 | 39 | 1 |
| 65-74 ..... | 853 | 470 | 417 | 95 | 155 | 131 | 121 | 122 | 65 | 12 |
| 75-84 ..... | 1,080 | 569 | 415 | 284 | 267 | 193 | 168 | 49 | 89 | 57 |
| 85+ ..... | 1,227 | 440 | 347 | 486 | 313 | 203 | 192 | 19 | 115 | 113 |
| Female | | | | | | | | | | |
| Total ..... | 3,623 | 1,449 | 1,237 | 1,196 | 1,016 | 502 | 510 | 188 | 322 | 305 |
| <1 ..... | 7 | – | – | – | 1 | 1 | 1 | – | – | – |
| 1-4 ..... | 3 | – | – | – | – | 1 | – | – | – | – |
| 5-14 ..... | 6 | – | – | – | 1 | 2 | 1 | – | 2 | – |
| 15-24 ..... | 4 | 2 | 1 | – | 1 | – | 2 | 3 | 1 | – |
| 25-34 ..... | 20 | 2 | 2 | – | 2 | 1 | 3 | 11 | 3 | – |
| 35-44 ..... | 40 | 12 | 6 | – | 4 | 2 | 8 | 15 | 4 | – |
| 45-54 ..... | 99 | 48 | 37 | 3 | 22 | 15 | 18 | 36 | 5 | – |
| 55-64 ..... | 264 | 152 | 142 | 17 | 48 | 41 | 44 | 66 | 18 | 3 |
| 65-74 ..... | 562 | 274 | 282 | 64 | 118 | 85 | 91 | 36 | 41 | 19 |
| 75-84 ..... | 878 | 399 | 373 | 298 | 239 | 144 | 125 | 17 | 70 | 61 |
| 85+ ..... | 1,740 | 560 | 394 | 814 | 580 | 210 | 217 | 4 | 178 | 222 |

– Quantity is zero.
* Includes unknown sex.
Note: Causes mentioned are not counted more than once per certificate.
Abbreviations: Heart dis. = Heart disease; CLRD = Chronic lower respiratory disease; CeVD = Cerebrovascular disease; Unint. injury = Unintentional injury; Alcohol induc. = Alcohol induced.

**TABLE 6-53. Place of death by sex, age, and selected causes of death, Oregon residents, 2017**

| Characteristics | Total | Hospital | | Nursing home | Resid. inst.[1] | Hospice facility | Home[2] | Other |
|---|---|---|---|---|---|---|---|---|
| | | In-patient | ER/ DOA | | | | | |
| Total* | 36,640 | 8,824 | 1,546 | 3,494 | 5,645 | 1,095 | 14,285 | 1,751 |
| ***Sex*** | | | | | | | | |
| Male | 18,689 | 4,683 | 917 | 1,672 | 1,964 | 559 | 7,723 | 1,171 |
| Female | 17,949 | 4,140 | 629 | 1,822 | 3,681 | 536 | 6,561 | 580 |
| ***Age at death*** | | | | | | | | |
| <1 | 236 | 176 | 35 | – | – | – | 21 | 4 |
| 1-4 | 50 | 18 | 13 | – | – | – | 14 | 5 |
| 5-14 | 75 | 18 | 9 | – | – | – | 30 | 18 |
| 15-24 | 341 | 48 | 24 | 3 | 3 | 3 | 111 | 149 |
| 25-34 | 552 | 111 | 38 | 6 | 3 | 6 | 203 | 185 |
| 35-44 | 861 | 246 | 71 | 16 | 7 | 20 | 325 | 176 |
| 45-54 | 1,808 | 498 | 154 | 59 | 29 | 57 | 784 | 227 |
| 55-64 | 4,610 | 1,326 | 274 | 312 | 150 | 118 | 2,112 | 318 |
| 65-74 | 7,173 | 2,033 | 360 | 651 | 429 | 260 | 3,194 | 246 |
| 75-84 | 8,685 | 2,208 | 324 | 938 | 1,267 | 301 | 3,430 | 217 |
| 85+ | 12,249 | 2,142 | 244 | 1,509 | 3,757 | 330 | 4,061 | 206 |
| ***Selected causes of death*** | | | | | | | | |
| Viral hepatitis | 139 | 56 | 4 | 11 | 7 | 4 | 53 | 4 |
| Cancer | 8,084 | 1,426 | 101 | 702 | 636 | 452 | 4,548 | 219 |
| Diabetes mellitus | 1,243 | 163 | 95 | 148 | 143 | 25 | 626 | 43 |
| Alzheimer's disease | 1,850 | 73 | 10 | 224 | 1,001 | 34 | 474 | 34 |
| Heart disease | 6,945 | 1,660 | 567 | 669 | 980 | 139 | 2,679 | 251 |
| Myocardial infarction | 1,088 | 435 | 178 | 51 | 86 | 10 | 296 | 32 |
| Cerebrovascular disease | 2,066 | 719 | 70 | 301 | 411 | 72 | 461 | 32 |
| CLRD[3] | 2,088 | 510 | 80 | 229 | 263 | 51 | 899 | 56 |
| Asthma | 65 | 12 | 6 | 3 | 11 | 1 | 29 | 3 |
| Influenza & pneumonia | 573 | 393 | 17 | 53 | 40 | 10 | 58 | 2 |
| SIDS | 21 | – | 11 | – | – | – | 9 | 1 |
| Unintentional injuries | 2,073 | 575 | 154 | 97 | 134 | 67 | 484 | 562 |
| Motor vehicle | 507 | 95 | 68 | 4 | 4 | 1 | 10 | 325 |
| Water transport | 6 | 1 | 1 | – | – | – | – | 4 |
| Falls | 764 | 332 | 30 | 77 | 108 | 61 | 128 | 28 |
| Drowning | 49 | 3 | 4 | – | – | – | 5 | 37 |
| Suffocation | 95 | 41 | 12 | 2 | 6 | 2 | 26 | 6 |
| Fire, flames & smoke | 36 | 9 | 2 | – | – | – | 23 | 2 |
| Poisoning | 450 | 45 | 22 | 1 | 4 | 2 | 253 | 123 |
| Suicide | 825 | 46 | 42 | 1 | 3 | 1 | 511 | 221 |
| Homicide | 128 | 13 | 17 | – | 1 | – | 47 | 50 |
| *Alcohol-induced*[4] | 878 | 253 | 30 | 46 | 37 | 28 | 428 | 56 |
| *Gunshot (any manner)* | 529 | 16 | 32 | – | – | – | 325 | 156 |

– Quantity is zero.
* Includes unknown sex.
1 Residential institution includes adult foster care, residential care facilities, and assisted living.
2 Decedent's own home or apartment (includes home hospice).
3 CLRD = Chronic lower respiratory disease.
4 See Table 6-6, footnotes 39-40, for list of included conditions and their ICD codes.

**TABLE 6-54. Crude death rates[1] for selected leading causes of mortality, United States, 2002-2016[2]**

| Year | Total | Heart disease | Cancer | Unintentional injuries | CLRD | Cerebro-vascular disease | Alzheimer's disease | Diabetes | Pneumonia & influenza |
|---|---|---|---|---|---|---|---|---|---|
| 2002 ..... | 847.3 | 241.7 | 193.2 | 37.0 | 43.3 | 56.4 | 20.4 | 25.4 | 22.8 |
| 2003 ..... | 841.9 | 235.6 | 191.5 | 37.6 | 43.5 | 54.2 | 21.8 | 25.5 | 22.4 |
| 2004 ..... | 816.5 | 222.2 | 188.6 | 38.1 | 41.5 | 51.1 | 22.5 | 24.9 | 20.3 |
| 2005 ..... | 825.9 | 220.0 | 188.7 | 39.7 | 44.2 | 48.4 | 24.2 | 25.3 | 21.3 |
| 2006 ..... | 810.4 | 211.0 | 187.0 | 40.6 | 41.6 | 45.8 | 24.2 | 24.2 | 18.8 |
| 2007 ..... | 803.6 | 204.3 | 186.6 | 41.0 | 42.4 | 45.1 | 24.7 | 23.7 | 17.5 |
| 2008 ..... | 813.0 | 202.9 | 186.0 | 40.1 | 46.4 | 44.1 | 27.1 | 23.2 | 18.5 |
| 2009 ..... | 793.8 | 195.2 | 184.9 | 38.4 | 44.7 | 42.0 | 25.7 | 22.4 | 17.5 |
| 2010 ..... | 799.5 | 193.6 | 186.2 | 39.1 | 44.7 | 41.9 | 27.0 | 22.4 | 16.2 |
| 2011 ..... | 807.3 | 191.5 | 185.1 | 40.6 | 45.9 | 41.4 | 27.3 | 23.7 | 17.3 |
| 2012 ..... | 810.2 | 191.0 | 185.6 | 40.7 | 45.7 | 40.9 | 26.6 | 23.6 | 16.1 |
| 2013 ..... | 821.5 | 193.3 | 185.0 | 41.3 | 47.2 | 40.8 | 26.8 | 23.9 | 18.0 |
| 2014 ..... | 823.7 | 192.7 | 185.6 | 42.7 | 46.1 | 41.7 | 29.3 | 24.0 | 17.3 |
| 2015 ..... | 844.0 | 197.2 | 185.4 | 45.6 | 48.2 | 43.7 | 34.4 | 24.7 | 17.8 |
| 2016 ..... | 849.3 | 196.6 | 185.1 | 49.9 | 47.8 | 44.0 | 35.9 | 24.8 | 15.9 |

| Year | Suicide | Alcohol[3] | Hypertension | Parkinson's disease | Homicide | Congenital anomalies | ALS | Viral hepatitis | Arterio-sclerosis[4] |
|---|---|---|---|---|---|---|---|---|---|
| 2002 ..... | 11.0 | 7.0 | 7.0 | 5.9 | 6.1 | 3.7 | 2.0 | 2.0 | 4.8 |
| 2003 ..... | 10.8 | 7.1 | 7.5 | 6.2 | 6.1 | 3.6 | 2.0 | 1.9 | 4.5 |
| 2004 ..... | 11.0 | 7.2 | 7.9 | 6.1 | 5.9 | 3.6 | 1.9 | 1.8 | 4.0 |
| 2005 ..... | 11.0 | 7.3 | 8.4 | 6.6 | 6.1 | 3.5 | 2.0 | 1.9 | 4.0 |
| 2006 ..... | 11.1 | 7.4 | 8.0 | 6.5 | 6.2 | 3.5 | 2.0 | 2.4 | 2.9 |
| 2007 ..... | 11.5 | 7.7 | 7.9 | 6.7 | 6.1 | 3.5 | 2.0 | 2.5 | 2.7 |
| 2008 ..... | 11.9 | 8.0 | 8.5 | 6.7 | 5.9 | 3.4 | 2.0 | 2.5 | 2.6 |
| 2009 ..... | 12.0 | 8.0 | 8.4 | 6.7 | 5.5 | 3.2 | 2.1 | 2.5 | 2.4 |
| 2010 ..... | 12.4 | 8.3 | 8.6 | 7.1 | 5.3 | 3.1 | 2.2 | 2.4 | 2.3 |
| 2011 ..... | 12.7 | 8.6 | 8.9 | 7.4 | 5.2 | 3.1 | 2.2 | 2.5 | 2.2 |
| 2012 ..... | 12.9 | 8.8 | 9.3 | 7.6 | 5.3 | 3.1 | 2.3 | 2.6 | 2.2 |
| 2013 ..... | 13.0 | 9.2 | 9.7 | 8.0 | 5.1 | 3.0 | 2.2 | 2.6 | 2.1 |
| 2014 ..... | 13.4 | 9.6 | 9.5 | 8.2 | 5.0 | 3.0 | 2.3 | 2.5 | 2.0 |
| 2015 ..... | 13.7 | 10.3 | 10.0 | 8.7 | 5.5 | 3.1 | 2.3 | 2.3 | 1.9 |
| 2016 ..... | 13.9 | 10.8 | 10.3 | 9.2 | 6.0 | 3.1 | 2.1 | 2.0 | 1.8 |

[1] All rates per 100,000 population.
[2] Most recent year for which final data are available.
[3] See footnote for this cause in Table 6-6.
[4] Beginning in 2006, the National Center for Health Statistics changed the ICD-10 codes for arteriosclerosis to include only ICD-10 code I70.

**TABLE 6-55. Age-adjusted death rates for residents of Oregon and the United States for leading causes of death, 2016[1]**

| Cause | Age-adjusted rate[2] | | Percent difference | State rank[3] | ICD-10 codes[4] |
|---|---|---|---|---|---|
| | U.S. | Oregon | | | |
| All causes | 728.8 | 705.9 | -3.1 | 38 | A00-Y89.9 |
| Malignant neoplasms | 155.8 | 155.9 | 0.1 | 32 | C00-C97 |
| Heart disease | 165.5 | 135.0 | -18.4 | 47 | I00-I09, I11, I13, I20-I51 |
| Unintended injuries | 47.4 | 46.0 | -3.0 | 34 | V01-X59, Y85-Y86 |
| Chronic lower respiratory disease | 40.6 | 40.4 | -0.5 | 30 | J40-J47 |
| Cerebrovascular disease | 37.3 | 37.8 | 1.3 | 25 | I60-I69 |
| Alzheimer's disease | 30.3 | 34.8 | 14.9 | 20 | G30 |
| Diabetes mellitus | 21.0 | 24.0 | 14.3 | 11 | E10-E14 |
| Suicide | 13.5 | 17.8 | 31.9 | 16 | X60-X84, Y87.0 |
| Alcohol-induced deaths | 9.5 | 16.9 | 77.9 | 5 | E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K86.0, R78.0, X45, X65, Y15 |
| Hypertension | 8.6 | 10.6 | 23.3 | 8 | I10, I12, I15 |
| Parkinson's disease | 8.0 | 9.1 | 13.8 | 7 | G20-G21 |
| Influenza & pneumonia | 13.5 | 8.9 | -34.1 | 49 | J09-J18 |
| Nephritis & nephrosis | 13.1 | 7.7 | -41.2 | 47 | N00-N07, N17-N19, N25-N27 |
| Septicemia | 10.7 | 5.2 | -51.4 | 49 | A40-A41 |
| Congenital anomalies | 3.2 | 3.3 | 3.1 | 30 | Q00-Q99 |
| Homicide | 6.2 | 3.3 | -46.8 | 37 | X85-Y09, Y87.1 |
| Perinatal conditions | 4.0 | 3.0 | -25.0 | 44 | P00-P96 |
| Viral hepatitis | 1.6 | 2.9 | 81.3 | 4 | B15-B19 |
| Aortic aneurysm & dissection | 2.6 | 2.5 | -3.8 | 34 | I71 |
| Amyotrophic lateral sclerosis | 1.7 | 2.1 | 23.5 | 14 | G12.2 |
| Arteriosclerosis | 1.5 | 0.9 | -40.0 | 32 | I70 |
| HIV/AIDS | 1.8 | 0.8 | -55.6 | 29 | B20-B24 |

[1] Most recent year for which final data are available.
[2] Rates are adjusted to the U.S. standard million population and are per 100,000. Age-adjusted death rates allow the comparison of Oregon and the U.S. as if the population structure of each were identical (Oregon's population is older than the U.S. as a whole). All rates in this table were calculated using the federal Centers for Disease Control and Prevention WONDER (Wide-ranging Online Data for Epidemiological Research) system (http://wonder.cdc.gov). These rates may vary slightly from rates 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.
[3] Ranked from high (1) to low (51) among the 50 states and the District of Columbia. Rankings for some causes of death are not out of a total of 51 because states with unreliable data have been excluded.
[4] From the World Health Organization's International Classification of Disease, 10th Edition.

**TABLE 6-56. Highest and lowest age-adjusted death rates[1] by state, 2016[2]**

| Cause | Lowest | | Highest | |
|---|---|---|---|---|
| | State | Rate | State | Rate |
| All causes | Hawaii | 572.0 | Mississippi | 948.9 |
| Heart disease | Minnesota | 114.9 | Mississippi | 233.1 |
| Malignant neoplasms | Utah | 122.4 | Kentucky | 193.8 |
| Unintended injuries | California | 32.0 | West Virginia | 89.7 |
| Chronic lower respiratory disease | Hawaii | 17.7 | Kentucky | 66.3 |
| Cerebrovascular disease | New York | 25.5 | Alabama | 51.6 |
| Alzheimer's disease | New York | 13.1 | Mississippi | 45.8 |
| Diabetes mellitus | Massachusetts | 14.9 | West Virginia | 34.8 |
| Influenza & pneumonia | Vermont | 7.0 | Hawaii | 24.4 |
| Suicide | District of Columbia | 5.2 | Montana | 25.9 |
| Nephritis & nephrosis | Vermont | 3.7 | Mississippi | 22.8 |
| Septicemia | California | 3.4 | Louisiana | 19.1 |
| Alcohol-induced deaths | Maryland | 5.2 | New Mexico | 30.2 |
| Hypertension | Colorado | 4.7 | Mississippi | 14.7 |
| Parkinson's disease | District of Columbia | 4.8 | Utah | 12.0 |
| Homicide | Idaho | 1.9 | District of Columbia | 16.8 |
| Perinatal conditions | Washington | 2.5 | Delaware | 7.0 |
| Congenital anomalies | New Hampshire | 1.9 | West Virginia | 5.0 |
| Aortic aneurysm & dissection | Massachusetts | 1.9 | North Dakota | 4.4 |
| HIV/AIDS | Wisconsin | 0.4 | District of Columbia | 12.3 |
| Amyotrophic lateral sclerosis | Hawaii | 1.2 | Vermont | 3.6 |
| Viral hepatitis | Wisconsin | 0.7 | District of Columbia | 4.5 |
| Arteriosclerosis | Minnesota | 0.5 | Kansas | 10.5 |

[1] Rates are adjusted to the U.S. standard million population and are per 100,000. Age-adjusted death rates allow the comparison of Oregon and the U.S. as if the population structure of each were identical (Oregon's population is older than the U.S. as a whole). All rates in this table were calculated using the federal Centers for Disease Control and Prevention WONDER (Wide-ranging Online Data for Epidemiological Research) system (http://wonder.cdc.gov). These rates may vary slightly from rates 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.

[2] Most recent year for which final data are available.

**TABLE 6-57. Life expectancy at birth and remaining years at selected ages by county and sex, Oregon residents, 2013-2017**

| County of residence | At birth (with C.I.)[1] | At birth | | At age 25 | | At age 35 | |
|---|---|---|---|---|---|---|---|
| | | M | F | M | F | M | F |
| Oregon | 79.7 (79.6 - 79.8) | 77.4 | 82.0 | 53.5 | 57.7 | 44.1 | 48.0 |
| Baker | 78.8 (77.7 - 79.8) | 77.0 | 80.6 | 54.2 | 56.3 | 45.0 | 46.9 |
| Benton | 83.4 (83.0 - 83.8) | 81.5 | 85.2 | 57.0 | 61.0 | 47.5 | 51.2 |
| Clackamas | 80.9 (80.7 - 81.1) | 78.7 | 83.0 | 54.8 | 58.7 | 45.5 | 49.0 |
| Clatsop | 77.9 (77.2 - 78.6) | 75.7 | 80.3 | 52.2 | 56.3 | 42.9 | 46.8 |
| Columbia | 79.2 (78.6 - 79.8) | 76.7 | 81.7 | 52.9 | 57.4 | 43.7 | 47.8 |
| Coos | 76.5 (76.0 - 77.0) | 74.2 | 79.0 | 50.9 | 54.7 | 41.5 | 45.2 |
| Crook | 78.5 (77.5 - 79.4) | 76.0 | 81.1 | 52.8 | 57.0 | 43.7 | 47.3 |
| Curry | 76.1 (75.0 - 77.1) | 73.0 | 79.4 | 50.5 | 55.1 | 42.2 | 45.7 |
| Deschutes | 80.6 (80.3 - 80.9) | 78.6 | 82.6 | 54.4 | 58.3 | 45.2 | 48.6 |
| Douglas | 77.4 (77.0 - 77.8) | 74.4 | 80.7 | 51.2 | 56.5 | 42.3 | 47.2 |
| Gilliam | 81.4 (77.3 - 85.6) | 77.4 | ** | 56.4 | ** | 47.2 | ** |
| Grant | 81.7 (79.9 - 83.5) | 79.5 | 84.4 | 56.4 | 60.9 | 47.0 | 51.2 |
| Harney | 77.8 (76.1 - 79.6) | 75.9 | 80.0 | 53.4 | 56.8 | 43.6 | 47.4 |
| Hood River | 81.5 (80.7 - 82.3) | 78.7 | 84.1 | 54.6 | 59.6 | 45.1 | 49.8 |
| Jackson | 78.9 (78.6 - 79.2) | 76.3 | 81.6 | 52.5 | 57.3 | 43.3 | 47.7 |
| Jefferson | 77.4 (76.5 - 78.4) | 75.4 | 79.8 | 52.6 | 56.3 | 43.7 | 46.8 |
| Josephine | 76.9 (76.5 - 77.4) | 73.7 | 80.3 | 50.4 | 56.1 | 41.7 | 46.7 |
| Klamath | 76.9 (76.4 - 77.4) | 74.4 | 79.5 | 51.0 | 55.4 | 42.0 | 46.0 |
| Lake | 79.0 (77.5 - 80.4) | 78.3 | 79.8 | 54.1 | 56.0 | 44.8 | 46.7 |
| Lane | 79.4 (79.2 - 79.6) | 77.0 | 81.8 | 53.0 | 57.5 | 43.7 | 47.9 |
| Lincoln | 77.7 (77.0 - 78.4) | 75.0 | 80.5 | 51.5 | 56.8 | 42.6 | 47.3 |
| Linn | 77.9 (77.6 - 78.3) | 75.7 | 80.1 | 51.9 | 55.7 | 42.6 | 46.0 |
| Malheur | 78.2 (77.5 - 79.0) | 77.0 | 79.5 | 53.7 | 55.2 | 44.5 | 45.7 |
| Marion | 79.4 (79.2 - 79.6) | 77.1 | 81.7 | 53.1 | 57.4 | 43.7 | 47.7 |
| Morrow | 80.5 (79.3 - 81.8) | 78.5 | 82.9 | 55.1 | 59.1 | 45.9 | 49.1 |
| Multnomah | 79.2 (79.1 - 79.4) | 76.7 | 81.7 | 52.7 | 57.5 | 43.2 | 47.7 |
| Polk | 79.8 (79.4 - 80.3) | 77.9 | 81.7 | 54.2 | 57.6 | 44.9 | 48.0 |
| Sherman | 79.6 (75.7 - 83.4) | ** | ** | ** | ** | ** | ** |
| Tillamook | 78.7 (77.9 - 79.5) | 76.7 | 80.9 | 53.1 | 56.5 | 43.7 | 46.7 |
| Umatilla | 78.9 (78.4 - 79.3) | 76.7 | 81.3 | 52.9 | 57.2 | 43.4 | 47.3 |
| Union | 79.8 (79.0 - 80.7) | 78.2 | 81.4 | 54.6 | 57.4 | 45.4 | 48.0 |
| Wallowa | 80.1 (78.2 - 81.9) | 77.0 | 83.3 | 54.8 | 58.8 | 46.0 | 49.1 |
| Wasco | 78.0 (77.2 - 78.8) | 75.0 | 81.3 | 51.3 | 57.1 | 42.2 | 47.3 |
| Washington | 82.3 (82.2 - 82.5) | 80.3 | 84.1 | 56.1 | 59.8 | 46.5 | 50.0 |
| Wheeler | 82.4 (79.4 - 85.3) | ** | ** | ** | ** | ** | ** |
| Yamhill | 79.7 (79.3 - 80.1) | 77.8 | 81.5 | 53.7 | 57.4 | 44.4 | 47.7 |

See footnotes at end of table.

