



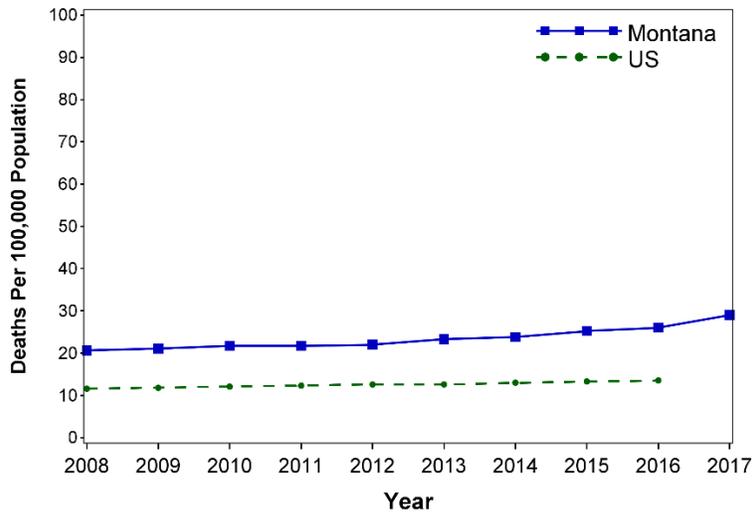
2017

Montana Vital Statistics

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Montana Department of Public Health and Human Services
Public Health and Safety Division
Office of Epidemiology and Scientific Support
1400 Broadway
Helena, Montana 59620-2951

**Age-Adjusted Death Rates for
Intentional Self-Harm (Suicide)
Montana and U.S. Residents, 2008-2017**



MONTANA VITAL STATISTICS SYSTEM

The Vital Statistics System builds and maintains a complete, uniform system of accurate vital information to satisfy the legal requirements of individuals and their families, provide timely and convenient access for research and statistical needs for planning at the local, state, and national levels, and ensure the security of the information guaranteed by law.

The Montana Vital Statistics System:

- Maintains a permanent public record of each birth, death, and fetal death filed in Montana since 1907.
- Maintains statistical information and statewide indexes for each marriage and marital termination that has occurred in Montana since July 1943.
- Develops forms, standards, and guidelines for registration or reporting of all vital events (births, deaths, fetal deaths, abortions, marriages, and divorces occurring in the State of Montana.
- Directs and monitors the functions of 56 local registrars to assure statewide compliance with the statutory mandate for uniform application of registration laws, policies, and procedures.
- Provides certified copies of birth, death, and fetal death certificates and processes certificate corrections, adoptions, legitimations, and delayed birth certificates.
- Prepares and maintains computer files of State birth, death, fetal death, induced abortion, marriage, marital termination (divorce) data and monitors these files for data quality.
- Builds and continues cooperative relationships with federal, state, and local agencies--including the National Center for Health Statistics--that collect, maintain, and use vital records and health statistics.
- Provides statistical data, tabulations, and analyses in support of health policy development, health status assessment, and service assurance.

PREPARED BY

This report was prepared by the Vital Statistics Analysis Unit of the Office of Epidemiology and Scientific Support, Public Health and Safety Division, Department of Public Health and Human Services.

Todd M. Koch, MPH
Lead Vital Statistics Epidemiologist

Matthew Ringel, MPH
Vital Statistics Epidemiologist

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Numerous data providers around Montana and the nation, who keep us informed of changes in the vital status of Montanans.

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INTRODUCTION

This report was prepared by the Montana Department of Public Health and Human Services (DPHHS), Office of Epidemiology and Scientific Support (OESS). OESS primarily uses data collected through the Montana Vital Statistics System. However, the following organizations also provided information: The Judicial Case Management System (JCMS) of the Montana District Court System provided marriage and divorce data. National mortality and natality data and population estimates are provided by the National Center for Health Statistics (NCHS). These provide context for interpretation of Montana vital events. This report provides a reference to some of the more frequently used Montana vital statistics. Because this report is intended primarily for reference, analysis and interpretation of the data are limited.

More detailed tabulations and analyses are available on request, as time, resources, and confidentiality permit. Requestors may be required to reimburse DPHHS for production costs. Requests should be directed to the Vital Statistics Epidemiologists listed on the [OESS contact webpage](#).

A general discussion of the sources and limitations of the data used, as well as the findings, with descriptive figures, appears .

Vital statistics reference tables for 2016 make up the last half of the report. Where space permits, data for one or more prior years are provided for comparison. A “List of Reference Tables” describes each of the reference tables by its contents and location, with a beginning letter describing the subject area for each type of table followed by a number. The naming scheme for these tables is described below.

Beginning Letter	Contents of Reference Table
S	selected (mixed record type) statistics
P	population statistics
B	live birth statistics
D	death statistics
F	fetal death statistics
A	induced abortion statistics

Records collected by the Office of Vital Statistics (OVS)

provide most of data for these statistics and tabulations. These records include certificates of birth, death, and fetal death, as well as transcripts of marriage, marital termination and invalid marriage (divorce and annulment), and legally induced abortions. Any other source of data is cited in the text or table where the data are used.

Vital Registration and Data Collection

Registration of births, deaths, fetal deaths, marriages, and divorces is a legal requirement ([MCA 50-15-108](#), [MCA 50-15-221](#), and [MCA 50-15-403](#)) that results in permanent legal documents. Birth certificates must be filed with the local registrar within ten days of the event. The attending physician, midwife, or parent must file the certificate in the county in which the birth occurred. Funeral directors or others in charge of disposition of the body are responsible for filing death or fetal death certificates. The certificates must be filed with DPHHS or the county’s local registrar no later than ten days after the date of death or, if the date is unknown, ten days after the death is discovered. Most births and deaths occurring in Montana are registered electronically. A fetal death certificate must be filed when the fetus weighed 350 grams or more or, if the weight was unknown, when the period of gestation was determined to be 20 completed weeks or more. Marriage and marital termination are reportable events. Before the tenth day of each month, the clerk of district court must report all marriages that have occurred, been dissolved, or been invalidated in the county during the preceding month. The Abortion Control Act ([MCA 50-20-110](#)) makes any induced abortion occurring in Montana a reportable event. Facilities performing induced abortions are responsible for reporting to DPHHS within 30 days of the event.

Original copies of fetal death certificates, reports of induced abortion, marriage, and marital termination, and those few birth and death certificates that are not filed electronically, are forwarded to OVS, which supplies electronic copies of these events to OESS for surveillance and further analysis. All birth, death and fetal death certificates for events occurring in Montana are permanently filed with and maintained by OVS.

Except for reports of marital termination, which since October 1998 have been collected and edited by the

Montana justice system and forwarded electronically to the OVS. OVS staff check all records and reports for accuracy and completeness and, when they are not acquired electronically, code them for data entry. Those data that are not received electronically are key-entered and records of all these events, regardless of how they are acquired, are maintained in the electronic files of Montana's Vital Statistics System.

The OVS designs vital certificate and report forms to meet all legal registration and reporting requirements and to provide statistical data to federal, state, and local government agencies, as well as many private organizations, modifying these forms as information requirements change. The following statistical data on these vital events are available in electronic files for analysis:

NATALITY (birth records, 1989 to current data year)
Date, hour, and place of birth.
Age, race, Hispanic origin, education, and state of birth of the parents, place of residence and marital status of the mother.
Pregnancy history, including number of prior pregnancies and their outcomes, date of last prior pregnancy, date of last normal menses and obstetric estimate of length of gestation, date at which prenatal care began and ended, and number of prenatal visits, medical risk factors of the mother during the pregnancy, tobacco and alcohol use during pregnancy, and the mother's weight gain.
Birth process (including whether the mother was transferred to another hospital), obstetric procedures, maternal risk factors for the pregnancy, method of delivery, and maternal morbidity.
Infant's sex, plurality, birth order, weight, and APGAR scores; abnormalities and congenital anomalies of the newborn, whether the infant was transferred to another hospital. Starting with data for 2008, the files also contain infections present and/or treated during the pregnancy, various characteristics of labor and delivery, maternal morbidity, payer for the birth, whether the mother was participating in the WIC program, and whether the infant was being breastfed at discharge.

MORTALITY (death records, 1989 to current data year)
Date, hour, and place of death, decedent's age at death, sex, race, Hispanic origin, education, marital status, birthplace, and place of residence.
Underlying and multiple causes of death, whether an autopsy was performed and, if so, whether results were available when cause of death was determined, if death resulted from an external cause (accident, suicide, or homicide), the circumstances of the injury, including whether it was sustained at work. Industry and occupation of the decedent, tobacco use as a contributing cause, pregnancy at or near the time of death, and membership in the armed forces. These last five items are available for data years 2003 and forward only.

FETAL MORTALITY (1989 to current data year)
Date, hour, and place of delivery.
Age, race, Hispanic origin, and education of parents, place of residence and marital status of the mother.
Cause of death, sex, weight, plurality, birth order, and any anomalies of the fetus.
Significant conditions of the mother, including number of prior pregnancies, date and result of last prior pregnancy, date of last normal menses, month in which prenatal care began, number of prenatal visits, maternal risk factors during the pregnancy--medical conditions, tobacco and alcohol use, and weight gain, clinical estimate of gestation, obstetric procedures, complications of labor and delivery, method of delivery. Starting with data for 2008, the files also contain infections present and/or treated during the pregnancy, and maternal morbidity.

INDUCED ABORTION (1989 to current data year)
Date, and place of procedure.
Age, race, Hispanic origin, education, marital status, birth date, and county of residence of patient.
Pregnancy history, including date of last normal menses, clinical estimate of gestation, and number and result of prior pregnancies.
Primary procedure that terminated pregnancy, additional procedures used, and resulting complications.

TECHNICAL OVERVIEW

Data Sources and Limitations

Delay in Reporting

This report reflects vital records, reports, and transcripts for calendar year 2017 received before July 15 of the following year. The number of records received after this latter date is small, and since the use of this "cut off" date is fairly consistent from year to year, the effect of omitted data on trends and patterns is likely to be minimal and use of the "cut off" balances timeliness of reporting with completeness of reporting.

Geographic Allocation

Table titles or footnotes indicate whether events are shown by place of residence or place of occurrence. For example, if a resident of Florida is killed in an accident in Montana, the death is counted as a Montana occurrence but not a Montana resident death; it is included in Florida's residence statistics. Births, deaths, and fetal deaths may be tabulated by either place of residence or occurrence. For births and fetal deaths, the place of residence of the newborn or fetus is the usual place of the mother's residence. For deaths, the place of residence is the usual place where the decedent resided. "Place" on a Vital Record is specific to the time of the event documented and does not necessarily indicate the place of exposure to disease or injury.

Residence data for births, deaths, and fetal deaths occurring outside Montana are available because of a cooperative, interstate transcript-exchange agreement. All states and Canadian provinces participate in this agreement under the auspices of the National Association for Public Health Statistics and Information Systems (NAPHSIS). Interstate data on induced abortions are available for only a few states and tables in this report reflect only induced abortions provided in Montana, except those in **Table S-5**. The resident statistics in this table refer only to Montana residents who received abortions in Montana.

While we can identify most of the nonresidents marrying in Montana, we do not know how many

Montana residents marry outside of the state, nor do we know of residency changes associated with marital terminations. No exchange agreement is in effect for records of marriages or marital terminations. Tabulations of these events are thus only by Montana occurrence. Data on marital terminations are limited to Montana decrees involving at least one Montana resident and are tabulated as occurrences in the Montana county in which the decree was issued.

Cause of Death Certification

The medical certification section of the Montana death certificate asks for information on the cause and sequence of events leading to death. The certifier (certifying physician, physician's assistant, or coroner) completes this section of the death certificate. It consists of two major parts, along with additional information. Part I is used for reporting the conditions leading directly to death and, for each, the interval between onset of the condition and death. Part II is for reporting any important diseases or conditions that contributed to the fatal outcome, but that were not related to the immediate cause of death (**Table 1**).

The certifier is also asked to classify the manner of death (natural, homicide, suicide, or accident), whether tobacco use contributed to the death and, if the decedent was female, whether the decedent was pregnant within the preceding year.

In the case of a traumatic death (homicide, suicide, accident, or legal intervention), the certifier, a coroner in this case, is also asked to complete a description of the traumatic event that led to the death, as well as date and location. If the event was a traffic accident, the decedent is to be identified as a driver, passenger, pedestrian, or other.

If the coroner cannot decide among these options within the allotted ten days, he or she has the option of filing "pending investigation" and later amending the certificate. If the investigation does not point to one of the three options, the record can be filed "could not be determined."

Table 1. Example of cause of death reporting.

Part I. Death was caused by:	Duration
Immediate cause: Due to (a) postoperative bronchial pneumonia Due to (b) lobectomy Due to (c) primary cancer of lung	3 days 1 week 1 year
Part II. Other significant conditions	
Hypertensive cardiovascular disease	

The causes of death in this report represent the underlying causes derived from the information provided on Parts I and II and, if the death results from a traumatic event, the additional information discussed above. In the above example, the underlying cause would be lung cancer. Each condition or cause reported on death certificates is classified according to the International Statistical Classification of Diseases, Injuries, and Related Health Problems, Tenth Revision, World Health Organization, Geneva, 1992 (ICD-10). The nosologist, the person responsible for coding cause of death information, develops an underlying cause using ICD-10 codes and coding procedures developed for nationwide use by NCHS of the Centers for Disease Control and Prevention (CDC), Public Health Services, U.S. Department of Health and Human Services. The ICD-10 code for the death in the illustration above would be C34.9, "malignant neoplasm of bronchus or lung, area or lobe unspecified."

In accordance with the rules of nosology and ICD-10, when the underlying cause is a traumatic injury, poisoning, or other adverse effects, this report shows tabulations of deaths according to the nature of the event that led to fatal injury, poisoning, or adverse effect rather than the nature of the event's consequences.

Whenever possible, deaths are classified by the underlying cause reported. Exceptions occur when the underlying cause is not apparent from the certificate and clarification is not available. In these rare instances, the probable underlying cause is determined using a system of rules developed by NCHS.

Marriage and Marital Termination

Data on national marriage and marital termination statistics are limited by differences in data collection and

data availability at or below the state level. Marriage, marital termination, and residency and other requirements are defined by the laws of each state. The minimum age for marriage, marriage license requirements, residency requirements for marital termination, acceptable grounds for such termination, and minimum period between marriage and marital termination vary from state to state. These differences can affect the comparability of data in interstate analysis.

Data aggregation is also affected by how data are collected and reported. For most states, including Montana, frequency of marriage is based on marriages performed. For some states, data represent licenses issued.

Induced Abortions

Induced abortions have been reported to the Department since July 1, 1974, when the [Montana Abortion Control Act](#) was implemented. States no longer report induced abortions to NCHS and some states have never collected this information. Few states exchange resident abortion statistics. For these reasons, national abortion rates are estimates based on survey data and incomplete reporting. Furthermore, Montana's complete resident abortion statistics are unknown. Statistics provided in this report are for those abortions occurring in Montana, and any references to Montana residents must be viewed as incomplete.

Population Estimates

All rates per 1,000 or per 100,000 population in this report are based on population data provided by the U.S. Census Bureau or NCHS. In recent years, OESS has relied on a special series of annual population estimates—U.S. Census Population Estimates with

Bridged Race Categories—produced by NCHS, in collaboration with the National Cancer Institute and the Census Bureau (**Table P-1**). These estimates are stratified by age, race, sex, and county and are used in this report to derive statewide fertility rates, abortion rates, and age-specific and age-adjusted mortality rates. OESS uses the latest available updates of these population estimates for such calculations. Further explanation can be found at the [National Vital Statistics System web site](#).

Race

Tabulation of vital events by race is imprecise for several reasons. First, it is difficult to identify a single or predominant race when persons are of mixed race or ancestry, as is the case for many U.S. citizens. A second difficulty with tabulations by race is that the category assignment is based on the opinion of the informant. As such, it may not reflect the same definitions of racial groups from one record to the next.

There are two other areas where racial classifications may lack precision—the "Hispanic" ancestry designation and the grouping of responses into an "Other" category. Hispanic ancestry is reported separately from race. Thus, it may apply to any racial category including "White" and "American Indian." The proportion of persons in Montana reported as being of Hispanic ancestry is so small however (a little less than three percent), that creating racial categories based on combined racial and Hispanic classifications for Montana is unlikely to yield any useful information.

The "Other" category is made up of all individuals not classified in the identified group(s) shown in any particular table. Those for whom race is not reported are therefore included in the "Other" category in all reference tables. According to the 2010 Census, about nine out of ten Montanans (89.4%) considered themselves to be white alone (i.e., indicating no other racial classification). About 6.3% considered themselves American Indian or Alaska Native (AI/AN) alone. Another 2.5% of the population considered themselves to be of two or more races. The remainder considered themselves to be of one of the remaining races—black (0.4%), Asian (0.6%), Native Hawaiian or Pacific Islander (0.1%), or some other race (0.6%)—alone. Thus, classifying persons of unknown race as "Other" may introduce an unknown, but probably slight, bias into

statistics calculated from the data in these tables.

Prior to 2003, only one race value for each person was recorded on all vital event records. The recording of multiple races began with Montana death records in 2003, induced abortion and marriage records in 2007, and birth and fetal death records in 2008. Divorce records still contain only single-race items. For all but divorce records, informants are asked whether the decedent belongs to one or more of 14 specific racial groups or some other unspecified race. Informants are encouraged to "check one or more races" to indicate to what racial group persons named on the certificate belong or belonged. They are also encouraged to identify ethnic groups or tribal affiliations that apply. OESS examines each record received for the certificant's national heritage, including affiliation with a known American Indian tribe, and classifies records accordingly.

For all records other than divorce records, racial classifications shown in this report are based on a "bridged race" category, in which four racial groups—white, black, American Indian or Alaska native (AI/AN), and Asian and Pacific islander—are reported. Records for which only a single race is reported are assigned a bridged category according to the race provided. NCHS "bridges" those records for which two or more races are reported; a representative race is assigned using a probabilistic model described at this [web site](#). Bridged race categories are intended for use in the calculation of population-based rates, along with the bridged population estimates mentioned above. For births and fetal deaths, the race of the infant or fetus is defined as the race of the mother.

Marital Status

The mother's marital status is designated "Married" on the birth record if the mother is reported on the certificate as married "at birth, conception, or any time in between". The mother is designated "Married" on the fetal death certificate if the mother was married "at delivery, conception, or any time in between".

Marital status categories on death records are "Never married," "Married," "Married but Separated," "Widowed," "Divorced," or "Unknown," as described by the informant. Categories of marital status on the abortion report are the same, except that two

categories are combined into the single category "Married or Separated." The "Divorced" designation on such records includes both marital dissolutions (formerly called divorces) and invalid marriages (formerly called annulments).

Limitations of Small Numbers

Rates or trends based on small numbers, perhaps less than 100, must be interpreted with caution. For this reason, small frequencies are often withheld in this report. Similarly, percentages or population-based rates calculated from small totals can also be misleading. For this reason, rates and percentages calculated from fewer than 20 events are not shown.

In order to prevent identification of individuals and their protected health information, this report suppresses counts of smaller than five in a table cell.

Tabulating occurrences of an event over a period of several years may reduce the impact of chance variability in calculated rates or percentages. An example is the five-year infant mortality rate in **Table D-7**. We have limited the use of multi-year rates in this report because such rates can conceal changes in trends that take place during the multi-year period.

Data Tabulation and Presentation

Geographic Tabulation

Birth, death, fetal death, and induced abortion data are tabulated for Montana residents by place of residence and for all vital events occurring in Montana by place of occurrence. Births, deaths, and fetal deaths that occurred out-of-state to Montana residents are included under resident statistics. Resident statistics on induced abortions include only in-state occurrences (i.e. abortion procedures performed on Montana residents in Montana). All occurrence statistics include events that occurred in Montana to residents of other states. All marriage and divorce statistics in this report are Montana occurrences.

Use of Rates and Ratios

It is sometimes useful to adjust a rate or ratio for factors

in the population that may affect the measurement. For instance, mortality rates, expressed as numbers of deaths per 1,000 or 100,000 resident population, can be adjusted to account for the effects of demographic factors that might affect mortality, such as race or age composition of the population. Wherever such adjustments have been made in this report, we indicate this in the title of the table or graph.

While many graphs are adjusted for age or sex, most reference tables in this report present rates and ratios that have not been adjusted to account for such factors. In such "crude" rates, the denominator is the estimated state or county population, divided by 1,000 or 100,000, and the numerator is the number of events, not weighted by any factor. Examples and further explanations of both crude and age-adjusted rates are given in the DEFINITIONS section.

Definitions

This section provides definitions of selected demographic, statistical, and medical terms as they are used in this publication. The terms are listed in alphabetical order. Terms discussed elsewhere in the Technical Overview Section, such as cause of death, race, marital status, and population estimates, are not included.

Abortion – the spontaneous or induced termination of a pregnancy, without live birth. The number of spontaneous abortions is not reported to the Department of Public Health and Human Services. This report focuses on induced abortions performed in Montana, which Montana law requires to be reported.

Abortion Ratio – the number of induced abortions reported, divided by the number of live births. It is calculated as follows:

$$\text{Abortion ratio} = \frac{\text{Number of induced abortions}}{\text{Number of live births}} \times 1,000$$

Age – the calculated age, usually in years, of the person(s) involved in a vital or reportable event. In this report, age was calculated based on reported date of birth and date of the event. Age in days was calculated from the reported dates, divided by 365.25, and truncated to yield age in years. Where the record of the month or day of birth were incomplete or invalid, the month was assumed to be June and the day the 15th of

the month.

Age-Adjusted Death Rate – an index number that represents the death rate that would occur if the observed age-specific death rates were present in a population with a proportional age distribution identical to that of a hypothetical standard population. It is derived from several observed age-specific death rates and used to compare relative mortality risks from one population to another (including comparisons of the resident populations of a single geographic region at different times). Statistically, it is a weighted average of the age-specific rates, with the weights representing the proportionate distribution of age in the hypothetical population. (See the definition of Age-Specific Death Rate below and the “Crude, Age-Specific, and Age-Adjusted Death Rates” section in the Mortality chapter of this report for more discussion.) It is calculated in this report by the direct method, using the 2000 U.S. Standard population, as follows:

$$\text{Age-adjusted death rate} = \sum_{i=1}^{11} S_i w_i$$

where w_i = the weight of the i^{th} age group in the standard population

where S_i = the age-specific death rate for the i^{th} age group

Age-Specific Death Rate – the proportion of deaths in a specific age group, expressed as a number per thousand persons in that age group. It is calculated as follows:

$$\text{Age-Specific Death Rate} = \frac{\text{Number of Deaths in the age group}}{\text{Mid-year Population of the age group}} \times 100,000$$

Apgar Score – an evaluation of a newborn infant’s physical status that assigns numerical values (0-2) to each of five criteria: 1) heart rate, 2) respiratory effort, 3) muscle tone, 4) response stimulation, and 5) skin color. A score of ten indicates the best condition.

At-Risk Population – all the persons to whom a given event could occur. The at-risk population is the denominator in a rate calculation. (See the use of “at risk” in the definition of Fertility Rate).

Birth Rate – the proportion of resident live births in the total population (both sexes of newborn, all ages of mother), expressed as a number per thousand persons (both males and females) in that resident population. Unless otherwise stated, the birth rate in this report is

the annual crude rate, unadjusted for factors affecting the population. It is calculated as follows:

$$\text{Crude birth rate} = \frac{\text{Number of live births}}{\text{Midyear population}} \times 1,000$$

Death Rate – the proportion of resident deaths in the total population, expressed as a number per thousand population. Unless otherwise stated, the death rate in this report is the annual crude rate, unadjusted for factors affecting the population. It is calculated as follows:

$$\text{Crude death rate} = \frac{\text{Number of deaths}}{\text{Midyear population}} \times 1,000$$

Direct Obstetric Death – a death resulting from obstetric complications of the pregnant state (pregnancy, labor, and puerperium), interventions, omissions, incorrect treatment, or from a chain of events resulting from any of the above.

Extremely Low Birth Weight – the birth weight of an infant of less than 1,000 grams (about 2 pounds 3 ounces).