**TABLE 6-57. Life expectancy at birth and remaining years at selected ages by county and sex, Oregon residents, 2013-2017 — Continued**

| County of residence | At age 45 | | At age 55 | | At age 65 | | At age 75 | | At age 85 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | M | F | M | F | M | F | M | F |
| Oregon | 34.9 | 38.5 | 26.2 | 29.5 | 18.6 | 21.1 | 11.8 | 13.6 | 6.2 | 7.4 |
| Baker | 35.4 | 38.0 | 26.6 | 29.1 | 19.1 | 20.7 | 12.1 | 12.8 | 7.0 | 7.1 |
| Benton | 38.0 | 41.7 | 29.1 | 32.3 | 20.9 | 23.6 | 13.4 | 15.3 | 7.2 | 8.6 |
| Clackamas | 36.2 | 39.4 | 27.3 | 30.3 | 19.2 | 21.6 | 12.1 | 13.8 | 6.5 | 7.6 |
| Clatsop | 34.1 | 37.4 | 25.8 | 28.8 | 18.5 | 20.5 | 11.9 | 13.2 | 6.6 | 6.5 |
| Columbia | 34.6 | 38.5 | 26.0 | 29.3 | 18.1 | 20.8 | 11.5 | 13.7 | 6.3 | 7.3 |
| Coos | 32.6 | 36.0 | 24.5 | 27.3 | 17.6 | 19.7 | 11.2 | 12.5 | 6.3 | 6.6 |
| Crook | 34.5 | 38.0 | 26.0 | 29.6 | 18.3 | 21.3 | 11.4 | 13.6 | 6.3 | 7.5 |
| Curry | 33.0 | 36.5 | 25.0 | 27.7 | 17.7 | 19.6 | 11.1 | 11.9 | 5.5 | 6.1 |
| Deschutes | 35.9 | 39.0 | 27.1 | 29.6 | 19.2 | 20.9 | 11.8 | 13.0 | 6.1 | 6.6 |
| Douglas | 33.3 | 38.0 | 25.2 | 29.3 | 18.3 | 21.3 | 11.8 | 14.1 | 6.8 | 8.5 |
| Gilliam | 39.7 | ** | 30.1 | ** | 21.9 | ** | 14.6 | ** | 7.1 | ** |
| Grant | 38.2 | 41.5 | 29.3 | 32.2 | 21.7 | 23.9 | 14.6 | 15.9 | 9.3 | 9.6 |
| Harney | 34.7 | 38.0 | 26.6 | 29.2 | 18.9 | 21.7 | 12.2 | 14.8 | 7.6 | 8.3 |
| Hood River | 35.7 | 40.0 | 26.8 | 30.4 | 18.5 | 21.9 | 11.3 | 14.0 | 5.6 | 8.0 |
| Jackson | 34.3 | 38.2 | 25.8 | 29.3 | 18.5 | 21.0 | 11.7 | 13.5 | 6.3 | 7.3 |
| Jefferson | 34.8 | 37.6 | 26.4 | 28.9 | 18.6 | 20.5 | 11.2 | 13.1 | 6.2 | 6.4 |
| Josephine | 33.1 | 37.4 | 24.6 | 28.7 | 17.7 | 20.6 | 11.4 | 13.6 | 6.5 | 7.7 |
| Klamath | 33.0 | 36.9 | 25.0 | 28.4 | 17.9 | 20.3 | 11.1 | 12.8 | 5.7 | 7.1 |
| Lake | 35.3 | 37.1 | 26.6 | 29.0 | 18.8 | 20.7 | 12.1 | 13.3 | 7.1 | 7.6 |
| Lane | 34.6 | 38.4 | 26.1 | 29.4 | 18.6 | 21.1 | 11.8 | 13.5 | 6.1 | 7.3 |
| Lincoln | 33.8 | 38.0 | 25.6 | 29.5 | 18.6 | 21.6 | 11.9 | 14.0 | 6.3 | 7.8 |
| Linn | 33.4 | 36.7 | 25.0 | 27.9 | 17.6 | 19.7 | 10.9 | 12.3 | 5.3 | 6.5 |
| Malheur | 35.1 | 36.5 | 26.5 | 28.1 | 18.7 | 20.3 | 11.9 | 12.9 | 7.1 | 7.4 |
| Marion | 34.4 | 38.2 | 25.8 | 29.2 | 18.2 | 20.9 | 11.6 | 13.5 | 6.1 | 7.4 |
| Morrow | 36.5 | 39.5 | 27.3 | 30.3 | 19.7 | 22.1 | 12.9 | 14.5 | 7.9 | 8.6 |
| Multnomah | 34.0 | 38.2 | 25.3 | 29.1 | 18.0 | 20.8 | 11.4 | 13.3 | 5.9 | 7.1 |
| Polk | 35.7 | 38.3 | 26.9 | 29.4 | 19.0 | 20.8 | 12.3 | 13.1 | 6.1 | 6.2 |
| Sherman | ** | ** | ** | ** | ** | ** | ** | ** | ** | ** |
| Tillamook | 34.5 | 37.6 | 26.0 | 29.0 | 18.3 | 20.8 | 11.7 | 13.2 | 5.9 | 6.6 |
| Umatilla | 34.2 | 37.8 | 25.4 | 29.1 | 18.1 | 21.1 | 11.4 | 13.4 | 6.2 | 7.7 |
| Union | 36.0 | 38.8 | 27.1 | 30.2 | 19.6 | 21.8 | 12.7 | 14.6 | 7.3 | 8.7 |
| Wallowa | 36.5 | 39.6 | 28.5 | 30.6 | 20.4 | 22.6 | 13.3 | 14.3 | 7.1 | 7.6 |
| Wasco | 33.0 | 38.0 | 24.8 | 28.9 | 17.3 | 20.8 | 10.8 | 13.4 | 5.8 | 7.9 |
| Washington | 37.0 | 40.3 | 27.9 | 31.1 | 19.7 | 22.3 | 12.5 | 14.4 | 6.6 | 8.0 |
| Wheeler | ** | ** | ** | ** | ** | ** | ** | ** | ** | ** |
| Yamhill | 35.0 | 38.2 | 26.1 | 29.3 | 18.2 | 20.9 | 11.4 | 13.8 | 5.9 | 7.5 |

** Insufficient population size for calculation.
1 C.I. = 95% confidence interval.

**TABLE 6-58. Age-adjusted death rates for selected causes of death, Oregon and United States residents, 2002-2016[1]**

| Year | Total | | | Cancer | | | Heart disease | | |
|---|---|---|---|---|---|---|---|---|---|
| | Oregon | US | % Diff | Oregon | US | % Diff | Oregon | US | % Diff |
| 2002 | 855.0 | 845.3 | 1.1 | 200.9 | 193.5 | 3.8 | 198.0 | 240.8 | -17.8 |
| 2003 | 838.4 | 832.7 | 0.7 | 198.3 | 190.1 | 4.3 | 189.5 | 232.3 | -18.4 |
| 2004 | 814.8 | 800.8 | 1.7 | 196.7 | 185.8 | 5.9 | 179.2 | 217.0 | -17.4 |
| 2005 | 791.4 | 798.8 | -0.9 | 189.4 | 183.8 | 3.0 | 169.5 | 211.1 | -19.7 |
| 2006 | 784.5 | 776.5 | 1.0 | 185.7 | 180.7 | 2.8 | 162.6 | 200.2 | -18.8 |
| 2007 | 771.6 | 760.2 | 1.5 | 184.7 | 178.4 | 3.5 | 159.7 | 190.9 | -16.3 |
| 2008 | 772.8 | 758.3 | 1.9 | 182.8 | 175.3 | 4.3 | 154.5 | 186.5 | -17.2 |
| 2009 | 739.7 | 741.1 | -0.2 | 176.7 | 173.2 | 2.0 | 143.0 | 180.1 | -20.6 |
| 2010 | 735.0 | 747.0 | -1.6 | 177.9 | 172.8 | 2.9 | 139.7 | 179.1 | -22.0 |
| 2011 | 730.0 | 741.3 | -1.5 | 172.7 | 169.0 | 2.2 | 136.2 | 173.7 | -21.6 |
| 2012 | 706.4 | 732.8 | -3.6 | 167.5 | 166.5 | 0.6 | 130.3 | 170.5 | -23.6 |
| 2013 | 716.8 | 731.9 | -2.1 | 163.0 | 163.2 | -0.1 | 134.6 | 169.8 | -20.7 |
| 2014 | 702.8 | 724.6 | -3.0 | 159.3 | 161.2 | -1.2 | 131.3 | 167.0 | -21.4 |
| 2015 | 718.6 | 733.1 | -2.0 | 159.5 | 158.5 | 0.6 | 135.3 | 168.5 | -19.7 |
| 2016 | 702.6 | 728.8 | -3.6 | 154.9 | 155.8 | -0.6 | 134.3 | 165.5 | -18.9 |

| Year | Unintentional injuries | | | Chronic lower resp. disease | | | Cerebrovascular disease | | |
|---|---|---|---|---|---|---|---|---|---|
| | Oregon | US | % Diff | Oregon | US | % Diff | Oregon | US | % Diff |
| 2002 | 38.4 | 36.9 | 4.1 | 50.9 | 43.5 | 17.0 | 71.7 | 56.2 | 27.6 |
| 2003 | 38.3 | 37.3 | 2.7 | 49.8 | 43.3 | 15.0 | 68.5 | 53.5 | 28.0 |
| 2004 | 38.8 | 37.7 | 2.9 | 48.1 | 41.1 | 17.0 | 61.9 | 50.0 | 23.8 |
| 2005 | 37.6 | 39.1 | -3.8 | 47.8 | 43.2 | 10.6 | 57.3 | 46.6 | 23.0 |
| 2006 | 40.7 | 39.8 | 2.3 | 46.8 | 40.5 | 15.6 | 48.8 | 43.6 | 11.9 |
| 2007 | 41.7 | 40.0 | 4.3 | 47.5 | 40.8 | 16.4 | 44.5 | 42.2 | 5.5 |
| 2008 | 42.4 | 38.8 | 9.3 | 48.2 | 44.0 | 9.5 | 45.6 | 40.7 | 12.0 |
| 2009 | 38.8 | 37.3 | 3.9 | 46.4 | 42.3 | 9.6 | 44.0 | 38.9 | 13.2 |
| 2010 | 37.8 | 38.0 | -0.6 | 46.5 | 42.2 | 10.2 | 40.5 | 39.1 | 3.6 |
| 2011 | 40.4 | 39.1 | 3.4 | 45.6 | 42.5 | 7.2 | 42.0 | 37.9 | 10.8 |
| 2012 | 38.9 | 39.1 | -0.6 | 42.0 | 41.5 | 1.1 | 37.5 | 36.9 | 1.5 |
| 2013 | 39.6 | 39.4 | 0.5 | 42.6 | 42.1 | 1.2 | 37.0 | 36.2 | 2.3 |
| 2014 | 40.7 | 40.5 | 0.4 | 39.7 | 40.5 | -1.9 | 37.0 | 36.5 | 1.5 |
| 2015 | 44.1 | 43.2 | 2.0 | 41.9 | 41.6 | 0.7 | 37.1 | 37.6 | -1.3 |
| 2016 | 46.0 | 47.4 | -2.9 | 40.0 | 40.6 | -1.5 | 37.5 | 37.3 | 0.6 |

[1] Most recent year for which final U.S. data are available.

NOTE: U.S. age-adjusted death rates are from compressed mortality files available at the federal Centers for Disease Control and Prevention's WONDER online database. Unlike the data shown in tables 6-54 and 6-55, all Oregon data are from state mortality files. Consequently, the rates and percentage differences shown here will vary from those in tables 6-54 and 6-55 due to different file closure dates, different population estimate methodologies, and incorporation of physician query results. Because the ratios are based on national data, discontinuities may occur when Oregon physicians reported causes of death differently than their national counterparts (e.g., Alzheimer's disease vs. Alzheimer's dementia). Some differences between Oregon and U.S. rates (e.g., alcohol-induced deaths) result, at least in part, from Oregon's query program: when death certificates are incomplete, letters are sent to physicians/certifiers requesting additional information.

**TABLE 6-58. Age-adjusted death rates for selected causes of death, Oregon and United States residents, 2002-2016[1] — Continued**

| Year | Alzheimer's disease | | | Diabetes mellitus | | | Suicide | | |
|---|---|---|---|---|---|---|---|---|---|
| | Oregon | US | % Diff | Oregon | US | % Diff | Oregon | US | % Diff |
| 2002 ..... | 30.3 | 20.2 | 50.0 | 28.6 | 25.4 | 12.6 | 14.5 | 10.9 | 33.0 |
| 2003 ..... | 30.6 | 21.4 | 43.0 | 28.1 | 25.3 | 11.1 | 16.3 | 10.8 | 50.9 |
| 2004 ..... | 33.4 | 21.8 | 53.2 | 29.0 | 24.5 | 18.4 | 15.2 | 10.9 | 39.4 |
| 2005 ..... | 30.4 | 22.9 | 32.8 | 29.3 | 24.6 | 19.1 | 14.9 | 10.9 | 36.7 |
| 2006 ..... | 29.5 | 22.6 | 30.5 | 28.9 | 23.3 | 24.0 | 15.1 | 10.9 | 38.5 |
| 2007 ..... | 28.0 | 22.7 | 23.3 | 27.9 | 22.5 | 24.0 | 15.6 | 11.3 | 38.1 |
| 2008 ..... | 30.5 | 24.4 | 25.0 | 24.8 | 21.8 | 13.8 | 14.7 | 11.6 | 26.7 |
| 2009 ..... | 27.7 | 23.5 | 17.8 | 25.3 | 20.9 | 20.9 | 16.1 | 11.8 | 36.2 |
| 2010 ..... | 28.7 | 25.1 | 14.3 | 24.2 | 20.8 | 16.3 | 17.1 | 12.1 | 41.4 |
| 2011 ..... | 28.8 | 24.7 | 16.7 | 24.8 | 21.6 | 14.9 | 16.2 | 12.3 | 31.4 |
| 2012 ..... | 28.1 | 23.8 | 18.2 | 24.4 | 21.2 | 14.9 | 17.6 | 12.6 | 40.0 |
| 2013 ..... | 27.1 | 23.5 | 15.4 | 23.4 | 21.2 | 10.6 | 16.8 | 12.6 | 33.4 |
| 2014 ..... | 28.3 | 25.4 | 11.3 | 22.3 | 20.9 | 6.5 | 18.6 | 13.0 | 43.1 |
| 2015 ..... | 32.6 | 29.4 | 11.0 | 22.9 | 21.3 | 7.3 | 17.8 | 13.3 | 33.8 |
| 2016 ..... | 34.5 | 30.3 | 13.9 | 23.9 | 21.0 | 14.0 | 17.8 | 13.5 | 32.0 |

| Year | Alcohol-induced | | | Hypertension | | | Parkinson's disease | | |
|---|---|---|---|---|---|---|---|---|---|
| | Oregon | US | % Diff | Oregon | US | % Diff | Oregon | US | % Diff |
| 2002 ..... | 12.3 | 6.9 | 78.3 | 9.6 | 7.0 | 37.1 | 8.3 | 5.9 | 40.7 |
| 2003 ..... | 14.2 | 7.0 | 102.9 | 9.3 | 7.4 | 25.7 | 8.4 | 6.2 | 35.5 |
| 2004 ..... | 13.8 | 7.0 | 97.1 | 9.5 | 7.7 | 23.4 | 8.6 | 6.1 | 41.0 |
| 2005 ..... | 13.7 | 7.0 | 95.7 | 10.6 | 8.0 | 32.5 | 7.7 | 6.4 | 20.3 |
| 2006 ..... | 11.7 | 7.0 | 67.1 | 8.9 | 7.5 | 18.7 | 8.7 | 6.3 | 38.1 |
| 2007 ..... | 13.1 | 7.3 | 79.5 | 8.6 | 7.4 | 16.2 | 8.2 | 6.4 | 28.1 |
| 2008 ..... | 12.9 | 7.4 | 74.3 | 9.5 | 7.7 | 23.4 | 8.7 | 6.4 | 35.9 |
| 2009 ..... | 13.4 | 7.4 | 81.4 | 9.5 | 7.7 | 23.1 | 8.3 | 6.4 | 29.7 |
| 2010 ..... | 13.0 | 7.6 | 71.2 | 9.8 | 8.0 | 23.1 | 8.5 | 6.8 | 25.6 |
| 2011 ..... | 14.6 | 7.7 | 89.3 | 9.7 | 8.1 | 19.5 | 8.0 | 7.0 | 14.1 |
| 2012 ..... | 14.7 | 8.0 | 84.3 | 10.4 | 8.2 | 27.2 | 8.0 | 7.0 | 14.3 |
| 2013 ..... | 15.4 | 8.2 | 88.2 | 10.7 | 8.5 | 25.9 | 8.5 | 7.3 | 15.9 |
| 2014 ..... | 16.4 | 8.5 | 93.2 | 9.8 | 8.2 | 20.0 | 8.0 | 7.4 | 7.7 |
| 2015 ..... | 18.7 | 9.1 | 105.1 | 11.1 | 8.5 | 31.0 | 8.7 | 7.7 | 13.3 |
| 2016 ..... | 16.9 | 9.5 | 77.9 | 10.5 | 8.6 | 22.7 | 8.9 | 8.0 | 11.7 |

[1] Most recent year for which final U.S. data are available.

NOTE: U.S. age-adjusted death rates are from compressed mortality files available at the federal Centers for Disease Control and Prevention's WONDER online database. Unlike the data shown in tables 6-54 and 6-55, all Oregon data are from state mortality files. Consequently, the rates and percentage differences shown here will vary from those in tables 6-54 and 6-55 due to different file closure dates, different population estimate methodologies, and incorporation of physician query results. Because the ratios are based on national data, discontinuities may occur when Oregon physicians reported causes of death differently than their national counterparts (e.g., Alzheimer's disease vs. Alzheimer's dementia). Some differences between Oregon and U.S. rates (e.g., alcohol-induced deaths) result, at least in part, from Oregon's query program: when death certificates are incomplete, letters are sent to physicians/certifiers requesting additional information.

**TABLE 6-58. Age-adjusted death rates for selected causes of death, Oregon and United States residents, 2002-2016[1] — Continued**

| Year | Flu & pneumonia | | | Homicide | | | Viral hepatitis | | |
|---|---|---|---|---|---|---|---|---|---|
| | Oregon | US | % Diff | Oregon | US | % Diff | Oregon | US | % Diff |
| 2002 ..... | 17.9 | 22.6 | -20.8 | 3.1 | 6.1 | -49.2 | 3.5 | 2.0 | 75.0 |
| 2003 ..... | 17.0 | 22.0 | -22.7 | 2.5 | 6.0 | -58.3 | 2.6 | 1.8 | 44.4 |
| 2004 ..... | 14.7 | 19.8 | -25.8 | 3.1 | 5.9 | -47.5 | 2.9 | 1.8 | 61.1 |
| 2005 ..... | 15.1 | 20.3 | -25.6 | 2.9 | 6.1 | -52.5 | 2.3 | 1.8 | 27.8 |
| 2006 ..... | 12.8 | 17.8 | -28.1 | 3.0 | 6.2 | -51.6 | 2.2 | 2.3 | -4.3 |
| 2007 ..... | 11.4 | 16.2 | -29.6 | 2.1 | 6.1 | -65.6 | 4.2 | 2.3 | 82.6 |
| 2008 ..... | 12.3 | 16.9 | -27.2 | 2.6 | 5.9 | -55.9 | 3.8 | 2.3 | 65.2 |
| 2009 ..... | 12.0 | 16.2 | -26.2 | 2.6 | 5.5 | -53.3 | 3.9 | 2.2 | 77.1 |
| 2010 ..... | 9.3 | 15.1 | -38.4 | 2.9 | 5.3 | -45.5 | 3.8 | 2.1 | 79.8 |
| 2011 ..... | 8.7 | 15.7 | -44.5 | 2.8 | 5.3 | -47.5 | 3.8 | 2.2 | 74.7 |
| 2012 ..... | 8.1 | 14.4 | -43.8 | 2.8 | 5.4 | -47.9 | 3.2 | 2.1 | 51.3 |
| 2013 ..... | 10.5 | 15.9 | -34.1 | 2.3 | 5.2 | -56.3 | 4.6 | 2.1 | 118.1 |
| 2014 ..... | 9.1 | 15.1 | -39.9 | 2.4 | 5.1 | -52.3 | 4.1 | 2.1 | 95.8 |
| 2015 ..... | 9.0 | 15.2 | -41.0 | 3.5 | 5.7 | -39.2 | 3.5 | 1.9 | 81.7 |
| 2016 ..... | 8.8 | 13.5 | -34.5 | 3.2 | 6.2 | -47.6 | 2.9 | 1.6 | 83.5 |

| Year | Amyotrophic lateral sclerosis | | | Arteriosclerosis | | | HIV/AIDS | | |
|---|---|---|---|---|---|---|---|---|---|
| | Oregon | US | % Diff | Oregon | US | % Diff | Oregon | US | % Diff |
| 2002 ..... | 3.0 | 2.0 | 50.0 | 5.7 | 4.7 | 21.3 | 2.5 | 4.9 | -49.0 |
| 2003 ..... | 3.1 | 2.0 | 55.0 | 5.5 | 4.4 | 25.0 | 2.5 | 4.7 | -46.8 |
| 2004 ..... | 2.9 | 1.9 | 52.6 | 4.6 | 3.9 | 17.9 | 1.8 | 4.5 | -60.0 |
| 2005 ..... | 2.8 | 1.9 | 47.4 | 4.8 | 3.8 | 26.3 | 1.5 | 4.2 | -64.3 |
| 2006 ..... | 2.9 | 1.9 | 52.6 | 2.8 | 2.7 | 3.7 | 1.4 | 4.0 | -65.0 |
| 2007 ..... | 2.3 | 1.9 | 21.1 | 3.0 | 2.5 | 20.0 | 1.5 | 3.7 | -59.5 |
| 2008 ..... | 3.0 | 1.9 | 57.9 | 2.2 | 2.3 | -4.3 | 1.0 | 3.3 | -69.7 |
| 2009 ..... | 2.7 | 1.9 | 39.8 | 1.8 | 2.2 | -19.0 | 1.1 | 3.0 | -62.7 |
| 2010 ..... | 2.8 | 2.0 | 38.9 | 1.6 | 2.2 | -29.1 | 1.2 | 2.6 | -55.1 |
| 2011 ..... | 2.7 | 2.0 | 33.8 | 2.0 | 2.0 | -0.5 | 0.9 | 2.4 | -62.7 |
| 2012 ..... | 2.7 | 2.1 | 29.4 | 1.1 | 2.0 | -44.9 | 1.4 | 2.2 | -37.8 |
| 2013 ..... | 2.9 | 2.0 | 45.6 | 1.2 | 1.8 | -33.8 | 1.2 | 2.1 | -43.5 |
| 2014 ..... | 2.6 | 2.0 | 30.7 | 0.8 | 1.7 | -51.8 | 0.8 | 2.0 | -60.9 |
| 2015 ..... | 2.8 | 2.0 | 39.7 | 0.9 | 1.6 | -41.1 | 1.0 | 1.9 | -48.4 |
| 2016 ..... | 2.1 | 1.7 | 24.9 | 0.9 | 1.5 | -37.2 | 0.8 | 1.8 | -55.7 |

[1] Most recent year for which final U.S. data are available.

NOTE: U.S. age-adjusted death rates are from compressed mortality files available at the federal Centers for Disease Control and Prevention's WONDER online database. Unlike the data shown in tables 6-54 and 6-55, all Oregon data are from state mortality files. Consequently, the rates and percentage differences shown here will vary from those in tables 6-54 and 6-55 due to different file closure dates, different population estimate methodologies, and incorporation of physician query results. Because the ratios are based on national data, discontinuities may occur when Oregon physicians reported causes of death differently than their national counterparts (e.g., Alzheimer's disease vs. Alzheimer's dementia). Some differences between Oregon and U.S. rates (e.g., alcohol-induced deaths) result, at least in part, from Oregon's query program: when death certificates are incomplete, letters are sent to physicians/certifiers requesting additional information.

# SECTION 7: FETAL AND INFANT MORTALITY

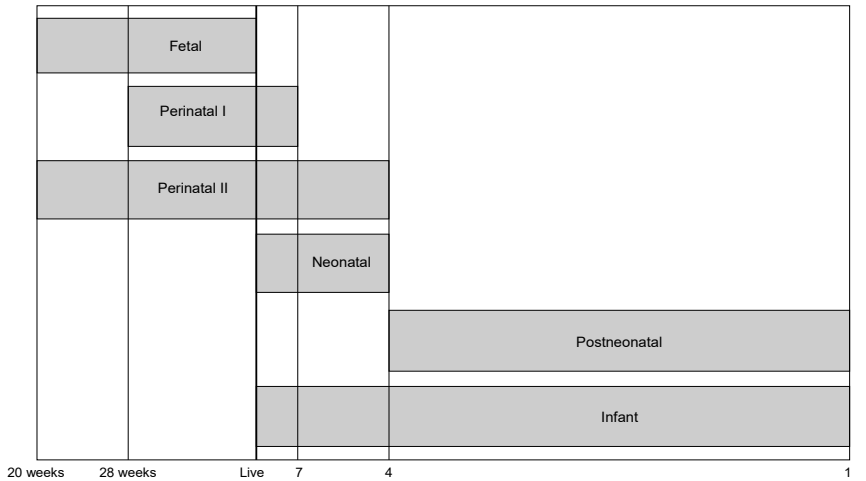
# Fetal and infant mortality

## Introduction

This report presents fetal and infant mortality data. Fetal deaths included in this report are for fetuses weighing at least 350 grams at delivery, or at least 20 weeks' gestation if delivery weight is unknown. Infant deaths occur within one year of birth. This definition applies to data after 1998. Although fetal and infant death records are useful for statistical descriptions of deaths within a given period, their fundamental purpose is to help discover and evaluate preventive strategies to improve infant health. As an aid to understanding and monitoring health trends, this report divides fetal and infant deaths into five overlapping categories: fetal deaths, perinatal deaths, infant deaths, neonatal deaths and postneonatal deaths. These categories are consistent with the National Center for Health Statistics' definitions (see Figure 7-1).

The five categories of fetal and infant death were analyzed using three databases: fetal deaths, infant deaths and births. National publications covering the subject of fetal and infant death may use one or any combination of these databases. As a result, death rates often vary slightly depending on whether birth or death cohorts were used as the data source for statistical analysis. The next section discusses the definitions for birth and death cohorts.

Figure 7-1.
Fetal*, perinatal and infant death: definitions




*Fetal deaths reported include those with birthweights of at least 350 grams or, if birthweight is unknown, at least 20 weeks gestation.

Throughout this report, some tables display rates and ratios based on small numbers of events. Rates and ratios based on fewer than five events are unreliable. It is important to avoid inferring causal relationships based solely on the data contained in these tables.

## Definitions and methodology

The following are definitions of fetal and infant death data components.

- **Fetal deaths** occur among fetuses weighing at least 350 grams at delivery, or that have completed at least 20 weeks' gestation if delivery weight is unknown. To classify an event as a fetal death, the developing fetus dies either in utero (unintentionally) or during delivery. Fetal deaths are classified as early (20–27 weeks' gestation) or late (28 or more weeks' gestation). Oregon public health and safety laws require fetal death reporting.*
- **Infant deaths** occur during a child's first year (measured from birth through 364 days). Infant deaths include both neonatal and postneonatal deaths.
  - » **Neonatal deaths** occur during the first 27 days of life. Neonatal deaths may be early (under seven days) or late (seven to 27 days).
  - » **Postneonatal deaths** occur from day 28 through day 364 after birth.
- **Perinatal deaths definition I** includes fetal deaths at 28 weeks of gestation or more, and infant deaths at less than seven days after birth.
- **Perinatal deaths definition II** includes fetal deaths at 20 weeks or more of gestation, and infant deaths at less than 28 days after birth.
- The **death cohort** for infant death includes all infant

* Prior to Nov. 10, 1998, fetal deaths occurring at 20 weeks of gestation or more were reported. Effective that date, the Oregon Legislature amended ORS 432.333 to read: "Each fetal death of 350 grams or more, or, if weight is unknown, of 20 completed weeks' gestation or more, calculated from the date last normal menstrual period began to the date of delivery, that occurs in this state shall be reported within five days after delivery to the county registrar of the county in which the fetal death occurred or to the Center for Health Statistics or as otherwise directed by the Center for Health Statistics." Currently, hospitals and reporting facilities send all fetal death reports directly to the Oregon Center for Health Statistics rather than to county registrars.

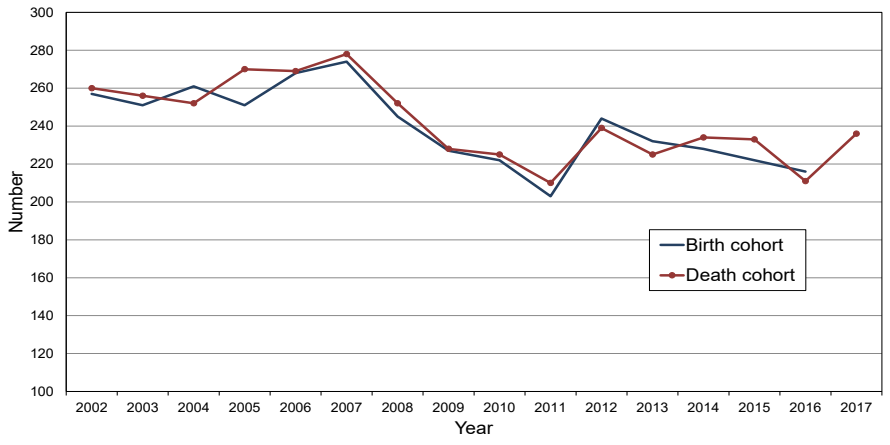
deaths occurring in any given calendar year. In this report, the death cohort consists of infants that died in 2017 and could have been born in either 2016 or 2017. Data from the death cohort are usually available sooner than birth cohort data, as described below. The focus and analysis of the death cohort is on death record information, such as age, residence of the infant and cause of death. Tables 7-1 and 7-2 are based on a death cohort.

- The **birth cohort** for matched infant deaths (each death record matched to its corresponding birth record) is based on analysis of infants born in the same calendar year that die within one year of their birth. In this report, the birth cohort consists of infants born in 2016 that died in either 2016 or 2017. Analysis based on a birth cohort is typically not as timely; however, it allows the analysis of characteristics from the birth record, such as mother's race, age and factors affecting the birth outcomes (e.g., birthweight, prenatal care, mother's use of tobacco). Rates using the birth or death cohorts may differ slightly, but the difference is usually small. Tables 7-8 through 7-18 are based on an infant birth cohort. See Figure 7-2 for a comparison of deaths by birth cohort and death cohort.

## Fetal and infant mortality in the 2017 death cohort

This chapter uses data from the 2017 death cohort in the first two tables. Discussion mainly focuses on the cause

Figure 7-2.
Infant deaths by birth cohort and death cohort,
Oregon residents, 2002-2017



of death. Infant characteristics at the time of death are derived from death records, with the primary focus on age at death, county of residence at death, and underlying cause of death. Total age-specific and cause-specific mortality ratios are computed by dividing the number of infant deaths in a calendar year by the number of births in the same calendar year.

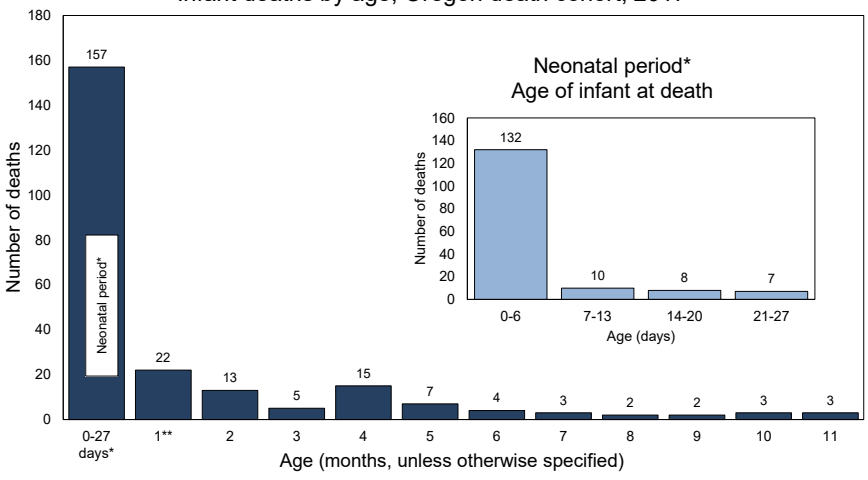
## Demographics

During 2017, 236 Oregon resident infants less than 1 year of age died, an increase from 211 in 2016. The infant mortality rate also increased, from 4.6 to 5.4 deaths per 1,000 births (see Table 7-1). Oregon's infant death rate was 8.5% lower than the U.S. rate of 5.9 per 1,000 births during 2016 (the most recent year for which data are available) (1). As in previous years, most infants (66.5%) who died during 2017 were less than 28 days old. More than half (55.9%) of infant deaths occurred within the first week of life (see Figure 7-3).

***During 2017, 236 infants died within the first year of life.***

Between 2013 and 2017, the infant mortality rates for Oregon counties (excluding counties with fewer than five infant deaths) ranged from 3.8 to 9.2 per 1,000. Only one Oregon county, Polk, had an infant mortality rate significantly higher than the state rate (8.2 and 5.0, respectively). No county had an infant mortality rate significantly lower than the state rate.

Figure 7-3.
Infant deaths by age, Oregon death cohort, 2017




*Neonatal period is <28 days. Inset shows details of neonatal period.
**1 month age group includes infants more than 27 days and less than 2 months of age.

## Sudden infant death syndrome

Sudden infant death syndrome (SIDS) is the sudden and unexpected death of an apparently healthy infant less than 1 year of age, usually during the postneonatal period. Historically, Oregon's SIDS rate has been higher than the national rate, and SIDS has been a leading cause of death among Oregon infants (see Figure 7-4). However, since 2001, Oregon's and the nation's rates have been similar. Oregon's rate dropped quickly after the implementation of "Back to Sleep," a national educational campaign begun in 1994 to encourage non-prone sleeping positions for infants.

***SIDS accounted for 9% of all infant deaths in 2017.***

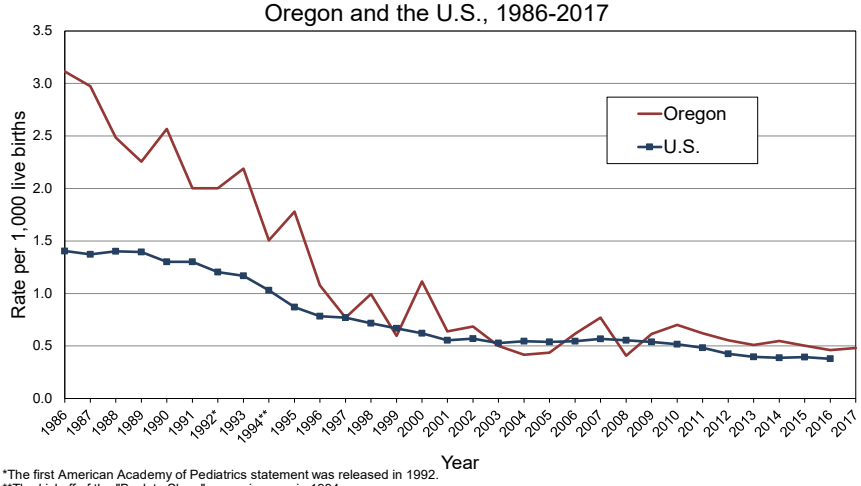
The number of SIDS deaths (21) was the same as during the previous year, and the SIDS death rate among infants was also unchanged at 0.5 per 1,000 live births. In 2017, SIDS accounted for 8.9% of all infant deaths in Oregon and 22.8% of all postneonatal deaths (see Table 7-2).

## Neonatal death

Neonatal and postneonatal death rates have been declining since 1936, when the neonatal death rate was 29.0 per 1,000 births and the postneonatal death rate was 15.3 per 1,000 births. In 2017, the neonatal death rate was 3.6 per 1,000 births, up from 3.3 in 2016. The postneonatal death rate was 1.8 per 1,000 births, an increase from 1.4 in 2016 (see Figure 7-5 and Table 7-1).

In 2017, 157 infants died during the neonatal period, an increase from 148 in 2016. Oregon's neonatal death rate has consistently been below that of the United States (see Figure 7-6). The 2017 Oregon rate (3.6) is 7.0% lower than

Figure 7-4.
Sudden infant death syndrome (SIDS) death rates,
Oregon and the U.S., 1986-2017




*The first American Academy of Pediatrics statement was released in 1992.
**The kickoff of the "Back to Sleep" campaign was in 1994.
Death cohort 1986-2017. Changes in cause of death coding affected SIDS death rates beginning in 1999.

**Table A - Neonatal deaths due to respiratory distress syndrome, 2001-2017**

| Year | Number | Percent* | Rate** |
|---|---|---|---|
| 2001 | 5 | 3.2 | 11 |
| 2002 | 4 | 2.3 | 8.9 |
| 2003 | 3 | 1.7 | 6.5 |
| 2004 | 6 | 3.4 | 13.1 |
| 2005 | 10 | 5.6 | 21.8 |
| 2006 | 5 | 2.7 | 10.3 |
| 2007 | 9 | 4.7 | 18.2 |
| 2008 | 3 | 1.9 | 6.1 |
| 2009 | 2 | 1.3 | 4.2 |
| 2010 | 3 | 2.0 | 6.6 |
| 2011 | 4 | 2.8 | 8.9 |
| 2012 | 4 | 2.5 | 8.9 |
| 2013 | 4 | 2.6 | 8.9 |
| 2014 | 2 | 1.3 | 4.4 |
| 2015 | 2 | 1.3 | 4.4 |
| 2016 | 2 | 1.4 | 4.4 |
| 2017 | 5 | 3.2 | 11.5 |

* Percent of neonatal deaths due to RDS.
**Per 100,000 live births.

the 2016 national rate of 3.9 (1). Congenital anomalies were responsible for more neonatal deaths than any other cause (35.0%), followed by short gestation and fetal growth (23.6%) and maternal factors (21.0%) (see Table 7-2). Five neonates died from respiratory distress syndrome (RDS) in 2017 (see Table A).

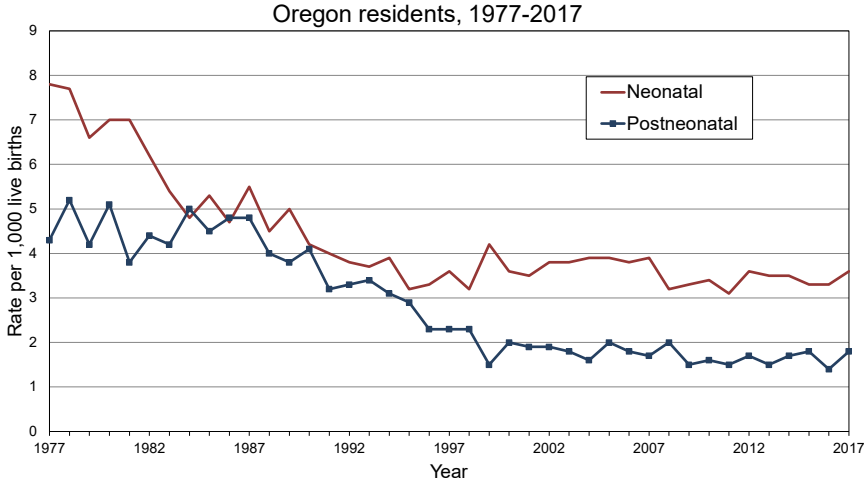
## Postneonatal death

In 2017, 79 infants died during the postneonatal period, representing 33.5% of all infant deaths. The postneonatal death rate of 1.8 per 1,000 births represents an increase from 2016 (1.4 per 1,000 births); the difference is not statistically significant (see Figure 7-5). Sudden infant death syndrome (SIDS) was the most common cause of postneonatal death (22.8%). Congenital anomalies were the second-most-common cause and accounted for 21.5% of postneonatal deaths. Unintentional injuries were the third-most-common cause (20.3%) (see Table 7-2). Before 1996, Oregon's postneonatal death rate was higher than the U.S. rate; since then, the state rate has been lower than the national rate (1.8 per 1,000 births for Oregon in 2017 vs. 2.0 per 1,000 births for the latest U.S. data available in 2016 (1).

## Fetal death

Fetal deaths were first reported to the Public Health Division in 1928, when the ratio of fetal deaths to live births was 29.0 for every 1,000 births. Since then, this ratio has generally decreased, and has remained under 5.0 since 1998 (see Figure 7-7 and Table 5-2). In 2017, there were 185 Oregon

Figure 7-5.
Neonatal and postneonatal death rates,
Oregon residents, 1977-2017




Death cohort 1977-2017.

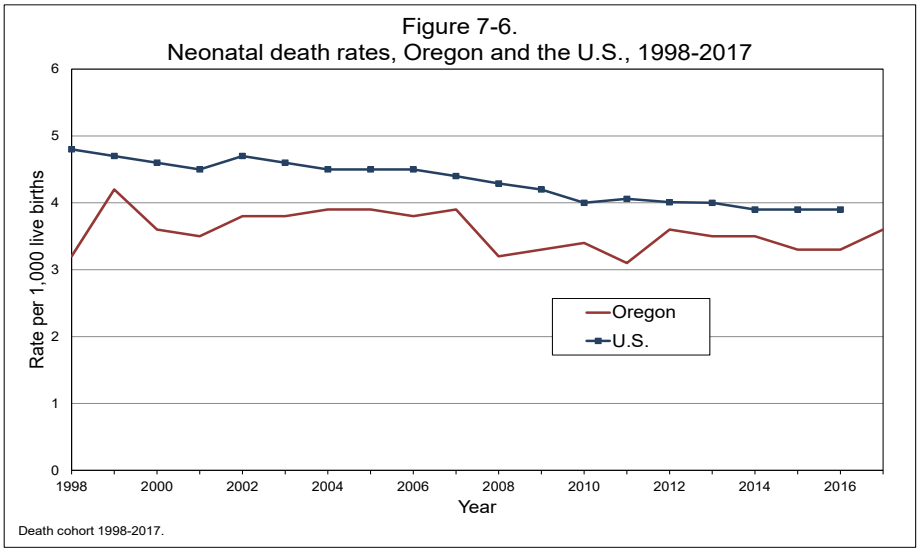



**Table B - Fetal death ratios per 1,000 live births, by mother's age, 2013-2017**

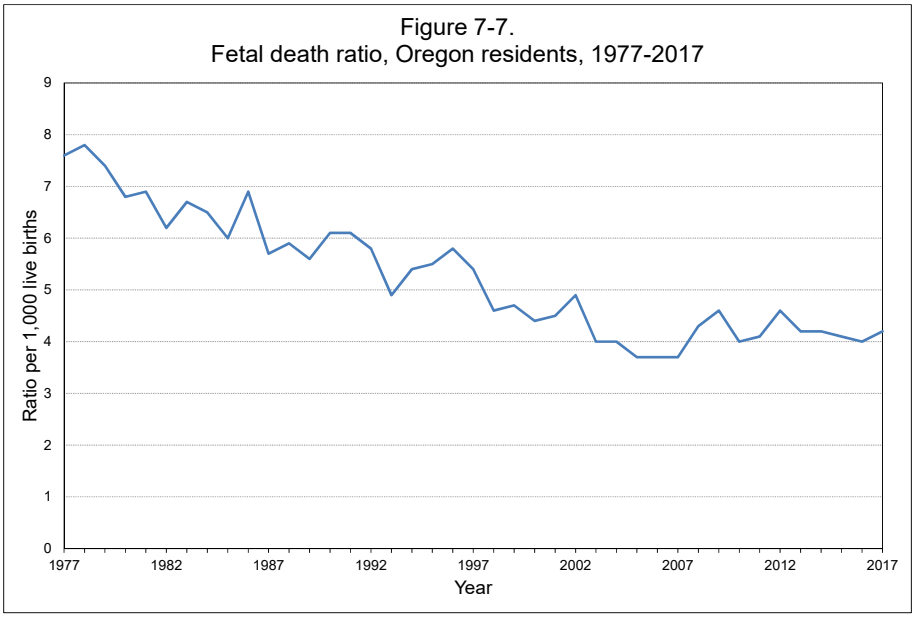
| Age | Year | | | | |
|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | 2017 |
| Total | 4.2 | 4.2 | 4.1 | 4.0 | 4.2 |
| 15-44 | 4.1 | 4.1 | 4.0 | 4.0 | 4.2 |
| 15-19 | 3.5 | 5.4 | 4.8 | 6.0 | 4.4 |
| 20-24 | 4.2 | 3.1 | 4.6 | 3.6 | 4.1 |
| 25-29 | 4.3 | 4.2 | 2.9 | 3.9 | 4.2 |
| 30-34 | 3.2 | 3.6 | 3.9 | 3.6 | 4.1 |
| 35-39 | 5.7 | 4.9 | 5.0 | 4.8 | 4.1 |
| 40-44 | 4.7 | 7.5 | 6.7 | 5.4 | 5.6 |

* Ratio was not calculated because there were fewer than five fetal deaths in this category.

resident fetal deaths, or 4.2 fetal deaths per 1,000 live births (see Table 7-3). This is not a statistically significant decrease from 2016 when 184 fetal deaths were reported, and the ratio was 4.0 fetal deaths per 1,000 live births (see Table B).

## Fetal cause of death

Table 7-4 shows the causes of Oregon's 185 fetal deaths in 2017. "Unspecified" was the most frequently reported cause of fetal death (a total of 82 deaths). Complications of the placenta, cord and membranes were the second most common cause of fetal death (37 deaths), and congenital anomalies and maternal complications of pregnancy tied for third most common (18 deaths). These four causes of death represented 83.8% of all 2017 Oregon fetal deaths. In 1999, the first year in which Oregon used ICD-10 codes, fetal death of unspecified cause represented 18.4% of all



| Table C - Percentage of fetal deaths by weeks of gestation, 2008-2017 | | | |
|---|---|---|---|
| Year | Weeks of gestation | | |
| | <28 | 28-36 | 37+ |
| 2008 | 41.5 | 31.6 | 26.4 |
| 2009 | 33.3 | 40.3 | 26.4 |
| 2010 | 39.2 | 35.4 | 24.9 |
| 2011 | 36.6 | 36.6 | 26.9 |
| 2012 | 36.4 | 33.5 | 29.6 |
| 2013 | 39.2 | 29.1 | 31.7 |
| 2014 | 34.0 | 39.3 | 26.7 |
| 2015 | 40.9 | 34.9 | 23.1 |
| 2016 | 42.4 | 34.2 | 23.4 |
| 2017 | 34.6 | 38.4 | 27.0 |

fetal deaths. In 2017, this same cause made up 44.3% of fetal deaths, a 140.8% increase.

## 2016 birth cohort for infant deaths

Infant mortality analyses can also be performed using birth cohort data. The numerators for all rates and ratios are based on the number of infants born in a given year that die prior to their first birthday. Perinatal analyses also include all fetal deaths occurring in the same year. Because infants can be born in one year and die the following year, use of the birth cohort requires that the 2017 death data be included in the report on the 2016 birth cohort. For illustration, 216 of the infants born in 2016 died within the first year of life; of these 216 deaths, 195 died in calendar year 2016, and 21 died in 2017. Those that died in 2017 also appear in this year's report as part of the 2017 death cohort.

The Center for Health Statistics has produced tables containing infant and perinatal death data from the birth, fetal death and matched infant death files. These birth cohort tables display data for infant and perinatal deaths according to several maternal risk factors and low birthweight. Additionally, this report presents neonatal and postneonatal deaths that were matched to their corresponding birth. Thus, a birth occurring at the end of December 2016 may have a matched postneonatal death that occurred up to one year later, at the end of December 2017.

### Small numbers

Due to the small number of events in some risk factor categories, this report uses three-year groupings of the risk characteristics to improve statistical reliability. Single-year tables displaying risk factors are also included for comparison with statistics of prior years, but the analysis of risk factors and maternal characteristics are done using only the three-year tables.

### Perinatal deaths

Perinatal death, reported in tables 7-13 through 7-16, combines neonatal deaths and fetal deaths of specific gestation (see Figure 7-1). These tables present a comprehensive picture of late-gestation fetal deaths and neonatal deaths. As shown in Figure 7-8, the perinatal death rate (the combined rates of fetal and neonatal death) is generally lower than the rates seen in the 1990s. The

2016 birth cohort's neonatal death rate was 3.3 per 1,000 live births, a slight decrease from the previous cohort's rate of 3.4. Both the fetal and neonatal death rates fluctuate from year to year due to the small number of cases. The fetal death rate hit a low of 3.7 during 2005 to 2007 but has increased slightly since that time.

## Neonatal deaths: 2014–2016 birth cohort

Some maternal characteristics may influence pregnancy outcomes of infants that died during the neonatal period. This section discusses marital status, age, ethnicity and race, education, prenatal care, and tobacco use (see Table 7-18).

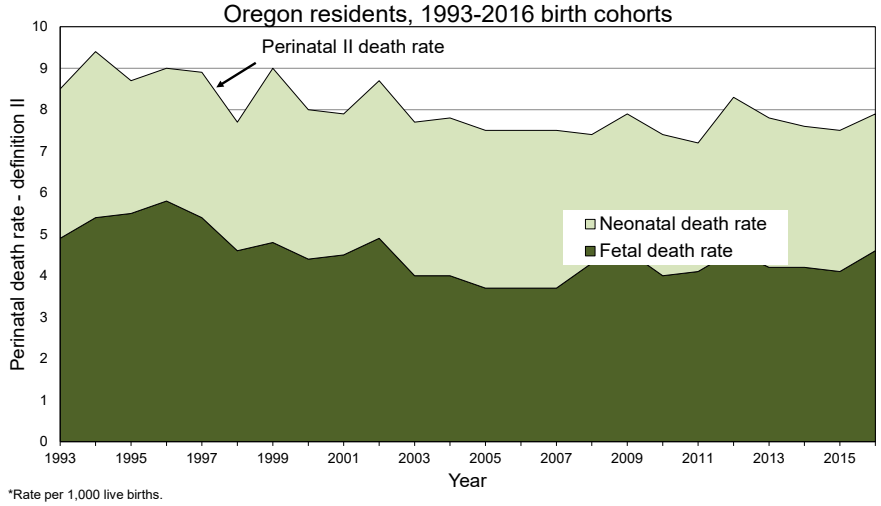
### Birthweight

The birthweight of an infant has long been a predictor of subsequent survival. An increase in birthweight correlates with a decrease in the risk of neonatal death. For 2014–2016, the neonatal death rate decreased, on average, by roughly 60% for each 250- to 500-gram increase in birthweight for infants weighing less than 3,000 grams at birth (see Table 7-12). The death rate for infants weighing less than 350 grams was 985.5 per 1,000 live births, decreasing to 0.6 per 1,000 live births for infants weighing more than 2,500 grams (see Table 7-12 and Figure 7-9).

***Birthweight has long been a predictor of survival.***

Many behavioral, social and medical conditions are associated with higher rates of infant death. These conditions may also have confounding or mitigating effects

Figure 7-8.
Fetal, neonatal and perinatal II death rates*
Oregon residents, 1993-2016 birth cohorts




*Rate per 1,000 live births.

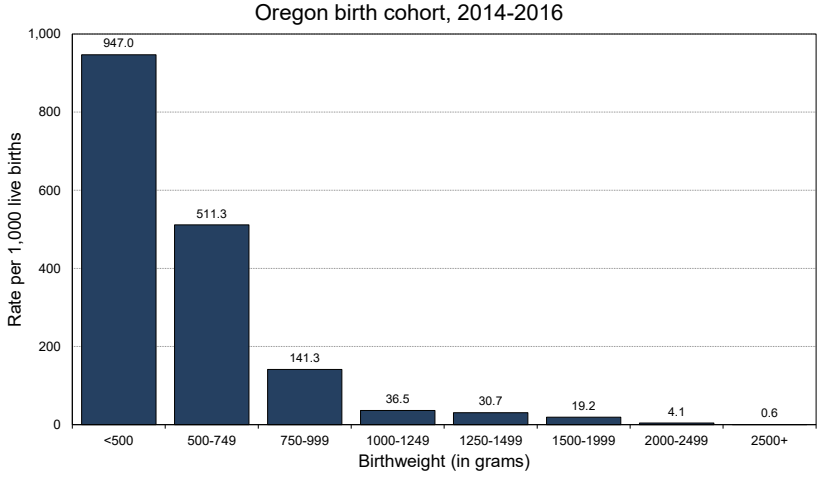
on each other. This report does not try to account for or hold all these variables constant in relation to each other. Instead, it presents a simple descriptive analysis.

### Maternal characteristics

The neonatal death rate among infants born to single mothers was higher than for married mothers during 2014–2016 (4.2 versus 2.8 per 1,000). Infants of women with more than a high school education had a lower neonatal death rate (2.7 per 1,000) than infants of women with only a high-school education (4.0 per 1,000).

By race, infants of Non-Hispanic Black mothers (7.5 per 1,000) and mothers of other and unknown race (22.3 per 1,000) had the highest neonatal death rates. Neonatal death rates in both groups were significantly higher than those for infants whose mothers were Asian (2.5) or Hispanic (3.5). The neonatal death rate for infants of White non-Hispanic women was 3.2. Infants born to mothers aged 40–44 years had a significantly higher rate of neonatal infant death than those born to mothers of age groups 20–24, 25–29 and 30–34 years (6.7 versus 3.2, 3.0 and 2.9, respectively). Infants born to mothers aged 15–19 years old also had a significantly higher rate than infants born to mothers of age groups 25–29 and 30–34 years (5.2 versus 3.0 and 2.9, respectively). Infants of multiple gestations (e.g., twins, triplets) had significantly higher rates of neonatal deaths than those with single gestations (18.6 versus 2.8, see Table 7-18).

Figure 7-9.
Neonatal death rates by birthweight,
Oregon birth cohort, 2014-2016



### Prenatal care

Women who received prenatal care, regardless of when it began, had significantly lower rates of neonatal deaths than women who received no prenatal care (3.0 versus 33.2 per 1,000 births) (see Table 7-18).