Fertility Rate – the total number of resident live births as a proportion of the estimated female population “at risk” of child bearing, expressed as a number per thousand females in that population. The population at risk of experiencing a birth is all fertile females, approximated as all females aged 15 to 44 years. It is calculated as follows:

$$\text{Fertility rate} = \frac{\text{Number of live births}}{\text{Midyear population of females aged 15 - 44}} \times 1,000$$

Fetal Death – the reported delivery of a fetus that shows no evidence of life after delivery--that is, no action of the heart, breathing, or movement of voluntary muscles. Montana law requires reporting of fetal death if the fetus weighed 350 grams or more or, if the weight is unknown, if the delivery took place after 20 weeks of completed gestation. There is no requirement in Montana law to report the delivery of a non-viable fetus not meeting these criteria.

Fetal Mortality Ratio – the number of fetal deaths as compared to the number of live births, expressed as a

number per thousand live births. It is calculated as follows:

$$\text{Fetal mortality ratio} = \frac{\text{Number of fetal deaths}}{\text{Number of live births}} \times 1,000$$

Frequency – the number of occurrences of an event or observation; how often an event occurs.

ICD – the International Classification of Diseases code used to classify and report causes of death in vital statistics. This code is revised periodically. The current revision is called the International Statistical Classification of Diseases, Injuries, and Related Health Problems, Tenth Revision, and is published by the World Health Organization. In this report, the code is referred to as ICD-10. (For further details, see the “Cause of Death Certification” section in this report, above).

Indirect Obstetric Death – a death resulting from previous existing disease or disease that developed during pregnancy and which was not due to direct obstetric causes, but which was aggravated by physiologic effects of pregnancy.

Induced Abortion – a medical or surgical procedure intended to terminate a pregnancy without live birth. Such events are also called “induced termination of pregnancy” (ITOP) by NCHS and are the events commonly referred to as “abortions.” These events are distinct from fetal deaths and “spontaneous abortions,” or miscarriages.

Infant – a baby less than 365 days (one year) old.

Infant Mortality Rate – the number of infant deaths compared to the number of live births in that same period, expressed as a number per thousand live births. It is calculated as follows:

$$\text{Infant mortality rate} = \frac{\text{Number of infant deaths}}{\text{Number of live births}} \times 1,000$$

Invalid Marriage – a marriage deemed to have not been legal; a declaration of invalid marriage was formerly called an annulment.

Late Maternal Death – the death of a woman from direct or indirect obstetric causes more than 42 days but less than one year after termination of pregnancy.

Live Birth – the birth of a child who shows evidence of life after complete birth. Evidence of life includes heart action, breathing, or movement of voluntary muscles.

Low Birth Weight – the birth weight for a live-born infant of less than 2,500 grams (about 5 pounds, 8 ounces).

Marital Dissolution – legal termination of a valid marriage; a marital dissolution was formerly called a divorce.

Marital Termination – the sum of marital dissolutions terminations (sometimes called divorces) and invalid marriages (sometimes called annulments).

Maternal Death – the death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the duration and the site of the pregnancy, from any cause related to or aggravated by the pregnancy or its management, but not from accidental or incidental causes.

Maternal Mortality Rate – the total number of maternal deaths as a proportion of total live births, expressed as a number per hundred thousand live births. It is calculated as follows:

$$\text{Maternal mortality rate} = \frac{\text{Number of maternal deaths}}{\text{Number of live births}} \times 100,000$$

Mean – the arithmetic mean, obtained by dividing the sum of individual values or scores by the number of values or scores observed. For example, the mean age for six persons aged 9, 10, 12, 13, 13, and 16 is 73 divided by 6, or 12.2 years.

Median – the midpoint; for our purposes, given a set with an odd number of values, the median is the middle value when sorted in numerical order. For a set with an even number of values, the median is the mean of the two “middle” values. For the example set under the definition of Mean, the median age is 12.5 years.

Mode – the most frequently observed value in a set of values. For the example set under the definition of Mean, the modal age is 13.

Natural Increase – the excess of births over deaths among residents of an area.

Neonatal Death – a death occurring within the first 27

days of life.

Neoplasm – a new, abnormal, malignant, or benign growth of tissue that is uncontrolled and progressive. All neoplasms may also be called tumors. Malignant neoplasms are commonly called cancers.

Out-Of-Wedlock Birth Ratio – the number of births to unmarried women as compared to the number of live births, expressed as a number per thousand live births. It is calculated as follows:

$$\text{Out-of-wedlock birth ratio} = \frac{\text{Number of live out-of-wedlock births}}{\text{Number of live births}} \times 1,000$$

Parity – the parity of a current birth is the number of live children the woman has borne, including those born in the current delivery.

Perinatal Death – a death occurring near the time of birth. The number of perinatal deaths is the sum of registered fetal deaths and neonatal deaths.

Perinatal Mortality Ratio – the sum of fetal deaths and neonatal deaths as compared to the number of live births, expressed as a number per thousand live births in that population. It is calculated as follows:

$$\text{Perinatal mortality rate} = \frac{\text{Number of fetal deaths} + \text{neonatal deaths}}{\text{Number of live births}} \times 1,000$$

Place of Occurrence – the location where an event took place, regardless of the usual residence of the person involved.

Place of Residence – the usual residence of the person involved in an event, regardless of the event's place of occurrence. For births and fetal deaths, this is the mother's usual place of residence. For induced abortions, it is the usual place of residence of the patient. For deaths, it is the usual place of residence of the decedent.

Plurality (of birth) – the number of infants born during a particular delivery.

Post-Neonatal Death - during the first year of life, but after the first 27 days.

Pregnancy-Related Death – the death of a woman while pregnant or within 42 days of termination of pregnancy,

irrespective of the cause of death. See definitions for the related concepts Maternal Death, Late Maternal Death, Direct Obstetric Death, Indirect Obstetric Death, and Pregnancy-Associated Death in this section.

Pregnancy-Associated Death – the death of a woman, from any cause, while she is pregnant or within one year of delivery or termination of the pregnancy, regardless of duration and site of the pregnancy.

Premature Birth – a live birth of less than 37 completed weeks of gestation.

Puerperium – the condition of a mother that immediately follows childbirth.

Quartile – a quarter (25%) of the distribution of a set of values. For example, the age at the first quartile for eight persons aged 9, 10, 11, 12, 13, 14, 15, and 16 is 10. The median value, which is also the second quartile, is 12.5, and the third quartile value is 14.

Rate – the frequency of an event in a population subject to that event, expressed as the frequency per unit--generally 1,000 or 100,000--of the at-risk or subject population. For example, the Montana resident fertility rate per 1,000 fertile females is the number of births to Montana resident women for every 1,000 women in the population.

Ratio – the comparison of two types of events occurring in a subject population, expressed as a frequency of occurrence per unit of one of the events. For instance, the fetal mortality ratio is the number of fetal deaths per 1,000 live births. The resident population in which both types of events occur, fertile women residing in Montana, is the same for both events, but the events are of different types and are unlikely to have happened to the same woman in a single year. Also, the total number of women is not part of the calculation; the denominator for the calculation is live births, one of the events.

Standard Deviation – a measure of how “spread out” a set of values is, on average, from its mean. A small standard deviation indicates that, on average, the values are tightly grouped around the mean while a large standard deviation indicates that, on average, the values are scattered widely. For the series of values presented for the definition of MEAN, the standard deviation is 2.27. For a set of N values, it is computed as

follows:

$$\text{Standard deviation} = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \mu)^2}$$

where μ = the mean of the set of N values
where x_i = the i^{th} value in the set of N values

Subject Population – see At-Risk Population.

Very Low Birth Weight – the birth weight of an infant of less than 1,500 grams (about 3 pounds 5 ounces).

Years of Potential Life Lost (YPLL) – a measure of the cost of premature deaths that emphasizes deaths of the young by measuring the number of years lost to death before a given age, 75 years in this report. Statistically, YPLL is the difference between a given age and the decedent's age at death, summed for all decedents younger than the given age.

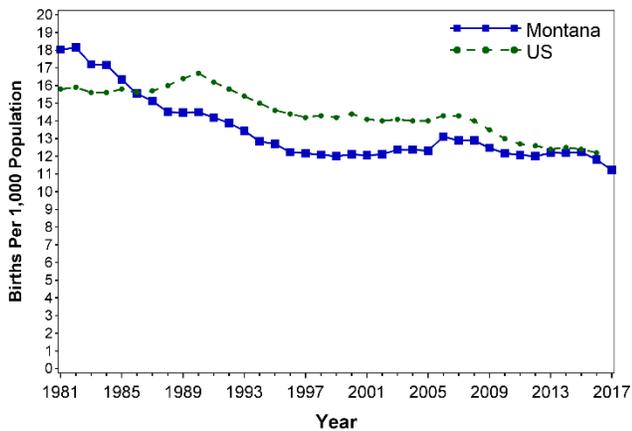
NATALITY

There were 11,800 babies born to Montana residents in 2017. **Table S-1** shows the frequency and rate of births occurring in Montana (regardless of place of residence) at five-year intervals from 1910 to 1945 and those to all Montana residents (regardless of place of occurrence) in selected later years.

The Montana birth rate declined for nearly twenty years, from the early 1980s to 1999. However, the rate of births to Montana residents leveled off and even began to increase slightly in the mid-2000s. The rate climbed to 13.1 per 1,000 residents in 2006, then declined in 2017 to a rate of 11.2 per 1,000 residents (**Figure 1**).

Figure 1

Resident Birth Rates
Montana and the United States, 1981-2017



While the Montana birth rate exceeded the U.S. rate from the 1970s to the mid-1980s, it began to decline in the early 1980's and fell below the U.S. rate. Since that time, the Montana rate has been the lower of the two.

Fertility

The fertility rate is sometimes considered more useful than the birth rate because it is computed for women of reproductive age rather than the total population. Fertility rates were higher for American Indian than for white women in Montana (**Figures 2 and 3**). The differences were especially notable for births to teens, aged 15 to 17 and 18 and 19 years. Teen birth rates have been declining among American Indians.

Figure 2

Fertility Rates for White Mothers

Montana Teens and Mothers of All Ages, 1997-2017

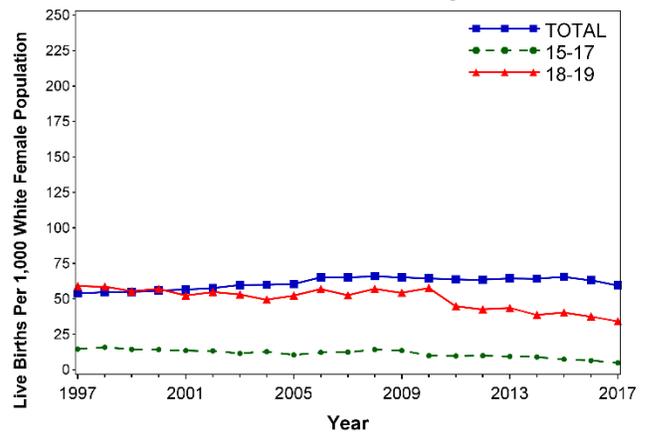
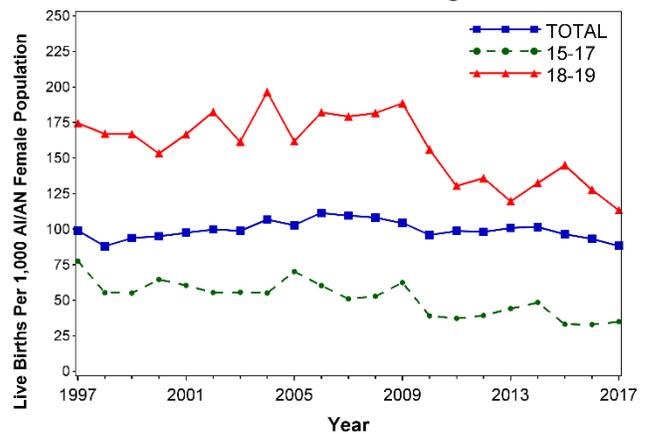


Figure 3

Fertility Rates for American Indian Mothers

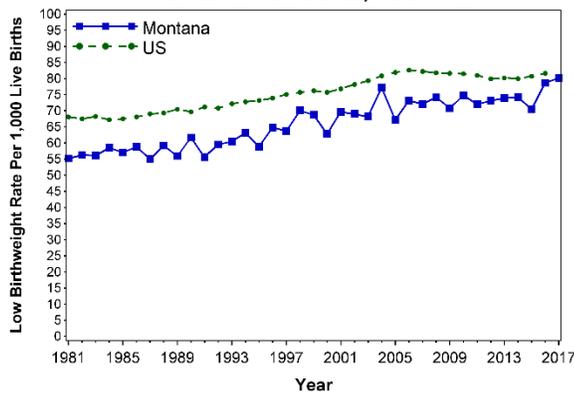
Montana Teens and Mothers of All Ages, 1997-2017



Low Birth Weight

The rate of low birth weight (less than 2,500 grams or five pounds, eight ounces) in Montana was only slightly lower than the national rate (**Figure 4, Table B-3**). Low birth weight is one of the most important risk factors for infant death.

Figure 4
Rate of Low Birth Weight Births
Montana Residents, 1981-2017

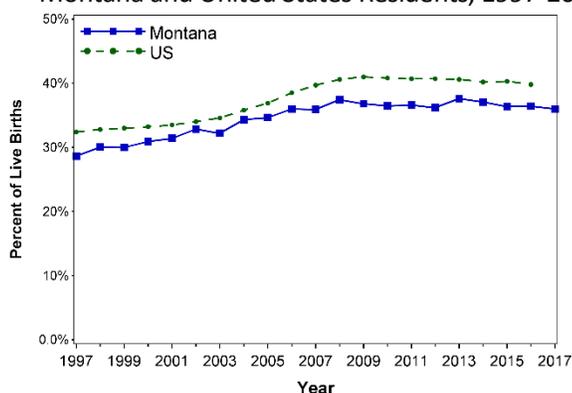


Mother’s Age, Race, and Marital Status

Of those Montanan mothers giving birth in 2017, slightly more than half (52.1%) were between 20 and 29 years of age (**Table S-5**). American Indian births comprised 11.9% of all births, and 85.6% births were to white mothers (**Table S-3**).

The proportion of unwed mothers has steadily increased over the past two decades (**Figure 5**). Births to unmarried mothers represented 23.7% of Montana’s resident births in 1990 and 36.0% in 2017. By comparison, unmarried mothers in the U.S. accounted for 39.8% in 2016, the latest year for which a final national statistic is available. The proportion of Montana mothers who were unmarried has been below the U.S. proportion for the last four decades.

Figure 5
Percent of Births to Unmarried Mothers
Montana and United States Residents, 1997-2017



Unreported Pregnancy Outcomes

Table S-5 summarizes pregnancy outcomes reported to DPHHS for Montanans. Those outcomes are live births, fetal deaths where the weight of the fetus meets legal reporting criteria (weight of 350 grams or more or, if the weight is unknown, 20 or more weeks of completed gestation), and induced abortions provided within Montana’s borders. It is important to bear in mind that unreported outcomes, miscarriages that do not meet reporting criteria and induced abortions performed on Montanans outside Montana, are unknown. These unreported events comprise an unknown portion of the pregnancies experienced by Montanans and this portion could vary substantially over time. Thus, the number of total pregnancies for Montanans is unknown and analysts should be cautious in any reference to total pregnancies.

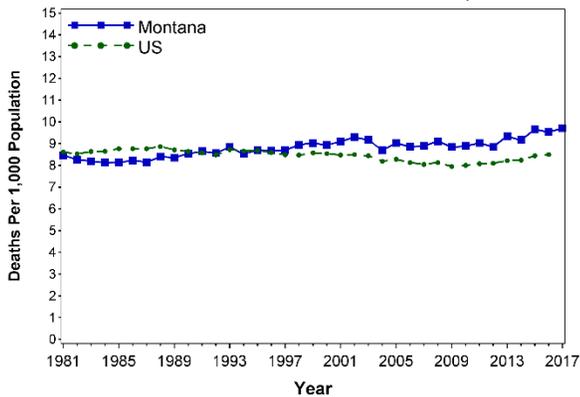
MORTALITY

Montana’s crude death rate has risen slowly since 1981 (**Figure 6**). Conversely, the U.S. rate has been on a long-term decline since the late 1980’s. In 2017 the Montana rate was 9.7 per 1,000 population. The discrepancy between Montana’s crude death rate and the US rate is due to Montana’s aging population relative to the young national population.

Figure 6

Resident Crude Death Rates

Montana and United States Residents, 1981-2017



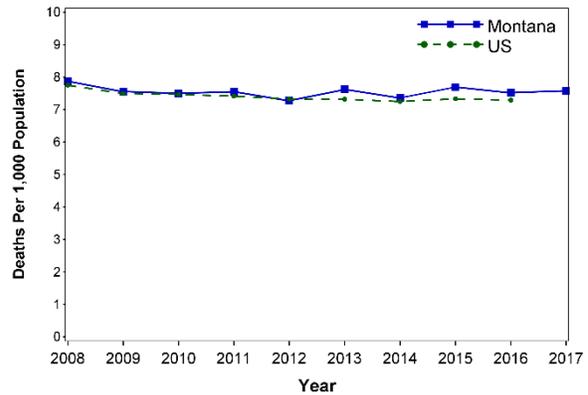
The death rate is closely related to the age structure of the resident population. It is therefore useful to adjust this rate for differences in the age distributions of populations when comparing death rates between those populations (“age adjusted death rate” is further defined in the Definitions section) While the crude death rate represents the absolute risk of death in a single population over a particular time, the age-adjusted rate offers a better comparison of the relative risk of death between populations in different geographic areas over a single time or in the same geographic area over different times.

Montana’s age-adjusted rate has been declining over the last ten years, 2008-2017 (**Figure 7**). The discrepancies between Montana’s and the US age-adjusted mortality rate are much smaller than the discrepancies between the crude rates.

Figure 7

Age-Adjusted Death Rates*

Montana and United States Residents, 2008-2017



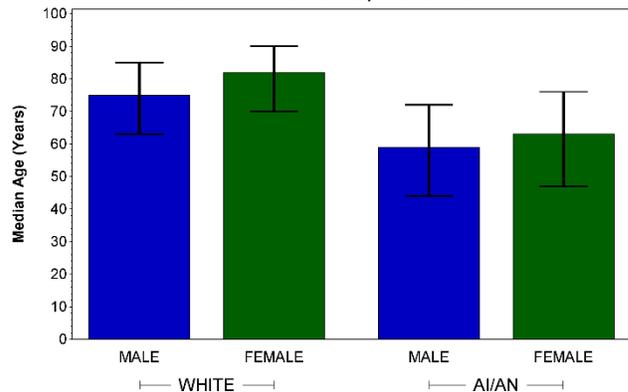
* Adjusted with the direct method to the 2000 U.S. Standard population.

Montana’s American Indian residents die at a younger age than white residents (**Figure 8, Table D-9**).

Figure 8

Median Age at Death,
25th and 75th Percentiles

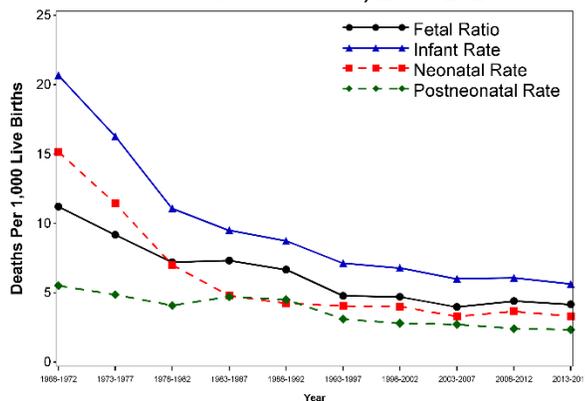
Montana Residents, 2013-2017



Fetal, Infant, and Maternal Deaths

There was a substantial decline in the five-year infant death rate during the last half century (**Figure 9 and Table S-1**). The neonatal and post-neonatal death rates and the fetal death ratio also declined substantially in this period, albeit by different proportions.

Figure 9
Five-Year Infant Mortality Rates
and Fetal Mortality Ratios
Montana Residents, 1968-2017



A little more than three-quarters of all infant deaths in 2017 were caused by sudden infant death syndrome (SIDS), certain conditions originating in the perinatal period, and congenital malformations, deformations, and chromosomal anomalies (**Table D-6**). This has been the usual proportion for these three causes in recent years.

Table S-1 of the Vital Statistics reference tables shows the frequency and crude rate or ratio of all deaths and of fetal, infant, and maternal deaths at five-year intervals from 1910 to 1970 and yearly from 1971 through 2017. There were 51 resident fetal deaths and 64 resident infant deaths in Montana in 2017.

Frequencies of infant and fetal deaths by Montana county of occurrence and residence are shown in **Table S-2**. **Table S-3** shows the frequency of fetal deaths by the mother's race and year. Selected causes of death by age and sex for Montana resident infants are shown in **Table D-1** and in **Table D-6**. (For a complete listing of all 358 potential causes that could appear in **Table D-1**, as well as their ICD-10 codes, see the [NCHS Instruction Manual Part 9](#). For a complete list of the 130 potential causes of infant death that could appear in **Table D-6**, see the [NCHS Instruction Manual Part 9](#).)

Table F-1 shows the frequency of fetal deaths (called stillbirths in some states) by the gestational age of the fetus, and selected cause of death. (For a complete list of the 124 causes of fetal death that could appear in **Table F-1**, see the [NCHS Instruction Manual Part 9](#). **Table S-3** shows the frequency of fetal, infant, and child deaths by race and year of death.

Crude, Age-Specific, and Age-Adjusted Death Rates

Most death rates presented in this report are crude rates, unadjusted for demographic factors such as age, sex, or race. Crude cause-specific rates express the frequency of mortality from a given underlying cause of death as a proportion of the resident population. They express the risk of dying from the specific cause of death. They are useful in making comparisons, within a single resident population, of the mortality risks associated with different causes. However, crude rates should not be used to compare Montana to other states or the nation, or Montana rates from one year to the next. Given the substantial differences in the age structure between the white and American Indian populations in Montana, crude rates should also not be used to compare white and American Indian rates.

Age-adjusted death rates should be interpreted as index numbers rather than direct measures of mortality risk. They are useful for making comparisons between populations (where demographic variables such as the age composition of the population may differ), but not for making comparisons of the effects of different causes of death within any single population. They are designed to account for differences in the age compositions of resident populations in different years by applying observed age-specific mortality rates to a hypothetical population with an unchanging age composition. By standardizing in this way, age-adjusted death rates help address the issue of whether an increasing or decreasing death rate is due to an aging population or whether some other factors are involved.

Figures 10 through 39, display age-adjusted and age-specific death rates for several of the leading causes of death in Montana and the United States. For a complete list of the causes that, according to a standard tabulation list of NCHS, could be considered one of the 113 leading causes of death, see the [NCHS Instruction Manual Part 9](#).

Because of the small number of deaths in certain age categories, many of the age-specific rates (e.g. those for chronic liver disease and cirrhosis, motor vehicle accidents, homicide, and suicide) may be statistically unstable and present somewhat unrepresentative patterns for a given year. However, for several causes of death, such rates present a clear pattern and add useful information about the burden of particular causes of

death among the age groups. Age-specific rates for each cause of death represented here so the reader can judge their usefulness for him or herself.

Montana's overall (i.e. all-cause) age-adjusted death rates (**Figure 10**) were very near or slightly above those for the U.S. between 2012 and 2016. Since 2012, the rate for Montana appears to be slightly increasing while the rate for the U.S. appears to be leveling off. Montana's age-adjusted death rates are also generally below those for the U.S. for many of the chronic diseases displayed; Montana's rates for heart disease (**Figure 12**), malignant neoplasm (cancer) (**Figure 14**), and nephritis (**Figure 32**) were among the lowest rates of all the chronic diseases.

For deaths from certain other chronic diseases, however, Montana clearly does not compare well to the nation. The state's rates for chronic lower respiratory diseases (C.L.R.D.) – which includes chronic and unspecified bronchitis, emphysema, and asthma – were higher than those for the U.S. in all years in which rates for both Montana and the U.S. are displayed (**Figure 18**). Montana's rates for chronic liver disease and cirrhosis were higher than the U.S. rate in all years for which direct comparisons are shown (**Figure 36**).

The patterns displayed for other chronic diseases were less conclusive. Montana's death rates for cerebrovascular disease showed inconsistent relationships with the U.S. rates, with the trend lines crossing each other more than once in the period shown (**Figure 16**). Death rates for influenza and pneumonia, Alzheimer's disease, were either slightly lower or virtually the same for all years displayed (**Figures 26 and 43**).