### Tobacco use

The infants of women who did not use tobacco had lower rates of neonatal deaths (3.1 per 1,000) than infants of women who smoked before or during pregnancy (3.5 and 4.8 per 1,000, respectively). However, tobacco use may be underreported, which would eliminate some high-risk mothers from the analysis and potentially lowering the reported neonatal death rates for this category (see Table 7-18).

## Postneonatal deaths: 2014–2016 birth cohort

Postneonatal death refers to death to an infant between its 28th and 364th day of life. This section discusses the influences of marital status, age, ethnicity and race, education, prenatal care, and tobacco on birth outcomes (see Table 7-18).

### Maternal characteristics

Infants born to single mothers had a higher rate of postneonatal death than did infants of married mothers (2.3 versus 1.1). The postneonatal death rate was also significantly higher for infants of mothers who gave birth to multiple infants (4.2 versus 1.4 for singleton births). Infants of women with more than a high-school education had a significantly lower postneonatal death rate (1.1) than infants of high-school graduates (2.5). Non-Hispanic African-American mothers had the highest postneonatal mortality rate (3.1). Infants of younger mothers generally had higher death rates than infants of older mothers. Infants born to mothers aged 30–34 years had the lowest postneonatal death rate (0.9), followed by mothers aged 35–39 years (1.3). Infants born to mothers aged 30–34 years had significantly lower death rates than infants born to mothers aged 15–19 years (2.4) and 20–24 years (2.3; see Table 7-18).

### Prenatal care

Infants of women receiving prenatal care in any trimester of pregnancy had lower rates of postneonatal death (1.4) than infants of mothers who received no prenatal care (5.7). Similarly, infants of women who received prenatal care during the first trimester had lower rates (1.3) than those who received no prenatal care.

### Tobacco use

The postneonatal death rate of infants born to mothers who used tobacco before or during pregnancy was significantly higher than of those born to mothers who did not smoke (4.7 and 4.1, versus 1.1) (see Table 7-18).

## Fetal and early neonatal deaths: birth attendant and place of delivery

In 2011, the Oregon State Legislature passed House Bill 2380, which required the Oregon Public Health Division to add two questions to the Oregon birth record to determine mothers' planned place of birth and birth attendant. Every mother who gave birth in a hospital was asked whether she had planned to give birth in a private home or a freestanding birthing center and who the planned primary attendant type was at the time she went into labor. Overall, two early neonatal deaths and one fetal death with a gestation of 37 weeks or more were planned out-of-hospital births in 2017.

Three types of midwives practice in Oregon: certified nurse midwives (CNM), licensed direct-entry midwives (LDM) and direct entry midwives (DEM). CNMs have completed an accredited, university-affiliated nurse midwifery program and have an active nurse practitioner license. They may attend deliveries in hospitals, freestanding birth centers and homes. LDMs are direct-entry midwives who have volunteered for state licensure through the Oregon Health Licensing Agency. They must meet qualifications and adhere to regulations set by the Oregon Legislature and Board of Direct Entry Midwifery. Lay midwives who are not licensed in Oregon may also certify births, but they must register with the Center for Health Statistics.

In 2017, there were 52 full-term (at least 37 weeks' gestation) fetal deaths. The mother in one of the full-term fetal deaths intended an out-of-hospital birth, and the death occurred in a non-hospital setting (see Table 7-19).

There were 20 full-term early neonatal deaths in 2017. These are deaths of infants who lived less than seven days after birth, after a gestational period of at least 37 weeks. The mothers in most of these deaths (18) intended to deliver in a hospital. Only two full-term early neonatal deaths were planned to occur in a non-hospital setting, and the attendants in both deaths were licensed direct-entry midwives (see Table 7-20).

## Endnote

1. These data are from the federal Centers for Disease Control and Prevention's (CDC) WONDER online database (http://wonder.cdc.gov/mortSQL.html). The most recent year for which final mortality data are available was 2016 at the time this report was compiled. Oregon mortality data from the WONDER database may vary slightly from Oregon data presented elsewhere within this annual report due to different file closure dates, different population estimate methodologies, out-of-state reporting by other states to CDC and incorporation of Oregon's physician query results.

## TABLE 7-1. Infant deaths by age and county of residence, Oregon residents, death cohort 2017

| County of residence | Total infant deaths[1] | Infant death rate[2] | Neonatal deaths[3] (Age <28 days) | | | | Neonatal rate[2] | Post-neonatal deaths[4] | Post-neonatal rate[2] |
|---|---|---|---|---|---|---|---|---|---|
| | | | Total neonatal | Under 1 day | 1-6 days | 7-27 days | | | |
| Total | 236 | 5.4 | 157 | 111 | 21 | 25 | 3.6 | 79 | 1.8 |
| Baker | 1 | 6.4 | – | – | – | – | – | 1 | 6.4 |
| Benton | 4 | 5.7 | 2 | 1 | 1 | – | 2.9 | 2 | 2.9 |
| Clackamas | 16 | 3.9 | 10 | 5 | 2 | 3 | 2.4 | 6 | 1.5 |
| Clatsop | 1 | 2.7 | – | – | – | – | – | 1 | 2.7 |
| Columbia | 2 | 3.9 | 2 | 2 | – | – | 3.9 | – | – |
| Coos | 2 | 3.3 | 1 | 1 | – | – | 1.7 | 1 | 1.7 |
| Crook | 1 | 3.8 | 1 | 1 | – | – | 3.8 | – | – |
| Curry | – | – | – | – | – | – | – | – | – |
| Deschutes | 6 | 3.3 | 2 | – | 1 | 1 | 1.1 | 4 | 2.2 |
| Douglas | 9 | 8.4 | 4 | 4 | – | – | 3.7 | 5 | 4.7 |
| Gilliam | – | – | – | – | – | – | – | – | – |
| Grant | – | – | – | – | – | – | – | – | – |
| Harney | – | – | – | – | – | – | – | – | – |
| Hood River | – | – | – | – | – | – | – | – | – |
| Jackson | 14 | 6.2 | 10 | 6 | 3 | 1 | 4.4 | 4 | 1.8 |
| Jefferson | 4 | 15.2 | 3 | 2 | – | 1 | 11.4 | 1 | 3.8 |
| Josephine | 4 | 4.5 | 3 | 2 | 1 | – | 3.4 | 1 | 1.1 |
| Klamath | 8 | 10.1 | 5 | 4 | – | 1 | 6.3 | 3 | 3.8 |
| Lake | – | – | – | – | – | – | – | – | – |
| Lane | 20 | 5.8 | 13 | 10 | 1 | 2 | 3.8 | 7 | 2.0 |
| Lincoln | 2 | 5.0 | 1 | – | – | 1 | 2.5 | 1 | 2.5 |
| Linn | 7 | 4.8 | 4 | 3 | – | 1 | 2.7 | 3 | 2.0 |
| Malheur | 1 | 2.5 | 1 | 1 | – | – | 2.5 | – | – |
| Marion | 25 | 5.6 | 23 | 19 | 2 | 2 | 5.2 | 2 | 0.5 |
| Morrow | 2 | 11.8 | 1 | 1 | – | – | 5.9 | 1 | 5.9 |
| Multnomah | 42 | 5.0 | 27 | 12 | 8 | 7 | 3.2 | 15 | 1.8 |
| Polk | 8 | 9.3 | 7 | 5 | – | 2 | 8.1 | 1 | 1.2 |
| Sherman | – | – | – | – | – | – | – | – | – |
| Tillamook | 1 | 4.6 | – | – | – | – | – | 1 | 4.6 |
| Umatilla | 6 | 6.3 | 5 | 4 | – | 1 | 5.3 | 1 | 1.1 |
| Union | 2 | 6.7 | 1 | 1 | – | – | 3.4 | 1 | 3.4 |
| Wallowa | – | – | – | – | – | – | – | – | – |
| Wasco | 1 | 3.2 | 1 | 1 | – | – | 3.2 | – | – |
| Washington | 40 | 6.0 | 25 | 22 | 2 | 1 | 3.8 | 15 | 2.3 |
| Wheeler | – | – | – | – | – | – | – | – | – |
| Yamhill | 7 | 6.3 | 5 | 4 | – | 1 | 4.5 | 2 | 1.8 |

– Quantity is zero.
1 Infant deaths occur in the first year of life.
2 Rates per 1,000 live births.
3 Neonatal deaths occur in the first 27 days of life.
4 Postneonatal deaths occur from day 28 through 364 after birth.
WARNING: Rates based on less than five events are unreliable.

**TABLE 7-2. Infant deaths by cause and age, Oregon residents, death cohort 2017**

| Selected causes of death (and their ICD-10 codes) | Total infant deaths[1] | Neonatal deaths[2] | | | | Post-neonatal deaths[3] |
|---|---|---|---|---|---|---|
| | | Under 1 day | 1-6 days | 7-27 days | Total neonatal | |
| Total | 236 | 111 | 21 | 25 | 157 | 79 |
| Rate[4] | 5.4 | 2.5 | 0.5 | 0.6 | 3.6 | 1.8 |
| **Infections & parasitic disease (A00-B99)** | 9 | – | – | – | – | 9 |
| Gastroenteritis of infectious origin (A09) | 4 | – | – | – | – | 4 |
| Septicaemia (A40-A41) | 3 | – | – | – | – | 3 |
| **Malignant neoplasms (C00-C97)** | 1 | – | – | 1 | 1 | – |
| **Diseases of blood & immune disorders (D50-D89)** | 2 | – | – | – | – | 2 |
| Anemias (D50-D64) | 1 | – | – | – | – | 1 |
| **Endocrine, nutritional, & metabolic disease (E00-E88)** | 1 | – | – | – | – | 1 |
| **Mental & behavioral disorders (F01-F99)** | 1 | – | – | – | – | 1 |
| **Diseases of the nervous system (G00-G99)** | 2 | 1 | – | – | 1 | 1 |
| **Diseases of the respiratory system (J00-J99)** | 1 | – | – | – | – | 1 |
| **Diseases of the digestive system (K00-K92)** | 3 | – | – | – | – | 3 |
| **Perinatal conditions (P00-P96)** | 117 | 83 | 18 | 13 | 114 | 3 |
| Fetus & newborn affected by maternal factors (P00-P04) | 33 | 32 | 1 | – | 33 | – |
| Gestation & fetal growth (P05-P08) | 37 | 33 | 2 | – | 35 | 2 |
| Birth trauma (P10-P15) | 2 | 1 | – | 1 | 2 | – |
| Intrauterine hypoxia & asphyxia (P20-P21) | 3 | 2 | 1 | – | 3 | – |
| Respiratory distress (P22) | 5 | 3 | 2 | – | 5 | – |
| Other respiratory (P24-P28) | 6 | 1 | 4 | 1 | 6 | – |
| Bacterial sepsis of newborn (P36) | 4 | 1 | – | 3 | 4 | – |
| Haemorrhagic disorders of newborn (P50-P61) | 6 | 3 | 3 | – | 6 | – |
| **Congenital anomalies (Q00-Q99)** | 55 | 27 | 3 | 8 | 38 | 17 |
| Anencephaly (Q000) | 3 | 3 | – | – | 3 | – |
| Congenital hydrocephalus & spina bifida (Q03, Q05) | 1 | 1 | – | – | 1 | – |
| Malformation of the heart (Q20-Q24) | 14 | 3 | – | 4 | 7 | 7 |
| Down syndrome & other chromosomal (Q90-Q99) | 14 | 9 | 3 | – | 12 | 2 |
| **Symptoms, signs not elsewhere classified (R00-R99)** | 23 | – | – | 3 | 3 | 20 |
| Sudden infant death syndrome (R95) | 21 | – | – | 3 | 3 | 18 |
| Other ill-defined and unspecified causes (R99) | 2 | – | – | – | – | 2 |
| **External causes of death (V01-Y89)** | 20 | – | – | – | – | 20 |
| Accidents (V01-X59, Y85-Y86) | 16 | – | – | – | – | 16 |
| Transport accidents (V01-V99, Y85) | 1 | – | – | – | – | 1 |
| Nontransport accidents (W00-X59,Y86) | 15 | – | – | – | – | 15 |
| Drowning & submersion (W65-W74) | 1 | – | – | – | – | 1 |
| Accidental suffocation/strangulation in bed (W75) | 11 | – | – | – | – | 11 |
| Exposure to smoke, fire & flames (X00-X09) | 1 | – | – | – | – | 1 |
| Assault (homicide) (X85-Y09, Y87.1) | 3 | – | – | – | – | 3 |
| Events of undetermined intent (Y10-Y34, Y87.2, Y89.9) | 1 | – | – | – | – | 1 |
| Strangulation/suffocation, undeterm intent (Y20) | 1 | – | – | – | – | 1 |

– Quantity is zero.
1 Infant deaths occur in the first year of life.
2 Neonatal deaths occur in the first 27 days of life.
3 Postneonatal deaths occur from day 28 through 364 after birth.
4 Rates per 1,000 live births.

## TABLE 7-3. Fetal deaths by age of mother and county of residence, Oregon, 2017

| County of residence | Total | Age of mother | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | <15 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45+ | N.S. |
| Total | 185 | – | 8 | 32 | 53 | 53 | 29 | 8 | – | 2 |
| Ratio to births[1] | 4.2 | – | 4.4 | 4.1 | 4.2 | 4.1 | 4.1 | 5.6 | – | ** |
| Baker | 2 | – | – | – | – | 1 | 1 | – | – | – |
| Benton | 5 | – | – | – | 3 | 1 | 1 | – | – | – |
| Clackamas | 15 | – | – | 3 | 4 | 8 | – | – | – | – |
| Clatsop | 1 | – | – | – | – | 1 | – | – | – | – |
| Columbia | 1 | – | – | 1 | – | – | – | – | – | – |
| Coos | – | – | – | – | – | – | – | – | – | – |
| Crook | 1 | – | – | – | – | 1 | – | – | – | – |
| Curry | – | – | – | – | – | – | – | – | – | – |
| Deschutes | 5 | – | – | 1 | 2 | 1 | 1 | – | – | – |
| Douglas | 4 | – | – | – | 3 | – | 1 | – | – | – |
| Gilliam | – | – | – | – | – | – | – | – | – | – |
| Grant | 1 | – | – | – | 1 | – | – | – | – | – |
| Harney | – | – | – | – | – | – | – | – | – | – |
| Hood River | 1 | – | – | – | – | – | – | 1 | – | – |
| Jackson | 13 | – | – | 1 | 4 | 5 | 2 | 1 | – | – |
| Jefferson | 1 | – | – | – | 1 | – | – | – | – | – |
| Josephine | 3 | – | 1 | – | – | 1 | 1 | – | – | – |
| Klamath | 4 | – | – | 2 | – | 2 | – | – | – | – |
| Lake | 1 | – | – | – | 1 | – | – | – | – | – |
| Lane | 11 | – | 1 | 3 | 4 | 1 | 2 | – | – | – |
| Lincoln | 3 | – | 1 | – | 2 | – | – | – | – | – |
| Linn | 11 | – | 1 | 5 | 4 | – | – | – | – | 1 |
| Malheur | 3 | – | – | 2 | – | – | – | 1 | – | – |
| Marion | 24 | – | 1 | 5 | 7 | 7 | 3 | 1 | – | – |
| Morrow | – | – | – | – | – | – | – | – | – | – |
| Multnomah | 40 | – | 2 | 5 | 9 | 12 | 8 | 3 | – | 1 |
| Polk | 6 | – | – | 2 | 1 | 2 | 1 | – | – | – |
| Sherman | – | – | – | – | – | – | – | – | – | – |
| Tillamook | – | – | – | – | – | – | – | – | – | – |
| Umatilla | 5 | – | 1 | – | 2 | – | 1 | 1 | – | – |
| Union | 1 | – | – | – | 1 | – | – | – | – | – |
| Wallowa | – | – | – | – | – | – | – | – | – | – |
| Wasco | – | – | – | – | – | – | – | – | – | – |
| Washington | 17 | – | – | 2 | 1 | 8 | 6 | – | – | – |
| Wheeler | – | – | – | – | – | – | – | – | – | – |
| Yamhill | 6 | – | – | – | 3 | 2 | 1 | – | – | – |

– Quantity is zero.
1 All ratios per 1,000 live births.
** Ratio for unknown age group is not calculated.

## TABLE 7-4. Fetal deaths by weeks of gestation and cause of death, Oregon, 2017

| Selected causes of death (and their ICD-10 codes) | Total | Weeks of gestation[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | <20 | 20-23 | 24-27 | 28-31 | 32-35 | 36 | 37-39 | 40 | 41+ |
| Total | 185 | 1 | 38 | 25 | 23 | 38 | 10 | 39 | 9 | 2 |
| **Perinatal conditions (P00-P96)** | 164 | 1 | 31 | 23 | 18 | 34 | 10 | 37 | 8 | 2 |
| Maternal conditions unrelated to present pregnancy (P00) | 14 | – | 3 | 3 | 1 | 3 | – | 4 | – | – |
| Maternal complications of pregnancy (P01) | 18 | – | 13 | 3 | – | – | 1 | 1 | – | – |
| Complications of placenta, cord and membranes (P02) | 37 | – | 5 | 8 | 4 | 7 | 1 | 12 | – | – |
| Other complications of labor and delivery (P03) | 2 | – | – | – | – | – | – | 1 | 1 | – |
| Noxious influences transmitted via placenta (P04) | 1 | – | – | – | – | 1 | – | – | – | – |
| Slow fetal growth and fetal malnutrition (P05) | 1 | – | – | – | – | – | – | – | 1 | – |
| Transitory endocrine and metabolic disorders specific to fetus (P70-P74) | 5 | – | – | 1 | – | 2 | 1 | 1 | – | – |
| Other perinatal conditions (P80-P96) | 85 | 1 | 10 | 8 | 13 | 21 | 7 | 18 | 5 | 2 |
| Fetal death of unspecified cause (P95) | 82 | 1 | 8 | 8 | 12 | 21 | 7 | 18 | 5 | 2 |
| **Congenital malformations (Q00-Q99)** | 18 | – | 4 | 2 | 5 | 4 | – | 2 | 1 | – |
| Of the nervous system (Q00-Q07) | 2 | – | – | – | 2 | – | – | – | – | – |
| Congenital hydrocephalus (Q03) | 1 | – | – | – | 1 | – | – | – | – | – |
| Of the heart (Q20-Q24) | 1 | – | – | – | – | – | – | – | 1 | – |
| Of the urinary system (Q60-Q64) | 2 | – | – | 1 | – | 1 | – | – | – | – |
| Of musculosketetal system, limbs, and integument (Q65-Q85) | 3 | – | 1 | 1 | 1 | – | – | – | – | – |
| Other congenital malformations (Q86-Q89) | 1 | – | – | – | 1 | – | – | – | – | – |
| Chromosomal abnormalities, NEC (Q90-Q99) | 7 | – | 2 | – | 1 | 2 | – | 2 | – | – |
| Edwards syndrome (Q91.0-Q91.3) | 4 | – | – | – | 1 | 1 | – | 2 | – | – |

– Quantity is zero.
1 Based on clinical estimate of gestation.

## TABLE 7-5. Fetal deaths by weeks of gestation and age of mother, Oregon, 2017

| Age of mother | Total | Weeks of gestation[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | <20 | 20-23 | 24-27 | 28-31 | 32-35 | 36 | 37-39 | 40 | 41+ |
| Total | 185 | 1 | 38 | 25 | 23 | 38 | 10 | 39 | 9 | 2 |
| <15 | – | – | – | – | – | – | – | – | – | – |
| 15-19 | 8 | – | 2 | 2 | – | 1 | – | 3 | – | – |
| 20-24 | 32 | – | 10 | 4 | 5 | 6 | 1 | 4 | 2 | – |
| 25-29 | 53 | – | 6 | 6 | 9 | 15 | 1 | 13 | 3 | – |
| 30-34 | 53 | 1 | 15 | 7 | 5 | 8 | 6 | 9 | 2 | – |
| 35-39 | 29 | – | 5 | 4 | 3 | 7 | 1 | 6 | 1 | 2 |
| 40-44 | 8 | – | – | 2 | 1 | 1 | – | 4 | – | – |
| 45+ | – | – | – | – | – | – | – | – | – | – |
| N.S. | 2 | – | – | – | – | – | 1 | – | 1 | – |

– Quantity is zero.
[1] Based on clinical estimate of gestation.

## TABLE 7-6. Births by weeks of gestation and weight, Oregon residents, 2016

| Birthweight (in grams) | Total | Weeks of gestation[1] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <20 | 20-23 | 24-27 | 28-31 | 32-35 | 36 | 37-39 | 40 | 41+ | N.S. |
| Total | 45,533 | 11 | 55 | 150 | 311 | 1,625 | 1,465 | 25,730 | 10,983 | 5,176 | 27 |
| 349 and less | 22 | 11 | 10 | – | – | – | 1 | – | – | – | – |
| 350-499 | 23 | – | 19 | 4 | – | – | – | – | – | – | – |
| <500 | 45 | 11 | 29 | 4 | – | – | 1 | – | – | – | – |
| 500-749 | 81 | – | 25 | 46 | 9 | 1 | – | – | – | – | – |
| 750-999 | 84 | – | 1 | 58 | 22 | 2 | – | – | – | – | 1 |
| 1000-1249 | 97 | – | – | 28 | 50 | 15 | – | 4 | – | – | – |
| 1250-1499 | 134 | – | – | 7 | 86 | 35 | 3 | – | 3 | – | – |
| 1500-1999 | 622 | – | – | 3 | 125 | 370 | 57 | 58 | 4 | 4 | 1 |
| 2000-2499 | 1,917 | – | – | 2 | 15 | 663 | 352 | 840 | 36 | 9 | – |
| <2500 | 2,980 | 11 | 55 | 148 | 307 | 1,086 | 413 | 902 | 43 | 13 | 2 |
| 2500+ | 42,544 | – | – | 1 | 4 | 537 | 1,052 | 24,827 | 10,936 | 5,163 | 24 |
| 2500-2999 | 7,027 | – | – | 1 | 3 | 396 | 634 | 4,934 | 834 | 219 | 6 |
| 3000-3499 | 17,130 | – | – | – | 1 | 116 | 330 | 10,938 | 4,122 | 1,615 | 8 |
| 3500-3999 | 13,682 | – | – | – | – | 23 | 74 | 6,939 | 4,427 | 2,211 | 8 |
| 4000-4499 | 4,004 | – | – | – | – | 1 | 11 | 1,712 | 1,331 | 947 | 2 |
| 4500+ | 701 | – | – | – | – | 1 | 3 | 304 | 222 | 171 | – |
| Unknown | 9 | – | – | 1 | – | 2 | – | 1 | 4 | – | 1 |

– Quantity is zero.
[1] Based on clinical estimate of gestation.

**TABLE 7-7. Fetal deaths by weeks of gestation and weight, Oregon residents, 2016**

| Birthweight (in grams) | Total | Weeks of gestation[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | <20 | 20-23 | 24-27 | 28-31 | 32-35 | 36 | 37-39 | 40 | 41+ |
| Total | 184 | 4 | 46 | 28 | 20 | 33 | 10 | 27 | 11 | 5 |
| 349 and less | – | – | – | – | – | – | – | – | – | – |
| 350-499 | 34 | 3 | 25 | 5 | – | 1 | – | – | – | – |
| <500 | 34 | 3 | 25 | 5 | – | 1 | – | – | – | – |
| 500-749 | 34 | – | 18 | 13 | 2 | 1 | – | – | – | – |
| 750-999 | 17 | – | 2 | 9 | 4 | 2 | – | – | – | – |
| 1000-1249 | 10 | 1 | – | 1 | 4 | 3 | – | 1 | – | – |
| 1250-1499 | 13 | – | – | – | 7 | 5 | – | – | 1 | – |
| 1500-1999 | 13 | – | – | – | 3 | 7 | – | 3 | – | – |
| 2000-2499 | 13 | – | – | – | – | 6 | 2 | 4 | – | 1 |
| <2500 | 134 | 4 | 45 | 28 | 20 | 25 | 2 | 8 | 1 | 1 |
| 2500+ | 49 | – | – | – | – | 8 | 8 | 19 | 10 | 4 |
| 2500-2999 | 23 | – | – | – | – | 7 | 6 | 8 | 2 | – |
| 3000-3499 | 16 | – | – | – | – | 1 | 1 | 7 | 3 | 4 |
| 3500-3999 | 7 | – | – | – | – | – | 1 | 4 | 2 | – |
| 4000-4499 | 2 | – | – | – | – | – | – | – | 2 | – |
| 4500+ | 1 | – | – | – | – | – | – | – | 1 | – |
| Unknown | 1 | – | 1 | – | – | – | – | – | – | – |

– Quantity is zero.
1 Based on clinical estimate of gestation.

## TABLE 7-8. Early neonatal deaths[1] by weeks of gestation and weight, Oregon residents, birth cohort 2016

| Birthweight (in grams) | Total | Weeks of gestation[2] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | <20 | 20-23 | 24-27 | 28-31 | 32-35 | 36 | 37-39 | 40 | 41+ | N.S. |
| Total[3] ..... | 119 | 11 | 47 | 20 | 11 | 9 | 1 | 16 | 3 | – | 1 |
| 001-349 ..... | 21 | 11 | 10 | – | – | – | – | – | – | – | – |
| 350-499 ..... | 22 | – | 19 | 3 | – | – | – | – | – | – | – |
| <500 ..... | 43 | 11 | 29 | 3 | – | – | – | – | – | – | – |
| 500-749 ..... | 28 | – | 18 | 8 | 1 | 1 | – | – | – | – | – |
| 750-999 ..... | 7 | – | – | 6 | – | – | – | – | – | – | 1 |
| 1000-1249 ..... | 2 | – | – | – | 2 | – | – | – | – | – | – |
| 1250-1499 ..... | 4 | – | – | 1 | 1 | 2 | – | – | – | – | – |
| 1500-1999 ..... | 13 | – | – | 1 | 5 | 3 | – | 4 | – | – | – |
| 2000-2499 ..... | 3 | – | – | – | 2 | – | 1 | – | – | – | – |
| <2500 ..... | 100 | 11 | 47 | 19 | 11 | 6 | 1 | 4 | – | – | 1 |
| 2500+ ..... | 18 | – | – | – | – | 3 | – | 12 | 3 | – | – |
| 2500-2999 ..... | 5 | – | – | – | – | 1 | – | 4 | – | – | – |
| 3000-3499 ..... | 8 | – | – | – | – | 2 | – | 5 | 1 | – | – |
| 3500-3999 ..... | 4 | – | – | – | – | – | – | 3 | 1 | – | – |
| 4000-4499 ..... | – | – | – | – | – | – | – | – | – | – | – |
| 4500+ ..... | 1 | – | – | – | – | – | – | – | 1 | – | – |

– Quantity is zero.
1 Early neonatal deaths occur through day six after birth.
2 Clinical estimate of gestation. If clinical estimate is unknown, gestation is calculated from reported date of last menses.
3 Total includes reports with unknown weight.

## TABLE 7-9. Late neonatal deaths[1] by weeks of gestation and weight, Oregon residents, birth cohort 2016

| Birthweight (in grams) | Total | Weeks of gestation[2] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | <20 | 20-23 | 24-27 | 28-31 | 32-35 | 36 | 37-39 | 40 | 41+ |
| Total | 32 | – | 1 | 13 | 1 | 3 | 1 | 8 | 4 | 1 |
| 001-349 | – | – | – | – | – | – | – | – | – | – |
| 350-499 | – | – | – | – | – | – | – | – | – | – |
| <500 | – | – | – | – | – | – | – | – | – | – |
| 500-749 | 8 | – | 1 | 7 | – | – | – | – | – | – |
| 750-999 | 5 | – | – | 4 | 1 | – | – | – | – | – |
| 1000-1249 | 1 | – | – | 1 | – | – | – | – | – | – |
| 1250-1499 | – | – | – | – | – | – | – | – | – | – |
| 1500-1999 | 3 | – | – | – | – | 1 | 1 | – | 1 | – |
| 2000-2499 | 5 | – | – | 1 | – | 2 | – | 2 | – | – |
| <2500 | 22 | – | 1 | 13 | 1 | 3 | 1 | 2 | 1 | – |
| 2500+ | 10 | – | – | – | – | – | – | 6 | 3 | 1 |
| 2500-2999 | 3 | – | – | – | – | – | – | 2 | 1 | – |
| 3000-3499 | 5 | – | – | – | – | – | – | 4 | 1 | – |
| 3500-3999 | 2 | – | – | – | – | – | – | – | 1 | 1 |
| 4000-4499 | – | – | – | – | – | – | – | – | – | – |
| 4500+ | – | – | – | – | – | – | – | – | – | – |

– Quantity is zero.
1 Late neonatal deaths occur from day seven through 27 after birth.
2 Clinical estimate of gestation. If clinical estimate is unknown, gestation is calculated from reported date of last menses.

## TABLE 7-10. Postneonatal deaths[1] by weeks of gestation and weight, Oregon residents, birth cohort 2016

| Birthweight (in grams) | Total | Weeks of gestation[2] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | <20 | 20-23 | 24-27 | 28-31 | 32-35 | 36 | 37-39 | 40 | 41+ |
| Total | 65 | – | 3 | 3 | 2 | 9 | 2 | 30 | 8 | 8 |
| 001-349 | – | – | – | – | – | – | – | – | – | – |
| 350-499 | – | – | – | – | – | – | – | – | – | – |
| <500 | – | – | – | – | – | – | – | – | – | – |
| 500-749 | 6 | – | 3 | 2 | 1 | – | – | – | – | – |
| 750-999 | 1 | – | – | 1 | – | – | – | – | – | – |
| 1000-1249 | – | – | – | – | – | – | – | – | – | – |
| 1250-1499 | – | – | – | – | – | – | – | – | – | – |
| 1500-1999 | 7 | – | – | – | 1 | 5 | 1 | – | – | – |
| 2000-2499 | 7 | – | – | – | – | 1 | – | 6 | – | – |
| <2500 | 21 | – | 3 | 3 | 2 | 6 | 1 | 6 | – | – |
| 2500+ | 44 | – | – | – | – | 3 | 1 | 24 | 8 | 8 |
| 2500-2999 | 12 | – | – | – | – | 3 | – | 5 | 2 | 2 |
| 3000-3499 | 25 | – | – | – | – | – | 1 | 15 | 5 | 4 |
| 3500-3999 | 3 | – | – | – | – | – | – | 2 | – | 1 |
| 4000-4499 | 3 | – | – | – | – | – | – | 2 | 1 | – |
| 4500+ | 1 | – | – | – | – | – | – | – | – | 1 |

– Quantity is zero.
1 Postneonatal deaths occur from day 28 through 364 after birth.
2 Clinical estimate of gestation. If clinical estimate is unknown, gestation is calculated from reported date of last menses.

## TABLE 7-11. Neonatal deaths by birthweight, Oregon residents, birth cohort 2016

| Birthweight (in grams) | Deaths | Rate[1] |
|---|---|---|
| Total[2] | 151 | 3.3 |
| 001-349 | 21 | 954.5 |
| 350-499 | 22 | 956.5 |
| <500 | 43 | 955.6 |
| 500-749 | 36 | 444.4 |
| 750-999 | 12 | 142.9 |
| 1000-1249 | 3 | * |
| 1250-1499 | 4 | * |
| 1500-1999 | 16 | 25.7 |
| 2000-2499 | 8 | 4.2 |
| <2500 | 122 | 40.9 |
| 2500+ | 28 | 0.7 |
| 2500-2999 | 8 | 1.1 |
| 3000-3499 | 13 | 0.8 |
| 3500-3999 | 6 | 0.4 |
| 4000-4499 | – | – |
| 4500+ | 1 | * |

– Quantity is zero.
1 Rate per 1,000 live births.
2 Total includes reports with unknown birthweight.
* Rates are not calculated when there are fewer than five deaths in a category.

## TABLE 7-12. Neonatal deaths by birthweight, Oregon residents, birth cohort 2014-2016

| Birthweight (in grams) | Deaths | Rate[1] |
|---|---|---|
| Total[2] | 459 | 3.4 |
| 001-349 | 68 | 985.5 |
| 350-499 | 75 | 914.6 |
| <500 | 143 | 947.0 |
| 500-749 | 113 | 511.3 |
| 750-999 | 38 | 141.3 |
| 1000-1249 | 11 | 36.5 |
| 1250-1499 | 13 | 30.7 |
| 1500-1999 | 33 | 19.2 |
| 2000-2499 | 23 | 4.1 |
| <2500 | 374 | 42.7 |
| 2500+ | 80 | 0.6 |
| 2500-2999 | 27 | 1.3 |
| 3000-3499 | 33 | 0.6 |
| 3500-3999 | 15 | 0.4 |
| 4000-4499 | 4 | * |
| 4500+ | 1 | * |

1 Rate per 1,000 live births.
2 Total includes reports with unknown birthweight.
* Rates are not calculated when there are fewer than five deaths in a category.

## TABLE 7-13. Perinatal death rates by county of residence, Oregon residents, birth cohort 2016

| County of residence | Perinatal I[1] | | | Perinatal II[2] | | | Neonatal[3] | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate | Ratio | No. | Rate | Ratio | No. | Rate |
| Total | 225 | 4.9 | 4.9 | 331 | 7.2 | 7.3 | 151 | 3.3 |
| Baker | – | – | – | 4 | * | * | 2 | * |
| Benton | 2 | * | * | 3 | * | * | 1 | * |
| Clackamas | 16 | 3.8 | 3.8 | 25 | 5.9 | 5.9 | 12 | 2.8 |
| Clatsop | 2 | * | * | 4 | * | * | 2 | * |
| Columbia | 1 | * | * | 2 | * | * | 1 | * |
| Coos | 5 | 7.9 | 8.0 | 6 | 9.5 | 9.6 | 1 | * |
| Crook | 4 | * | * | 5 | 20.7 | 21.0 | 2 | * |
| Curry | 1 | * | * | 2 | * | * | 1 | * |
| Deschutes | 6 | 3.3 | 3.3 | 11 | 6.1 | 6.1 | 3 | * |
| Douglas | 5 | 4.6 | 4.6 | 9 | 8.2 | 8.3 | 3 | * |
| Gilliam | – | – | – | – | – | – | – | – |
| Grant | 1 | * | * | 1 | * | * | – | – |
| Harney | – | – | – | – | – | – | – | – |
| Hood River | 1 | * | * | 2 | * | * | 1 | * |
| Jackson | 9 | 3.9 | 3.9 | 17 | 7.4 | 7.4 | 9 | 3.9 |
| Jefferson | 2 | * | * | 3 | * | * | 1 | * |
| Josephine | 4 | * | * | 5 | 5.7 | 5.7 | 1 | * |
| Klamath | 3 | * | * | 6 | 7.3 | 7.3 | 3 | * |
| Lake | – | – | – | – | – | – | – | – |
| Lane | 16 | 4.5 | 4.5 | 24 | 6.7 | 6.8 | 11 | 3.1 |
| Lincoln | 2 | * | * | 2 | * | * | 2 | * |
| Linn | 10 | 6.6 | 6.6 | 13 | 8.5 | 8.5 | 7 | 4.6 |
| Malheur | 2 | * | * | 5 | 10.7 | 10.8 | 1 | * |
| Marion | 29 | 6.4 | 6.4 | 35 | 7.7 | 7.7 | 17 | 3.8 |
| Morrow | 2 | * | * | 2 | * | * | 1 | * |
| Multnomah | 38 | 4.2 | 4.2 | 59 | 6.5 | 6.5 | 27 | 3.0 |
| Polk | 10 | 10.2 | 10.3 | 11 | 11.2 | 11.3 | 8 | 8.2 |
| Sherman | 1 | * | * | 1 | * | * | 1 | * |
| Tillamook | 2 | * | * | 4 | * | * | 1 | * |
| Umatilla | 4 | * | * | 7 | 7.3 | 7.4 | 3 | * |
| Union | 3 | * | * | 3 | * | * | 3 | * |
| Wallowa | – | – | – | – | – | – | – | – |
| Wasco | 2 | * | * | 3 | * | * | 3 | * |
| Washington | 35 | 5.0 | 5.0 | 47 | 6.7 | 6.7 | 19 | 2.7 |
| Wheeler | – | – | – | 1 | * | * | – | – |
| Yamhill | 7 | 6.0 | 6.0 | 9 | 7.7 | 7.8 | 4 | * |

– Quantity is zero.
1 Perinatal definition I includes fetal deaths at 28 weeks of gestation or more and infant deaths of less than 7 days.
2 Perinatal definition II includes fetal deaths at 20 weeks of gestation or more and infant deaths of less than 28 days.
3 Neonatal deaths include infant deaths of less than 28 days.
* Rates are not calculated when there are fewer than five deaths in a category.
NOTE: Perinatal I and perinatal II ratios and neonatal rates are per 1,000 births. Perinatal I rates include all live births and fetal deaths at 28 weeks gestation or more. Perinatal II rates include all live births and fetal deaths at 20 weeks of gestation or more.

## TABLE 7-14. Perinatal death rates by county of residence, Oregon residents, birth cohort 2014-2016

| County of residence | Perinatal I[1] | | | Perinatal II[2] | | | Neonatal[3] | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate | Ratio | No. | Rate | Ratio | No. | Rate |
| Total[4] | 721 | 5.3 | 5.3 | 1,010 | 7.4 | 7.4 | 459 | 3.4 |
| Baker | 2 | * | * | 6 | 12.7 | 12.8 | 2 | * |
| Benton | 13 | 5.8 | 5.8 | 18 | 8.0 | 8.0 | 6 | 2.7 |
| Clackamas | 54 | 4.3 | 4.3 | 78 | 6.2 | 6.2 | 38 | 3.0 |
| Clatsop | 8 | 6.4 | 6.4 | 12 | 9.6 | 9.6 | 7 | 5.6 |
| Columbia | 8 | 5.2 | 5.2 | 10 | 6.4 | 6.5 | 5 | 3.2 |
| Coos | 6 | 3.2 | 3.2 | 12 | 6.4 | 6.4 | 3 | * |
| Crook | 7 | 10.3 | 10.4 | 9 | 13.2 | 13.3 | 4 | * |
| Curry | 2 | * | * | 3 | * | * | 1 | * |
| Deschutes | 24 | 4.5 | 4.5 | 33 | 6.1 | 6.2 | 14 | 2.6 |
| Douglas | 20 | 6.1 | 6.1 | 30 | 9.1 | 9.1 | 13 | 3.9 |
| Gilliam | – | – | – | – | – | – | – | – |
| Grant | 1 | * | * | 1 | * | * | – | – |
| Harney | 2 | * | * | 2 | * | * | 2 | * |
| Hood River | 1 | * | * | 2 | * | * | 1 | * |
| Jackson | 38 | 5.4 | 5.4 | 53 | 7.5 | 7.6 | 24 | 3.4 |
| Jefferson | 4 | * | * | 8 | 9.4 | 9.5 | 3 | * |
| Josephine | 22 | 8.4 | 8.5 | 31 | 11.8 | 11.9 | 11 | 4.2 |
| Klamath | 8 | 3.3 | 3.3 | 14 | 5.7 | 5.8 | 5 | 2.1 |
| Lake | – | – | – | – | – | – | – | – |
| Lane | 51 | 4.7 | 4.7 | 72 | 6.6 | 6.6 | 36 | 3.3 |
| Lincoln | 8 | 6.2 | 6.2 | 10 | 7.7 | 7.7 | 6 | 4.6 |
| Linn | 22 | 4.9 | 4.9 | 34 | 7.6 | 7.6 | 13 | 2.9 |
| Malheur | 5 | 3.9 | 3.9 | 10 | 7.8 | 7.8 | 2 | * |
| Marion | 81 | 6.1 | 6.1 | 104 | 7.8 | 7.8 | 45 | 3.4 |
| Morrow | 3 | * | * | 3 | * | * | 1 | * |
| Multnomah | 146 | 5.2 | 5.3 | 204 | 7.3 | 7.3 | 104 | 3.7 |
| Polk | 21 | 7.8 | 7.8 | 26 | 9.6 | 9.7 | 17 | 6.3 |
| Sherman | 1 | * | * | 1 | * | * | 1 | * |
| Tillamook | 8 | 10.5 | 10.5 | 12 | 15.6 | 15.8 | 5 | 6.6 |
| Umatilla | 10 | 3.3 | 3.3 | 15 | 5.0 | 5.0 | 6 | 2.0 |
| Union | 10 | 11.1 | 11.1 | 10 | 11.1 | 11.1 | 8 | 8.9 |
| Wallowa | – | – | – | 1 | * | * | 1 | * |
| Wasco | 4 | * | * | 5 | 5.1 | 5.1 | 4 | * |
| Washington | 109 | 5.2 | 5.2 | 148 | 7.0 | 7.0 | 60 | 2.9 |
| Wheeler | – | – | – | 1 | * | * | – | – |
| Yamhill | 22 | 6.4 | 6.4 | 31 | 9.0 | 9.0 | 11 | 3.2 |

– Quantity is zero.
1 Perinatal definition I includes fetal deaths at 28 weeks of gestation or more and infant deaths of less than 7 days.
2 Perinatal definition II includes fetal deaths at 20 weeks of gestation or more and infant deaths of less than 28 days.
3 Neonatal deaths include infant deaths of less than 28 days.
4 Total includes reports with unknown county of residence.
* Rates are not calculated when there are fewer than five deaths in a category.

NOTE: Perinatal I and perinatal II ratios and neonatal rates are per 1,000 births. Perinatal I rates include all live births and fetal deaths at 28 weeks gestation or more. Perinatal II rates include all live births and fetal deaths at 20 weeks of gestation or more.

## TABLE 7-15. Perinatal death rates by maternal characteristics, Oregon residents, birth cohort 2016

| Selected maternal characteristics | Perinatal I[1] | | | Perinatal II[2] | | | Neonatal[3] | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate | Ratio | No. | Rate | Ratio | No. | Rate |
| **Total**[4] | 225 | 4.9 | 4.9 | 331 | 7.2 | 7.3 | 151 | 3.3 |
| **Marital status** | | | | | | | | |
| Married | 111 | 3.8 | 3.8 | 170 | 5.8 | 5.8 | 73 | 2.5 |
| Unmarried | 112 | 6.9 | 6.9 | 157 | 9.6 | 9.7 | 76 | 4.7 |
| **Age of mother** | | | | | | | | |
| 10-14 | – | – | – | – | – | – | – | – |
| 15-19 | 9 | 4.5 | 4.5 | 20 | 9.9 | 10.0 | 8 | 4.0 |
| 20-24 | 41 | 4.9 | 4.9 | 62 | 7.4 | 7.4 | 34 | 4.1 |
| 25-29 | 62 | 4.6 | 4.6 | 89 | 6.6 | 6.6 | 38 | 2.8 |
| 30-34 | 56 | 4.2 | 4.2 | 85 | 6.4 | 6.4 | 38 | 2.9 |
| 35-39 | 44 | 6.3 | 6.4 | 57 | 8.2 | 8.2 | 24 | 3.5 |
| 40-44 | 12 | 8.1 | 8.2 | 15 | 10.2 | 10.2 | 7 | 4.8 |
| 45+ | 1 | * | * | 3 | * | * | 2 | * |
| **Non-Hispanic race** | | | | | | | | |
| White | 143 | 4.6 | 4.6 | 208 | 6.7 | 6.7 | 99 | 3.2 |
| Black | 6 | 6.3 | 6.3 | 14 | 14.7 | 14.8 | 5 | 5.3 |
| American Indian | 4 | * | * | 5 | 11.4 | 11.5 | 1 | * |
| Asian[5] | 13 | 5.5 | 5.5 | 19 | 8.0 | 8.1 | 6 | 2.5 |
| Pacific Islander[6] | 4 | * | * | 4 | * | * | – | – |
| Other & not stated | 6 | 30.6 | 30.9 | 9 | 45.7 | 46.4 | 6 | 30.9 |
| Multiple races | 4 | * | * | 7 | 4.1 | 4.1 | 4 | * |
| **Total Hispanic** | 45 | 5.3 | 5.3 | 65 | 7.7 | 7.7 | 30 | 3.5 |
| **Education** | | | | | | | | |
| 8th grade or less | 6 | 4.6 | 4.6 | 8 | 6.1 | 6.1 | 4 | * |
| 9th-12th grade, no diploma | 35 | 7.5 | 7.6 | 50 | 10.7 | 10.8 | 20 | 4.3 |
| High school/GED | 59 | 5.9 | 6.0 | 81 | 8.1 | 8.2 | 38 | 3.8 |
| More than high school | 110 | 3.7 | 3.7 | 170 | 5.8 | 5.8 | 75 | 2.5 |
| **Start of prenatal care** | | | | | | | | |
| Any trimester | 196 | 4.4 | 4.4 | 285 | 6.4 | 6.4 | 129 | 2.9 |
| 1st trimester | 151 | 4.2 | 4.2 | 223 | 6.2 | 6.2 | 101 | 2.8 |
| 2nd trimester | 39 | 5.7 | 5.7 | 55 | 8.0 | 8.1 | 27 | 4.0 |
| 3rd trimester | 6 | 3.5 | 3.5 | 7 | 4.0 | 4.1 | 1 | * |
| No prenatal care | 19 | 48.2 | 49.2 | 30 | 74.8 | 77.7 | 15 | 38.9 |
| **Tobacco use** | | | | | | | | |
| Pre-pregnancy only | 8 | 7.1 | 7.2 | 13 | 11.6 | 11.7 | 3 | * |
| During pregnancy | 41 | 9.4 | 9.5 | 53 | 12.2 | 12.3 | 24 | 5.6 |
| No tobacco use | 173 | 4.3 | 4.3 | 259 | 6.5 | 6.5 | 121 | 3.0 |
| **Multiple birth** | | | | | | | | |
| Yes | 19 | 12.3 | 12.3 | 28 | 18.0 | 18.1 | 23 | 14.8 |
| No | 206 | 4.7 | 4.7 | 303 | 6.9 | 6.9 | 128 | 2.9 |

– Quantity is zero.
1 Perinatal definition I includes fetal deaths at 28 weeks gestation ormore and infant deaths of less than 7 days.
2 Perinatal definition II includes fetal deaths at 20 weeks gestation ormore and infant deaths of less than 28 days.
3 Neonatal deaths include infant deaths of less than 28 days.
4 Due to unreported items, the sum of all categories may not equal the total.
5 Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese and other Asian.
6 Includes Guamanian, Hawaiian, Samoan and other Pacific Islander.
* Rates are not calculated when there are fewer than five deaths in a category.
NOTE: Perinatal I and perinatal II ratios and neonatal rates are per 1,000 births. Perinatal I rates include all live births and fetal deaths at 28 weeks gestation or more. Perinatal II rates include all live births and fetal deaths at 20 weeks of gestation or more.

## TABLE 7-16. Perinatal death rates by maternal characteristics, Oregon residents, birth cohort 2014-2016

| Selected maternal characteristics | Perinatal I[1] | | | Perinatal II[2] | | | Neonatal[3] | |
|---|---|---|---|---|---|---|---|---|
| | No. | Rate | Ratio | No. | Rate | Ratio | No. | Rate |
| **Total**[4] | 721 | 5.3 | 5.3 | 1,010 | 7.4 | 7.4 | 459 | 3.4 |
| **Marital status** | | | | | | | | |
| Married | 397 | 4.5 | 4.5 | 550 | 6.3 | 6.3 | 247 | 2.8 |
| Unmarried | 320 | 6.5 | 6.5 | 449 | 9.1 | 9.2 | 207 | 4.2 |
| **Age of mother** | | | | | | | | |
| 10-14 | 2 | * | * | 2 | * | * | 2 | * |
| 15-19 | 46 | 6.9 | 6.9 | 71 | 10.6 | 10.6 | 35 | 5.2 |
| 20-24 | 125 | 4.7 | 4.7 | 183 | 6.9 | 6.9 | 85 | 3.2 |
| 25-29 | 193 | 4.8 | 4.8 | 264 | 6.6 | 6.6 | 119 | 3.0 |
| 30-34 | 184 | 4.7 | 4.7 | 253 | 6.4 | 6.4 | 113 | 2.9 |
| 35-39 | 121 | 6.1 | 6.1 | 169 | 8.5 | 8.5 | 73 | 3.7 |
| 40-44 | 45 | 10.8 | 10.8 | 55 | 13.2 | 13.2 | 28 | 6.7 |
| 45+ | 2 | * | * | 6 | 20.2 | 20.4 | 3 | * |
| **Non-Hispanic race** | | | | | | | | |
| White | 468 | 5.0 | 5.0 | 655 | 7.0 | 7.0 | 302 | 3.2 |
| Black | 29 | 9.9 | 9.9 | 44 | 14.9 | 15.1 | 22 | 7.5 |
| American Indian | 6 | 4.5 | 4.5 | 10 | 7.5 | 7.5 | 1 | * |
| Asian[5] | 41 | 6.0 | 6.0 | 54 | 7.9 | 7.9 | 17 | 2.5 |
| Pacific Islander[6] | 9 | 9.8 | 9.9 | 10 | 10.9 | 11.0 | 1 | * |
| Other & not stated | 10 | 20.2 | 20.2 | 14 | 28.2 | 28.3 | 11 | 22.3 |
| Multiple races | 24 | 4.5 | 4.5 | 36 | 6.8 | 6.8 | 17 | 3.2 |
| **Total Hispanic** | 134 | 5.2 | 5.3 | 187 | 7.3 | 7.3 | 88 | 3.5 |
| **Education** | | | | | | | | |
| 8th grade or less | 28 | 6.7 | 6.7 | 35 | 8.3 | 8.4 | 15 | 3.6 |
| 9th-12th grade, no diploma | 91 | 6.2 | 6.2 | 132 | 9.0 | 9.1 | 57 | 3.9 |
| High school/GED | 186 | 6.2 | 6.2 | 253 | 8.4 | 8.4 | 121 | 4.0 |
| More than high school | 362 | 4.1 | 4.1 | 516 | 5.9 | 5.9 | 234 | 2.7 |
| **Start of prenatal care** | | | | | | | | |
| Any trimester | 635 | 4.8 | 4.8 | 876 | 6.6 | 6.6 | 391 | 3.0 |
| 1st trimester | 494 | 4.7 | 4.7 | 690 | 6.5 | 6.5 | 318 | 3.0 |
| 2nd trimester | 118 | 5.4 | 5.4 | 161 | 7.3 | 7.3 | 69 | 3.1 |
| 3rd trimester | 23 | 4.4 | 4.5 | 25 | 4.8 | 4.8 | 4 | * |
| No prenatal care | 43 | 40.2 | 40.8 | 68 | 62.6 | 64.5 | 35 | 33.2 |
| **Tobacco use** | | | | | | | | |
| Pre-pregnancy only | 22 | 6.5 | 6.5 | 34 | 10.0 | 10.1 | 12 | 3.5 |
| During pregnancy | 112 | 8.2 | 8.3 | 156 | 11.5 | 11.5 | 65 | 4.8 |
| No tobacco use | 575 | 4.8 | 4.8 | 804 | 6.7 | 6.7 | 370 | 3.1 |
| **Multiple birth** | | | | | | | | |
| Yes | 85 | 17.9 | 17.9 | 113 | 23.7 | 23.8 | 88 | 18.6 |
| No | 636 | 4.8 | 4.8 | 895 | 6.8 | 6.8 | 371 | 2.8 |

– Quantity is zero.
1 Perinatal Definition I includes fetal deaths at 28 weeks gestation or more and infant deaths of less than seven days.
2 Perinatal Definition II includes fetal deaths at 20 weeks gestation or more and infant deaths of less than 28 days.
3 Neonatal deaths include infant deaths of less than 28 days.
4 Due to unreported items, the sum of all categories may not equal the total.
5 Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese and other Asian.
6 Includes Guamanian, Hawaiian, Samoan and other Pacific Islander.
* Rates are not calculated when there are fewer than five deaths in a category.
NOTE: Perinatal I and perinatal II ratios and neonatal rates are per 1,000 births. Perinatal I rates include all live births and fetal deaths at 28 weeks gestation or more. Perinatal II rates include all live births and fetal deaths at 20 weeks gestation or more.