The trends of U.S. and Montana rates for all accidental deaths remain roughly flat (**Figure 20**), although Montana's are much higher than those for the U.S. The overall trend for motor vehicle deaths is slightly downwards, but the rate in 2016 was over half-again the U.S. rate (**Figure 22**). Montana's rate for non-motor vehicle deaths is on the increase (**Figure 24**). Both the Montana and U.S. rates for suicide have increased somewhat since 2001 (**Figure 30**). It is noteworthy that the Montana suicide rate was often nearly twice the U.S. rate in the period shown. Montana's homicide rate is largely unchanged (**Figure 38**).

Figure 10
Age-Adjusted Death Rates for
All Causes

Montana and U.S. Residents, 2008-2017

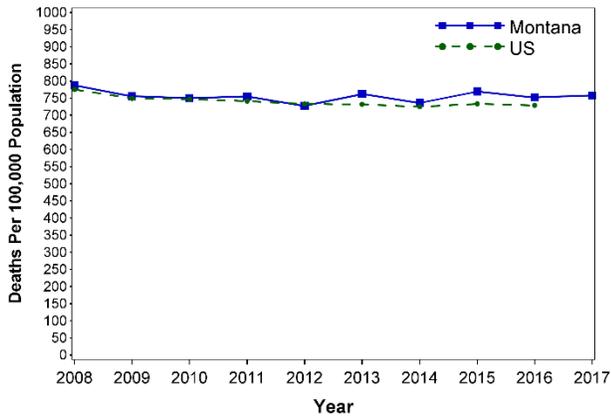


Figure 11
Age-Specific Death Rates for
All Causes

Montana Residents, 2017

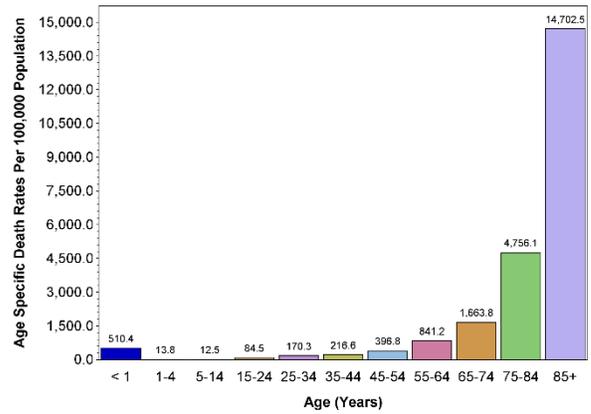


Figure 12
Age-Adjusted Death Rates for
Diseases of Heart

Montana and U.S. Residents, 2008-2017

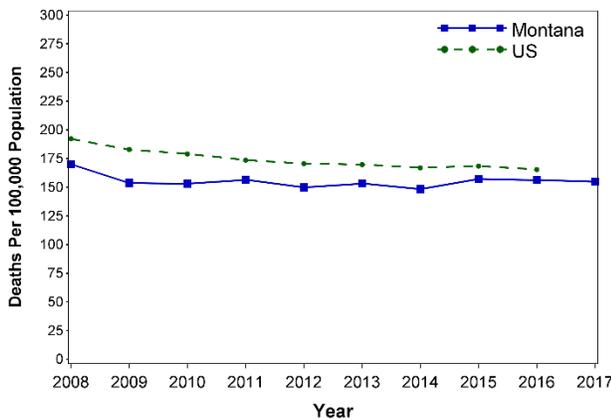


Figure 13
Age-Specific Death Rates for
Diseases of Heart

Montana Residents, 2017

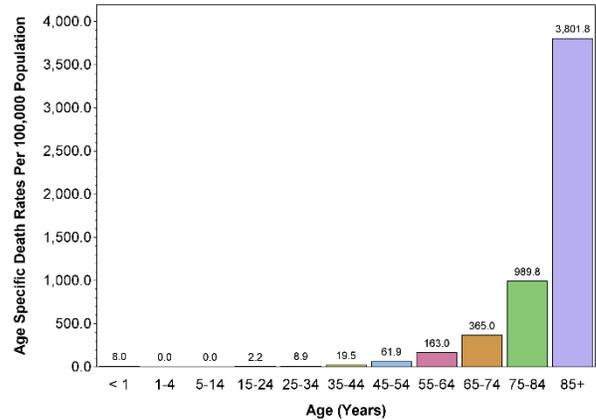


Figure 14
Age-Adjusted Death Rates for
Malignant Neoplasms (Cancer)

Montana and U.S. Residents, 2008-2017

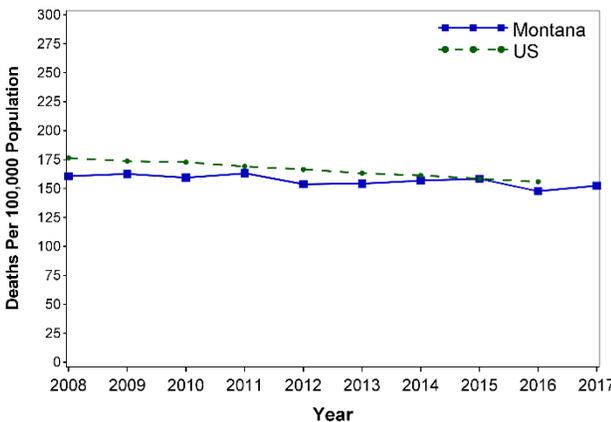


Figure 15
Age-Specific Death Rates for
Malignant Neoplasms (Cancer)

Montana Residents, 2017

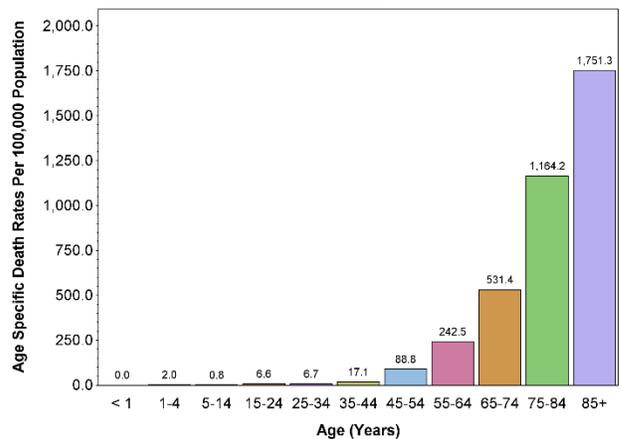


Figure 16
Age-Adjusted Death Rates for
Cerebrovascular Diseases
Montana and U.S. Residents, 2008-2017

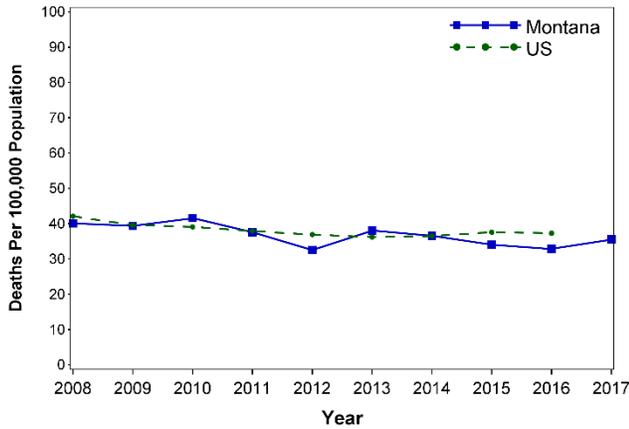


Figure 17
Age-Specific Death Rates for
Cerebrovascular Diseases
Montana Residents, 2017

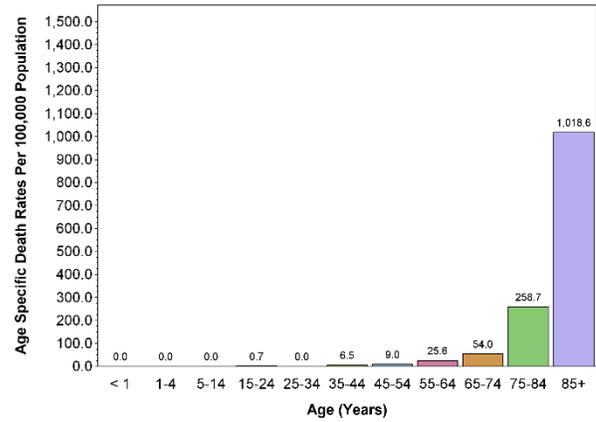


Figure 18
Age-Adjusted Death Rates for
Chronic Lower Respiratory Diseases
Montana and U.S. Residents, 2008-2017

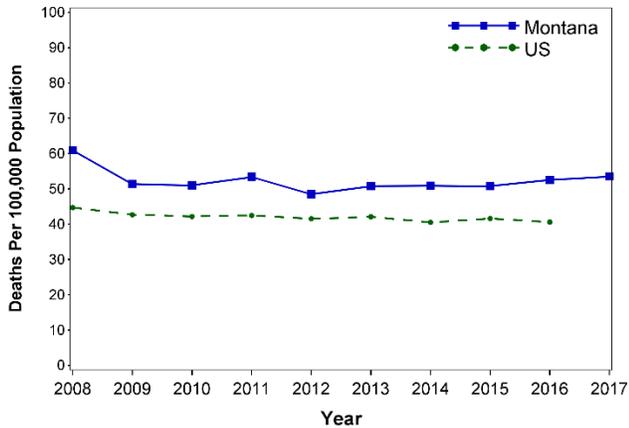


Figure 19
Age-Specific Death Rates for
Chronic Lower Respiratory Diseases
Montana Residents, 2017

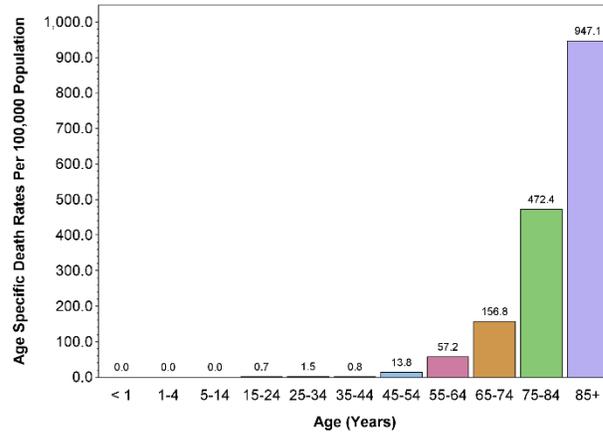


Figure 20
Age-Adjusted Death Rates for
Unintentional Injuries
Montana and U.S. Residents, 2008-2017

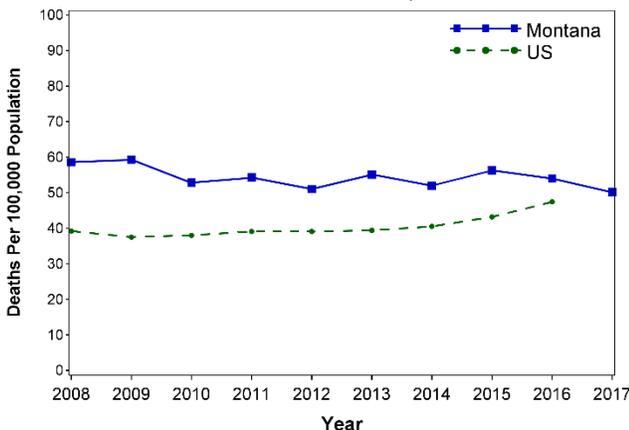


Figure 21
Age-Specific Death Rates for
Unintentional Injuries
Montana Residents, 2017

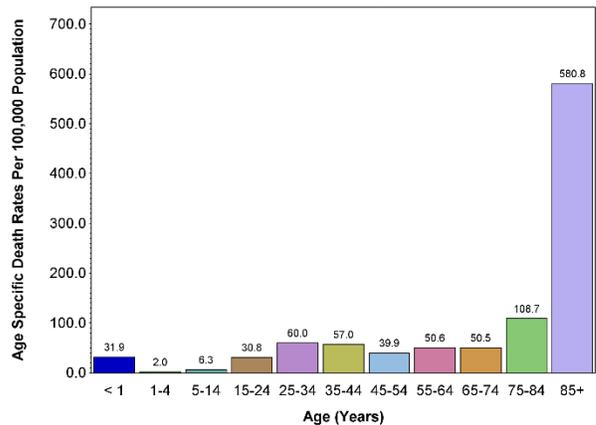


Figure 22
Age-Adjusted Death Rates for
Motor Vehicle Accidents
Montana and the U.S. Residents, 2008-2017

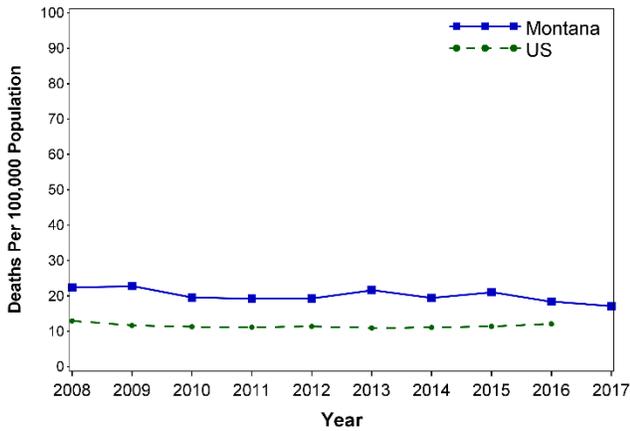


Figure 23
Age-Specific Death Rates for
Motor Vehicle Accidents
Montana Residents, 2017

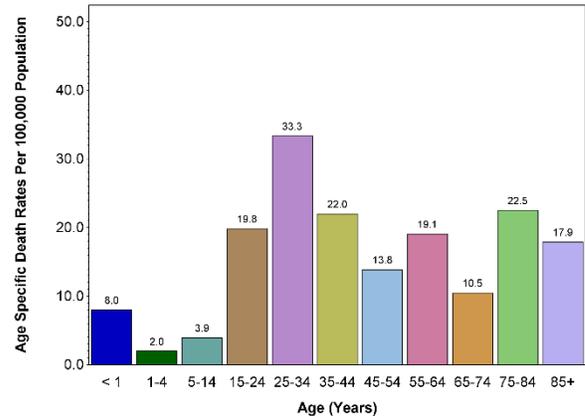


Figure 24
Age-Adjusted Death Rates for
Non-Motor-Vehicle Accidents
Montana and U.S. Residents, 2008-2017

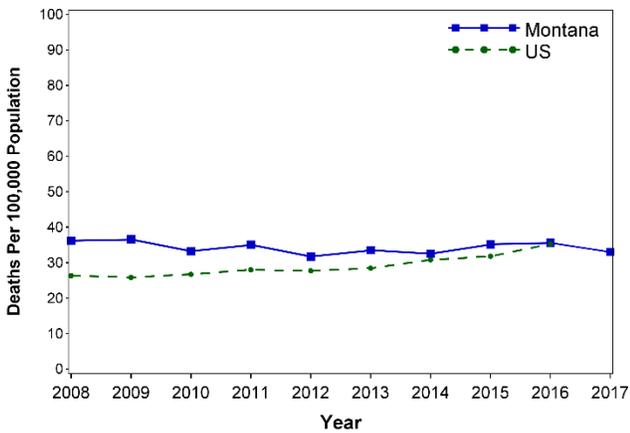


Figure 25
Age-Specific Death Rates for
Non-Motor-Vehicle Accidents
Montana Residents, 2017

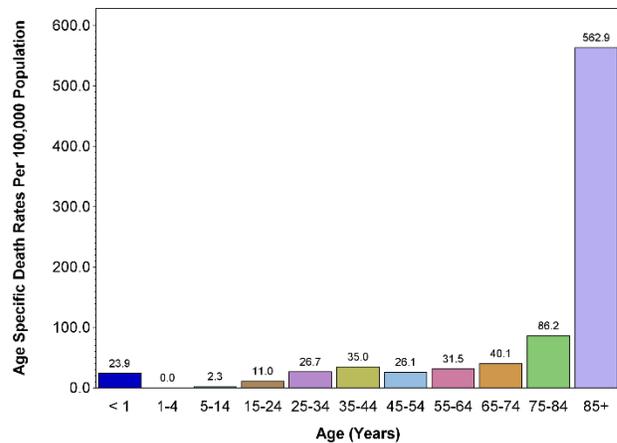


Figure 26
Age-Adjusted Death Rates for
Influenza and Pneumonia
Montana and U.S. Residents, 2008-2017

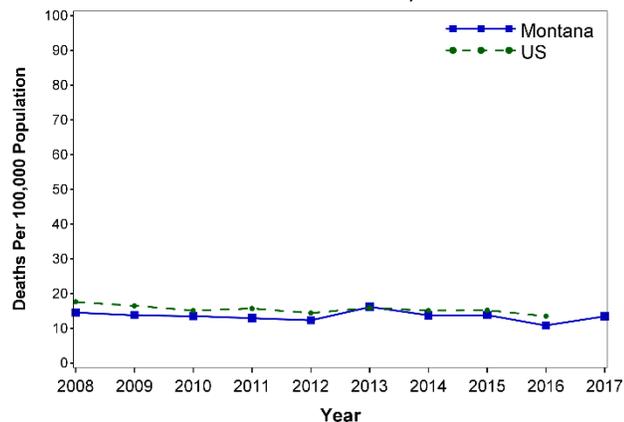


Figure 27
Age-Specific Death Rates for
Influenza and Pneumonia
Montana Residents, 2017

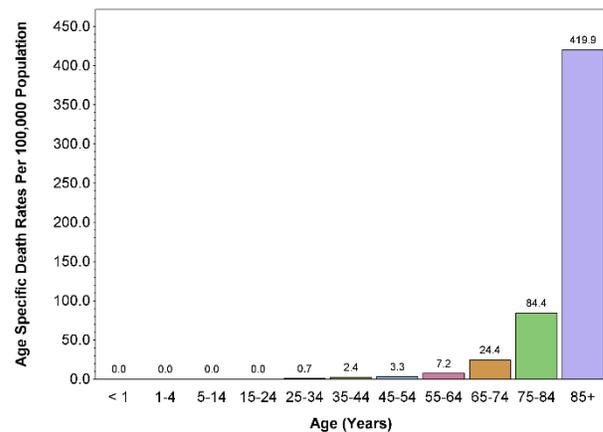


Figure 28
Age-Adjusted Death Rates for
Diabetes Mellitus
Montana and U.S. Residents, 2008-2017

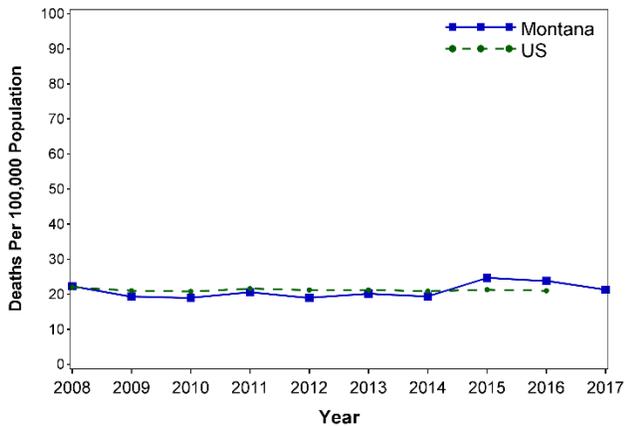


Figure 29
Age-Specific Death Rates for
Diabetes Mellitus
Montana Residents, 2017

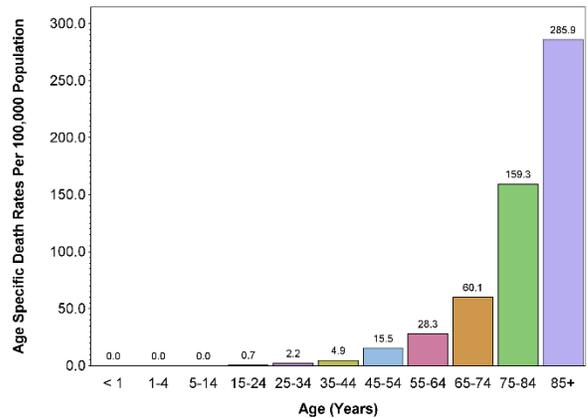


Figure 30
Age-Adjusted Death Rates for
Intentional Self-Harm (Suicide)
Montana and U.S. Residents, 2008-2017

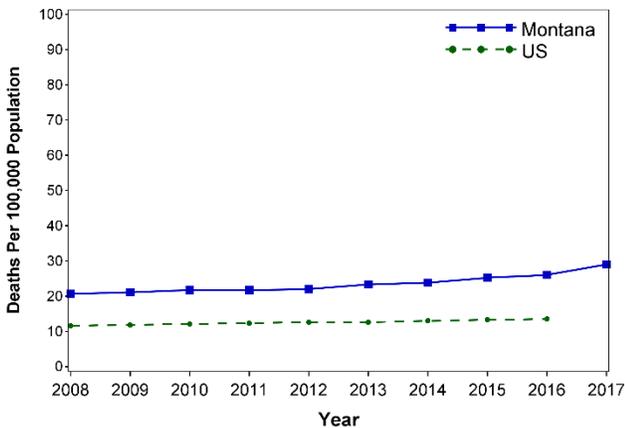


Figure 31
Age-Specific Death Rates for
Intentional Self-Harm (Suicide)
Montana Residents, 2017

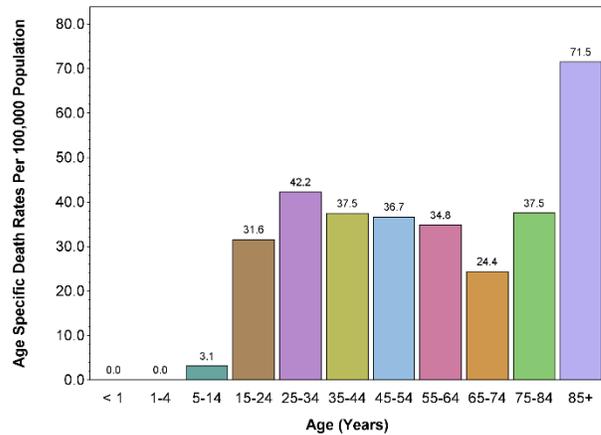


Figure 32
Age-Adjusted Death Rates for
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Montana and U.S. Residents, 2008-2017

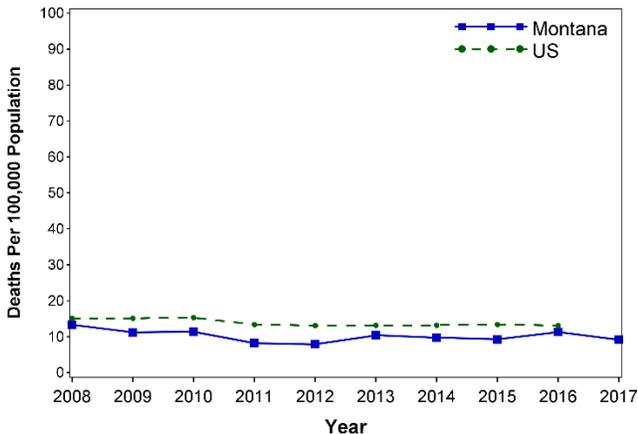


Figure 33
Age-Specific Death Rates for
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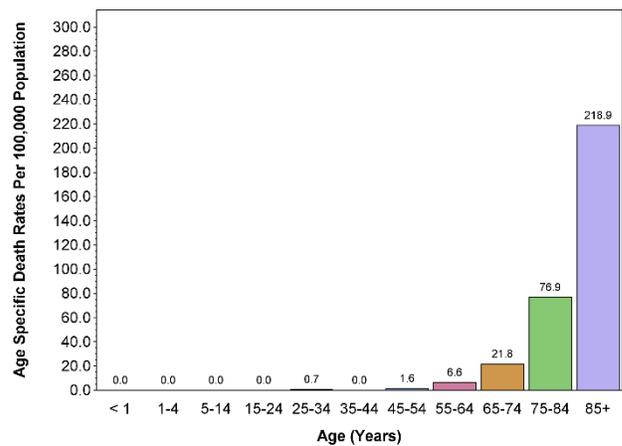


Figure 34
Age-Adjusted Death Rates for
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Montana and U.S. Residents, 2008-2017