## TABLE 7-17. Neonatal, postneonatal, and infant death rates by maternal characteristics, Oregon residents, birth cohort 2016

| Selected maternal characteristics | Neonatal[1] | | Postneonatal[2] | | Infant[3] | |
|---|---|---|---|---|---|---|
| | No. | Rate | No. | Rate | No. | Rate |
| **Total**[4] | 151 | 3.3 | 65 | 1.4 | 216 | 4.7 |
| **Marital status** | | | | | | |
| Married | 73 | 2.5 | 29 | 1.0 | 102 | 3.5 |
| Unmarried | 76 | 4.7 | 36 | 2.2 | 112 | 6.9 |
| **Age of mother** | | | | | | |
| 10-14 | – | – | – | – | – | – |
| 15-19 | 8 | 4.0 | 2 | * | 10 | 5.0 |
| 20-24 | 34 | 4.1 | 17 | 2.0 | 51 | 6.1 |
| 25-29 | 38 | 2.8 | 19 | 1.4 | 57 | 4.3 |
| 30-34 | 38 | 2.9 | 13 | 1.0 | 51 | 3.8 |
| 35-39 | 24 | 3.5 | 12 | 1.7 | 36 | 5.2 |
| 40-44 | 7 | 4.8 | 2 | * | 9 | 6.1 |
| 45+ | 2 | * | – | – | 2 | * |
| **Non-Hispanic race** | | | | | | |
| White | 99 | 3.2 | 42 | 1.3 | 141 | 4.5 |
| Black | 5 | 5.3 | 3 | * | 8 | 8.5 |
| American Indian | 1 | * | – | – | 1 | * |
| Asian[5] | 6 | 2.5 | 2 | * | 8 | 3.4 |
| Pacific Islander[6] | – | – | 2 | * | 2 | * |
| Other & not stated | 6 | 30.9 | – | – | 6 | 30.9 |
| Multiple races | 4 | * | 2 | * | 6 | 3.5 |
| **Total Hispanic** | 30 | 3.5 | 14 | 1.7 | 44 | 5.2 |
| **Education** | | | | | | |
| 8th grade or less | 4 | * | – | – | 4 | * |
| 9th-12th grade, no diploma | 20 | 4.3 | 8 | 1.7 | 28 | 6.1 |
| High school/GED | 38 | 3.8 | 25 | 2.5 | 63 | 6.4 |
| More than high school | 75 | 2.5 | 32 | 1.1 | 107 | 3.6 |
| **Start of prenatal care** | | | | | | |
| Any trimester | 129 | 2.9 | 60 | 1.4 | 189 | 4.3 |
| 1st trimester | 101 | 2.8 | 46 | 1.3 | 147 | 4.1 |
| 2nd trimester | 27 | 4.0 | 8 | 1.2 | 35 | 5.1 |
| 3rd trimester | 1 | * | 6 | 3.5 | 7 | 4.1 |
| No prenatal care | 15 | 38.9 | 1 | * | 16 | 41.5 |
| **Tobacco use** | | | | | | |
| Pre-pregnancy only | 3 | * | 6 | 5.4 | 9 | 8.1 |
| During pregnancy | 24 | 5.6 | 15 | 3.5 | 39 | 9.0 |
| No tobacco use | 121 | 3.0 | 44 | 1.1 | 165 | 4.1 |
| **Multiple birth** | | | | | | |
| Yes | 23 | 14.8 | 4 | * | 27 | 17.4 |
| No | 128 | 2.9 | 61 | 1.4 | 189 | 4.3 |

– Quantity is zero.
1 Neonatal deaths include infant deaths of less than 28 days.
2 Postneonatal deaths occur from day 28 through 364 after birth.
3 Infant deaths occur in the first year of life.
4 Due to unreported items, the sum of all categories may not equal the total.
5 Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese and other Asian.
6 Includes Guamanian, Hawaiian, Samoan and other Pacific Islander.
* Rates are not calculated when there are fewer than five deaths in a category.
NOTE: All rates per 1,000 live births.

## TABLE 7-18. Neonatal, postneonatal, and infant death rates by maternal characteristics, Oregon residents, birth cohort 2014-2016

| Selected maternal characteristics | Neonatal[1] | | Postneonatal[2] | | Infant[3] | |
|---|---|---|---|---|---|---|
| | No. | Rate | No. | Rate | No. | Rate |
| **Total**[4] | 459 | 3.4 | 208 | 1.5 | 667 | 4.9 |
| **Marital status** | | | | | | |
| Married | 247 | 2.8 | 95 | 1.1 | 342 | 3.9 |
| Unmarried | 207 | 4.2 | 111 | 2.3 | 318 | 6.5 |
| **Age of mother** | | | | | | |
| 10-14 | 2 | * | 1 | * | 3 | * |
| 15-19 | 35 | 5.2 | 16 | 2.4 | 51 | 7.6 |
| 20-24 | 85 | 3.2 | 60 | 2.3 | 145 | 5.5 |
| 25-29 | 119 | 3.0 | 62 | 1.6 | 181 | 4.5 |
| 30-34 | 113 | 2.9 | 36 | 0.9 | 149 | 3.8 |
| 35-39 | 73 | 3.7 | 26 | 1.3 | 99 | 5.0 |
| 40-44 | 28 | 6.7 | 6 | 1.4 | 34 | 8.2 |
| 45+ | 3 | * | 1 | * | 4 | * |
| **Non-Hispanic race** | | | | | | |
| White | 302 | 3.2 | 139 | 1.5 | 441 | 4.7 |
| Black | 22 | 7.5 | 9 | 3.1 | 31 | 10.6 |
| American Indian | 1 | * | 2 | * | 3 | * |
| Asian[5] | 17 | 2.5 | 11 | 1.6 | 28 | 4.1 |
| Pacific Islander[6] | 1 | * | 3 | * | 4 | * |
| Other & not stated | 11 | 22.3 | 1 | * | 12 | 24.3 |
| Multiple races | 17 | 3.2 | 11 | 2.1 | 28 | 5.3 |
| **Total Hispanic** | 88 | 3.5 | 32 | 1.3 | 120 | 4.7 |
| **Education** | | | | | | |
| 8th grade or less | 15 | 3.6 | 4 | * | 19 | 4.5 |
| 9th-12th grade, no diploma | 57 | 3.9 | 28 | 1.9 | 85 | 5.8 |
| High school/GED | 121 | 4.0 | 76 | 2.5 | 197 | 6.6 |
| More than high school | 234 | 2.7 | 99 | 1.1 | 333 | 3.8 |
| **Start of prenatal care** | | | | | | |
| Any trimester | 391 | 3.0 | 187 | 1.4 | 578 | 4.4 |
| 1st trimester | 318 | 3.0 | 133 | 1.3 | 451 | 4.3 |
| 2nd trimester | 69 | 3.1 | 40 | 1.8 | 109 | 5.0 |
| 3rd trimester | 4 | * | 14 | 2.7 | 18 | 3.5 |
| No prenatal care | 35 | 33.2 | 6 | 5.7 | 41 | 38.9 |
| **Tobacco use** | | | | | | |
| Pre-pregnancy only | 12 | 3.5 | 16 | 4.7 | 28 | 8.3 |
| During pregnancy | 65 | 4.8 | 55 | 4.1 | 120 | 8.9 |
| No tobacco use | 370 | 3.1 | 136 | 1.1 | 506 | 4.2 |
| **Multiple birth** | | | | | | |
| Yes | 88 | 18.6 | 20 | 4.2 | 108 | 22.8 |
| No | 371 | 2.8 | 188 | 1.4 | 559 | 4.2 |

– Quantity is zero.
1 Neonatal deaths include infant deaths of less than 28 days.
2 Postneonatal deaths occur from day 28 through 364 after birth.
3 Infant deaths occur in the first year of life.
4 Due to unreported items, the sum of all categories may not equal the total.
5 Includes Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese and other Asian.
6 Includes Guamanian, Hawaiian, Samoan and other Pacific Islander.
* Rates are not calculated when there are fewer than five deaths in a category.
NOTE: All rates per 1,000 live births.

## TABLE 7-19. Term fetal deaths[1] by planned attendant and planned place of birth, Oregon occurrence, 2017

| Planned birth attendant | **Total term fetal deaths**[2] | Planned hospital birth[3] | Planned out-of-hospital birth | | |
|---|---|---|---|---|---|
| | | | Total | Intrapartum transfer to hospital[4] | Non-hospital delivery[5] |
| Total | 52 | 48 | 1 | – | 1 |
| MD's and DO's | 46 | 45 | – | – | – |
| Certified nurse midwives | 3 | 3 | – | – | – |
| Licensed direct-entry midwives | – | – | – | – | – |
| Unlicensed direct-entry midwives | – | – | – | – | – |
| Naturopathic physicians | – | – | – | – | – |
| Other | 3 | – | 1 | – | 1 |

– Quantity is zero.
1 Term fetal deaths include fetal deaths with gestation of 37 weeks or more.
2 Total includes three fetal deaths that occurred en route, were unplanned home deliveries, or were out-of-hospital deliveries not otherwise classified.
3 For planned hospital births, actual attendant type is used.
4 For planned out-of-hospital births with intrapartum transfer to hospitals, planned attendant type is reported by mother and not verified.
5 For planned out-of-hospital births with non-hospital deliveries, the actual attendant type is used.

## TABLE 7-20. Term early neonatal deaths[1] by planned attendant and planned place of birth, Oregon occurrence, preliminary 2017 birth cohort

| Planned birth attendant | **Total term early neonatal deaths** | Planned hospital birth[2] | Planned out-of-hospital birth | | |
|---|---|---|---|---|---|
| | | | Total | Intrapartum transfer to hospital[3] | Non-hospital delivery[4] |
| Total | 20 | 18 | 2 | – | 2 |
| MD's and DO's | 18 | 18 | – | – | – |
| Certified nurse midwives | – | – | – | – | – |
| Licensed direct-entry midwives | 2 | – | 2 | – | 2 |
| Unlicensed direct-entry midwives | – | – | – | – | – |
| Naturopathic physicians | – | – | – | – | – |
| Other | – | – | – | – | – |

– Quantity is zero.
1 Term early neonatal deaths include infant deaths of less than seven days and with gestation of 37 weeks or more.
2 For planned hospital births, actual attendant type is used.
3 For planned out-of-hospital births with intrapartum transfer to hospitals, planned attendant type is reported by mother and not verified.
4 For planned out-of-hospital births with non-hospital deliveries, the actual attendant type is used.
NOTE: The 2017 birth cohort may include infant deaths that occurred in 2017 or 2018. Data for 2018 are undergoing editing processes and are subject to change.

## Table 7-21: Fetal deaths by maternal characteristics by planned place of birth, Oregon occurrence, 2015-2017

| Selected maternal characteristics | Total[1] | Planned hospital birth | | | Planned out-of-hospital birth | | |
|---|---|---|---|---|---|---|---|
| | | Clinical estimate of gestation | | | | | |
| | | <37 | 37-40 | 41+ | <37 | 37-40 | 41+ |
| **Total fetal deaths** | 570 | 414 | 123 | 12 | 3 | 2 | – |
| **Mother's age** | | | | | | | |
| <20 | 32 | 23 | 7 | – | 1 | – | – |
| 20-24 | 111 | 91 | 14 | 2 | – | – | – |
| 25-29 | 145 | 94 | 40 | 4 | – | 1 | – |
| 30-34 | 152 | 113 | 33 | 2 | 2 | 1 | – |
| 35-39 | 99 | 75 | 20 | 3 | – | – | – |
| 40+ | 28 | 18 | 9 | 1 | – | – | – |
| **Single mention race**[2] | | | | | | | |
| White | 346 | 249 | 78 | 10 | 2 | 1 | – |
| African American | 26 | 21 | 4 | – | – | – | – |
| American Indian | 13 | 6 | 4 | – | 1 | – | – |
| Asian/Hawaiian/Pacific Islander | 43 | 30 | 12 | – | – | – | – |
| Other/multiple races | 31 | 22 | 5 | – | – | 1 | – |
| Hispanic | 111 | 86 | 20 | 2 | – | – | – |
| **Marital status** | | | | | | | |
| Married | 319 | 236 | 73 | 3 | 1 | 2 | – |
| Unmarried | 247 | 176 | 50 | 8 | 2 | – | – |
| **Mother's education** | | | | | | | |
| 8th grade or less | 16 | 12 | 3 | 1 | – | – | – |
| 9th-12th, no diploma | 78 | 56 | 17 | 1 | 1 | – | – |
| High school/GED | 150 | 109 | 32 | 4 | 1 | – | – |
| Some college | 137 | 105 | 28 | 1 | 1 | – | – |
| Associate degree | 36 | 28 | 7 | – | – | – | – |
| Bachelor's degree | 73 | 47 | 20 | 4 | – | 1 | – |
| Postbaccalaureate | 46 | 37 | 9 | – | – | – | – |
| **Pre-pregnancy body mass index** | | | | | | | |
| Underweight (< 18.5) | 9 | 7 | 1 | – | – | – | – |
| Normal (18.5 - 24.9) | 218 | 159 | 51 | 5 | 1 | – | – |
| Overweight (25.0 - 29.9) | 120 | 88 | 28 | 2 | 2 | – | – |
| Obese (> 30.0) | 174 | 129 | 36 | 3 | – | 1 | – |
| **Maternal tobacco use** | | | | | | | |
| Tobacco use | 94 | 69 | 23 | – | – | – | – |
| No tobacco use | 468 | 341 | 100 | 12 | 3 | 2 | – |
| **Initiation of care** | | | | | | | |
| 1st trimester | 388 | 293 | 79 | 7 | 2 | – | – |
| 2nd trimester | 104 | 68 | 33 | 2 | – | 1 | – |
| 3rd trimester | 16 | 7 | 7 | 2 | – | – | – |
| No care | 46 | 32 | 4 | 1 | 1 | 1 | – |
| **Multiple birth** | | | | | | | |
| Yes | 25 | 22 | 2 | – | – | – | – |
| No | 545 | 392 | 121 | 12 | 3 | 2 | – |

– Quantity is zero.
1 Total includes 14 fetal deaths that occurred en route, were unplanned home deliveries, or other out-of-hospital births not otherwise classified. Total also includes two fetal deaths with unknown gestation.
2 Non-Hispanic single mention race. The Hispanic category may include any mention of race.
NOTE: Numbers within each maternal characteristic may not add up to total fetal death counts due to unknown responses.

## Table 7-22: Early neonatal deaths by maternal characteristics by planned place of birth, Oregon occurrence, preliminary 2015-2017 birth cohort

| Selected maternal characteristics | Total | Planned hospital birth | | | Planned out-of-hospital birth | | |
|---|---|---|---|---|---|---|---|
| | | Clinical estimate of gestation | | | | | |
| | | <37 | 37-40 | 41+ | <37 | 37-40 | 41+ |
| **Total early neonatal deaths**[1] | 391 | 317 | 53 | 2 | 3 | 5 | – |
| **Mother's age** | | | | | | | |
| <20 | 21 | 15 | 5 | – | 1 | – | – |
| 20-24 | 70 | 62 | 5 | – | 1 | 1 | – |
| 25-29 | 115 | 93 | 17 | 1 | 1 | 1 | – |
| 30-34 | 97 | 82 | 10 | 1 | – | 1 | – |
| 35-39 | 66 | 51 | 12 | – | – | 2 | – |
| 40+ | 22 | 14 | 4 | – | – | – | – |
| **Single mention race**[2] | | | | | | | |
| White | 248 | 204 | 31 | 2 | 1 | 4 | – |
| African American | 18 | 14 | 2 | – | – | – | – |
| American Indian | 5 | 4 | 1 | – | – | – | – |
| Asian/Hawaiian/Pacific Islander | 22 | 21 | 1 | – | – | – | – |
| Other/multiple races | 25 | 16 | 7 | – | – | – | – |
| Hispanic | 73 | 58 | 11 | – | 2 | 1 | – |
| **Marital status** | | | | | | | |
| Married | 207 | 166 | 31 | 2 | 2 | 3 | – |
| Unmarried | 184 | 151 | 22 | – | 1 | 2 | – |
| **Mother's education** | | | | | | | |
| 8th grade or less | 10 | 9 | 1 | – | – | – | – |
| 9th-12th, no diploma | 45 | 33 | 10 | – | 2 | – | – |
| High school/GED | 93 | 81 | 9 | – | 1 | – | – |
| Some college | 86 | 72 | 11 | – | – | – | – |
| Associate degree | 34 | 26 | 5 | 1 | – | – | – |
| Bachelor's degree | 58 | 44 | 7 | 1 | – | 5 | – |
| Postbaccalaureate | 37 | 29 | 8 | – | – | – | – |
| **Source of Payment**[3] | | | | | | | |
| Medicaid/Oregon Health Plan | 202 | 168 | 23 | 2 | 1 | 2 | – |
| Private insurance | 169 | 136 | 27 | – | 1 | 3 | – |
| Self-pay | 9 | 6 | 2 | – | – | – | – |
| Other coverage | 5 | 4 | 1 | – | – | – | – |
| **Birth order** | | | | | | | |
| 1st | 159 | 132 | 18 | 1 | 1 | 5 | – |
| 2nd | 111 | 90 | 15 | 1 | 1 | – | – |
| 3rd | 49 | 41 | 6 | – | 1 | – | – |
| 4th + | 72 | 54 | 14 | – | – | – | – |
| **Pre-pregnancy body mass index** | | | | | | | |
| Underweight (< 18.5) | 5 | 5 | – | – | – | – | – |
| Normal (18.5 - 24.9) | 145 | 109 | 28 | 2 | 1 | 3 | – |
| Overweight (25.0 - 29.9) | 87 | 72 | 12 | – | 2 | 1 | – |
| Obese (> 30.0) | 120 | 105 | 11 | – | – | 1 | – |
| **Maternal tobacco use** | | | | | | | |
| Tobacco use | 51 | 41 | 8 | – | – | – | – |
| No tobacco use | 328 | 268 | 44 | 2 | 3 | 5 | – |
| **Initiation of care** | | | | | | | |
| 1st trimester | 287 | 238 | 41 | 2 | 1 | 2 | – |
| 2nd trimester | 62 | 49 | 9 | – | 1 | 3 | – |
| 3rd trimester | 3 | 2 | 1 | – | – | – | – |
| No care | 25 | 16 | 2 | – | 1 | – | – |
| **Prenatal care**[4] | | | | | | | |
| Adequate | 237 | 181 | 48 | 2 | – | 5 | – |
| Inadequate | 138 | 123 | 4 | – | 3 | – | – |

– Quantity is zero.
1 Total includes eight births that occurred en route, were unplanned home deliveries, or other out-of-hospital births not otherwise classified. Total also includes four births with unknown gestation.
2 Non-Hispanic single mention race. The Hispanic category may include any mention of race.
3 Expected principal method of payment for delivery. Actual method of payment may differ.
4 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.

# APPENDIX A: POPULATION

## Table A-1. Population distribution by age and sex, Oregon, 1950-2000 (selected years), 2001-2017

| Year and sex | Total | Age groups | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75+ |
| 1950 | 1,521,341 | 163,915 | 131,596 | 108,140 | 96,738 | 105,070 | 117,706 | 116,800 | 117,361 | 105,575 | 93,228 | 86,118 | 77,843 | 68,230 | 54,455 | 37,095 | 41,471 |
| M | 772,776 | 83,614 | 67,244 | 55,528 | 47,652 | 51,469 | 57,940 | 57,930 | 59,391 | 54,452 | 48,574 | 44,802 | 40,426 | 36,027 | 28,498 | 19,085 | 20,144 |
| F | 748,565 | 80,301 | 64,352 | 52,612 | 49,086 | 53,601 | 59,766 | 58,870 | 57,970 | 51,123 | 44,654 | 41,316 | 37,417 | 32,203 | 25,957 | 18,010 | 21,327 |
| 1960 | 1,768,675 | 185,403 | 189,333 | 170,768 | 131,315 | 95,773 | 96,636 | 107,999 | 118,152 | 116,218 | 114,074 | 101,313 | 87,606 | 74,007 | 65,908 | 52,734 | 61,436 |
| M | 879,929 | 94,330 | 96,553 | 87,191 | 64,463 | 46,011 | 47,318 | 52,924 | 57,451 | 57,832 | 57,574 | 52,052 | 43,615 | 37,003 | 32,257 | 25,175 | 28,180 |
| F | 888,746 | 31,073 | 92,780 | 83,577 | 66,852 | 49,762 | 49,318 | 55,075 | 60,701 | 58,386 | 56,500 | 49,261 | 43,991 | 37,004 | 33,651 | 27,559 | 33,256 |
| 1970 | 2,091,385 | 164,060 | 194,345 | 211,284 | 203,362 | 162,638 | 138,978 | 115,599 | 107,832 | 117,950 | 124,395 | 118,996 | 110,739 | 94,408 | 75,601 | 60,321 | 90,877 |
| M | 1,023,952 | 83,836 | 99,274 | 107,664 | 100,952 | 75,549 | 68,827 | 57,764 | 52,738 | 57,790 | 60,407 | 58,563 | 54,576 | 45,809 | 35,886 | 26,956 | 37,361 |
| F | 1,067,433 | 80,224 | 95,071 | 103,620 | 102,410 | 87,089 | 70,151 | 57,835 | 55,094 | 60,160 | 63,988 | 60,433 | 56,163 | 48,599 | 39,715 | 33,365 | 53,516 |
| 1975 | 2,292,734 | 166,930 | 176,125 | 211,149 | 224,538 | 222,013 | 180,346 | 152,553 | 122,891 | 114,611 | 120,938 | 125,783 | 117,631 | 106,710 | 86,844 | 66,077 | 97,597 |
| M | 1,120,178 | 85,331 | 89,859 | 107,668 | 114,204 | 108,866 | 84,271 | 76,482 | 61,305 | 55,959 | 58,944 | 60,547 | 56,993 | 51,149 | 40,571 | 29,622 | 38,407 |
| F | 1,172,556 | 81,599 | 86,266 | 103,481 | 110,334 | 113,146 | 96,075 | 76,071 | 61,586 | 58,652 | 61,994 | 65,236 | 60,638 | 55,561 | 46,273 | 36,455 | 59,190 |
| 1980 | 2,632,663 | 197,951 | 189,293 | 202,546 | 225,814 | 237,788 | 253,472 | 227,565 | 170,694 | 133,101 | 119,249 | 124,344 | 129,886 | 117,676 | 105,165 | 79,367 | 118,752 |
| M | 1,296,355 | 101,815 | 96,965 | 103,594 | 114,690 | 117,800 | 126,867 | 115,071 | 86,047 | 67,073 | 58,948 | 60,356 | 62,001 | 56,031 | 49,287 | 35,404 | 44,406 |
| F | 1,336,308 | 96,136 | 92,328 | 98,952 | 111,124 | 119,988 | 126,605 | 112,494 | 84,647 | 66,028 | 60,301 | 63,988 | 67,885 | 61,645 | 55,878 | 43,963 | 74,346 |
| 1985 | 2,675,800 | 198,995 | 195,271 | 184,845 | 197,808 | 215,641 | 227,827 | 243,741 | 222,457 | 165,140 | 128,521 | 112,530 | 115,551 | 118,327 | 113,657 | 93,372 | 142,117 |
| M | 1,313,949 | 101,338 | 100,344 | 94,619 | 101,111 | 109,413 | 112,518 | 121,577 | 112,168 | 83,090 | 64,509 | 55,332 | 55,429 | 55,393 | 52,316 | 41,694 | 53,098 |
| F | 1,361,851 | 97,657 | 94,927 | 90,226 | 96,697 | 106,228 | 115,309 | 122,164 | 110,289 | 82,050 | 64,012 | 57,198 | 60,122 | 62,934 | 61,341 | 51,678 | 89,019 |
| 1990 | 2,847,000 | 203,678 | 205,765 | 199,955 | 190,781 | 199,581 | 221,902 | 233,898 | 249,986 | 223,597 | 166,333 | 128,276 | 112,111 | 112,679 | 120,405 | 99,641 | 178,413 |
| M | 1,396,242 | 104,769 | 106,052 | 102,738 | 97,540 | 101,520 | 112,129 | 115,287 | 124,674 | 112,602 | 83,400 | 63,928 | 54,393 | 52,976 | 54,892 | 43,473 | 65,870 |
| F | 1,450,758 | 98,909 | 99,713 | 97,217 | 93,241 | 98,061 | 109,773 | 118,611 | 125,312 | 110,995 | 82,933 | 64,348 | 57,718 | 59,703 | 65,513 | 56,168 | 112,543 |
| 1995 | 3,132,000 | 231,584 | 225,513 | 222,660 | 213,595 | 208,322 | 199,568 | 232,116 | 258,273 | 264,101 | 232,380 | 170,663 | 129,959 | 113,424 | 121,428 | 113,812 | 194,602 |
| M | 1,543,133 | 118,939 | 15,314 | 114,532 | 109,361 | 106,964 | 101,281 | 116,723 | 128,027 | 130,894 | 116,149 | 85,147 | 64,015 | 53,857 | 56,309 | 50,528 | 75,093 |
| F | 1,588,867 | 112,645 | 110,199 | 108,128 | 104,234 | 101,358 | 98,287 | 115,393 | 130,246 | 133,207 | 116,231 | 85,516 | 65,944 | 59,567 | 65,119 | 63,284 | 119,509 |
| 2000 | 3,421,399 | 223,005 | 234,474 | 242,098 | 244,427 | 230,406 | 233,850 | 236,845 | 255,751 | 270,823 | 271,315 | 235,840 | 173,008 | 131,380 | 112,614 | 106,728 | 218,835 |
| M | 1,696,550 | 114,006 | 120,115 | 124,235 | 125,429 | 118,100 | 121,031 | 122,237 | 129,083 | 134,072 | 134,761 | 117,417 | 85,369 | 64,218 | 53,193 | 48,510 | 84,774 |
| F | 1,724,849 | 108,999 | 114,359 | 117,863 | 118,998 | 112,306 | 112,819 | 114,608 | 126,668 | 136,751 | 136,554 | 118,423 | 87,639 | 67,162 | 59,421 | 58,218 | 134,061 |
| 2001 | 3,471,700 | 226,401 | 238,102 | 245,858 | 248,078 | 233,672 | 237,225 | 240,353 | 259,636 | 274,967 | 275,401 | 239,420 | 175,643 | 133,350 | 114,046 | 108,064 | 221,484 |
| M | 1,721,063 | 115,854 | 122,068 | 126,161 | 127,300 | 119,797 | 122,845 | 123,903 | 131,103 | 136,095 | 136,730 | 119,229 | 86,575 | 65,245 | 53,832 | 49,142 | 85,186 |
| F | 1,750,637 | 110,547 | 116,034 | 119,697 | 120,778 | 113,875 | 114,380 | 116,450 | 128,533 | 138,872 | 138,671 | 120,191 | 89,069 | 68,105 | 60,214 | 58,923 | 136,297 |
| 2002 | 3,504,700 | 227,668 | 240,525 | 248,332 | 250,518 | 235,989 | 239,632 | 242,805 | 262,277 | 277,752 | 278,150 | 241,802 | 177,357 | 134,599 | 115,039 | 108,983 | 223,273 |
| M | 1,737,468 | 116,502 | 123,310 | 127,431 | 128,552 | 120,984 | 124,091 | 125,167 | 132,437 | 137,473 | 138,095 | 120,415 | 87,420 | 65,856 | 54,300 | 49,559 | 85,876 |
| F | 1,767,232 | 111,166 | 117,215 | 120,902 | 121,965 | 115,004 | 115,541 | 117,638 | 129,840 | 140,279 | 140,055 | 121,387 | 89,938 | 68,743 | 60,739 | 59,423 | 137,397 |
| 2003 | 3,541,500 | 228,681 | 243,209 | 251,015 | 253,202 | 238,586 | 242,417 | 245,610 | 265,216 | 280,796 | 281,125 | 244,359 | 179,190 | 135,956 | 116,295 | 110,163 | 225,680 |
| M | 1,755,699 | 117,020 | 124,686 | 128,807 | 129,929 | 122,316 | 125,533 | 126,613 | 133,921 | 138,980 | 139,572 | 121,689 | 88,323 | 66,520 | 54,893 | 50,096 | 86,801 |
| F | 1,785,801 | 111,661 | 118,523 | 122,208 | 123,273 | 116,270 | 116,884 | 118,997 | 131,295 | 141,816 | 141,553 | 122,670 | 90,867 | 69,436 | 61,402 | 60,067 | 138,879 |
| 2004 | 3,582,600 | 228,294 | 246,477 | 254,338 | 256,544 | 241,877 | 245,808 | 249,010 | 268,821 | 284,559 | 284,837 | 247,540 | 181,472 | 137,643 | 117,189 | 110,983 | 227,206 |
| M | 1,776,238 | 116,822 | 126,362 | 130,512 | 131,644 | 124,003 | 127,289 | 128,366 | 135,741 | 140,843 | 141,415 | 123,273 | 89,448 | 67,345 | 55,315 | 50,469 | 87,391 |
| F | 1,806,362 | 111,472 | 120,116 | 123,826 | 124,900 | 117,874 | 118,519 | 120,644 | 133,080 | 143,717 | 143,422 | 124,267 | 92,024 | 70,298 | 61,874 | 60,514 | 139,816 |

**Source: 1950, 1960, 1970, 1980, 1990, and 2000 data are from the U.S. census. All other data are estimates provided by the Population Research Center, Portland State University.**

**Table A-1. Population distribution by age and sex, Oregon, 1950-2000 (selected years), 2001-2017**

| Year and sex | Total | Age groups | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75+ |
| 2005 | 3,631,440 | 229,032 | 236,192 | 250,112 | 249,350 | 253,754 | 245,350 | 248,459 | 249,423 | 262,187 | 274,531 | 272,164 | 235,442 | 169,464 | 125,289 | 101,495 | 229,196 |
| M | 1,807,404 | 117,748 | 120,728 | 127,493 | 128,096 | 129,672 | 125,950 | 128,454 | 128,645 | 132,066 | 135,398 | 134,414 | 116,816 | 83,126 | 60,576 | 47,018 | 90,754 |
| F | 1,824,036 | 111,284 | 115,464 | 122,169 | 121,254 | 124,082 | 119,400 | 120,005 | 120,778 | 130,121 | 139,133 | 137,750 | 118,626 | 86,338 | 64,713 | 54,477 | 138,442 |
| 2006 | 3,690,505 | 230,910 | 237,216 | 252,504 | 251,425 | 259,704 | 248,533 | 251,540 | 248,957 | 261,231 | 276,019 | 280,822 | 251,186 | 178,919 | 128,422 | 100,797 | 232,320 |
| M | 1,838,346 | 118,827 | 121,169 | 129,072 | 129,146 | 132,669 | 127,362 | 130,125 | 128,969 | 132,069 | 135,957 | 138,459 | 124,789 | 87,809 | 62,397 | 46,886 | 92,642 |
| F | 1,852,159 | 112,084 | 116,047 | 123,433 | 122,279 | 127,035 | 121,171 | 121,415 | 119,988 | 129,162 | 140,062 | 142,363 | 126,397 | 91,109 | 66,025 | 53,911 | 139,678 |
| 2007 | 3,745,455 | 232,408 | 237,817 | 254,456 | 253,175 | 265,424 | 251,381 | 254,219 | 248,087 | 259,811 | 277,016 | 289,200 | 267,475 | 188,546 | 131,380 | 99,909 | 235,153 |
| M | 1,867,339 | 119,709 | 121,393 | 129,971 | 130,012 | 135,559 | 128,602 | 131,594 | 129,094 | 131,850 | 136,279 | 142,355 | 133,053 | 92,583 | 64,148 | 46,667 | 94,469 |
| F | 1,878,116 | 112,699 | 116,424 | 124,485 | 123,163 | 129,865 | 122,779 | 122,625 | 118,993 | 127,961 | 140,737 | 146,845 | 134,422 | 95,963 | 67,231 | 53,242 | 140,683 |
| 2008 | 3,791,075 | 234,168 | 242,401 | 253,790 | 256,673 | 259,359 | 262,454 | 258,656 | 259,537 | 260,859 | 272,087 | 277,102 | 259,397 | 206,048 | 147,484 | 109,384 | 231,675 |
| M | 1,890,189 | 120,054 | 124,243 | 129,545 | 131,583 | 132,637 | 134,635 | 133,035 | 134,056 | 133,088 | 135,603 | 136,260 | 128,042 | 101,457 | 71,392 | 51,441 | 93,120 |
| F | 1,900,886 | 114,115 | 118,158 | 124,246 | 125,090 | 126,722 | 127,819 | 125,621 | 125,482 | 127,771 | 136,485 | 140,842 | 131,355 | 104,591 | 76,092 | 57,943 | 138,555 |
| 2009 | 3,823,465 | 234,555 | 243,024 | 253,412 | 257,141 | 258,627 | 265,937 | 259,627 | 260,379 | 257,872 | 268,503 | 275,905 | 265,073 | 217,588 | 157,370 | 113,323 | 235,131 |
| M | 1,907,023 | 120,139 | 124,680 | 129,257 | 128,721 | 132,292 | 136,416 | 133,315 | 134,572 | 132,163 | 134,323 | 135,497 | 130,628 | 107,279 | 76,204 | 53,551 | 94,988 |
| F | 1,916,442 | 114,416 | 118,344 | 124,155 | 125,420 | 126,335 | 129,521 | 126,312 | 125,806 | 125,709 | 134,180 | 140,408 | 134,445 | 110,309 | 81,166 | 59,771 | 140,143 |
| 2010 | 3,844,195 | 234,264 | 242,941 | 252,279 | 256,921 | 257,279 | 268,905 | 260,018 | 260,600 | 254,360 | 264,346 | 274,059 | 270,212 | 229,225 | 166,234 | 116,226 | 236,327 |
| M | 1,918,338 | 119,877 | 124,756 | 128,586 | 131,503 | 131,630 | 137,945 | 133,304 | 134,776 | 130,976 | 132,766 | 134,433 | 132,948 | 113,164 | 80,525 | 55,185 | 95,963 |
| F | 1,925,857 | 114,387 | 118,185 | 123,693 | 125,418 | 125,649 | 130,960 | 126,715 | 125,824 | 123,384 | 131,580 | 139,625 | 137,264 | 116,060 | 85,709 | 61,041 | 140,364 |
| 2011 | 3,857,625 | 237,996 | 236,267 | 242,121 | 253,963 | 253,352 | 266,455 | 261,862 | 255,011 | 250,951 | 261,846 | 272,797 | 272,104 | 240,710 | 177,377 | 127,550 | 247,263 |
| M | 1,908,309 | 122,060 | 120,597 | 123,953 | 130,156 | 128,563 | 134,328 | 132,353 | 129,384 | 126,798 | 130,250 | 133,614 | 132,212 | 117,136 | 85,390 | 60,582 | 100,934 |
| F | 1,949,316 | 115,936 | 115,670 | 118,168 | 123,807 | 124,789 | 132,127 | 129,509 | 125,627 | 124,153 | 131,596 | 139,183 | 139,892 | 123,574 | 91,988 | 66,968 | 146,330 |
| 2012 | 3,883,735 | 238,555 | 235,721 | 241,975 | 253,188 | 253,178 | 267,156 | 263,637 | 257,695 | 252,604 | 260,575 | 269,627 | 270,538 | 243,930 | 186,091 | 135,537 | 253,729 |
| M | 1,920,131 | 122,352 | 120,257 | 123,923 | 129,710 | 128,432 | 134,658 | 133,105 | 130,420 | 127,410 | 129,742 | 132,360 | 131,449 | 118,459 | 89,437 | 64,345 | 104,071 |
| F | 1,963,604 | 116,203 | 115,463 | 118,052 | 123,478 | 124,746 | 132,498 | 130,532 | 127,275 | 125,194 | 130,833 | 137,267 | 139,089 | 125,470 | 96,653 | 71,192 | 149,658 |
| 2013 | 3,919,020 | 239,469 | 235,523 | 242,005 | 252,560 | 253,762 | 268,823 | 265,499 | 260,497 | 254,373 | 259,448 | 266,638 | 269,109 | 247,305 | 196,642 | 145,070 | 262,300 |
| M | 1,936,248 | 122,827 | 120,097 | 123,984 | 129,342 | 128,675 | 135,464 | 133,899 | 131,508 | 128,073 | 129,299 | 131,187 | 130,750 | 119,852 | 94,353 | 68,838 | 108,100 |
| F | 1,982,772 | 116,642 | 115,426 | 118,021 | 123,217 | 125,087 | 133,359 | 131,599 | 128,989 | 126,300 | 130,149 | 135,451 | 138,359 | 127,453 | 102,288 | 76,232 | 154,199 |
| 2014 | 3,962,710 | 240,540 | 235,498 | 242,326 | 252,453 | 254,730 | 270,814 | 268,298 | 264,242 | 257,039 | 259,236 | 264,602 | 268,604 | 251,574 | 207,292 | 154,903 | 270,560 |
| M | 1,956,552 | 123,383 | 120,028 | 124,193 | 129,241 | 129,120 | 136,436 | 135,162 | 133,061 | 129,181 | 129,306 | 130,475 | 130,498 | 121,669 | 99,299 | 73,469 | 112,030 |
| F | 2,006,158 | 117,157 | 115,470 | 118,132 | 123,212 | 125,611 | 134,378 | 133,136 | 131,181 | 127,859 | 129,930 | 134,127 | 138,105 | 129,904 | 107,993 | 81,435 | 158,530 |
| 2015 | 4,013,845 | 241,795 | 235,647 | 242,822 | 252,898 | 256,791 | 273,970 | 272,264 | 269,161 | 260,820 | 260,132 | 263,708 | 269,245 | 257,006 | 216,708 | 164,044 | 276,834 |
| M | 1,980,760 | 124,034 | 120,049 | 124,493 | 129,422 | 130,119 | 137,993 | 137,010 | 135,196 | 130,840 | 129,863 | 130,323 | 130,804 | 124,041 | 103,639 | 77,768 | 115,165 |
| F | 2,033,085 | 117,761 | 115,598 | 118,329 | 123,476 | 126,672 | 135,977 | 135,254 | 133,965 | 129,979 | 130,269 | 133,385 | 138,441 | 132,965 | 113,069 | 86,276 | 161,669 |
| 2016 | 4,076,350 | 243,158 | 235,914 | 243,427 | 253,722 | 259,636 | 278,022 | 277,144 | 275,040 | 265,502 | 261,892 | 263,671 | 270,738 | 263,364 | 227,057 | 174,118 | 283,944 |
| M | 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 |
| F | 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 | 165,276 |
| 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 |
| M | 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 |
| F | 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 |

**Source: 1950, 1960, 1970, 1980, 1990, and 2000 data are from the U.S. census. All other data are estimates provided by the Population Research Center, Portland State University.**

## Table A-2. Population by age and sex for Oregon and its counties: July 1, 2017

### Both sexes

| 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** | **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 | 99 | 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 | 669 | 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 |
| UNION | 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 | 77 | 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: Center for Population Research and Census, Portland State University**

## Table A-2. Population by age and sex for Oregon and its counties: July 1, 2017 (continued)

### Male population

| 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** | **2,042,412** | **131,145** | **125,741** | **130,855** | **79,104** | **53,778** | **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 | 158 | 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 | 2,873 | 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 | 4,923 | 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 | 496 | 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 | 572 | 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 | 716 | 1,337 | 1,499 | 1,802 | 1,739 | 1,637 | 1,756 | 1,946 | 2,325 | 2,608 | 2,503 | 2,129 | 1,423 | 909 | 706 |
| CROOK | 10,913 | 573 | 593 | 686 | 408 | 194 | 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 | 1,994 | 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 | 1,243 | 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 | 66 | 30 | 66 | 34 | 14 | 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 | 256 | 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 | 900 | 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 | 865 | 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 | 55 | 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 | 6,104 | 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 | 438 | 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 | 487 | 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 | 5,097 | 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 | 172 | 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 | 9,192 | 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 | 1,352 | 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 | 13 | 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 | 999 | 1,131 | 1,147 | 883 | 555 | 326 | 238 |
| UMATILLA | 42,239 | 3,239 | 2,887 | 3,055 | 1,805 | 1,149 | 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 |
| UNION | 13,327 | 972 | 895 | 847 | 596 | 471 | 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 | 323 | 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 | 6,997 | 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: Center for Population Research and Census, Portland State University**

## Table A-2. Population by age and sex for Oregon and its counties: July 1, 2017 (continued)

### Female population

| 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 | 960 | 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 | 9 | 19 | 29 | 41 | 31 | 50 | 55 | 61 | 100 | 90 | 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 | 99 |
| 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 | 70 | 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 |
| UNION | 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: Center for Population Research and Census, Portland State University**

| TABLE A-3: Oregon veteran population by age and sex: September 30, 2017 | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Age groups | | | | | | | | | | | | | | | |
| Sex | All ages | < 20 | 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+ |
| Both sexes | 303,689 | 87 | 2,828 | 8,786 | 12,367 | 13,526 | 13,284 | 17,951 | 20,863 | 24,671 | 29,857 | 40,680 | 46,142 | 25,901 | 19,753 | 26,993 |
| Male | 278,191 | 68 | 2,296 | 7,473 | 10,534 | 11,368 | 11,294 | 15,622 | 18,357 | 21,788 | 26,719 | 38,314 | 44,591 | 24,911 | 19,050 | 25,806 |
| Female | 25,498 | 20 | 532 | 1,313 | 1,833 | 2,158 | 1,989 | 2,329 | 2,506 | 2,882 | 3,138 | 2,366 | 1,552 | 990 | 704 | 1,187 |

**Source: United States Department of Veteran Affairs, VetPop 2016 State Data Tables: http://www.va.gov/vetdata/Veteran_Population.asp**

# 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 10. 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.
- B**irth 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.

  The National Center for Health Statistics (NCHS) uses this procedure to avoid distortion in rates resulting from the disregard of the relationship between the mothers' and fathers' age.

## Deaths

- **Contributing cause** of death is defined as any significant condition that contributed to the fatal outcome, but was not related to the disease or condition directly causing death (see the underlying cause of death definition below) (2).
- **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 within the first year of life.
- **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.
- **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.
- **Postneonatal death** is the death of a child from day 28 through 364 after birth.

- **Postneonatal death rate** is the number of postneonatal deaths per 1,000 live births.
- **Underlying cause** is the disease or injury that initiated the train of events leading directly to death, or the circumstances of the accident or violence that produced the fatal injury (2).
- **Years of potential life lost** (**YPLL**) is the numerical difference between a predetermined end point age, usually 75 years, and the age at death. YPLL quantifies premature deaths occurring in younger age groups.

## 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

## Endnotes

1. U.S. Department of Health and Human Services, Public Health Service, National Center for Health Statistics. Vital statistics of the United States, 1982, vol. 1, section 4, page 1. Hyattsville, Maryland; 1986.
2. World Health Organization. International statistical classification of diseases and related health problems, 10th revision, 2010, vol. 10, page 33. [Internet]. 2010 [cited 2016 Jan 22]. Available from: http://apps.who.int/classifications/icd10/browse/Content/statichtml/ICD10Volume2_en_2010.pdf.

# Appendix B: Technical notes - methodology

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

*—Samuel Johnson*

## Induced termination of pregnancy

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

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 that leave the state to obtain an abortion equals the number of out-of-state residents who obtain an abortion in Oregon. In formulating generalizations that 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 as careful approximations and interpreted only within the framework of statistical safeguards developed to take sampling variability into account.

Some rates in the Induced Terminations of Pregnancy 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.

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

This estimate is computed by tracing the abortion experience of a specific cohort of females over an extended time period. In the table below, an approximation of the "cumulative total" of first-time abortions by one of the cohorts may be obtained by summing the numbers in the boxed area.

**Number of First-Time Abortions By Year and Age Group, Oregon Occurrence, 1991-2005**

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

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:

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

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:

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

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

### Teen pregnancy

Teen pregnancy counts include live births and induced terminations of pregnancies; they do not include fetal deaths or miscarriages (spontaneous abortions).

- Birth counts include births to teens whose primary residence is in another state.
- Teen abortion counts are based on all reported abortions to teenage Oregon residents; 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, counts of Oregon resident teen abortions and pregnancies should be considered incomplete.

Furthermore, because teen abortion counts are based on "residence data," figures given in Chapter 4 do not correspond exactly to those in Chapter 3 that are based on "occurrence data." (See Induced Terminations of Pregnancy methodology section.) The estimation of rates requires an estimate of the size of the appropriate population. Such

| 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 |

[1] All rates per 1,000 females ages 15-19.

* All races and ethnicities combined.

estimates are now available for 15- to 17-year-olds and 18- to 19-year-olds for each Oregon county on an annual basis.

Rates based upon a small population increase the likelihood of variation in the data due to the influence of chance factors. For this reason, rates of teen pregnancy, birth and abortion were calculated only if each age category contained at least 50 female residents of the specified county.

Great caution must be taken in the use of pregnancy statistics associated with females under 15 years of age. This is because 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

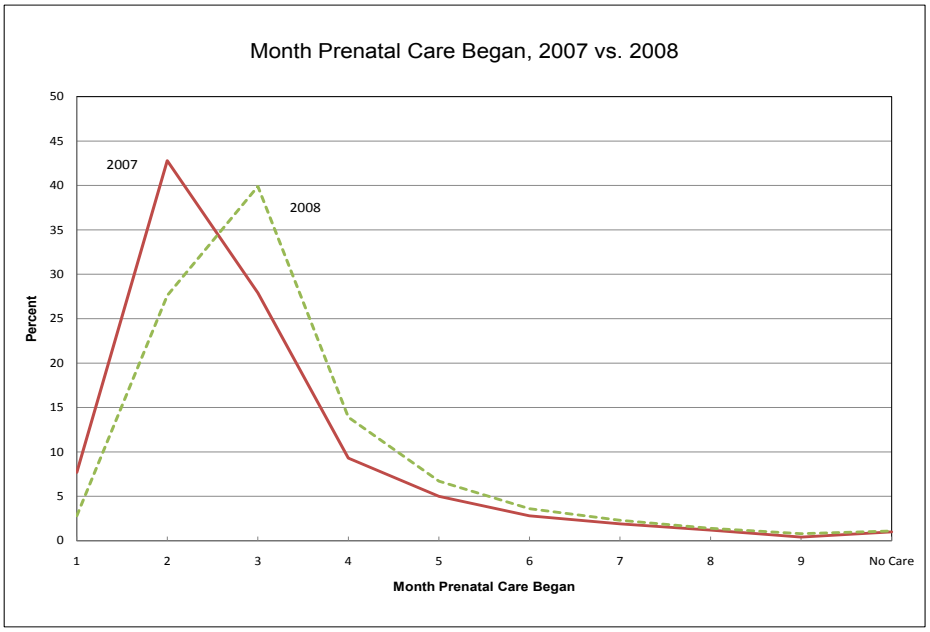
The extent to which Oregon's demographic composition may affect its national ranking is indicated by comparisons shown in the sidebar. In 2008, Oregon's birth rate for all teens (regardless of race or ethnic affiliation) was 7.5 percent lower than that of the United States; among all 50 states, it had the 20th 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 United States. This results from the fact that 87 percent of 15- to 19-year-old females in Oregon were non-Hispanic Whites; 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.

## Prenatal care

In 2008, information on the timing of prenatal care was based on the difference between the date of first prenatal visit and the date of last normal menses. When the data of last normal menses is missing or invalid, the clinical estimate of gestation is used. This change has made direct comparison between 2007 data and 2008 data unreliable.

Prenatal care information based on the revised system suggests a markedly less favorable picture of prenatal care

use than data from 2007. In 2008, prenatal care began in the first month of pregnancy in 2.8 percent of births, while in 2007 prenatal care began in the first month in 7.7 percent of births. Most of this difference is likely attributable to the changes in data collection rather than changes in prenatal care utilization.




### Race and ethnicity

The Center for Health Statistics began collecting multiple race and ethnicity information for decedents in 2006. Prior to 2006, Oregon's data systems were limited to a single race. In 2006, Oregon adopted the 2003 revision of the U.S. standard death certificate. Oregon now collects up to four Hispanic ethnicities and 36 races for each decedent. This change in data led to the revision of tables including race and ethnicity information in the annual report. More detailed reporting for race and ethnicity began in 2008 for birth and fetal death records.

## Collection and reporting of race and ethnicity

### Source of information

Birth, death and fetal death race and ethnicity information is collected about the subject of the vital record from the best available source.

**Birth and fetal death** —The birth mother usually provides the race and ethnicity information for birth and fetal death records, but occasionally another family member, such as the father or a grandparent, provides it. The mother is asked to identify her race and Hispanic ethnicity as well as the father's/second parent's race and ethnicity. No race or ethnicity information is collected about the child in Oregon statistical data. All statistical tables in this report present information on the mother.

**Death** — The informant, usually a close family member, reports race and ethnicity on the "Report of Death." However, there are deaths where no close family member is identified, and the information is obtained from a friend, police officer or facility staff. In 2014, the informant was the spouse or domestic partner on 30.3% of records, a child of the decedent on 45.8% and a parent or sibling of the decedent on 12.6% of records. Combined, 88.7% of informants were immediate family to the decedent.

Each informant is allowed to identify the race or races and Hispanic ethnicity or ethnicities of the decedent to the best of their knowledge. Race and ethnicity are intended to be self-identified and are not defined by parentage or national origin.

### Categories collected

Oregon collects up to four Hispanic ethnicities (Mexican, Cuban, Puerto Rican and Other). Hispanic ethnicities can be chosen in combination.

Oregon collects up to 36 race categories. These include: White, Black or African American, American Indian or Alaska Native, Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, Other Asian, Native Hawaiian, Guamanian or Chamorro, Samoan, Other Pacific Islander, Other, and Unknown. The informant can specify up to two races if he/she selects one of the non-specific race categories, specifically, other Asian, other Pacific Islander and other. If the decedent is reported as American Indian or Alaska Native, the informant is asked to indicate up to two tribes. Enrollment or official affiliation is not required to report a tribal relationship.

**Birth and fetal death** — Hospitals, birthing centers and midwives are required to use a standard parent worksheet to collect information from the mother. The worksheet specifies

each category and allows for hand entry for more specificity. The worksheets can be viewed at https://public.health.oregon.gov/BirthDeathCertificates/RegisterVitalRecords/Pages/InstructionsBirth.aspx.

**Death** — Funeral service practitioners are instructed to ask open-ended questions on ethnicity and race when gathering information for the "Report of Death." The Oregon Center for Health Statistics has provided letter-sized cardstock forms that list all race and ethnicity categories to assist the family in reporting accurately. "Other" and "Unknown" are options for both race and ethnicity.

### Presentation of data

The Center for Health Statistics creates tables based on numeric codes associated with the races (including "other specify") and ethnicity reported. The Center for Health Statistics sends record level data to the National Center for Health Statistics. The National Center for Health Statistics then processes the data to create numeric codes that are assigned to more than 300 literal race categories. This allows the coding to be standardized nationwide. An example of the detailed listing is available at www.cdc.gov/nchs/data/dvs/Appendix_E_Accessible_Race_Code_List_Update_2011.pdf.

The race codes are three digits, with the first digit representing a category and the last two digits representing a specific group. For example, white checkbox is 100, white literal is 101, Arab is 102, English is 103, French is 104, and so on through Kosovian at 134. These numeric codes are used to create the statistical tables. Considering the space available to relay information, most tables report categories based on the code's first digit. The tables in this report present the five major race and ethnicity categories used at the Center for Health Statistics: White, African American or Black, American Indian, Asian, Pacific Islander, Hispanic (any race), and Other.