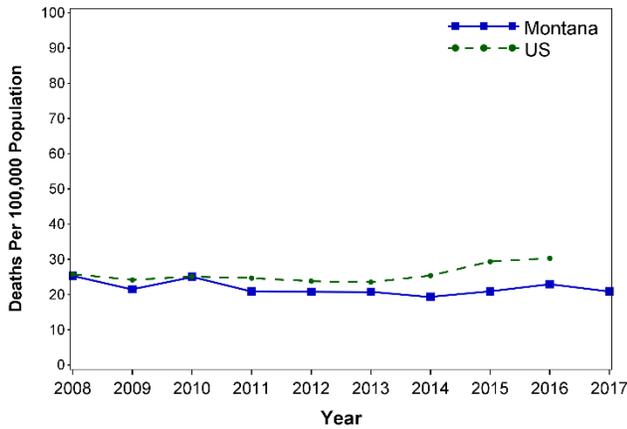


Figure 35
Age-Specific Death Rates for
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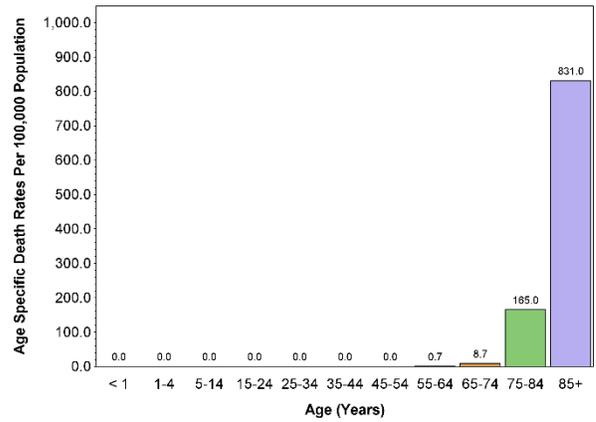


Figure 36
Age-Adjusted Death Rates for
Chronic Liver Disease and Cirrhosis
Montana and U.S. Residents, 2008-2017

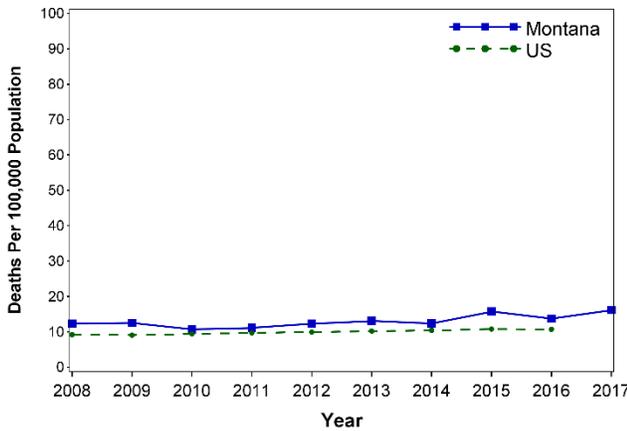


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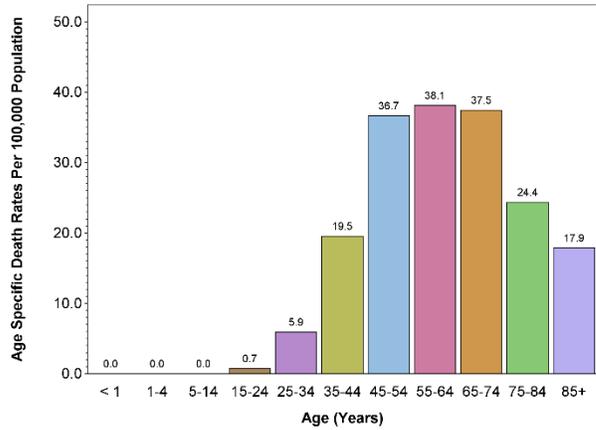


Figure 38
Age-Adjusted Death Rates for
Assault (Homicide)
Montana and U.S. Residents, 2008-2017

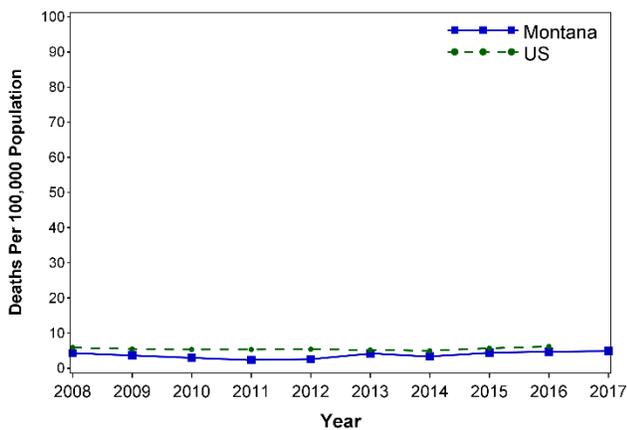


Figure 39
Age-Specific Death Rates for
Assault (Homicide)
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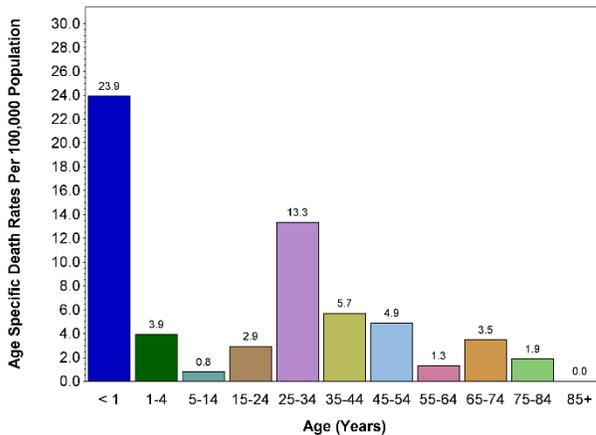


Table 2. Frequency of Death by Selected Cause, Race, and Sex, Montana Residents, 2013-2017.

Cause of Death	ALL RACES		WHITE		AI/AN		OTHER	
	Male	Female	Male	Female	Male	Female	Male	Female
All Causes	25,382	23,457	23,596	21,900	1,623	1,407	163	150
HIV Infection	20	†	16	†	†	†	†	0
Cancer	5,536	4,805	5,274	4,576	230	203	32	26
Diabetes	828	596	693	498	127	94	8	†
Alzheimer's Disease	482	910	473	895	8	9	†	6
Heart Disease	5,751	4,565	5,437	4,351	280	192	34	22
Cerebrovascular Disease	997	1,342	958	1,284	34	51	5	7
Atherosclerosis	57	41	56	41	†	0	0	0
Influenza & Pneumonia	420	482	394	452	23	27	†	†
Chronic Lower Respiratory Diseases	1,628	1,835	1,563	1,741	59	88	6	6
Chronic Liver Disease & Cirrhosis	507	331	375	227	129	100	†	†
Nephritis, Nephrotic Syndrome & Nephrosis	340	318	305	274	32	40	†	†
Congenital Malformations & Chromosomal Anomalies	103	74	90	65	9	9	†	0
Conditions Originating in Perinatal Period	74	53	56	35	16	14	†	†
Sudden Infant Death Syndrome	22	10	11	†	9	†	†	†
Motor Vehicle Accidents	677	336	564	258	105	76	8	†
Non-Motor Vehicle Accidents	1,127	861	1,034	789	88	68	5	†
Suicide	1,044	292	952	261	84	28	8	†
Homicide	120	62	83	46	35	13	†	†
Other Causes	5,649	6,542	5,262	6,102	351	390	36	50

Table 3. Frequency of Death by Selected Leading Causes of Death and Age, Montana Residents, 2013-2017.

Cause of Death	All Ages	Under 1 Year	1 4 Years	5 14 Years	15 24 Years	25 34 Years	35 44 Years	45 54 Years	55 64 Years	65 74 Years	75 84 Years	85+ Years
All Causes	48,840	346	72	107	616	959	1,298	2,741	6,243	8,891	11,769	15,798
HIV Infection	22	0	0	0	0	†	6	5	8	†	0	0
Cancer	10,341	0	†	5	23	61	134	568	1,931	2,933	2,830	1,852
Diabetes	1,424	0	0	0	10	8	41	116	238	330	373	308
Alzheimer's Disease	1,392	0	0	0	0	0	0	0	10	70	396	916
Heart Disease	10,316	†	0	†	13	32	120	439	1,238	1,845	2,485	4,139
Cerebrovascular Disease	2,339	†	0	†	†	8	18	61	168	302	665	1,109
Atherosclerosis	98	0	0	0	0	0	0	†	6	23	33	34
Influenza & Pneumonia	902	5	†	†	†	6	14	28	58	117	215	454
Chronic Lower Respiratory Diseases	3,463	†	0	0	†	6	9	79	384	866	1,140	974
Chronic Liver Disease & Cirrhosis	838	0	0	0	†	27	104	207	252	155	73	17
Nephritis, Nephrotic Syndrome & Nephrosis	658	0	0	0	0	6	8	30	65	116	183	250
Congenital Malformations & Chromosomal Anomalies	178	76	†	5	6	8	7	6	33	18	7	10
Conditions Originating in Perinatal Period	127	122	†	†	†	†	†	0	0	0	0	0
Sudden Infant Death Syndrome	32	32	0	0	0	0	0	0	0	0	0	0
Motor Vehicle Accidents	1,013	†	16	20	200	193	129	141	138	96	52	26
Non-Motor Vehicle Accidents	1,988	10	19	21	69	159	180	209	229	182	284	626
Suicide	1,336	0	0	23	182	230	210	218	240	116	74	43
Homicide	182	8	9	5	21	41	34	30	15	12	6	†
Other Causes	12,191	83	19	22	79	173	283	602	1,230	1,708	2,953	5,039

Age, Sex, and Race

Different causes of death are likely to be associated with different ages, sexes and races of the decedent. **Table 2** illustrates some of the difference in the causes of death among males versus females. For instance, more males than females died of heart disease, cancer, chronic liver disease and cirrhosis, diabetes, and—most strikingly—violence (suicide, homicide) and unintentional injury. Over three and a half times as many males as females died by suicide in this five-year period. Almost twice as many males as females died of homicide. About half-again as many males as females died from accidental deaths.

On the other hand, slightly more females than males died of influenza and pneumonia, as well as chronic lower respiratory diseases. Almost twice the number of females as males died of Alzheimer’s disease. About thirty-five percent more females than males died of cerebrovascular disease. Typically, those dying of these causes lived the longest lives, as measured by the decedents’ median age at death (see **Table D-9**), reflecting the relative longevity of females.

Table 2 also illustrates some of the similarities and differences in the causes of death among whites compared to American Indians. The top two causes of death were heart disease and cancer among both groups. The next three leading causes, however, were different. Among whites, they were chronic lower respiratory disease, cerebrovascular disease, and non-motor vehicle accidents. Among Americans Indians, they were chronic liver disease and cirrhosis, diabetes, and motor vehicle accidents.

As age at death has increased, chronic diseases have become the most frequent causes of death (**Table 3**). Cancer and heart disease were the leading causes of death for decedents aged 45 to 84 years, accounting for about half of the deaths in that age group. However, for persons aged 85 years and older, heart disease accounted for about a quarter of the deaths, with cancer causing only about a ninth. Frequencies and crude rates for the ten leading causes of death (for decedents of all ages) are shown for Montana and each county in **Table S-4**.

Accidents caused a greater proportion of the deaths among the young than the old. They accounted for

nearly a fifth of the deaths of those aged 14 years or younger, nearly half of the deaths of those between the ages of 15 and 24 years, and nearly two-fifths of those between the ages of 25 and 34 years. By contrast, accidents accounted for less than four percent of the deaths of those aged 65 years and older.

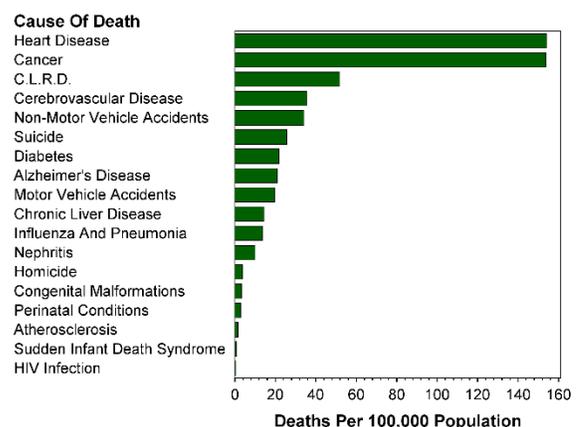
Suicide was the cause of death for about a fifth of the decedents between the ages of 15 and 44, but by contrast it was the cause of death for less than one percent of decedents 65 years of age or over.

Years of Potential Life Lost

Premature deaths are deaths that occur before a person reaches an expected age of 75 years, which is measured in terms of Years of Potential Life Lost (YPLL). For example, if a 25-year old were to die in a motor vehicle accident that person would have 50-years of potential life lost. Many premature deaths are considered preventable. This measure is referred to here as YPLL-75.

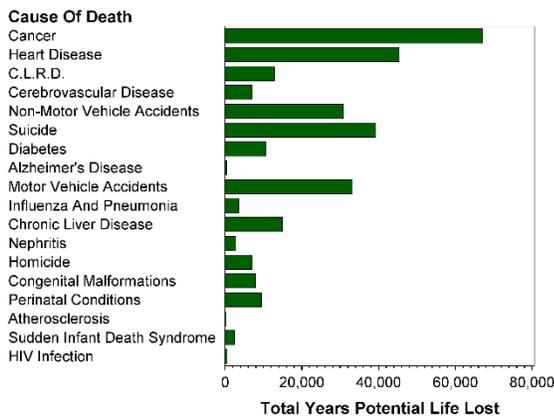
Similar results are observed when the number of Montanans of all ages who died of one of the listed causes is combined over the five-year period, 2013-2017 (**Figure 40**). While the numbers who died of these causes are larger than those for the single year of 2017, the proportions and rankings for the causes are remarkably similar. Cancer and heart disease clearly outpace the other specified causes, with each accounting for a little more than a fifth of all decedents.

Figure 40
Age-Adjusted Death Rate by Cause of Death
Montana Residents, 2013-2017



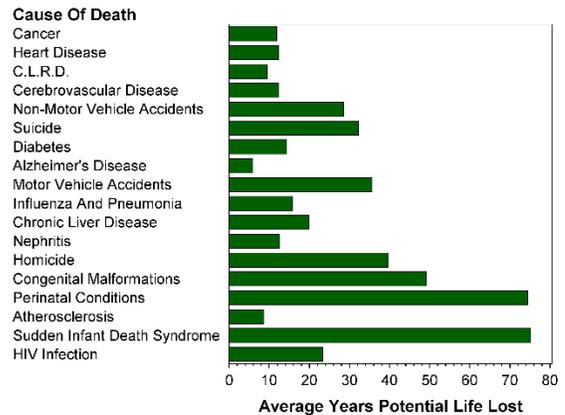
The leading causes of premature death were accidents, cancer, heart disease, and suicide (Figure 41). Cancer and heart disease cause a large social loss because of the numbers of deaths they cause, both among decedents of advanced age and those less than 75 years of age. More than half of all cancer decedents were less than age 75, and more than a third of heart disease victims were younger than this age. Only decedents younger than 75 at the time of death are reflected in this figure. Unintentional injury (both motor-vehicle and non-motor-vehicle) and suicide comprised a little less than ten percent of the deaths in these years but accounted for about a third of the total losses as measured by YPLL-75. This disparity in proportions points to the relatively large cost (in terms of length of life lost) of the typical death from traumatic causes and emphasizes the many young people lost to such potentially preventable causes of death.

Figure 41
Total Years of Potential Life Lost Before Age 75
By Cause of Death
Montana Residents, 2013-2017



Average YPLL-75 is calculated by dividing the total YPLL-75 for each cause of death by the number of decedents less than 75 years of age (Figure 42). While total YPLL-75 emphasizes the loss to society in terms of years of lost life, average YPLL-75 emphasizes the loss to the individual. Also, standardizing YPLL in this way makes the measure useful for measuring progress over time in public health and safety and disparities among sub-populations.

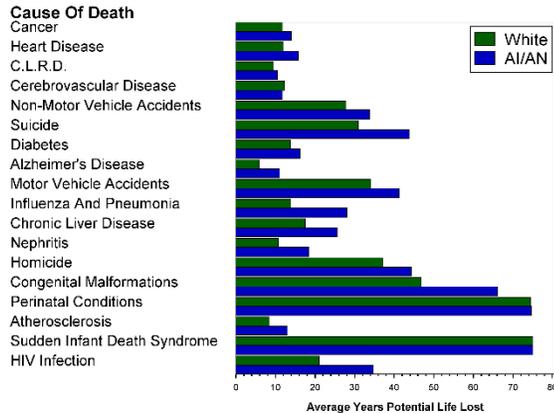
Figure 42
Average Years of Potential Life Lost Before Age 75
By Cause of Death
Montana Residents, 2013-2017



The category sudden infant death syndrome (SIDS), a cause of death diagnosis reserved for infants alone, showed the greatest average loss to an individual (the full 75 years lost). This was followed closely by conditions originating in the perinatal period, and congenital anomalies, causes which claim mostly infants, toddlers, and, occasionally, older children. The traumatic causes of death— homicide, motor vehicle accidents, suicide, and other unintentional injuries—are next in ranking, followed by HIV infection, and finally various chronic diseases.

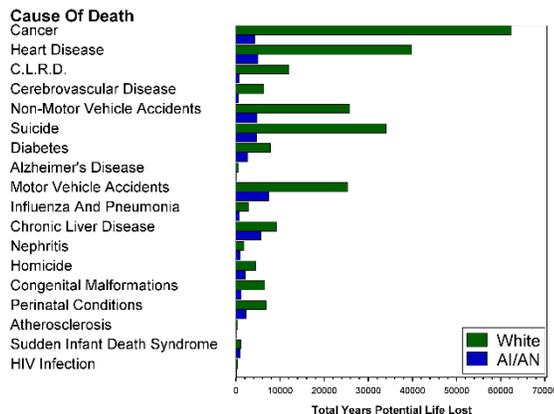
Several causes of death demonstrated a greater impact on American Indians (AI) than white decedents when considering average years of potential life lost (Figure 43 and Table D-9). These data show that typically, measuring by median age at death, American Indians have lifespans 18 years shorter than whites—roughly a quarter of the typical lifespan for whites. Some of the more notable causes of death affecting American Indians in this way include congenital malformations and chromosomal anomalies (difference of 34 years), non-motor vehicle accidents (28 years), and suicide (20 years). American Indians living in Montana typically die at a younger age than whites for nearly every cause of death listed in Table D-9 except for SIDS, and conditions originating in the perinatal period (i.e. near the time of birth).

Figure 43
 Average Years of Potential Life Lost Before Age 75
 By Cause of Death and Race
 Montana Residents, 2013-2017



However, when considering total years of potential life lost, the white population is impacted greatest simply because about 90% of Montana’s population is white alone (i.e. with no other race mentioned) (Figure 44 and Table D-9). From this perspective, cancer (20.3% of total YPLL), heart disease (13.0%), suicide (11.1%), non-motor vehicle accidents (8.4%), and motor vehicle accidents (8.2%), while the American Indian population is impacted most by motor vehicle accidents (13.0%), chronic liver disease and cirrhosis (9.8%), heart disease (8.7%), non-motor vehicle accidents (8.4%), and suicide (8.3%). While four of these five causes are in both lists, they are in a strikingly different order and proportion of total YPLL for the two races.

Figure 44
 Total Years of Potential Life Lost Before Age 75
 By Cause of Death and Race
 Montana Residents, 2013-2017



INDUCED ABORTION

There were 1,561 induced abortions performed in Montana in 2017. Of those, 1,415 were performed on Montana residents. Since the reporting of induced abortions began, the ratio of such abortions performed in Montana to the number of live-born babies delivered in the state increased rapidly for the first several years and has fallen steadily for the last quarter of a century. The abortion ratio was its highest at 295.6 in 1983 (**Figure 45**). The trend fell and rose again to a near-peak (295.2) in 1990. From 1990 to the present, it has generally trended downward. The ratio was 132.8 in 2017, the third lowest recorded since 1983. The ratio was 128.6 in 2015.

Table S-1 shows the frequency of induced abortions occurring (i.e. performed) in Montana and the ratio of these abortions to the number of live births occurring in the state.

Table S-5 shows the frequency of induced abortions by age and county of residence. The frequency of induced abortion in this table is for Montana residents receiving the procedure in Montana.

Table A-3 shows the frequency and percent of induced abortions by method and year.

Table A-4 shows the frequency and percent of induced abortions by race of patient and year.

Table A-5 shows the frequency and percent of induced abortions by number of previous induced abortions and year.

Table A-6 shows the frequency and percent of induced abortions by number of previous live births and year.

Figure 45

Ratio of Induced Abortions to Live Births
Montana Occurrences, 1982-2017

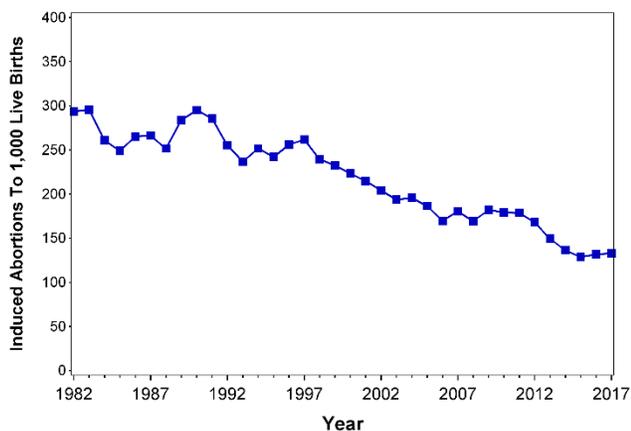


Table A-1 shows the frequency and percent of induced abortions by age of patient and year.

Table A-2 shows the frequency and percent of induced abortions by completed weeks of gestation and year.

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Table S-1
 Frequency and Rate or Ratio of Death, Live Birth, Fetal, Infant, and Maternal Death,
 Marriage, Marital Termination, and Induced Abortion by Year
 Montana, 1910-2017

Year	Estimated Midyear Population	Deaths ¹		Live Births ¹		Fetal Deaths ¹		Infant Deaths ¹		Maternal Deaths ¹		Marriages ²		Marital Terminations ^{2,3}		Induced Abortions ²	
		Number	Rate*	Number	Rate*	Number	Ratio+	Number	Rate*	Number	Rate ⁺	Number	Rate*	Number	Rate*	Number	Ratio+
2017	1,050,493	10,203	9.7	11,800	11.2	51	4.3	64	5.4	2	±	8,381	8.0	3,267	3.1	1,561	132.8
2016	1,038,656	9,902	9.5	12,274	11.8	53	4.3	73	5.9	1	±	8,167	7.9	3,237	3.1	1,618	131.8
2015	1,028,317	9,937	9.7	12,580	12.2	45	3.6	75	6.0	0	±	8,223	8.0	3,536	3.4	1,611	128.6
2014	1,019,931	9,345	9.2	12,431	12.2	52	4.2	68	5.5	3	±	8,037	7.9	3,529	3.5	1,690	136.3
2013	1,011,921	9,453	9.3	12,351	12.2	54	4.4	66	5.3	4	±	7,511	7.4	3,670	3.6	1,842	149.4
2012	1,003,522	8,876	8.8	12,052	12.0	57	4.7	71	5.9	0	±	7,850	7.8	3,937	3.9	2,031	168.3
2011	996,866	9,005	9.0	12,039	12.1	62	5.1	69	5.7	5	±	7,754	7.8	4,020	4.0	2,147	178.7
2010	990,507	8,803	8.9	12,058	12.2	52	4.3	71	5.9	1	±	7,335	7.4	3,909	3.9	2,160	179.0
2009	983,982	8,704	8.8	12,280	12.5	58	4.7	72	5.9	5	±	7,231	7.3	3,973	4.0	2,223	182.2
2008	976,415	8,897	9.1	12,595	12.9	39	3.1	87	6.9	1	±	7,467	7.6	3,382	3.5	2,125	169.3
2007	964,706	8,570	8.9	12,437	12.9	38	3.1	76	6.1	2	±	7,263	7.5	4,720	4.9	2,238	180.5
2006	952,692	8,434	8.9	12,499	13.1	49	3.9	70	5.6	0	±	7,055	7.4	4,176	4.4	2,119	169.7
2005	940,102	8,496	9.0	11,573	12.3	54	4.7	81	7.0	1	±	6,964	7.4	3,983	4.2	2,155	186.5
2004	930,009	8,079	8.7	11,514	12.4	40	3.5	53	4.6	2	±	6,946	7.5	3,516	3.8	2,256	195.7
2003	919,630	8,439	9.2	11,384	12.4	55	4.8	76	6.7	2	±	6,640	7.2	3,255	3.5	2,213	193.8
2002	911,667	8,479	9.3	11,045	12.1	51	4.6	81	7.3	0	±	6,514	7.1	3,634	4.0	2,249	204.1
2001	906,961	8,257	9.1	10,947	12.1	37	3.4	73	6.7	2	±	6,612	7.3	3,735	4.1	2,350	214.9
2000	903,773	8,075	8.9	10,946	12.1	47	4.3	63	5.8	1	±	6,870	7.6	3,694	4.1	2,441	223.4
1999	897,511	8,100	9.0	10,778	12.0	56	5.2	72	6.7	0	±	6,785	7.6	3,318	3.7	2,499	232.6
1998	892,431	7,985	8.9	10,789	12.1	65	6.0	83	7.7	1	±	6,436	7.2	3,698	4.1	2,573	239.5
1997	889,867	7,745	8.7	10,838	12.2	43	4.0	74	6.8	0	±	6,708	7.5	4,058	4.6	2,809	261.8
1996	886,256	7,696	8.7	10,840	12.2	56	5.2	75	6.9	1	±	6,609	7.5	4,238	4.8	2,763	256.1
1995	876,553	7,626	8.7	11,136	12.7	58	5.2	82	7.4	0	±	6,818	7.8	4,214	4.8	2,674	242.0
1994	861,306	7,342	8.5	11,062	12.8	45	4.1	82	7.4	0	±	7,088	8.2	4,196	4.9	2,761	251.7
1993	844,761	7,468	8.8	11,362	13.4	62	5.5	84	7.4	0	±	7,041	8.3	4,311	5.1	2,645	236.6
1992	825,770	7,073	8.6	11,468	13.9	69	6.0	85	7.4	0	±	7,189	8.7	4,223	5.1	2,869	255.3
1991	809,680	7,004	8.7	11,498	14.2	78	6.8	82	7.1	1	±	6,984	8.6	4,443	5.5	3,226	285.6
1990	800,204	6,837	8.5	11,602	14.5	67	5.8	107	9.2	0	±	6,924	8.7	4,049	5.1	3,365	295.2
1989	805,600	6,741	8.4	11,667	14.5	80	6.9	133	11.4	0	±	6,765	8.4	4,104	5.1	3,245	283.9
1988	805,000	6,759	8.4	11,682	14.5	92	7.9	100	8.6	1	±	6,784	8.4	4,063	5.0	2,866	251.6
1987	809,000	6,597	8.2	12,239	15.1	96	7.8	121	9.9	0	±	6,540	8.1	4,116	5.1	3,175	266.3
1986	819,000	6,738	8.2	12,728	15.5	95	7.5	122	9.6	2	±	6,739	8.2	4,307	5.3	3,295	265.1
1985	826,000	6,725	8.1	13,497	16.3	96	7.1	139	10.3	0	±	7,178	8.7	4,258	5.2	3,291	249.0
1984	824,000	6,698	8.1	14,141	17.2	110	7.8	125	8.8	1	±	7,659	9.3	4,355	5.3	3,618	260.9
1983	817,000	6,699	8.2	14,054	17.2	91	6.5	126	9.0	4	±	8,092	9.9	4,644	5.7	4,061	295.6
1982	801,000	6,625	8.3	14,538	18.1	93	6.4	147	10.1	1	±	8,185	10.2	4,612	5.8	4,175	293.3
1981	793,000	6,709	8.5	14,309	18.0	85	5.9	153	10.7	0	±	8,209	10.4	5,004	6.3	3,838	274.2
1980	786,690	6,664	8.5	14,208	18.1	104	7.3	176	12.4	2	±	8,336	10.6	4,940	6.3	3,471	250.2
1979	786,000	6,471	8.2	14,057	17.9	116	8.3	151	10.7	4	±	8,195	10.4	5,106	6.5	3,447	249.8
1978	785,000	6,484	8.3	13,545	17.3	110	8.1	155	11.4	3	±	8,136	10.4	4,877	6.2	3,092	233.5
1977	761,000	6,397	8.4	13,304	17.5	119	8.9	183	13.8	1	±	7,547	9.9	4,813	6.3	2,539	194.5
1976	753,000	6,733	8.9	12,605	16.7	104	8.3	209	16.6	0	±	7,390	9.8	4,850	6.4	1,803	145.9
1975	748,000	6,539	8.7	12,070	16.1	112	9.3	187	15.5	3	±	7,331	9.8	4,286	5.7	1,535	129.9
1970	694,409	6,597	9.5	12,622	18.2	140	11.1	272	21.5	3	±	6,919	10.0	3,047	4.4	N/A	N/A
1965	706,000	6,578	9.3	13,641	19.3	177	13.0	338	24.8	2	±	4,688	6.6	2,002	2.8	N/A	N/A
1960	674,767	6,525	9.7	17,448	25.9	190	10.9	435	24.9	5	±	5,883	8.7	2,003	3.0	N/A	N/A
1955	636,000	6,115	9.6	17,454	27.4	221	12.7	433	24.8	5	±	6,514	10.2	1,909	3.0	N/A	N/A
1950	591,024	5,817	9.8	15,592	26.4	233	14.9	441	28.3	20	128.3	7,235	12.2	1,951	3.3	N/A	N/A
1945	504,600	5,414	10.7	10,601	21.0	184	17.4	363	34.2	17	±	8,147	16.1	2,380	4.7	N/A	N/A
1940	559,456	5,722	10.2	11,468	20.5	216	18.8	527	46.0	39	340.1	N/A	N/A	N/A	N/A	N/A	N/A
1935	549,077	6,291	11.5	10,029	18.3	232	23.1	602	60.0	52	518.5	N/A	N/A	N/A	N/A	N/A	N/A
1930	537,606	5,435	10.1	10,004	18.6	286	28.6	569	56.9	67	669.7	N/A	N/A	N/A	N/A	N/A	N/A

¹ Data for 1910-1945 are by place of occurrence. Beginning in 1946, death, live birth, fetal, infant and maternal death tabulation are by place of residence.

² Marriages, marital terminations, and induced abortion tabulations by place of occurrence.

³ Marital termination data were collected by the Montana Office of Vital Statistics (OVS) through October of 1998 and by the Montana Judicial Branch thereafter. Data collected by the Judicial Branch are not strictly comparable to those collected by OVS and should be used with caution.

* Per 1,000 estimated midyear population.

+ Per 1,000 live births

^ Per 100,000 live births

± Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

N/A - Not available

Table S-1
 Frequency and Rate or Ratio of Death, Live Birth, Fetal, Infant, and Maternal Death,
 Marriage, Marital Termination, and Induced Abortion by Year
 Montana, 1910-2017

Year	Estimated Midyear Population	Deaths ¹		Live Births ¹		Fetal Deaths ¹		Infant Deaths ¹		Maternal Deaths ¹		Marriages ²		Marital Terminations ^{2,3}		Induced Abortions ²	
		Number	Rate*	Number	Rate*	Number	Ratio+	Number	Rate*	Number	Rate [^]	Number	Rate*	Number	Rate*	Number	Ratio+
1925	542,834	5,188	9.6	10,302	19.0	343	33.3	726	70.5	83	805.7	N/A	N/A	N/A	N/A	N/A	N/A
1920	548,339	5,289	9.6	11,862	21.6	N/A	N/A	862	72.7	104	876.7	N/A	N/A	N/A	N/A	N/A	N/A
1915	468,067	5,072	10.8	11,132	23.8	N/A	N/A	816	73.3	91	817.5	N/A	N/A	N/A	N/A	N/A	N/A
1910	376,053	3,999	10.6	6,124	16.3	N/A	N/A	714	116.6	62	1,012.4	N/A	N/A	N/A	N/A	N/A	N/A

¹ Data for 1910-1945 are by place of occurrence. Beginning in 1946, death, live birth, fetal, infant and maternal death tabulation are by place of residence.

² Marriages, marital terminations, and induced abortion tabulations by place of occurrence.

³ Marital termination data were collected by the Montana Office of Vital Statistics (OVS) through October of 1998 and by the Montana Judicial Branch thereafter. Data collected by the Judicial Branch are not strictly comparable to those collected by OVS and should be used with caution.

* Per 1,000 estimated midyear population.

+ Per 1,000 live births

[^] Per 100,000 live births

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

N/A - Not available

Table S-2
Frequency of Live Births, Deaths, Fetal, Infant and Maternal Deaths
by County of Occurrence and County of Residence
Montana, 2017

County	Live Births		Deaths		Fetal Deaths		Infant Deaths		Maternal Deaths	
	Occ.	Res.	Occ.	Res.	Occ.	Res.	Occ.	Res.	Occ.	Res.
Montana Total	11,755	11,800	10,273	10,203	48	51	62	64	†	†
Beaverhead	72	80	92	99	†	†	0	†	0	0
Big Horn	8	255	86	134	†	†	†	†	0	0
Blaine	0	83	39	63	0	†	0	†	0	0
Broadwater	†	54	52	62	0	†	†	0	0	0
Carbon	†	75	81	105	0	0	†	0	0	0
Carter	0	19	18	19	0	0	0	0	0	0
Cascade	1,447	1,078	1,145	938	†	†	9	5	0	0
Chouteau	0	46	51	66	0	0	0	†	0	0
Custer	222	129	123	129	†	†	0	0	0	0
Daniels	0	16	20	25	0	0	0	0	0	0
Dawson	60	83	108	102	0	0	0	0	0	0
Deer Lodge	186	69	107	114	†	†	0	0	0	0
Fallon	0	40	23	34	0	0	0	†	0	0
Fergus	78	117	161	176	†	0	†	0	0	0
Flathead	1,244	1,112	1,026	922	†	†	7	5	0	0
Gallatin	1,338	1,234	561	560	6	5	†	†	0	0
Garfield	0	14	10	16	0	0	0	0	0	0
Glacier	162	240	111	181	0	†	0	†	0	0
Golden	0	12	†	6	0	0	0	†	0	0
Granite	†	18	26	37	0	†	0	0	0	0
Hill	352	301	141	152	†	†	†	†	0	0
Jefferson	5	101	67	102	0	0	0	0	0	0
Judith	0	12	6	14	0	0	0	0	0	0
Lake	239	328	255	322	0	0	†	†	0	0
Lewis & Clark	804	760	666	660	†	†	0	†	0	0
Liberty	†	17	17	17	0	0	0	0	0	0
Lincoln	130	160	194	242	0	0	0	†	0	0
McCone	0	19	16	25	0	0	0	0	0	0
Madison	†	51	75	84	0	†	0	0	†	†
Meagher	0	13	14	22	0	0	0	0	0	0
Mineral	†	37	32	46	0	0	0	†	0	0
Missoula	1,670	1,138	1,122	910	12	8	13	8	0	0
Musselshell	0	42	52	64	0	0	0	0	0	0
Park	123	151	126	151	0	†	0	0	0	0
Petroleum	0	†	†	†	0	†	0	0	0	0
Phillips	†	45	37	45	0	0	0	0	0	0
Pondera	†	82	55	80	0	0	0	0	0	0
Powder River	0	22	16	20	0	0	0	0	0	0
Powell	†	60	68	73	0	0	0	0	0	0
Prairie	0	12	15	18	0	0	0	0	0	0
Ravalli	125	371	357	458	0	†	0	†	0	0
Richland	181	133	97	100	0	0	†	0	0	0
Roosevelt	88	215	86	124	0	†	†	7	0	0
Rosebud	15	145	65	96	0	0	†	†	0	0
Sanders	33	118	118	160	0	0	0	0	0	0
Sheridan	0	43	39	42	0	0	0	0	0	0
Silver Bow	268	368	398	418	0	†	0	0	0	0
Stillwater	†	75	72	90	0	†	0	0	0	0
Sweet Grass	†	34	29	32	0	0	0	0	0	0
Teton	†	79	30	70	0	0	0	†	0	0
Toole	37	60	40	45	0	0	0	0	0	0
Treasure	0	11	9	11	0	0	0	0	0	0
Valley	127	86	58	85	0	0	0	†	0	0
Wheatland	0	26	27	36	0	0	0	0	0	0
Wibaux	0	10	14	14	0	0	0	0	0	0
Yellowstone	2,716	1,899	2,012	1,572	12	9	16	7	†	†
Not Stated	0	0	†	12	0	†	0	0	0	0

† Frequency is fewer than five.

Table S-3
Frequency of Live Births, Deaths, Fetal, Infant and Child Deaths
by Race*, Montana Residents, 1989-2017

Year	Live Births				Deaths				Fetal Deaths				Infant Deaths				Child Deaths**			
	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other
2017	11,800	10,097	1,408	295	10,203	9,449	691	63	51	41	9	†	64	44	19	†	43	29	13	†
2016	12,274	10,580	1,457	237	9,902	9,237	595	70	53	45	5	†	73	51	20	†	70	59	11	0
2015	12,580	10,889	1,488	203	9,937	9,213	653	71	45	38	6	†	75	53	17	5	77	62	13	†
2014	12,431	10,616	1,550	265	9,345	8,730	562	53	52	38	14	0	68	49	14	5	51	37	10	†
2013	12,351	10,596	1,531	224	9,453	8,868	529	56	54	44	9	†	66	47	18	†	52	42	10	0
2012	12,052	10,336	1,475	241	8,876	8,290	538	48	57	45	10	†	71	54	14	†	51	42	8	†
2011	12,039	10,330	1,479	230	9,005	8,476	496	33	62	53	8	†	69	54	12	†	63	51	10	†
2010	12,058	10,425	1,424	209	8,803	8,291	469	43	52	47	†	†	71	60	10	†	78	58	18	†
2009	12,280	10,553	1,523	204	8,704	8,173	489	42	58	53	5	0	72	53	17	†	65	49	16	0
2008	12,595	10,791	1,579	225	8,897	8,378	473	46	39	30	9	0	87	72	15	0	59	49	8	†
2007	12,437	10,642	1,596	199	8,570	8,083	454	33	38	31	7	0	76	61	13	†	59	45	13	†
2006	12,499	10,676	1,608	215	8,434	7,917	481	36	49	40	8	†	70	50	19	†	67	56	11	0
2005	11,573	9,919	1,485	169	8,496	8,019	442	35	54	44	10	0	81	66	15	0	70	56	13	†
2004	11,514	9,847	1,510	157	8,079	7,609	437	33	40	30	10	0	53	41	10	†	73	56	15	†
2003	11,384	9,842	1,400	142	8,439	7,973	425	41	55	46	6	†	76	63	11	†	75	62	9	†
2002	11,045	9,543	1,400	102	8,479	8,011	434	34	51	41	9	†	81	66	12	†	70	57	13	0
2001	10,947	9,464	1,368	115	8,257	7,846	386	25	37	27	9	†	73	63	10	0	63	51	11	†
2000	10,946	9,460	1,327	159	8,075	7,673	366	36	47	40	6	†	63	49	13	†	101	81	20	0
1999	10,778	9,372	1,275	131	8,100	7,637	431	32	56	45	9	†	71	54	16	†	78	64	13	†
1998	10,789	9,467	1,172	150	7,985	7,621	345	19	65	57	8	0	82	70	11	†	68	57	11	0
1997	10,838	9,421	1,292	125	7,745	7,388	336	21	43	38	5	0	74	55	18	†	88	77	11	0
1996	10,840	9,484	1,208	148	7,696	7,352	317	27	56	48	7	†	75	64	10	†	81	71	8	†
1995	11,136	9,856	1,140	140	7,626	7,239	361	26	58	52	†	†	79	70	6	†	106	88	17	†
1994	11,062	9,734	1,201	127	7,342	6,983	331	28	45	40	5	0	82	69	11	†	79	68	11	0
1993	11,362	9,983	1,247	132	7,468	7,121	322	25	62	57	5	0	84	69	13	†	89	74	15	0

* Any racial category may include "Hispanic"; Live birth and fetal deaths are shown by race of the mother.

^ American Indian or Alaska Native

** Ages 1-17 years, inclusive.

† Frequency is fewer than five.

Table S-3
 Frequency of Live Births, Deaths, Fetal, Infant and Child Deaths
 by Race*, Montana Residents, 1989-2017

Year	Live Births				Deaths				Fetal Deaths				Infant Deaths				Child Deaths**			
	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other
1992	11,468	9,978	1,355	135	7,073	6,740	308	25	69	59	9	†	85	66	15	†	105	85	18	†
1991	11,498	10,015	1,363	120	7,004	6,640	339	25	78	69	9	0	82	61	20	†	88	72	16	0
1990	11,602	10,018	1,446	138	6,837	6,488	322	27	67	55	11	†	106	84	21	†	81	70	9	†
1989	11,667	10,203	1,391	73	6,741	6,419	304	18	80	59	21	0	133	97	36	0	94	74	19	†

* Any racial category may include "Hispanic"; Live birth and fetal deaths are shown by race of the mother.

^ American Indian or Alaska Native

** Ages 1-17 years, inclusive.

† Frequency is fewer than five.

Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2017

Item		Montana		Beaverhead		Big Horn		Blaine		Broadwater		Carbon		Carter	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	1,050,493	-	9,434	-	13,360	-	6,708	-	5,936	-	10,696	-	1,222	-
Natural Increase*	Natural Increase*	1,597	1.5	-19	‡	121	9.1	20	3.0	-8	‡	-30	-2.8	0	‡
Births - Residence	Live Births, Total	11,800	11.2	80	8.5	255	19.1	83	12.4	54	9.1	75	7.0	19	‡
	Live Births, Male	6,036	5.7	49	5.2	113	8.5	42	6.3	32	5.4	45	4.2	12	‡
	Live Births, Female	5,764	5.5	31	3.3	142	10.6	41	6.1	22	3.7	30	2.8	7	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	10,203	9.7	99	10.5	134	10.0	63	9.4	62	10.4	105	9.8	19	‡
	Deaths (Excluding Fetal), Male	5,298	5.0	56	5.9	61	4.6	32	4.8	34	5.7	58	5.4	11	‡
	Deaths (Excluding Fetal), Female	4,905	4.7	43	4.6	73	5.5	31	4.6	28	4.7	47	4.4	8	‡
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	64	5.4	†	‡	†	‡	†	‡	0	‡	0	‡	0	‡
	Neonatal (Under 28 Days)	36	3.1	†	‡	†	‡	†	‡	0	‡	0	‡	0	‡
	Postneonatal (28 Days - 1 Year)	28	2.4	0	‡	†	‡	0	‡	0	‡	0	‡	0	‡
	Fetal	51	4.3	†	‡	†	‡	†	‡	†	‡	0	‡	0	‡
	Perinatal	87	7.4	†	‡	†	‡	†	‡	†	‡	0	‡	0	‡
Leading Causes of Death - Residence**	Heart Diseases	2,162	205.8	19	‡	21	157.2	13	‡	20	336.9	18	‡	9	‡
	Malignant Neoplasms	2,142	203.9	19	‡	24	179.6	5	‡	17	‡	21	196.3	†	‡
	Chronic Lower Respiratory Diseases	752	71.6	†	‡	6	‡	5	‡	7	‡	11	‡	†	‡
	Accidents (Unintentional Injuries)	578	55.0	7	‡	11	‡	†	‡	0	‡	9	‡	†	‡
	Cerebrovascular Diseases	487	46.4	†	‡	†	‡	8	‡	0	‡	7	‡	†	‡
	Alzheimer's Disease	285	27.1	5	‡	†	‡	†	‡	†	‡	†	‡	0	‡
	Diabetes Mellitus	290	27.6	5	‡	12	‡	†	‡	†	‡	†	‡	†	‡
	Intentional Self-Harm (Suicide)	312	29.7	†	‡	†	‡	†	‡	†	‡	†	‡	†	‡
	Chronic Liver Disease and Cirrhosis	196	18.7	†	‡	8	‡	†	‡	0	‡	†	‡	0	‡
	Influenza and Pneumonia	186	17.7	†	‡	†	‡	†	‡	0	‡	†	‡	0	‡
Births - Occurrence	Live Births, Total	11,755	11.2	72	7.6	8	‡	0	‡	†	‡	†	‡	0	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	10,273	9.8	92	9.8	86	6.4	39	5.8	52	8.8	81	7.6	18	‡
	Motor Vehicle Accidents	205	0.2	†	‡	13	‡	0	‡	6	‡	†	‡	0	‡
	Non-Motor Vehicle Accidents	408	0.4	†	‡	†	‡	†	‡	†	‡	5	‡	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	62	5.3	0	‡	†	‡	0	‡	†	‡	†	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	8,381	8.0	61	6.5	78	5.8	21	3.1	38	6.4	163	15.2	5	‡
	Licenses Issued	8,381	8.0	66	7.0	75	5.6	21	3.1	38	6.4	115	10.8	5	‡
Marital Terminations - Occurrence	Marital Terminations	3,266	3.1	30	3.2	11	‡	†	‡	11	‡	27	2.5	†	‡

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population.

** Cause-specific resident death rates are per 100,000 estimated population. See "Cause of Death" in the "Technical Overview" section for the International Classification of Disease (ICD-10) codes included in each category.

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2017

Item		Cascade		Chouteau		Custer		Daniels		Dawson		Deer Lodge		Fallon	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	81,654	-	5,765	-	11,721	-	1,737	-	8,950	-	9,106	-	3,009	-
Natural Increase*	Natural Increase*	140	1.7	-20	-3.5	0	‡	-9	‡	-19	‡	-45	-4.9	6	‡
Births - Residence	Live Births, Total	1,078	13.2	46	8.0	129	11.0	16	‡	83	9.3	69	7.6	40	13.3
	Live Births, Male	552	6.8	26	4.5	71	6.1	9	‡	37	4.1	40	4.4	21	7.0
	Live Births, Female	526	6.4	20	3.5	58	4.9	7	‡	46	5.1	29	3.2	19	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	938	11.5	66	11.4	129	11.0	25	14.4	102	11.4	114	12.5	34	11.3
	Deaths (Excluding Fetal), Male	477	5.8	39	6.8	69	5.9	14	‡	54	6.0	55	6.0	16	‡
	Deaths (Excluding Fetal), Female	461	5.6	27	4.7	60	5.1	11	‡	48	5.4	59	6.5	18	‡
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	5	‡	‡	‡	0	‡	0	‡	0	‡	0	‡	‡	‡
	Neonatal (Under 28 Days)	‡	‡	‡	‡	0	‡	0	‡	0	‡	0	‡	‡	‡
	Postneonatal (28 Days - 1 Year)	‡	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
	Fetal	‡	‡	0	‡	‡	‡	0	‡	0	‡	‡	‡	0	‡
	Perinatal	6	‡	‡	‡	‡	‡	0	‡	0	‡	‡	‡	‡	‡
Leading Causes of Death - Residence**	Heart Diseases	169	207.0	13	‡	29	247.4	8	‡	6	‡	25	274.5	8	‡
	Malignant Neoplasms	180	220.4	17	‡	34	290.1	5	‡	19	‡	21	230.6	6	‡
	Chronic Lower Respiratory Diseases	80	98.0	6	‡	6	‡	‡	‡	7	‡	12	‡	6	‡
	Accidents (Unintentional Injuries)	51	62.5	‡	‡	‡	‡	‡	‡	6	‡	9	‡	‡	‡
	Cerebrovascular Diseases	40	49.0	‡	‡	5	‡	‡	‡	7	‡	‡	‡	‡	‡
	Alzheimer's Disease	46	56.3	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
	Diabetes Mellitus	30	36.7	‡	‡	6	‡	0	‡	‡	‡	‡	‡	0	‡
	Intentional Self-Harm (Suicide)	29	35.5	‡	‡	‡	‡	‡	‡	0	‡	‡	‡	‡	‡
	Chronic Liver Disease and Cirrhosis	15	‡	0	‡	‡	‡	0	‡	‡	‡	‡	‡	‡	‡
	Influenza and Pneumonia	14	‡	‡	‡	‡	‡	‡	‡	0	‡	‡	‡	‡	‡
Births - Occurrence	Live Births, Total	1,447	17.7	0	‡	222	18.9	0	‡	60	6.7	186	20.4	0	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	1,145	14.0	51	8.8	123	10.5	20	11.5	108	12.1	107	11.8	23	7.6
	Motor Vehicle Accidents	12	‡	‡	‡	0	‡	0	‡	‡	‡	‡	‡	0	‡
	Non-Motor Vehicle Accidents	52	0.6	‡	‡	5	‡	‡	‡	5	‡	6	‡	‡	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	9	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	521	6.4	35	6.1	67	5.7	6	‡	65	7.3	62	6.8	9	‡
	Licenses Issued	575	7.0	19	‡	61	5.2	6	‡	62	6.9	46	5.1	9	‡
Marital Terminations - Occurrence	Marital Terminations	340	4.2	9	‡	25	2.1	‡	‡	‡	‡	6	‡	‡	‡

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population.