**Multiple race** — Although Oregon collects multiple races for each record, for deaths occurring in 2014 only 508 or approximately 1.5 percent of 34,160 resident decedents were reported as belonging to multiple races. The mean age of the decedents decreased as more racial categories were reported. Generally, younger decedents selected more race categories than their older counterparts. The mean age for

decedents with only one race indicated was 75 years, while the mean age for decedents where two or more races were reported was 52 years.

Examples of multiple race tables include 6-10 and 6-12 in Volume 2 of the annual report. In these two tables, individual decedents can be listed in more than one race category. If a decedent is listed as both White and African American/Black on the "Report of Death," he or she would be included in the totals for both White and Black in the multiple race tables. This means the race category totals will exceed the total number of deaths in tables reporting multiple races. In tables presenting single-mention race, persons with two or more race selections are included in the "two or more races" total. Compare multiple race tables (e.g., 6-10 and 6-12) with similar single-mention race tables (e.g., 6-9 and 6-11) to determine the practical impact of this distinction.

Other table conventions include reporting Hispanic as a separate category in most tables that include race or ethnicity. This means records with Hispanic ethnicity are removed from the single-mention race categories in most tables. Persons of Hispanic ethnicity may belong to any race category (or categories). Footnotes in tables presenting race and ethnicity indicate when records with Hispanic ethnicity reported are removed from the race categories. These tables will also include "Non-Hispanic Single Mention Race" as a header title. There are two primary reasons for this reporting convention. First, many Hispanic individuals identify their race as "Other" (in 2008, 77.3 percent of decedents with other or unknown race were Hispanic). Second, "Non-Hispanic White" is often used as a reference category when doing statistical analysis, allowing the information contained in the tables to be used as an effective reference group.

## Tobacco

### *National Healthy People 2020 objective (1)*

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

| | |
|---|---|
| Year 2020 target: | 98.6 % |
| 2007: | 89.6 % |

Women who smoke when pregnant have a far higher incidence of low birthweight babies than nonsmokers. Low birthweight infants experience more serious health problems, including increased rates of infant mortality. In 2008, the Oregon infant mortality rate during the first 27 days of life (neonatal) was 51.8 per 1,000 live births for low birthweight (less than 2,500 grams) infants compared to 0.7 per 1,000 for infants with birthweights of 2,500 grams or more. Women who smoked had a low birthweight rate of 84.7 per 1,000 live births, compared to 57.1 per 1,000 among women who did not smoke. One of nine mothers (11.8 %) reported using tobacco during pregnancy, a proportion that is among the lowest observed in the last 20 years. (See sidebar 2-D, page 2-8.) The percentage of tobacco use among unmarried women was nearly four times that of married women (22.9 % vs. 5.6 %). The highest percentage of tobacco use during pregnancy in 2008 was among unmarried mothers aged 20–24 and unmarried mothers aged 25–29 (24.7% and 24.3% respectively). Generally, the percentage of mothers who reported smoking during pregnancy decreased with age regardless of marital status. The lowest percentage of smokers was reported for married mothers aged 35–39 (2.9 %). (See Figure 2-5.)

## Endnotes

1. U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion, Healthy People 2020: http://www.healthypeople.gov/2020/topics-objectives/topic/maternal-infant-and-child-health/objectives. Accessed Jan 25, 2016.

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

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

***—Alfred North Whitehead***

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

Data users are diverse, including public health officials evaluating a program by using death data, demographers projecting school enrollments with birth data and business people deciding to open a formal-wear shop based on marriage data. Many of these users have a thorough knowledge of statistics. But others find the entire subject matter confusing and intimidating. For either group, a misunderstanding of what vital statistics mean can lead to wrong conclusions. Therefore, this section is included as 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 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 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 tables in this book. If the needed table is not listed, contact the Center for Health Statistics for more information.

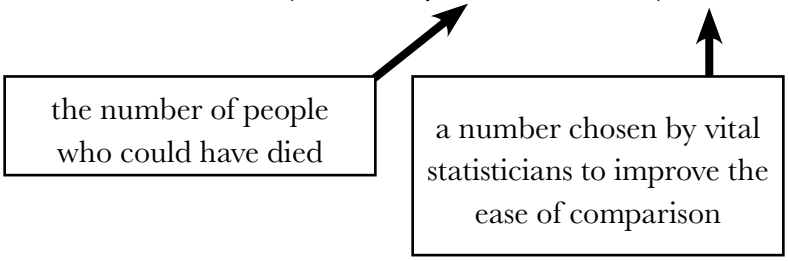
## Step 2: Making the number meaningful with rates and ratios

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 the number of events 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 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 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." Hypothetically, a statistician will say, "We are 95% sure the true infant death rate for Oregon in 2008 was 9.47 ± 0.97; that is, it lies somewhere between 8.50 and 10.44." If two rates have overlapping confidence intervals, then the difference between them may be due to this chance variation. In other words the difference is not statistically significant.

**When comparing rates and ratios, differences should be tested for statistical significance. Formulas are listed in the next section of this chapter.**

### Small numbers

Chance variation is a common problem when the numbers being used to calculate rates are extremely small. Large swings often occur in the rates that do not reflect real changes. Consider Clatsop County's infant mortality rates for a five-year period.

| CLATSOP COUNTY | | | |
|---|---|---|---|
| YEAR | BIRTHS | INFANT DEATHS | INFANT DEATH RATES |
| 2001 | 380 | 1 | 2.63 |
| 2002 | 432 | 6 | 13.89 |
| 2003 | 367 | 6 | 16.35 |
| 2004 | 397 | 2 | 5.04 |
| 2005 | 411 | 1 | 2.43 |
| **2001-2005** | **1,987** | **16** | **8.1** |

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

Many rates based on small numbers are published in this book because readers demand them. However, 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 are too few, how many cases are sufficient to say 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 following 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 20s to have more babies than the very young or the very old. Sex and race, as well as age, can drastically affect rates.

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

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

The crude death rate increased between 1950 and 1960 from 9.1 to 9.5 deaths per 1,000 population. But, an examination of the age- specific death rates for each group indicates that all these rates decreased. This apparent contradiction is explained by the fact that in 1960 a larger proportion of the population was older. Because the risk of death is higher in older persons, the crude death rate increased.

**Before comparing two places or two time periods, always compare the population characteristics first. If discrepancies are noted in any relevant variables, 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 that 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 significantly different, how can we find out why they are different? If the differences we expected did not prove to be significant, is there another item that 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 (CLRD) 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, Center for Health Statistics' staff are available to help data users.

## Endnotes

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

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

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

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

---

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

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

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

---

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

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

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

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

---

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

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

---

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

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

*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.*

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

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

---

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

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

## DEATHS:

10. (*CRUDE*) *DEATH RATE* = $\frac{\textit{Resident Deaths}}{\textit{Population}}$ *X* 1,000

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

---

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

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

---

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

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

---

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

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

---

14. *CAUSE-SPECIFIC DEATH RATE* = $\frac{\textit{Resident Deaths Due to Specific Cause}}{\textit{Population}}$ *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* = $\frac{\textit{Resident Deaths in Age-Sex Category}}{\textit{Population in Age-Sex Population}}$ *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.[1]

## CALCULATING CONFIDENCE INTERVALS FOR RATES:

### Confidence limits for rates based on less than 100 events

When the number of events in the numerator is less than 100, the confidence interval for a rate can be estimated using the two formulas which follow and the values in Table B-1.
Lower Limit = R x L
Upper Limit = R x U
where:
R = the rate
L = the value in Table B-1 that corresponds to the number N in the numerator of the rate
U = the value in Table B-1 that corresponds to the number N in the numerator of the rate

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

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

Lower Limit = 13.0 x 0.51671 = 6.7
Upper Limit = 13.0 x 1.7468 = 22.7

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

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

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

**Confidence limits for rates based on 100 or more events**

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

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

where:
R = the rate (birth rate, mortality rate, teen pregnancy rate, etc.)
N = the number of events (births, deaths, teen pregnancy, etc.)

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

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

$$\text{Lower Limit} = 13.7 - [1.96 \times (13.7 / \sqrt{143})]$$

$= 13.7 - [1.96 \times (13.7 / 11.96)]$
$= 13.7 - [1.96 \times 1.15]$
$= 13.7 - 2.25$
$= 11.5$

$$\text{Upper Limit} = 13.7 + [1.96 \times (13.7 / \sqrt{143})]$$

$= 13.7 + [1.96 \times (13.7 / 11.96)]$
$= 13.7 + [1.96 \times 1.15]$
$= 13.7 + 2.25$
$= 16.0$

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

## DETERMINING STATISTICAL SIGNIFICANCE FOR RATES:

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

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

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

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

Baker County teen pregnancy rate for age 10-17
Lower Limit = 6.7
Upper Limit = 22.7
Jackson County teen pregnancy rate for age 10-17
Lower Limit = 11.5
Upper Limit = 16.0

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

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

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

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

where:
$R_1$ = the first rate
$R_2$ = the second rate
$N_1$ = the first number
$N_2$ = the second number

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

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

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

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

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

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

$$1.96\sqrt{0.194}$$

= 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.[2]

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

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

The same logic can be used to adjust for age and/or race. An example for the weights used for age-adjustment can be found in Table B-2:

**TABLE B-2**
**2000 US STANDARD POPULATION**

| Age | 2000 US standard million | 2000 US standard population (Census P25-1130) |
|---|---|---|
| 0 | 13,818 | 3,794,901 |
| 0-4 | 55,317 | 15,191,619 |
| 5-9 | 72,533 | 19,919,840 |
| 10-14 | 73,032 | 20,056,779 |
| 15-19 | 72,169 | 19,819,518 |
| 20-24 | 66,478 | 18,257,225 |
| 25-29 | 64,529 | 17,722,067 |
| 30-34 | 71,044 | 19,511,370 |
| 35-39 | 80,762 | 22,179,956 |
| 40-44 | 81,851 | 22,479,229 |
| 45-49 | 72,118 | 19,805,793 |
| 50-54 | 62,716 | 17,224,359 |
| 55-59 | 48,454 | 13,307,234 |
| 60-64 | 38,793 | 10,654,272 |
| 65-69 | 34,264 | 9,409,940 |
| 70-74 | 31,773 | 8,725,574 |
| 75-79 | 26,999 | 7,414,559 |
| 80-84 | 17,842 | 4,900,234 |
| 85+ | 15,508 | 4,259,173 |
| Total | 1,000,000 | 274,633,642 |

# Reference

1. U.S. Department of Health & Human Services, Public Health Service, Centers for Disease Control and Prevention. Public health data: Our silent partner [Internet]. 1999 Oct; [cited 2016 Jan 22]. Available from: www.cdc.gov/nchs/products/training/phd-osp.htm.
2. For more information, please see U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Center for Health Statistics. Direct standardization (age-adjusted death rates). 1995 March; [cited 2016 Jan 22]. Available from: www.cdc.gov/nchs/data/statnt/statnt06rv.pdf.

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

1. J. C. Kleinman. Infant mortality. Statistical notes for health planners, No. 2. Washington, D.C.: Health Resources Administration; 1976 July.
2. J. C. Kleinman. Mortality. Statistical notes for health planners, No. 3. National Center for Health Statistics: by, Health Resources Ad.

# APPENDIX C: LIST OF FIGURES AND TABLES

# Appendix C: List of figures and tables

## Figures

# Tables

# Appendices

# APPENDIX D: SAMPLE FORMS

# Appendix D: Sample forms

## Oregon Report of Fetal Death – 2017 Data Fields

Filed electronically with the Oregon Vital Events Registration System
*(Multiple choice options listed in italics)*

**Fetus**

Fetus Name: First, Middle, Other Middle, Last, Suffix

Date of Delivery

Time of Delivery

Sex *(Male, Female, Undetermined)*

Method of disposition *(Burial, Cremation, Hospital Disposition, Removal From State)*

Funeral Home: Facility Name; Street Number; Pre Directional; Street Name or PO Box, Rural Route, etc.; Street Designator; Post Directional; Apartment Number; City or Town; State; Country; Zip Code

ID Tag Number

**Mother**

Mother's Current Legal Name: First, Middle, Last, Suffix

Mother's Name Prior to First Marriage: First, Middle, Last, Suffix

Date of Birth

Age

Mother Birthplace: Birthplace State, Birthplace Country

**Mother Address**

Residence Address: Street Number; Pre Directional; Street Name, Rural Route, etc.; Street Designator; Post Directional; Apt #, Suite #, etc.; City or Town; County; State; Country; Zip Code

Inside City Limits *(Yes, No, Unknown)*

**Mother Attributes**

Education *(8th grade or less, 9th-12th grade (no diploma), High school graduate/GED, Some college (no degree), Associate degree, Bachelor's degree, Master's degree, Doctorate or professional degree, Unknown)*

Hispanic Origin (Check all that apply): No, not Hispanic; Yes, Mexican; Yes, Puerto Rican; Yes, Cuban; Yes, Other Hispanic Origin (specify); Unknown

Which one or more of the following is your race? (Check all that apply): White, Black or African American, American Indian or Alaska Native (specify tribe), Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, Other Asian (specify), Native Hawaiian, Guamanian or Chamorro, Samoan, Other Pacific Islander (specify), Other (Specify)

**Mother Health**

Did Mother get WIC food for herself during this pregnancy? *(Yes, No, Unknown)*

Height (feet/inches)

Mother Pre-pregnancy Weight (pounds)

Mother Weight at Delivery (pounds)

Cigarette smoking per day before and/or during pregnancy: Three months before pregnancy, First three months of pregnancy, Second three months of pregnancy, Last Trimester of Pregnancy

Did mother go into labor intending to deliver at home or freestanding birthing center? *(No, Unknown, Yes)*

What was the primary attendant type at onset of labor?

**Marital Status**

Was Mother Married at Conception, at Delivery or within 300 days of Delivery? *(No, Oregon Registered Domestic Partnership, Unknown, Yes)*

Will Father information be collected on this Report? *(Yes, No)*

**Father**

Father's Name: First, Middle, Last, Suffix

Date of Birth

Age

Father's Birthplace: Birthplace State, Birthplace Country

**Father Attributes**

Education *(8th grade or less, 9th-12th grade (no diploma), High school graduate/GED, Some college (no degree), Associate degree, Bachelor's degree, Master's degree, Doctorate or professional degree, Unknown)*

Hispanic Origin (Check all that apply): No, not Hispanic; Yes, Mexican; Yes, Puerto Rican; Yes, Cuban; Yes, Other Hispanic Origin (specify); Unknown

Which one or more of the following is your race? (Check all that apply): White, Black or African American, American Indian or Alaska Native (specify tribe), Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, Other Asian (specify), Native Hawaiian, Guamanian or Chamorro, Samoan, Other Pacific Islander (specify), Other (Specify)

**Place of Delivery**

Type of Place of Delivery *(Hospital, Freestanding Birthing Center, Clinic/Doctor's Office, Home Delivery Planned, Home Delivery Unplanned, Home Delivery Unknown if Planned, Other (specify))*

Facility Name

Facility NPI

Address: Street Number; Pre Directional; Street Name, Rural Route, etc.; Street Designator; Post Directional; Apt #, Suite #, etc.; City or Town; County; State; Country; Zip Code

**Reporter**

Name and Title of Person Completing Report: First, Middle, Last, Suffix

Title *(Birth Certifier, DO, MD, Nurse Practitioner, Other (Specify), Other Licensed Medical (Specify), RN)*

Date Report Completed

**Prenatal**

Mother Medical Record #

Date of Last Menses

Prenatal Care: No Prenatal Care, Date of First Visit, Total Number of Prenatal Visits

Previous Live Births: Number Now Living, Number Now Dead, Date of Last Live Birth

Other Pregnancy Outcomes (Spontaneous or Induced Terminations or Ectopic Pregnancies): Number of Other Pregnancy Outcomes, Date of Last Other Pregnancy Outcome

**Pregnancy Factors**

Risk Factors for this Pregnancy (Check all that apply): Diabetes-Pre-pregnancy; Diabetes-Gestational (Diagnosis In This Pregnancy); Hypertension-Pre-pregnancy (Chronic); Hypertension-Gestational (PIH, Pre-eclampsia); Hypertension-Eclampsia; Previous Preterm Births (<37 Completed Weeks Gestation); Pregnancy Resulted From Infertility Treatment-Fertility-enhancing drugs; Pregnancy Resulted From Infertility Treatment-Assisted Reproductive Technology; Mother Had A Previous Cesarean Delivery; None Of The Above

Infections Present and / or Treated During this Pregnancy (Check all that apply): Gonorrhea, Syphilis, Chlamydia, Listeria, Group B streptococcus, Cytomegalovirus, Parvovirus, Toxoplasmosis, None Of The Above, Other (specify)

**Delivery**

Fetal Presentation at Delivery *(Cephalic, Breech, Other)*

Final Route and Method of Delivery *(Vaginal/Spontaneous, Vaginal/Forceps, Vaginal/Vacuum, Cesarean)*

If Cesarean, was a Trial of Labor Attempted? *(Yes, No)*

Maternal Morbidity (Check all that apply): Maternal transfusion, Third or fourth degree perineal laceration, Ruptured uterus, Unplanned hysterectomy, Admission to intensive care unit, Unplanned operating room procedure following delivery, None Of The Above

Mother Transferred for maternal medical or fetal indication prior to delivery *(Yes, No)*

**Fetal Attributes**

Weight of Fetus: Pounds / Ounces, Grams

Obstetric Estimate of Gestation (weeks)

Plurality *(Single, Twin, Triplet, Quadruplet, Quintuplet, Sextuplet, Septuplet, Conjoined twins, Not Stated)*

Delivery Order *(First, Second, Third, Fourth, Fifth, Sixth, Seventh, Eighth or more, Not Stated)*

Congenital Anomalies (Check all that apply): Anencephaly, Meningomyelocele/spina bifida, Cyanotic congenital heart disease, Congenital diaphragmatic hernia, Omphalocele, Gastroschisis, Limb reduction defect (excluding congenital amputation and dwarfing syndromes), Cleft lip with or without cleft palate, Cleft palate alone, Down Syndrome Karyotype Confirmed, Down Syndrome Karyotype Pending, Suspected chromosomal disorder karyotype confirmed, Suspected chromosomal disorder karyotype pending, Hypospadias, None of the anomalies listed above

**Cause/Conditions Contributing to fetal death**

Initiating Cause/Condition: Among the choices below, please select the one which most likely began the sequence of events resulting in the death of the Fetus.

Maternal Conditions/Disease (Specify)
Complications of placenta, cord or Membranes: Rupture of membranes, Abruptio placenta, Placental insufficiency, Prolapsed cord, Chorioamnionitis, Other (specify)
Other Obstetrical or Pregnancy Complications (Specify)
Fetal Anomaly (Specify)
Fetal Injury (Specify)
Fetal Infection (Specify)
Other Fetal Conditions/Disorders (Specify)
Unknown

Other Significant Causes or Conditions: Select or Specify all other conditions contributing to death.

Maternal Conditions/Disease (Specify)
Complications of placenta, cord or Membranes: Rupture of membranes, Abruptio placenta, Placental insufficiency, Prolapsed cord, Chorioamnionitis, Other (specify)
Other Obstetrical or Pregnancy Complications (Specify)
Fetal Anomaly (Specify)
Fetal Injury (Specify)
Fetal Infection (Specify)
Other Fetal Conditions/Disorders (Specify)
Unknown

Estimated Time of Fetal Death *(Dead at first assessment, no labor ongoing; Dead at first assessment, labor ongoing; Died during labor, after first assessment; Unknown time of fetal death)*

Autopsy Performed *(Yes, No, Planned)*

Histological Placental Examination Performed *(Yes, No, Planned)*

Autopsy or Histological Placental Examination used in Determining Cause of Fetal Death *(No, Not Applicable, Yes)*

**Attendant/Certifier**

Attendant's Name: First, Middle, Last, Suffix

Attendant's Title *(Doctor of Medicine, Doctor of Osteopathy, Other (Specify), Licensed Direct Entry Midwife, Midwife, Nurse Practitioner, Other Licensed Medical (Specify), RN)*

Attendant NPI

Address: Street Number; Pre Directional; Street Name or PO Box, Rural Route, etc.; Street Designator; Post Directional; Apt #, Suite #, etc; City or Town; State; Country; Zip Code

Certifier's Name: First, Middle, Last, Suffix

Certifier's Title *(Birth Certifier, DO, MD, Nurse Practitioner, Other (Specify), Other Licensed Medical (Specify), RN)*

Certifier NPI

Date Certified

TYPE OR PRINT IN PERMANENT BLACK INK.

Oregon Health Authority

CENTER FOR HEALTH STATISTICS

# REPORT OF DEATH

I.D. TAG NO. 136- STATE FILE NUMBER

## TO BE COMPLETED BY FUNERAL FACILITY

**1.** Legal name: First Middle Last Suffix (Include AKAs, if any)

**2.** Death date (MON DD YYYY):

**3.** Sex (M/F):

**4a.** Age – Last birthday:

**4b.** Under 1 year: Months Days

**4c.** Under 1 day: Hours Minutes

**5.** Social Security number:

**6.** County of death:

**7.** Birthdate (MON DD YYYY):

**8a.** Birthplace (city/town or county):

**8b.** (State or foreign country):

**9.** Decedent's education:

**10.** Was decedent of hispanic origin? (Yes or no. If yes, specify.)

**11.** Decedent's race(s):

**12.** Was decedent ever in U.S. Armed Forces? ☐ Yes ☐ No

**13.** Residence: Number and street (e.g.; 624 SE 5th Street, Apt. no. 8)

**14.** City/town:

**15.** Residence county:

**16.** State or foreign country:

**17.** ZIP code + 4:

**18.** Inside city limits? ☐ Yes ☐ No ☐ Unknown

**19.** Marital status at time of death:

**20.** Spouse's name (If married or widowed, full name given at birth.):

**21.** Usual occupation (Indicate type of work done during most of working life. DO NOT USE "RETIRED."):

**22.** Kind of business/industry (DO NOT USE COMPANY NAME.):

**23.** Father/Parent B's full name given at birth:

**24.** Mother/Parent A's full name given at birth:

**25.** Informant's name:

**26.** Telephone number:

**27.** Relation to decedent:

**28.** Mailing Address (number & street, city/town, state, Zip + 4):

**29.** Place of death:

**30.** Facility name:

**31.** Location of death (Give address.):

**32.** City/town or location of death:

**33.** State:

**34.** ZIP code + 4:

**35.** Method of disposition:

**36.** Place of disposition (Name of cemetery, crematory or other place):

**37.** Location:

**38.** Name and complete address of funeral facility (number & street, city/town, state, ZIP + 4):

**39.** Date of disposition (MON DD YYYY):

**40. Funeral director's signature**: ▶

**41.** OR license number:

**42. Registrar's signature:** ▶

**43. Date received** (MON DD YYYY):

**44.** Local file number:

**45.** Record amendment:

## TO BE COMPLETED BY MEDICAL CERTIFIER

**46.** Was case referred to medical examiner? ☐ Yes ☐ No

**47.** Autopsy? ☐ Yes ☐ No

**48.** Were autopsy findings available to complete the cause of death? ☐ Yes ☐ No

**49.** Time of death:

CAUSE OF DEATH (See instructions and examples.)

**50.** Enter the chain of events - diseases, injuries, or complications - that directly caused the death. DO NOT ENTER TERMINAL EVENTS such as cardiac arrest, respiratory arrest or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE.

Approximate interval: Onset to death

**Final disease or condition resulting in death→**

Sequentially list conditions, if any, leading to the cause listed on line a. ENTER THE UNDERLYING CAUSE LAST (disease or injury that initiated the events resulting in death).

**IMMEDIATE CAUSE** ↓:
a.

Due to (or as a consequence of) ↓:
b.

Due to (or as a consequence of) ↓:
c.

Due to (or as a consequence of) ↓:
d.

**51.** Other significant conditions contributing to death, but not resulting in the underlying cause given above:

**52.** Manner of death:
☐ Natural ☐ Homicide
☐ Accident ☐ Undetermined
☐ Suicide ☐ Pending

**53.** If female:
☐ Not pregnant within past year ☐ Not pregnant, but pregnant 43 days to 1 year before death
☐ Pregnant at time of death ☐ Unknown if pregnant within the past year
☐ Not pregnant, but pregnant within 42 days before death

**54.** Did tobacco use contribute to death?
☐ Yes ☐ Probably
☐ No ☐ Unknown

**55.** Date of injury (MON DD YYYY):

**56.** Time of injury:

**57.** Place of injury (e.g.; decedent's home, construction site, restaurant, wooded area):

**58.** Injury at work? ☐ Yes ☐ No ☐ Unknown

**59.** Location of injury (number & street, city/town, state, ZIP + 4):

**60.** Describe how injury occurred:

**61.** If transportation injury, specify:
☐ Driver/operator ☐ Passenger ☐ Pedestrian
☐ Other (specify) _____

**62.** Name and address of certifier (number & street, city/town, state, ZIP + 4):

**63.** Name and title of attending physician if other than certifier:

**64.** Title of certifier:

**65.** License number:

**66.** Date signed (MON DD YYYY):

**67.** Medical certifier – To the best of my knowledge, death occurred at the time, date and place, and due to the cause(s) and manner stated. ▶

**68.** Medical examiner – On the basis of examination, and/or investigation, in my opinion, death occurred at the time, date and place, and due to the cause(s) and manner stated. ▶

**69.** Record amendment:

**ORIGINAL - VITAL RECORDS COPY**

45-2 (09/16)

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*available from the*

## *Center for Health Statistics?*

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**website**

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

## Are you looking for a specific table or report?

### Vital Reports Data

| | |
|---|---|
| **Births** | Adequacy of prenatal care<br>*Final method of delivery by facility |
| **Deaths** | Manner of death<br>*Age of decedent by county and ZIP code |
| **Teen Pregnancy** | Pregnancy rates by county of residence<br>*Rolling pregnancy rate for past 12 months by county of residence |

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

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

Oregon Health Authority

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

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800 NE Oregon Street, Suite 225
Portland OR 97232-2162

OHA 9747 (3/2019)