** Cause-specific resident death rates are per 100,000 estimated population. See "Cause of Death" in the "Technical Overview" section for the International Classification of Disease (ICD-10) codes included in each category.

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2017

Item		Fergus		Flathead		Gallatin		Garfield		Glacier		Golden		Granite	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	11,291	-	100,000	-	107,810	-	1,293	-	13,640	-	822	-	3,358	-
Natural Increase*	Natural Increase*	-59	-5.2	190	1.9	674	6.3	†	‡	59	4.3	6	‡	-19	‡
Births - Residence	Live Births, Total	117	10.4	1,112	11.1	1,234	11.4	14	‡	240	17.6	12	‡	18	‡
	Live Births, Male	74	6.6	573	5.7	611	5.7	7	‡	123	9.0	†	‡	8	‡
	Live Births, Female	43	3.8	539	5.4	623	5.8	7	‡	117	8.6	9	‡	10	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	176	15.6	922	9.2	560	5.2	16	‡	181	13.3	6	‡	37	11.0
	Deaths (Excluding Fetal), Male	95	8.4	478	4.8	275	2.6	10	‡	97	7.1	†	‡	20	6.0
	Deaths (Excluding Fetal), Female	81	7.2	444	4.4	285	2.6	6	‡	84	6.2	†	‡	17	‡
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	0	‡	5	‡	†	‡	0	‡	†	‡	†	‡	0	‡
	Neonatal (Under 28 Days)	0	‡	†	‡	†	‡	0	‡	†	‡	†	‡	0	‡
	Postneonatal (28 Days - 1 Year)	0	‡	†	‡	†	‡	0	‡	†	‡	0	‡	0	‡
	Fetal	0	‡	†	‡	5	‡	0	‡	†	‡	0	‡	†	‡
	Perinatal	0	‡	6	‡	6	‡	0	‡	†	‡	†	‡	†	‡
Leading Causes of Death - Residence**	Heart Diseases	46	407.4	197	197.0	124	115.0	†	‡	35	256.6	†	‡	11	‡
	Malignant Neoplasms	24	212.6	181	181.0	126	116.9	5	‡	31	227.3	†	‡	13	‡
	Chronic Lower Respiratory Diseases	22	194.8	78	78.0	32	29.7	†	‡	6	‡	†	‡	†	‡
	Accidents (Unintentional Injuries)	9	‡	50	50.0	35	32.5	†	‡	14	‡	0	‡	†	‡
	Cerebrovascular Diseases	14	‡	52	52.0	36	33.4	†	‡	6	‡	0	‡	†	‡
	Alzheimer's Disease	7	‡	14	‡	11	‡	0	‡	†	‡	0	‡	0	‡
	Diabetes Mellitus	7	‡	12	‡	10	‡	†	‡	9	‡	0	‡	0	‡
	Intentional Self-Harm (Suicide)	†	‡	25	25.0	25	23.2	0	‡	5	‡	0	‡	†	‡
	Chronic Liver Disease and Cirrhosis	†	‡	19	‡	5	‡	0	‡	14	‡	0	‡	0	‡
	Influenza and Pneumonia	†	‡	22	22.0	5	‡	†	‡	5	‡	0	‡	†	‡
Births - Occurrence	Live Births, Total	78	6.9	1,244	12.4	1,338	12.4	0	‡	162	11.9	0	‡	†	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	161	14.3	1,026	10.3	561	5.2	10	‡	111	8.1	†	‡	26	7.7
	Motor Vehicle Accidents	†	‡	18	‡	9	‡	†	‡	6	‡	0	‡	†	‡
	Non-Motor Vehicle Accidents	5	‡	40	0.4	20	0.2	0	‡	†	‡	†	‡	0	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	†	‡	7	‡	†	‡	0	‡	0	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	71	6.3	2,086	20.9	892	8.3	10	‡	112	8.2	†	‡	29	8.6
	Licenses Issued	74	6.6	2,097	21.0	931	8.6	8	‡	75	5.5	†	‡	22	6.6
Marital Terminations - Occurrence	Marital Terminations	47	4.2	430	4.3	223	2.1	†	‡	17	‡	0	‡	10	‡

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population.

** Cause-specific resident death rates are per 100,000 estimated population. See "Cause of Death" in the "Technical Overview" section for the International Classification of Disease (ICD-10) codes included in each category.

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Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2017

Item		Hill		Jefferson		Judith		Lake		Lewis & Clark		Liberty		Lincoln	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	16,463	-	11,891	-	1,961	-	30,273	-	67,773	-	2,427	-	19,440	-
Natural Increase*	Natural Increase*	149	9.1	†	‡	†	‡	6	‡	100	1.5	0	‡	-82	-4.2
Births - Residence	Live Births, Total	301	18.3	101	8.5	12	‡	328	10.8	760	11.2	17	‡	160	8.2
	Live Births, Male	155	9.4	45	3.8	†	‡	160	5.3	394	5.8	11	‡	78	4.0
	Live Births, Female	146	8.9	56	4.7	8	‡	168	5.5	366	5.4	6	‡	82	4.2
Deaths - Residence	Deaths (Excluding Fetal), Total	152	9.2	102	8.6	14	‡	322	10.6	660	9.7	17	‡	242	12.4
	Deaths (Excluding Fetal), Male	75	4.6	57	4.8	8	‡	173	5.7	308	4.5	9	‡	130	6.7
	Deaths (Excluding Fetal), Female	77	4.7	45	3.8	6	‡	149	4.9	352	5.2	8	‡	112	5.8
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	†	‡	0	‡	0	‡	†	‡	†	‡	0	‡	†	‡
	Neonatal (Under 28 Days)	†	‡	0	‡	0	‡	†	‡	†	‡	0	‡	†	‡
	Postneonatal (28 Days - 1 Year)	0	‡	0	‡	0	‡	†	‡	0	‡	0	‡	0	‡
	Fetal	†	‡	0	‡	0	‡	0	‡	†	‡	0	‡	0	‡
Leading Causes of Death - Residence**	Perinatal	†	‡	0	‡	0	‡	†	‡	5	‡	0	‡	†	‡
	Heart Diseases	38	230.8	27	227.1	†	‡	71	234.5	142	209.5	†	‡	45	231.5
	Malignant Neoplasms	31	188.3	23	193.4	†	‡	62	204.8	154	227.2	6	‡	61	313.8
	Chronic Lower Respiratory Diseases	11	‡	5	‡	†	‡	23	76.0	51	75.3	†	‡	15	‡
	Accidents (Unintentional Injuries)	10	‡	9	‡	†	‡	23	76.0	45	66.4	†	‡	13	‡
	Cerebrovascular Diseases	†	‡	†	‡	0	‡	14	‡	19	‡	†	‡	12	‡
	Alzheimer's Disease	†	‡	†	‡	0	‡	†	‡	23	33.9	0	‡	7	‡
	Diabetes Mellitus	†	‡	6	‡	0	‡	9	‡	11	‡	0	‡	6	‡
	Intentional Self-Harm (Suicide)	†	‡	6	‡	0	‡	17	‡	21	31.0	0	‡	5	‡
	Chronic Liver Disease and Cirrhosis	†	‡	†	‡	0	‡	7	‡	8	‡	†	‡	7	‡
Influenza and Pneumonia	†	‡	†	‡	†	‡	7	‡	14	‡	†	‡	†	‡	
Births - Occurrence	Live Births, Total	352	21.4	5	‡	0	‡	239	7.9	804	11.9	†	‡	130	6.7
Deaths - Occurrence	Deaths (Excluding Fetal), Total	141	8.6	67	5.6	6	‡	255	8.4	666	9.8	17	‡	194	10.0
	Motor Vehicle Accidents	5	‡	†	‡	0	‡	8	‡	9	‡	0	‡	†	‡
	Non-Motor Vehicle Accidents	†	‡	†	‡	0	‡	11	‡	28	0.4	†	‡	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	†	‡	0	‡	0	‡	†	‡	0	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	93	5.6	77	6.5	13	‡	244	8.1	460	6.8	6	‡	105	5.4
	Licenses Issued	99	6.0	33	2.8	13	‡	172	5.7	496	7.3	†	‡	82	4.2
Marital Terminations - Occurrence	Marital Terminations	40	2.4	12	‡	5	‡	65	2.1	268	4.0	0	‡	45	2.3

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population.

** Cause-specific resident death rates are per 100,000 estimated population. See "Cause of Death" in the "Technical Overview" section for the International Classification of Disease (ICD-10) codes included in each category.

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Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2017

Item		McCone		Madison		Meagher		Mineral		Missoula		Musselshell		Park	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	1,718	-	8,175	-	1,851	-	4,255	-	117,441	-	4,639	-	16,353	-
Natural Increase*	Natural Increase*	-6	‡	-33	-4	-9	‡	-9	‡	228	1.9	-22	-4.7	0	‡
Births - Residence	Live Births, Total	19	‡	51	6.2	13	‡	37	8.7	1,138	9.7	42	9.1	151	9.2
	Live Births, Male	10	‡	28	3.4	6	‡	20	4.7	583	5.0	22	4.7	73	4.5
	Live Births, Female	9	‡	23	2.8	7	‡	17	‡	555	4.7	20	4.3	78	4.8
Deaths - Residence	Deaths (Excluding Fetal), Total	25	14.6	84	10.3	22	11.9	46	10.8	910	7.7	64	13.8	151	9.2
	Deaths (Excluding Fetal), Male	11	‡	53	6.5	12	‡	29	6.8	491	4.2	34	7.3	83	5.1
	Deaths (Excluding Fetal), Female	14	‡	31	3.8	10	‡	17	‡	419	3.6	30	6.5	68	4.2
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	0	‡	0	‡	0	‡	†	‡	8	‡	0	‡	0	‡
	Neonatal (Under 28 Days)	0	‡	0	‡	0	‡	†	‡	†	‡	0	‡	0	‡
	Postneonatal (28 Days - 1 Year)	0	‡	0	‡	0	‡	0	‡	5	‡	0	‡	0	‡
	Fetal	0	‡	†	‡	0	‡	0	‡	8	‡	0	‡	†	‡
	Perinatal	0	‡	†	‡	0	‡	†	‡	11	‡	0	‡	†	‡
Leading Causes of Death - Residence**	Heart Diseases	6	‡	14	‡	6	‡	12	‡	186	158.4	13	‡	32	195.7
	Malignant Neoplasms	9	‡	28	342.5	5	‡	9	‡	192	163.5	19	‡	37	226.3
	Chronic Lower Respiratory Diseases	0	‡	†	‡	†	‡	5	‡	69	58.8	8	‡	6	‡
	Accidents (Unintentional Injuries)	†	‡	†	‡	†	‡	†	‡	55	46.8	†	‡	9	‡
	Cerebrovascular Diseases	0	‡	5	‡	†	‡	0	‡	50	42.6	†	‡	14	‡
	Alzheimer's Disease	0	‡	†	‡	†	‡	†	‡	27	23.0	0	‡	†	‡
	Diabetes Mellitus	0	‡	†	‡	0	‡	†	‡	21	17.9	†	‡	7	‡
	Intentional Self-Harm (Suicide)	†	‡	5	‡	0	‡	†	‡	33	28.1	†	‡	6	‡
	Chronic Liver Disease and Cirrhosis	0	‡	†	‡	0	‡	†	‡	9	‡	†	‡	†	‡
	Influenza and Pneumonia	0	‡	†	‡	0	‡	0	‡	14	‡	†	‡	†	‡
Births - Occurrence	Live Births, Total	0	‡	†	‡	0	‡	†	‡	1,670	14.2	0	‡	123	7.5
Deaths - Occurrence	Deaths (Excluding Fetal), Total	16	‡	75	9.2	14	‡	32	7.5	1,122	9.6	52	11.2	126	7.7
	Motor Vehicle Accidents	0	‡	†	‡	†	‡	†	‡	23	0.2	0	‡	†	‡
	Non-Motor Vehicle Accidents	0	‡	†	‡	†	‡	†	‡	44	0.4	†	‡	8	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	0	‡	0	‡	0	‡	0	‡	13	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	†	‡	103	12.6	15	‡	42	9.9	694	5.9	14	‡	198	12.1
	Licenses Issued	9	‡	51	6.2	8	‡	17	‡	855	7.3	16	‡	165	10.1
Marital Terminations - Occurrence	Marital Terminations	†	‡	19	‡	†	‡	12	‡	408	3.5	14	‡	100	6.1

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Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2017

Item		Petroleum		Phillips		Pondera		Powder River		Powell		Prairie		Ravalli	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	523	-	4,119	-	5,960	-	1,752	-	6,795	-	1,109	-	42,563	-
Natural Increase*	Natural Increase*	†	‡	0	‡	†	‡	†	‡	-13	‡	-6	‡	-87	-2
Births - Residence	Live Births, Total	†	‡	45	10.9	82	13.8	22	12.6	60	8.8	12	‡	371	8.7
	Live Births, Male	0	‡	21	5.1	47	7.9	15	‡	34	5.0	6	‡	189	4.4
	Live Births, Female	†	‡	24	5.8	35	5.9	7	‡	26	3.8	6	‡	182	4.3
Deaths - Residence	Deaths (Excluding Fetal), Total	†	‡	45	10.9	80	13.4	20	11.4	73	10.7	18	‡	458	10.8
	Deaths (Excluding Fetal), Male	†	‡	25	6.1	42	7.0	†	‡	42	6.2	11	‡	244	5.7
	Deaths (Excluding Fetal), Female	0	‡	20	4.9	38	6.4	16	‡	31	4.6	7	‡	214	5.0
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	†	‡
	Neonatal (Under 28 Days)	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	†	‡
	Postneonatal (28 Days - 1 Year)	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	†	‡
	Fetal	†	‡	0	‡	0	‡	0	‡	0	‡	0	‡	†	‡
Leading Causes of Death - Residence**	Perinatal	†	‡	0	‡	0	‡	0	‡	0	‡	0	‡	†	‡
	Heart Diseases	†	‡	9	‡	17	‡	6	‡	13	‡	5	‡	99	232.6
	Malignant Neoplasms	0	‡	9	‡	16	‡	†	‡	16	‡	†	‡	106	249.0
	Chronic Lower Respiratory Diseases	0	‡	6	‡	†	‡	†	‡	7	‡	0	‡	34	79.9
	Accidents (Unintentional Injuries)	0	‡	†	‡	†	‡	†	‡	†	‡	†	‡	18	‡
	Cerebrovascular Diseases	0	‡	†	‡	†	‡	0	‡	†	‡	†	‡	24	56.4
	Alzheimer's Disease	0	‡	†	‡	0	‡	0	‡	0	‡	0	‡	13	‡
	Diabetes Mellitus	0	‡	†	‡	5	‡	0	‡	0	‡	†	‡	14	‡
	Intentional Self-Harm (Suicide)	0	‡	†	‡	†	‡	0	‡	†	‡	†	‡	13	‡
	Chronic Liver Disease and Cirrhosis	0	‡	0	‡	†	‡	0	‡	†	‡	†	‡	10	‡
Influenza and Pneumonia	0	‡	†	‡	†	‡	†	‡	†	‡	†	‡	7	‡	
Births - Occurrence	Live Births, Total	0	‡	†	‡	†	‡	0	‡	†	‡	0	‡	125	2.9
Deaths - Occurrence	Deaths (Excluding Fetal), Total	†	‡	37	9.0	55	9.2	16	‡	68	10.0	15	‡	357	8.4
	Motor Vehicle Accidents	0	‡	†	‡	0	‡	†	‡	5	‡	†	‡	†	‡
	Non-Motor Vehicle Accidents	0	‡	0	‡	†	‡	0	‡	†	‡	†	‡	12	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	†	‡	19	‡	22	3.7	†	‡	44	6.5	8	‡	281	6.6
	Licenses Issued	†	‡	16	‡	20	3.4	7	‡	42	6.2	10	‡	222	5.2
Marital Terminations - Occurrence	Marital Terminations	†	‡	14	‡	8	‡	†	‡	22	3.2	0	‡	126	3.0

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population.

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Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2017

Item		Richland		Roosevelt		Rosebud		Sanders		Sheridan		Silver Bow		Stillwater	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	11,039	-	11,098	-	9,248	-	11,711	-	3,469	-	34,602	-	9,419	-
Natural Increase*	Natural Increase*	33	3.0	91	8.2	49	5.3	-42	-3.6	†	‡	-50	-1.4	-15	‡
Births - Residence	Live Births, Total	133	12.0	215	19.4	145	15.7	118	10.1	43	12.4	368	10.6	75	8.0
	Live Births, Male	73	6.6	104	9.4	74	8.0	63	5.4	26	7.5	190	5.5	37	3.9
	Live Births, Female	60	5.4	111	10.0	71	7.7	55	4.7	17	‡	178	5.1	38	4.0
Deaths - Residence	Deaths (Excluding Fetal), Total	100	9.1	124	11.2	96	10.4	160	13.7	42	12.1	418	12.1	90	9.6
	Deaths (Excluding Fetal), Male	49	4.4	65	5.9	56	6.1	95	8.1	20	5.8	229	6.6	53	5.6
	Deaths (Excluding Fetal), Female	51	4.6	59	5.3	40	4.3	65	5.6	22	6.3	189	5.5	37	3.9
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	0	‡	7	‡	†	‡	0	‡	0	‡	0	‡	0	‡
	Neonatal (Under 28 Days)	0	‡	†	‡	†	‡	0	‡	0	‡	0	‡	0	‡
	Postneonatal (28 Days - 1 Year)	0	‡	†	‡	†	‡	0	‡	0	‡	0	‡	0	‡
	Fetal	0	‡	†	‡	0	‡	0	‡	0	‡	†	‡	†	‡
Leading Causes of Death - Residence**	Perinatal	0	‡	6	‡	†	‡	0	‡	0	‡	†	‡	†	‡
	Heart Diseases	23	208.4	22	198.2	14	‡	34	290.3	6	‡	118	341.0	16	‡
	Malignant Neoplasms	21	190.2	23	207.2	22	237.9	32	273.2	14	‡	77	222.5	21	223.0
	Chronic Lower Respiratory Diseases	†	‡	5	‡	†	‡	14	‡	†	‡	36	104.0	7	‡
	Accidents (Unintentional Injuries)	6	‡	8	‡	10	‡	9	‡	†	‡	15	‡	5	‡
	Cerebrovascular Diseases	†	‡	†	‡	†	‡	†	‡	†	‡	17	‡	†	‡
	Alzheimer's Disease	0	‡	†	‡	†	‡	†	‡	†	‡	16	‡	†	‡
	Diabetes Mellitus	†	‡	9	‡	8	‡	9	‡	0	‡	8	‡	†	‡
	Intentional Self-Harm (Suicide)	5	‡	†	‡	†	‡	†	‡	0	‡	18	‡	†	‡
	Chronic Liver Disease and Cirrhosis	†	‡	9	‡	†	‡	†	‡	0	‡	10	‡	†	‡
Influenza and Pneumonia	†	‡	†	‡	†	‡	6	‡	†	‡	†	‡	†	‡	
Births - Occurrence	Live Births, Total	181	16.4	88	7.9	15	‡	33	2.8	0	‡	268	7.7	†	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	97	8.8	86	7.7	65	7.0	118	10.1	39	11.2	398	11.5	72	7.6
	Motor Vehicle Accidents	†	‡	†	‡	†	‡	†	‡	†	‡	†	‡	0	‡
	Non-Motor Vehicle Accidents	5	‡	5	‡	0	‡	†	‡	†	‡	12	‡	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	†	‡	†	‡	†	‡	0	‡	0	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	57	5.2	41	3.7	29	3.1	87	7.4	8	‡	215	6.2	61	6.5
	Licenses Issued	72	6.5	40	3.6	29	3.1	59	5.0	12	‡	253	7.3	52	5.5
Marital Terminations - Occurrence	Marital Terminations	23	2.1	12	‡	16	‡	37	3.2	12	‡	131	3.8	†	‡

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population.

** Cause-specific resident death rates are per 100,000 estimated population. See "Cause of Death" in the "Technical Overview" section for the International Classification of Disease (ICD-10) codes included in each category.

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2017

Item		Sweet Grass		Teton		Toole		Treasure		Valley		Wheatland		Wibaux	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	3,691	-	6,085	-	4,886	-	679	-	7,433	-	2,140	-	1,020	-
Natural Increase*	Natural Increase*	†	‡	9	‡	15	‡	0	‡	†	‡	-10	‡	†	‡
Births - Residence	Live Births, Total	34	9.2	79	13.0	60	12.3	11	‡	86	11.6	26	12.1	10	‡
	Live Births, Male	13	‡	44	7.2	30	6.1	5	‡	47	6.3	14	‡	5	‡
	Live Births, Female	21	5.7	35	5.8	30	6.1	6	‡	39	5.2	12	‡	5	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	32	8.7	70	11.5	45	9.2	11	‡	85	11.4	36	16.8	14	‡
	Deaths (Excluding Fetal), Male	15	‡	38	6.2	24	4.9	5	‡	32	4.3	17	‡	7	‡
	Deaths (Excluding Fetal), Female	17	‡	32	5.3	21	4.3	6	‡	53	7.1	19	‡	7	‡
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	0	‡	†	‡	0	‡	0	‡	†	‡	0	‡	0	‡
	Neonatal (Under 28 Days)	0	‡	†	‡	0	‡	0	‡	0	‡	0	‡	0	‡
	Postneonatal (28 Days - 1 Year)	0	‡	0	‡	0	‡	0	‡	†	‡	0	‡	0	‡
	Fetal	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
	Perinatal	0	‡	†	‡	0	‡	0	‡	0	‡	0	‡	0	‡
Leading Causes of Death - Residence**	Heart Diseases	6	‡	18	‡	11	‡	†	‡	21	282.5	10	‡	†	‡
	Malignant Neoplasms	7	‡	15	‡	10	‡	†	‡	8	‡	9	‡	†	‡
	Chronic Lower Respiratory Diseases	†	‡	†	‡	†	‡	0	‡	†	‡	5	‡	0	‡
	Accidents (Unintentional Injuries)	0	‡	†	‡	†	‡	0	‡	7	‡	†	‡	†	‡
	Cerebrovascular Diseases	†	‡	6	‡	†	‡	0	‡	5	‡	†	‡	0	‡
	Alzheimer's Disease	0	‡	†	‡	0	‡	†	‡	5	‡	0	‡	†	‡
	Diabetes Mellitus	†	‡	†	‡	†	‡	0	‡	6	‡	0	‡	0	‡
	Intentional Self-Harm (Suicide)	0	‡	†	‡	†	‡	0	‡	†	‡	0	‡	0	‡
	Chronic Liver Disease and Cirrhosis	†	‡	†	‡	†	‡	0	‡	0	‡	0	‡	0	‡
	Influenza and Pneumonia	0	‡	0	‡	†	‡	†	‡	†	‡	0	‡	0	‡
Births - Occurrence	Live Births, Total	†	‡	†	‡	37	7.6	0	‡	127	17.1	0	‡	0	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	29	7.9	30	4.9	40	8.2	9	‡	58	7.8	27	12.6	14	‡
	Motor Vehicle Accidents	†	‡	†	‡	0	‡	†	‡	†	‡	0	‡	0	‡
	Non-Motor Vehicle Accidents	0	‡	†	‡	0	‡	0	‡	†	‡	0	‡	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	28	7.6	33	5.4	17	‡	†	‡	42	5.7	21	9.8	5	‡
	Licenses Issued	25	6.8	33	5.4	23	4.7	†	‡	45	6.1	8	‡	5	‡
Marital Terminations - Occurrence	Marital Terminations	11	‡	21	3.5	13	‡	0	‡	13	‡	†	‡	†	‡

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population.

** Cause-specific resident death rates are per 100,000 estimated population. See "Cause of Death" in the "Technical Overview" section for the International Classification of Disease (ICD-10) codes included in each category.

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2017

Item		Yellowstone	
		Number	Rate
Population	Population	158,980	-
Natural Increase*	Natural Increase*	327	2.1
Births - Residence	Live Births, Total	1,899	11.9
	Live Births, Male	962	6.1
	Live Births, Female	937	5.9
Deaths - Residence	Deaths (Excluding Fetal), Total	1,572	9.9
	Deaths (Excluding Fetal), Male	787	5.0
	Deaths (Excluding Fetal), Female	785	4.9
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	7	‡
	Neonatal (Under 28 Days)	†	‡
	Postneonatal (28 Days - 1 Year)	5	‡
	Fetal	9	‡
	Perinatal	11	‡
Leading Causes of Death - Residence**	Heart Diseases	333	209.5
	Malignant Neoplasms	327	205.7
	Chronic Lower Respiratory Diseases	116	73.0
	Accidents (Unintentional Injuries)	80	50.3
	Cerebrovascular Diseases	84	52.8
	Alzheimer's Disease	49	30.8
	Diabetes Mellitus	38	23.9
	Intentional Self-Harm (Suicide)	41	25.8
	Chronic Liver Disease and Cirrhosis	31	19.5
Influenza and Pneumonia	24	15.1	
Births - Occurrence	Live Births, Total	2,716	17.1
Deaths - Occurrence	Deaths (Excluding Fetal), Total	2,012	12.7
	Motor Vehicle Accidents	28	0.2
	Non-Motor Vehicle Accidents	83	0.5
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	16	‡
Marriages - Occurrence	Marriages Solemnized	957	6.0
	Licenses Issued	1,077	6.8
Marital Terminations - Occurrence	Marital Terminations	601	3.8

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population.

** Cause-specific resident death rates are per 100,000 estimated population. See "Cause of Death" in the "Technical Overview" section for the International Classification of Disease (ICD-10) codes included in each category.

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table S-5
Frequency and Age-Specific Rate* of Live Births, Fetal Deaths
and Induced Abortions by Year and age of Mother or Parent**
Montana Residents, 1990-2017

Year			Age						
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stated
2017	Live Births	Number	11,800	654	2,527	3,622	3,255	1,742	0
		Rate*	62.0	21.5	73.5	108.5	101.1	29.1	0
	Fetal Deaths	Number	51	†	13	11	13	10	0
		Rate*	0.2	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	1,415	168	443	387	206	208	0
		Rate*	7.4	5.5	12.8	11.5	6.3	3.4	0
2016	Live Births	Number	12,274	726	2,704	3,858	3,248	1,738	0
		Rate*	65.4	23.9	78.2	119.3	101.0	29.8	0
	Fetal Deaths	Number	53	5	10	14	10	14	0
		Rate*	0.2	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	1,460	154	467	361	249	226	0
		Rate*	7.7	5.0	13.5	11.1	7.7	3.8	0
2015	Live Births	Number	12,580	777	2,866	3,915	3,375	1,647	0
		Rate*	67.7	25.8	82.1	124.4	105.3	28.7	0
	Fetal Deaths	Number	45	6	7	8	14	10	0
		Rate*	0.2	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	1,397	176	439	370	233	178	0
		Rate*	7.5	5.8	12.5	11.7	7.2	3.1	0
2014	Live Births	Number	12,431	813	2,928	3,918	3,232	1,539	†
		Rate*	67.3	26.8	83.6	126.7	101.4	27.1	‡
	Fetal Deaths	Number	52	†	18	17	8	7	0
		Rate*	0.2	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	1,464	197	498	378	220	171	0
		Rate*	7.9	6.5	14.2	12.2	6.9	3.0	0
2013	Live Births	Number	12,351	859	3,165	3,877	2,988	1,462	0
		Rate*	67.2	28.0	91.0	126.4	95.6	25.9	0
	Fetal Deaths	Number	54	†	7	20	15	9	0
		Rate*	0.2	‡	‡	0.6	‡	‡	0
	Induced Abortions	Number	1,622	227	536	389	265	205	0
		Rate*	8.8	7.4	15.4	12.6	8.4	3.6	0
2012	Live Births	Number	12,052	896	3,066	3,728	2,923	1,439	0
		Rate*	66.2	28.9	89.8	121.4	96.1	25.8	0
	Fetal Deaths	Number	57	8	17	15	9	8	0
		Rate*	0.3	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	1,802	270	624	429	262	217	0
		Rate*	9.9	8.7	18.2	13.9	8.6	3.8	0

* Per 1,000 females in the designated age group. Female population aged 15-44 is used as the denominator for the total.

** These events are the only pregnancy outcomes reported in Montana. Thus, this table does not include induced abortions performed outside Montana on Montana residents or early fetal deaths (when the fetus weighed less than 350 grams or the gestation was less than 20 weeks).

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table S-5
Frequency and Age-Specific Rate* of Live Births, Fetal Deaths
and Induced Abortions by Year and age of Mother or Parent**
Montana Residents, 1990-2017

Year			Age						
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stated
2011	Live Births	Number	12,039	935	3,206	3,725	2,848	1,324	†
		Rate*	66.5	29.5	96.2	120.2	95.9	23.9	‡
	Fetal Deaths	Number	62	11	14	18	8	10	†
		Rate*	0.3	‡	‡	‡	‡	‡	‡
	Induced Abortions	Number	1,875	304	654	433	270	214	0
		Rate*	10.3	9.6	19.6	13.9	9.0	3.8	0
2010	Live Births	Number	12,058	1,141	3,137	3,624	2,772	1,383	†
		Rate*	67.0	35.5	96.8	116.8	96.4	24.8	‡
	Fetal Deaths	Number	52	10	11	12	13	6	0
		Rate*	0.2	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	1,892	308	675	443	244	222	0
		Rate*	10.5	9.6	20.8	14.2	8.4	3.9	0
2009	Live Births	Number	12,280	1,267	3,318	3,769	2,624	1,302	0
		Rate*	68.2	38.4	102.5	123.9	94.0	23.1	0
	Fetal Deaths	Number	58	7	10	14	15	11	0
		Rate*	0.3	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	1,946	363	659	471	241	212	0
		Rate*	10.8	11.0	20.3	15.4	8.6	3.7	0
2008	Live Births	Number	12,595	1,321	3,458	3,884	2,605	1,327	0
		Rate*	69.5	39.2	105.3	131.1	96.8	22.8	0
	Fetal Deaths	Number	39	9	†	5	6	15	0
		Rate*	0.2	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	1,916	370	688	427	240	190	0
		Rate*	10.5	10.9	20.9	14.4	8.9	3.2	0
2007	Live Births	Number	12,437	1,207	3,486	3,756	2,555	1,433	0
		Rate*	68.7	35.4	106.0	132.0	98.2	24.0	0
	Fetal Deaths	Number	38	6	†	12	7	9	0
		Rate*	0.2	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	1,977	374	732	423	224	224	0
		Rate*	10.9	10.9	22.2	14.8	8.6	3.7	0
2006	Live Births	Number	12,499	1,289	3,528	3,728	2,515	1,439	0
		Rate*	69.1	37.7	103.9	141.9	97.3	23.7	0
	Fetal Deaths	Number	49	6	9	13	10	11	0
		Rate*	0.2	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	1,930	375	722	406	209	217	0
		Rate*	10.6	10.9	21.2	15.4	8.0	3.5	0

* Per 1,000 females in the designated age group. Female population aged 15-44 is used as the denominator for the total.

** These events are the only pregnancy outcomes reported in Montana. Thus, this table does not include induced abortions performed outside Montana on Montana residents or early fetal deaths (when the fetus weighed less than 350 grams or the gestation was less than 20 weeks).

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Table S-5
Frequency and Age-Specific Rate* of Live Births, Fetal Deaths
and Induced Abortions by Year and age of Mother or Parent**
Montana Residents, 1990-2017

Year			Age							
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stated	
2005	Live Births	Number								
		Rate*	11,573	1,201	3,314	3,318	2,370	1,368	†	
	Fetal Deaths	Number	63.9	34.9	98.8	132.3	90.4	22.1	‡	
		Rate*	54	†	18	17	8	10	0	
	Induced Abortions	Number	1,981	428	691	385	263	213	0	
		Rate*	10.9	12.4	20.6	15.3	10.0	3.4	0	
2004	Live Births	Number	11,514	1,225	3,327	3,233	2,398	1,331	0	
		Rate*	63.6	35.6	102.2	132.4	91.4	21.0	0	
	Fetal Deaths	Number	40	†	8	11	10	7	0	
		Rate*	0.2	‡	‡	‡	‡	‡	0	
	Induced Abortions	Number	2,061	414	722	441	226	257	0	
		Rate*	11.3	12.0	22.1	18.0	8.6	4.0	0	
2003	Live Births	Number	11,384	1,211	3,124	3,259	2,435	1,353	†	
		Rate*	62.8	34.9	98.9	138.4	92.5	20.7	‡	
	Fetal Deaths	Number	55	7	17	13	9	9	0	
		Rate*	0.3	‡	‡	‡	‡	‡	0	
	Induced Abortions	Number	1,979	432	677	412	227	227	0	
		Rate*	10.9	12.4	21.4	17.5	8.6	3.4	0	
2002	Live Births	Number	11,045	1,277	3,155	3,028	2,319	1,263	†	
		Rate*	60.7	36.6	104.4	130.8	88.0	18.7	‡	
	Fetal Deaths	Number	51	†	17	11	13	6	0	
		Rate*	0.2	‡	‡	‡	‡	‡	0	
	Induced Abortions	Number	2,035	455	679	381	269	251	0	
		Rate*	11.1	13.0	22.4	16.4	10.2	3.7	0	
2001	Live Births	Number	10,947	1,266	3,094	2,948	2,315	1,315	9	
		Rate*	59.6	35.8	107.8	125.0	88.2	18.8	‡	
	Fetal Deaths	Number	37	5	9	8	8	5	†	
		Rate*	0.2	‡	‡	‡	‡	‡	‡	
	Induced Abortions	Number	2,063	476	697	351	260	272	7	
		Rate*	11.2	13.4	24.3	14.8	9.9	3.8	‡	
2000	Live Births	Number	10,946	1,273	3,067	3,051	2,190	1,365	0	
		Rate*	59.0	36.7	108.7	124.6	83.8	18.9	0	
	Fetal Deaths	Number	47	9	14	11	8	5	0	
		Rate*	0.2	‡	‡	‡	‡	‡	0	
	Induced Abortions	Number	2,118	490	740	370	253	264	0	
		Rate*	11.4	14.1	26.2	15.1	9.6	3.6	0	

* Per 1,000 females in the designated age group. Female population aged 15-44 is used as the denominator for the total.

** These events are the only pregnancy outcomes reported in Montana. Thus, this table does not include induced abortions performed outside Montana on Montana residents or early fetal deaths (when the fetus weighed less than 350 grams or the gestation was less than 20 weeks).

† Frequency is fewer than five.

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Table S-5
Frequency and Age-Specific Rate* of Live Births, Fetal Deaths
and Induced Abortions by Year and age of Mother or Parent**
Montana Residents, 1990-2017

Year			Age						
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stated
1999	Live Births	Number	10,778	1,258	2,977	3,013	2,164	1,362	†
		Rate*	57.9	36.2	106.9	122.9	83.0	18.6	‡
	Fetal Deaths	Number	56	†	16	20	10	7	0
		Rate*	0.3	‡	‡	0.8	‡	‡	0
	Induced Abortions	Number	2,131	546	659	404	244	276	0
		Rate*	11.4	15.7	23.6	16.4	9.3	3.7	0
1998	Live Births	Number	10,789	1,337	2,998	2,959	2,192	1,301	†
		Rate*	57.5	38.5	108.5	121.6	82.0	17.5	‡
	Fetal Deaths	Number	65	11	11	21	7	14	†
		Rate*	0.3	‡	‡	0.8	‡	‡	‡
	Induced Abortions	Number	2,159	498	710	418	247	283	†
		Rate*	11.5	14.3	25.7	17.1	9.2	3.8	‡
1997	Live Births	Number	10,838	1,327	2,834	3,065	2,232	1,380	0
		Rate*	57.2	38.6	102.8	127.0	79.8	18.2	0
	Fetal Deaths	Number	43	5	19	10	†	7	0
		Rate*	0.2	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	2,337	578	705	443	281	307	0
		Rate*	12.3	16.8	25.5	18.3	10.0	4.0	0
1996	Live Births	Number	10,840	1,344	2,844	3,045	2,294	1,312	†
		Rate*	57.0	39.7	104.3	127.5	77.9	17.3	‡
	Fetal Deaths	Number	56	10	9	13	11	13	0
		Rate*	0.2	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	2,307	563	700	442	319	283	0
		Rate*	12.1	16.6	25.6	18.5	10.8	3.7	0
1995	Live Births	Number	11,136	1,410	2,950	3,087	2,395	1,294	0
		Rate*	59.0	42.8	109.1	132.0	78.0	17.3	0
	Fetal Deaths	Number	58	10	7	15	17	9	0
		Rate*	0.3	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	2,244	587	680	394	293	290	0
		Rate*	11.8	17.8	25.1	16.8	9.5	3.8	0
1994	Live Births	Number	11,062	1,337	2,994	3,036	2,429	1,266	0
		Rate*	59.6	42.1	114.0	130.2	76.6	17.4	0
	Fetal Deaths	Number	45	6	10	10	11	7	0
		Rate*	0.2	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	2,310	592	711	386	342	279	0
		Rate*	12.4	18.6	27.0	16.5	10.7	3.8	0

* Per 1,000 females in the designated age group. Female population aged 15-44 is used as the denominator for the total.

** These events are the only pregnancy outcomes reported in Montana. Thus, this table does not include induced abortions performed outside Montana on Montana residents or early fetal deaths (when the fetus weighed less than 350 grams or the gestation was less than 20 weeks).

† Frequency is fewer than five.

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Table S-5
Frequency and Age-Specific Rate* of Live Births, Fetal Deaths
and Induced Abortions by Year and age of Mother or Parent**
Montana Residents, 1990-2017

Year			Age						
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stated
1993	Live Births	Number	11,362	1,413	3,131	3,180	2,449	1,187	†
		Rate*	62.2	46.4	122.7	133.3	75.4	16.8	‡
	Fetal Deaths	Number	62	8	17	17	11	8	†
		Rate*	0.3	‡	‡	‡	‡	‡	‡
	Induced Abortions	Number	2,269	570	733	405	309	251	†
		Rate*	12.4	18.7	28.7	16.9	9.5	3.5	‡
1992	Live Births	Number	11,468	1,368	3,096	3,336	2,519	1,149	0
		Rate*	63.9	46.8	125.6	134.6	76.4	16.9	0
	Fetal Deaths	Number	69	†	16	21	16	12	0
		Rate*	0.3	‡	‡	0.8	‡	‡	0
	Induced Abortions	Number	2,417	601	740	426	376	274	0
		Rate*	13.4	20.5	30.0	17.1	11.4	4.0	0
1991	Live Births	Number	11,498	1,331	3,197	3,379	2,456	1,134	†
		Rate*	64.7	47.4	133.3	129.0	73.3	17.1	‡
	Fetal Deaths	Number	78	13	12	21	18	13	†
		Rate*	0.4	‡	‡	0.8	‡	‡	‡
	Induced Abortions	Number	2,376	600	767	443	325	241	0
		Rate*	13.3	21.4	31.9	16.9	9.7	3.6	0
1990	Live Births	Number	11,602	1,344	3,070	3,669	2,481	1,038	0
		Rate*	65.9	48.7	130.4	131.4	72.9	16.4	0
	Fetal Deaths	Number	67	6	17	17	13	14	0
		Rate*	0.3	‡	‡	‡	‡	‡	0
	Induced Abortions	Number	2,570	705	754	505	356	250	0
		Rate*	14.6	25.5	32.0	18.0	10.4	3.9	0

* Per 1,000 females in the designated age group. Female population aged 15-44 is used as the denominator for the total.

** These events are the only pregnancy outcomes reported in Montana. Thus, this table does not include induced abortions performed outside Montana on Montana residents or early fetal deaths (when the fetus weighed less than 350 grams or the gestation was less than 20 weeks).

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table P-1
Resident Population by County
Montana, 2003-2017

County	Year														
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Montana Total	919,630	930,009	940,102	952,692	964,706	976,415	983,982	990,507	996,866	1,003,522	1,011,921	1,019,931	1,028,317	1,038,656	1,050,493
Beaverhead	8,924	8,908	8,904	9,012	9,028	9,166	9,200	9,253	9,205	9,356	9,301	9,333	9,288	9,444	9,434
Big Horn	12,652	12,731	12,634	12,540	12,549	12,564	12,747	12,912	13,054	12,996	13,116	13,327	13,277	13,371	13,360
Blaine	6,699	6,571	6,592	6,536	6,472	6,401	6,445	6,503	6,573	6,656	6,596	6,650	6,618	6,657	6,708
Broadwater	4,562	4,711	4,775	4,958	5,089	5,261	5,496	5,637	5,729	5,763	5,681	5,657	5,715	5,788	5,936
Carbon	9,747	9,796	9,921	9,916	9,973	9,965	10,033	10,062	10,090	10,135	10,324	10,423	10,389	10,498	10,696
Carter	1,290	1,284	1,258	1,227	1,216	1,172	1,180	1,160	1,136	1,157	1,153	1,151	1,147	1,177	1,222
Cascade	79,633	80,198	80,041	79,984	80,099	80,529	80,680	81,491	81,674	81,596	82,119	81,991	81,829	81,488	81,654
Chouteau	5,775	5,729	5,708	5,709	5,746	5,774	5,793	5,808	5,808	5,930	5,843	5,889	5,767	5,794	5,765
Custer	11,438	11,510	11,423	11,395	11,480	11,515	11,646	11,692	11,755	11,795	11,864	12,002	12,069	11,821	11,721
Daniels	1,881	1,804	1,782	1,748	1,702	1,704	1,732	1,749	1,761	1,775	1,776	1,795	1,748	1,734	1,737
Dawson	8,812	8,764	8,800	8,853	8,944	8,925	9,008	8,949	9,022	9,229	9,374	9,494	9,558	9,243	8,950
Deer Lodge	9,189	9,274	9,274	9,180	9,264	9,351	9,260	9,289	9,278	9,213	9,254	9,118	9,108	9,069	9,106
Fallon	2,769	2,773	2,712	2,722	2,768	2,807	2,882	2,889	2,930	3,026	3,046	3,110	3,170	3,091	3,009
Fergus	11,565	11,546	11,444	11,501	11,463	11,448	11,571	11,580	11,454	11,386	11,450	11,311	11,285	11,300	11,291
Flathead	79,643	81,247	83,320	85,759	88,245	90,260	90,910	90,853	91,236	91,576	92,835	94,468	95,738	97,693	100,000
Gallatin	74,504	77,124	80,310	83,984	86,620	88,932	89,187	89,603	91,295	92,506	94,421	97,029	100,334	104,072	107,810
Garfield	1,254	1,236	1,202	1,233	1,234	1,205	1,240	1,192	1,254	1,244	1,254	1,275	1,284	1,308	1,293
Glacier	13,168	13,388	13,264	13,250	13,179	13,109	13,266	13,416	13,568	13,667	13,770	13,686	13,622	13,669	13,640
Golden	981	1,001	1,014	973	964	890	897	879	830	827	846	841	818	815	822
Granite	2,931	2,943	3,009	3,013	3,039	3,031	3,057	3,080	3,084	3,048	3,069	3,146	3,164	3,292	3,358
Hill	15,988	15,947	15,870	15,981	16,031	15,889	15,981	16,145	16,385	16,390	16,520	16,486	16,423	16,446	16,463
Jefferson	10,262	10,511	10,709	10,801	11,040	11,203	11,364	11,406	11,371	11,317	11,435	11,478	11,553	11,770	11,891
Judith	2,201	2,196	2,161	2,146	2,083	2,071	2,076	2,072	2,009	2,004	2,000	1,984	1,931	1,949	1,961
Lake	27,117	27,634	28,023	28,283	28,235	28,515	28,668	28,786	28,968	29,014	29,051	29,138	29,416	29,711	30,273
Lewis & Clark	57,110	58,041	58,529	59,529	60,846	61,747	62,671	63,565	64,242	64,722	65,140	65,605	66,138	66,792	67,773
Liberty	2,212	2,263	2,266	2,216	2,236	2,225	2,283	2,347	2,377	2,392	2,360	2,348	2,393	2,428	2,427
Lincoln	18,861	18,991	19,180	19,228	19,440	19,541	19,657	19,696	19,621	19,482	19,406	19,157	19,014	19,230	19,440
McCone	1,797	1,781	1,778	1,765	1,767	1,720	1,705	1,745	1,709	1,700	1,714	1,714	1,699	1,739	1,718
Madison	6,894	6,999	7,211	7,343	7,560	7,674	7,674	7,697	7,643	7,664	7,665	7,777	7,922	7,969	8,175
Meagher	1,913	1,935	1,899	1,923	1,908	1,893	1,897	1,878	1,877	1,887	1,903	1,854	1,819	1,842	1,851
Mineral	3,936	3,985	4,133	4,211	4,156	4,177	4,200	4,223	4,212	4,121	4,221	4,186	4,184	4,125	4,255
Missoula	99,976	100,934	102,298	104,372	106,110	107,747	108,717	109,432	110,172	110,016	111,575	112,462	113,780	115,896	117,441
Musselshell	4,361	4,370	4,323	4,398	4,394	4,423	4,478	4,555	4,746	4,692	4,665	4,630	4,617	4,636	4,639
Park	15,539	15,509	15,629	15,690	15,828	15,896	15,738	15,597	15,506	15,590	15,691	15,901	15,963	16,098	16,353
Petroleum	506	519	492	495	470	481	488	495	496	510	510	494	480	498	523
Phillips	4,317	4,295	4,228	4,166	4,193	4,182	4,242	4,254	4,191	4,116	4,153	4,165	4,141	4,116	4,119
Pondera	6,228	6,140	6,148	6,172	6,169	6,117	6,109	6,158	6,189	6,153	6,204	6,128	6,084	6,028	5,960
Powder River	1,837	1,789	1,739	1,794	1,761	1,756	1,738	1,739	1,738	1,753	1,777	1,767	1,767	1,752	1,752
Powell	6,893	6,872	6,997	7,115	7,117	7,036	7,093	7,012	7,077	7,075	6,950	6,876	6,793	6,848	6,795
Prairie	1,168	1,153	1,098	1,098	1,083	1,123	1,139	1,183	1,139	1,140	1,160	1,121	1,137	1,166	1,109
Ravalli	38,184	38,739	39,012	39,555	40,023	40,223	39,956	40,313	40,357	40,563	40,643	40,723	41,131	41,876	42,563
Richland	9,195	9,096	9,207	9,267	9,356	9,430	9,679	9,759	10,142	10,779	11,153	11,532	11,894	11,408	11,039
Roosevelt	10,344	10,459	10,437	10,285	10,166	10,129	10,334	10,443	10,493	10,850	11,087	11,280	11,405	11,219	11,098
Rosebud	9,210	9,136	9,131	9,057	9,089	9,095	9,174	9,251	9,331	9,355	9,294	9,315	9,339	9,265	9,248
Sanders	10,554	10,895	11,002	11,178	11,364	11,433	11,471	11,394	11,392	11,366	11,300	11,305	11,286	11,466	11,711
Sheridan	3,697	3,683	3,573	3,507	3,469	3,385	3,387	3,368	3,418	3,549	3,624	3,651	3,652	3,596	3,469
Silver Bow	33,474	33,416	33,414	33,441	33,489	33,812	34,008	34,214	34,374	34,451	34,435	34,578	34,488	34,467	34,602
Stillwater	8,451	8,435	8,481	8,659	8,867	8,945	9,077	9,135	9,176	9,187	9,263	9,238	9,422	9,367	9,419
Sweet Grass	3,591	3,676	3,675	3,697	3,778	3,755	3,731	3,618	3,585	3,582	3,655	3,637	3,619	3,628	3,691
Teton	6,314	6,209	6,105	6,110	6,143	6,143	6,050	6,072	6,057	6,056	6,037	6,018	6,050	6,012	6,085
Toole	5,006	5,069	5,130	5,085	4,969	5,079	5,245	5,343	5,151	5,216	5,118	5,113	5,076	4,961	4,886
Treasure	784	799	766	759	748	754	720	718	713	722	693	689	685	685	679
Valley	7,427	7,422	7,367	7,272	7,332	7,415	7,349	7,377	7,458	7,497	7,614	7,613	7,608	7,537	7,433
Wheatland	2,131	2,113	2,086	2,035	2,080	2,151	2,158	2,156	2,132	2,090	2,123	2,081	2,084	2,111	2,140
Wibaux	1,020	1,019	995	984	1,014	986	1,030	1,008	981	1,034	1,101	1,085	1,072	1,047	1,020
Yellowstone	133,715	135,441	137,623	139,582	141,518	144,255	146,465	148,356	149,702	151,606	153,613	155,096	156,324	157,648	158,980

National Center for Health Statistics. Bridged-race intercensal estimates of the July 1, 1990-July 1, 1999; July 1, 2000-July 1, 2009 Postcensal estimates of the resident population of the United States for July 1, 2010-July 1, 2016 United States resident population by year, county, single-year of age, sex, bridged race, and Hispanic origin, prepared by the U.S. Census Bureau with support from the National Cancer Institute. Available on the [National Vital Statistics System webpage](https://www.nationalvitalstatistics.org/) as of April 24, 2004; Oct 26, 2012; June 27, 2018 (Note: Date varies with series).

Table B-1
Frequency and Percent* Distribution of Live Births
by Infant's Sex, Plurality, and Parity
Montana Residents, 2009-2016

Item	YEAR																	
	2009		2010		2011		2012		2013		2014		2015		2016		2017	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number
Montana Total	12,280	100.0%	12,058	100.0%	12,039	100.0%	12,052	100.0%	12,351	12,280	100.0%	12,058	100.0%	12,039	100.0%	12,052	100.0%	12,351
Sex																		
Male	6,265	51.0%	6,124	50.7%	6,097	50.6%	6,159	51.1%	6,346	6,265	51.0%	6,124	50.7%	6,097	50.6%	6,159	51.1%	6,346
Female	6,015	48.9%	5,933	49.2%	5,942	49.3%	5,893	48.8%	6,004	6,015	48.9%	5,933	49.2%	5,942	49.3%	5,893	48.8%	6,004
Unknown	0	0.0%	1	0.0%	0	0.0%	0	0.0%	1	0	0.0%	1	0.0%	0	0.0%	0	0.0%	1
Plurality																		
Single	11,903	96.9%	11,691	96.9%	11,671	96.9%	11,664	96.7%	11,979	11,903	96.9%	11,691	96.9%	11,671	96.9%	11,664	96.7%	11,979
Twins	369	3.0%	358	2.9%	358	2.9%	372	3.0%	359	369	3.0%	358	2.9%	358	2.9%	372	3.0%	359
Triplets or More	3	0.0%	7	0.0%	10	0.0%	16	0.1%	12	3	0.0%	7	0.0%	10	0.0%	16	0.1%	12
Not Stated	5	0.0%	2	0.0%	0	0.0%	0	0.0%	1	5	0.0%	2	0.0%	0	0.0%	0	0.0%	1
Parity																		
First Birth	4,906	39.9%	4,702	38.9%	4,616	38.3%	4,661	38.6%	4,647	4,906	39.9%	4,702	38.9%	4,616	38.3%	4,661	38.6%	4,647
Second Birth	3,765	30.6%	3,771	31.2%	3,779	31.3%	3,666	30.4%	3,803	3,765	30.6%	3,771	31.2%	3,779	31.3%	3,666	30.4%	3,803
Third Birth	2,047	16.6%	2,014	16.7%	2,004	16.6%	2,051	17.0%	2,145	2,047	16.6%	2,014	16.7%	2,004	16.6%	2,051	17.0%	2,145
Fourth Birth	912	7.4%	865	7.1%	916	7.6%	959	7.9%	975	912	7.4%	865	7.1%	916	7.6%	959	7.9%	975
Fifth Birth	339	2.7%	398	3.3%	409	3.3%	379	3.1%	430	339	2.7%	398	3.3%	409	3.3%	379	3.1%	430
Sixth Birth	154	1.2%	140	1.1%	155	1.2%	176	1.4%	193	154	1.2%	140	1.1%	155	1.2%	176	1.4%	193
Seventh Birth	66	0.5%	68	0.5%	72	0.5%	65	0.5%	78	66	0.5%	68	0.5%	72	0.5%	65	0.5%	78
Eighth Birth	20	0.1%	40	0.3%	35	0.2%	43	0.3%	33	20	0.1%	40	0.3%	35	0.2%	43	0.3%	33
Ninth or More	38	0.3%	40	0.3%	43	0.3%	36	0.2%	42	38	0.3%	40	0.3%	43	0.3%	36	0.2%	42
Not Stated	33	0.2%	20	0.1%	10	0.0%	16	0.1%	5	33	0.2%	20	0.1%	10	0.0%	16	0.1%	5

* Each percentage has been independently rounded to the nearest tenth of one percent. Hence, the sums of parts may differ slightly from the totals.

Table B-2
Frequency and Percent Distribution of Live Births
by Type of Facility and Attendant by Year
Montana Occurrences, 1989-2017

Year	Total	BOA* And in Hospital		Physician Not in Hospital**		Other Not in Hospital	
		Number	Percent	Number	Percent	Number	Percent
2017	11,755	11,278	95.94%	2	0.01%	475	4.04%
2016	12,279	11,801	96.10%	4	0.03%	474	3.86%
2015	12,523	12,015	95.94%	2	0.01%	506	4.04%
2014	12,397	11,909	96.06%	3	0.02%	485	3.91%
2013	12,326	11,768	95.47%	4	0.03%	554	4.49%
2012	12,071	11,594	96.04%	7	0.05%	470	3.89%
2011	12,017	11,554	96.14%	0	0.00%	463	3.85%
2010	12,065	11,646	96.52%	1	0.00%	418	3.46%
2009	12,204	11,753	96.30%	4	0.03%	447	3.66%
2008	12,551	12,073	96.19%	13	0.10%	465	3.70%
2007	12,401	11,958	96.42%	11	0.08%	432	3.48%
2006	12,488	12,102	96.90%	12	0.09%	374	2.99%
2005	11,556	11,263	97.46%	2	0.01%	291	2.51%
2004	11,526	11,262	97.70%	2	0.01%	262	2.27%
2003	11,418	11,139	97.55%	2	0.01%	277	2.42%
2002	11,019	10,763	97.67%	3	0.02%	253	2.29%
2001	10,935	10,657	97.45%	4	0.03%	274	2.50%
2000	10,929	10,638	97.33%	1	0.00%	290	2.65%
1999	10,746	10,438	97.13%	5	0.04%	303	2.81%
1998	10,741	10,433	97.13%	5	0.04%	303	2.82%
1997	10,729	10,420	97.11%	14	0.13%	295	2.74%
1996	10,790	10,449	96.83%	9	0.08%	332	3.07%
1995	11,049	10,693	96.77%	12	0.10%	344	3.11%
1994	10,968	10,624	96.86%	7	0.06%	337	3.07%
1993	11,177	10,866	97.21%	8	0.07%	303	2.71%
1992	11,239	10,883	96.83%	18	0.16%	338	3.00%
1991	11,294	10,941	96.87%	19	0.16%	334	2.95%
1990	11,400	11,118	97.52%	14	0.12%	268	2.35%
1989	11,432	11,149	97.52%	14	0.12%	269	2.35%

* Born on Arrival

** Newborn was delivered by a medical doctor or osteopath not in a hospital.

Table B-3
Frequency and Percent* Distribution of Live Births
by Birth Weight and Year
Montana Residents, 1989-2017

Year	Total	Less Than 1,000 Grams		1,000 - 1,499 Grams		1,500 - 2,499 Grams		2,500 - 3,999 Grams		4,000 Grams or More		Not Stated	
	Number	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2017	11,800	47	0.3%	78	0.6%	821	6.9%	9,893	83.8%	958	8.1%	3	0.0%
2016	12,274	61	0.4%	75	0.6%	830	6.7%	10,380	84.5%	919	7.4%	9	0.0%
2015	12,580	50	0.3%	55	0.4%	782	6.2%	10,641	84.5%	1,045	8.3%	7	0.0%
2014	12,431	62	0.4%	93	0.7%	768	6.1%	10,502	84.4%	1,004	8.0%	2	0.0%
2013	12,351	44	0.3%	68	0.5%	800	6.4%	10,450	84.6%	983	7.9%	6	0.0%
2012	12,052	62	0.5%	67	0.5%	752	6.2%	10,220	84.7%	945	7.8%	6	0.0%
2011	12,039	56	0.4%	63	0.5%	747	6.2%	10,280	85.3%	886	7.3%	7	0.0%
2010	12,058	75	0.6%	79	0.6%	747	6.1%	10,261	85.0%	890	7.3%	6	0.0%
2009	12,280	49	0.3%	78	0.6%	743	6.0%	10,409	84.7%	992	8.0%	9	0.0%
2008	12,595	65	0.5%	79	0.6%	787	6.2%	10,671	84.7%	989	7.8%	4	0.0%
2007	12,437	75	0.6%	69	0.5%	751	6.0%	10,492	84.3%	1,048	8.4%	2	0.0%
2006	12,499	57	0.4%	92	0.7%	762	6.0%	10,593	84.7%	991	7.9%	4	0.0%
2005	11,573	60	0.5%	54	0.4%	658	5.6%	9,898	85.5%	897	7.7%	6	0.0%
2004	11,514	61	0.5%	66	0.5%	754	6.5%	9,660	83.8%	966	8.3%	7	0.0%
2003	11,384	63	0.5%	55	0.4%	649	5.7%	9,654	84.8%	953	8.3%	10	0.0%
2002	11,045	65	0.5%	60	0.5%	633	5.7%	9,299	84.1%	984	8.9%	4	0.0%
2001	10,947	63	0.5%	64	0.5%	629	5.7%	9,206	84.0%	976	8.9%	7	0.0%
2000	10,946	57	0.5%	54	0.4%	567	5.1%	9,167	83.7%	1,091	9.9%	10	0.0%
1999	10,778	46	0.4%	74	0.6%	616	5.7%	8,918	82.7%	1,119	10.3%	5	0.0%
1998	10,789	51	0.4%	63	0.5%	639	5.9%	9,022	83.6%	1,011	9.3%	3	0.0%
1997	10,838	51	0.4%	61	0.5%	574	5.2%	9,064	83.6%	1,083	9.9%	5	0.0%
1996	10,840	52	0.4%	69	0.6%	573	5.2%	8,986	82.8%	1,151	10.6%	9	0.0%
1995	11,136	54	0.4%	56	0.5%	542	4.8%	9,345	83.9%	1,135	10.1%	4	0.0%
1994	11,062	40	0.3%	56	0.5%	594	5.3%	9,245	83.5%	1,119	10.1%	8	0.0%
1993	11,362	44	0.3%	50	0.4%	587	5.1%	9,538	83.9%	1,137	10.0%	6	0.0%
1992	11,468	37	0.3%	45	0.3%	599	5.2%	9,601	83.7%	1,184	10.3%	2	0.0%
1991	11,498	49	0.4%	36	0.3%	552	4.8%	9,699	84.3%	1,159	10.0%	3	0.0%
1990	11,602	53	0.4%	66	0.5%	593	5.1%	9,714	83.7%	1,172	10.1%	4	0.0%
1989	11,667	47	0.4%	44	0.3%	553	4.7%	9,821	84.1%	1,193	10.2%	9	0.0%

* Each percentage has been independently rounded to the nearest tenth of one percent. Hence, the sums of parts may differ slightly from the totals.

Table B-4
Frequency and Percent Distribution of Live Births
by Completed Weeks of Gestation* and Year
Montana Residents, 1989-2017

Year	Total	27 or Fewer Weeks		28 - 31 Weeks		32 - 36 Weeks		37 - 39 Weeks		40 - 41 Weeks		42 or More Weeks		Not Stated	
	Number	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.
2017	11,800	52	0.4%	100	0.8%	966	8.1%	7,136	60.4%	3,468	29.3%	70	0.5%	8	0.0%
2016	12,274	63	0.5%	94	0.7%	915	7.4%	7,450	60.6%	3,684	30.0%	54	0.4%	14	0.1%
2015	12,580	56	0.4%	71	0.5%	934	7.4%	7,639	60.7%	3,812	30.3%	56	0.4%	12	0.0%
2014	12,431	63	0.5%	107	0.8%	986	7.9%	7,478	60.1%	3,713	29.8%	67	0.5%	17	0.1%
2013	12,351	57	0.4%	91	0.7%	961	7.7%	7,352	59.5%	3,792	30.7%	76	0.6%	22	0.1%
2012	12,052	70	0.5%	94	0.7%	958	7.9%	7,155	59.3%	3,692	30.6%	65	0.5%	18	0.1%
2011	12,039	55	0.4%	88	0.7%	921	7.6%	7,162	59.4%	3,723	30.9%	73	0.6%	17	0.1%
2010	12,058	87	0.7%	102	0.8%	1,032	8.5%	7,075	58.6%	3,665	30.3%	78	0.6%	19	0.1%
2009	12,280	61	0.4%	92	0.7%	952	7.7%	7,206	58.6%	3,881	31.6%	58	0.4%	30	0.2%
2008	12,595	87	0.6%	94	0.7%	1,062	8.4%	7,422	58.9%	3,794	30.1%	87	0.6%	49	0.3%
2007	12,437	86	0.6%	114	0.9%	1,045	8.4%	7,192	57.8%	3,885	31.2%	88	0.7%	27	0.2%
2006	12,499	67	0.5%	117	0.9%	1,099	8.7%	7,091	56.7%	4,012	32.0%	97	0.7%	16	0.1%
2005	11,573	60	0.5%	72	0.6%	958	8.2%	6,438	55.6%	3,928	33.9%	96	0.8%	21	0.1%
2004	11,514	59	0.5%	90	0.7%	1,004	8.7%	6,296	54.6%	3,979	34.5%	63	0.5%	23	0.1%
2003	11,384	57	0.5%	102	0.8%	911	8.0%	6,000	52.7%	4,196	36.8%	95	0.8%	23	0.2%
2002	11,045	63	0.5%	94	0.8%	869	7.8%	5,750	52.0%	4,143	37.5%	105	0.9%	21	0.1%
2001	10,947	57	0.5%	86	0.7%	856	7.8%	5,560	50.7%	4,234	38.6%	124	1.1%	30	0.2%
2000	10,946	44	0.4%	86	0.7%	806	7.3%	5,384	49.1%	4,445	40.6%	152	1.3%	29	0.2%
1999	10,778	52	0.4%	96	0.8%	808	7.4%	4,958	46.0%	4,620	42.8%	210	1.9%	34	0.3%
1998	10,789	53	0.4%	87	0.8%	792	7.3%	4,803	44.5%	4,795	44.4%	235	2.1%	24	0.2%
1997	10,838	55	0.5%	72	0.6%	726	6.6%	4,764	43.9%	4,932	45.5%	257	2.3%	32	0.2%
1996	10,840	58	0.5%	74	0.6%	737	6.7%	4,658	42.9%	5,071	46.7%	222	2.0%	20	0.1%
1995	11,136	55	0.4%	71	0.6%	704	6.3%	4,747	42.6%	5,283	47.4%	245	2.2%	31	0.2%
1994	11,062	37	0.3%	79	0.7%	697	6.3%	4,604	41.6%	5,311	48.0%	303	2.7%	31	0.2%
1993	11,362	42	0.3%	55	0.4%	695	6.1%	4,607	40.5%	5,612	49.3%	308	2.7%	43	0.3%
1992	11,468	41	0.3%	67	0.5%	666	5.8%	4,552	39.6%	5,770	50.3%	350	3.0%	22	0.1%
1991	11,498	38	0.3%	79	0.6%	627	5.4%	4,102	35.6%	6,226	54.1%	409	3.5%	17	0.1%
1990	11,602	50	0.4%	89	0.7%	640	5.5%	3,971	34.2%	6,381	54.9%	456	3.9%	15	0.1%
1989	11,667	43	0.3%	52	0.4%	633	5.4%	4,091	35.0%	6,272	53.7%	551	4.7%	25	0.2%

* Clinical estimate of completed weeks of gestational age.

Table B-5
Frequency of Live Births
by Month Prenatal Care Began* and Year
Montana Residents, 1989-2017

Year	Total	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	No Care	Not Stated
2017	11,800	330	3,763	4,594	1,378	597	349	278	360	151	0	0
2016	12,274	337	3,702	4,737	1,463	676	468	314	403	174	0	0
2015	12,580	295	3,486	5,091	1,597	744	412	340	423	192	0	0
2014	12,431	326	3,492	4,942	1,532	737	441	327	380	254	0	0
2013	12,351	326	3,531	4,821	1,519	711	451	330	399	263	0	0
2012	12,052	340	3,549	4,856	1,398	632	386	299	316	276	0	0
2011	12,039	341	3,545	4,866	1,395	733	387	254	288	230	0	0
2010	12,058	364	3,662	4,632	1,360	753	392	259	241	395	0	0
2009	12,280	339	3,322	4,417	1,333	655	362	262	249	1,341	0	0
2008	12,595	472	3,759	4,439	1,457	653	401	247	288	879	0	0
2007	12,437	1,500	5,768	2,945	882	430	262	157	96	321	75	1
2006	12,499	1,586	5,645	3,071	920	477	224	171	97	242	66	0
2005	11,573	1,361	5,348	2,907	859	433	230	134	62	166	72	1
2004	11,514	1,462	5,178	2,873	854	463	268	138	97	112	69	0
2003	11,384	1,436	5,269	2,866	811	424	221	123	91	87	56	0
2002	11,045	1,300	5,023	2,867	858	397	232	127	80	100	61	0
2001	10,947	1,302	5,027	2,686	863	460	229	144	94	71	71	0
2000	10,946	1,405	4,997	2,661	819	439	217	160	74	104	70	0
1999	10,778	1,524	4,876	2,605	778	404	229	139	89	62	72	0
1998	10,789	1,389	4,836	2,617	865	421	266	150	103	75	67	0
1997	10,838	1,615	4,704	2,581	836	425	216	180	94	95	92	0
1996	10,840	1,670	4,802	2,445	848	431	248	164	78	31	71	52
1995	11,136	1,741	4,736	2,567	949	444	269	153	104	63	75	35
1994	11,062	1,804	4,751	2,417	958	450	244	162	88	53	78	57
1993	11,362	1,696	4,718	2,677	1,000	472	314	202	121	31	68	63
1992	11,468	1,586	4,621	2,707	1,074	581	355	222	132	43	81	66
1991	11,498	1,526	4,555	2,776	1,105	590	363	221	143	46	86	87
1990	11,602	1,545	4,537	2,720	1,119	616	398	279	140	61	109	78
1989	11,667	1,466	4,626	2,848	1,090	625	361	267	148	50	103	83

* Month prenatal care began is now calculated, beginning with the revision of the birth certificate in 2008; it is not strictly comparable to the reported figure on the prior revisions of the certificate.

Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause of Death*	Age in Years																						
	All Ages			0 YR.		1 YR.		2-4		5-9		10-14		15-17		18-19		20-24		25-29		30-34	
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
All Causes**	10,203	5,298	4,905	36	28	2	0	2	3	2	3	5	6	11	9	18	5	52	20	70	36	86	38
I. Certain infectious and parasitic diseases	205	99	106	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1
Intestinal infectious diseases	30	11	19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Other intestinal infectious diseases	21	10	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(3) Paratyphoid fevers and other salmonella infections	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(7) Intestinal infections due to other specified organisms	20	10	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(8) Diarrhea and gastroenteritis of infectious origin	9	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(9) Respiratory tuberculosis	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(10) Other tuberculosis	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zoonotic and other bacterial diseases	122	58	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
(18) Septicemia	111	52	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(19) Other zoonotic and bacterial diseases	11	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Viral diseases	37	22	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(34) Zoster (herpes zoster)	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(38) Viral hepatitis	20	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Human immunodeficiency virus (HIV) disease	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(39) Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic diseases	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(41) Human immunodeficiency virus (HIV) disease resulting in other specified diseases	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(44) All other and unspecified viral diseases	12	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases and their sequelae	13	8	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(45) Mycoses	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Protozoal diseases	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(49) Pneumocystosis	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(54) Sequelae of poliomyelitis	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(55) All other and unspecified infectious and parasitic diseases and their sequelae	6	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
II. Neoplasms	2,221	1,208	1,013	0	1	0	0	0	1	0	0	1	0	2	3	0	3	1	2	2	1	4	4
Malignant neoplasms	2,142	1,167	975	0	0	0	0	0	1	0	0	1	0	2	3	0	3	1	2	2	1	4	4
Malignant neoplasms of lip, oral cavity and pharynx	44	29	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(57) Of tongue	9	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(58) Of pharynx	17	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(59) Of other and unspecified sites within the lip, oral cavity and pharynx	18	10	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malignant neoplasms of digestive organs	534	330	204	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(60) Of esophagus	79	66	13	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
(61) Of stomach	26	18	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(62) Of small intestine	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Of colon, rectum and anus	177	99	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(63) Colon	121	67	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(64) Rectosigmoid junction and rectum	45	28	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(65) Anus and anal canal	11	4	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Of liver and intrahepatic bile ducts	81	59	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(66) Liver	62	49	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* Line numbers shown in parentheses on this table correspond to those in the [NCHS Instruction Manual Part 9](#).

Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause of Death*	Age in Years																							
	All Ages			0 YR.		1 YR.		2-4		5-9		10-14		15-17		18-19		20-24		25-29		30-34		
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
(67) Intrahepatic bile duct carcinoma	19	10	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(68) Of gallbladder and extrahepatic bile ducts	8	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(69) Of pancreas	153	77	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(70) Of other and ill-defined digestive organs	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Malignant neoplasms of respiratory and intrathoracic organs	485	234	251	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(71) Of nasal cavity, middle ear and accessory sinuses	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(72) Of larynx	11	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(73) Of trachea, bronchus and lung	466	221	245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(74) Of thymus, heart, mediastinum and pleura	5	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(76) Malignant neoplasms of bone and articular cartilage	7	4	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Melanoma and other malignant neoplasms of skin	48	33	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
(77) Malignant melanoma of skin	34	22	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
(78) Other malignant neoplasms of skin	14	11	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Malignant neoplasms of mesothelial and soft tissue	42	31	11	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	1	0	
(79) Mesothelioma	21	19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(81) Of other mesothelial and soft tissue	21	12	9	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	1	0	
(82) Malignant neoplasm of breast	132	2	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Malignant neoplasms of female genital organs	99	0	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(83) Of vulva and vagina	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(84) Of cervix uteri	11	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(85) Of corpus uteri and uterus, part unspecified	31	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(86) Of ovary	45	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(87) Of other and unspecified female genital organs	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Malignant neoplasms of male genital organs	164	164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(89) Of prostate	160	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(90) Of testis	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(91) Of penis and other and unspecified male genital organs	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Malignant neoplasms of urinary tract	123	94	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(92) Of kidney and renal pelvis	49	34	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(93) Of bladder	71	57	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(94) Of other and unspecified sites within the urinary tract	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Malignant neoplasms of meninges, brain and other parts of central nervous system	64	35	29	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	
(96) Of brain	64	35	29	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	
(98) Malignant neoplasms of thyroid and other endocrine glands	11	6	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(99) Other malignant neoplasms of other and unspecified sites	180	86	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	
Malignant neoplasms of lymphoid, hematopoietic and related tissue	209	119	90	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	
(100) Hodgkin 's disease	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Of other lymphoid, hematopoietic and related tissue	85	51	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(101) Non-Hodgkin 's lymphoma	85	51	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(104) Multiple myeloma and malignant plasma cell neoplasms	46	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Leukemia	75	42	33	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	
(105) Lymphoid leukemia	27	13	14	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	
(106) Myeloid leukemia	38	22	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(108) Other and unspecified leukemia	10	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause of Death*	Age in Years																							
	All Ages			0 YR.		1 YR.		2-4		5-9		10-14		15-17		18-19		20-24		25-29		30-34		
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
Benign neoplasms	7	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(112) Of eye, brain and other parts of central nervous system	4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(113) Of other and unspecified sites	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(114) Neoplasms of uncertain or unknown behavior of specified sites	71	38	33	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(115) Neoplasm of uncertain or unknown behavior of unspecified sites	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
III. Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	46	26	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
Anemias	21	12	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(117) Hemolytic anemias	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(118) Aplastic anemias	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(119) Acute posthemorrhagic and other anemias	17	10	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(120) Coagulation defects, purpura and other hemorrhagic conditions	13	7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(121) Other diseases of blood and blood forming organs	6	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
(122) Certain disorders involving the immune mechanism	6	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IV. Endocrine, nutritional and metabolic diseases	463	246	217	1	1	0	0	0	1	0	0	0	0	1	0	0	0	2	0	1	1	5	0	
Endocrine diseases	304	175	129	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	
(123) Disorders of thyroid gland	8	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(124) Diabetes mellitus	290	171	119	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	
(125) Disorders of pituitary gland	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(126) Disorders of adrenal glands	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(128) Other endocrine diseases	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nutritional diseases	88	35	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	
Malnutrition	56	16	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(130) Other and unspecified malnutrition	56	16	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(132) Obesity and other hyperalimentation	32	19	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	
Metabolic disorders	71	36	35	1	1	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	1	0	0	
(134) Volume depletion, disorders of fluid, electrolyte and acid-base balance	23	9	14	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
(135) Other metabolic disorders	48	27	21	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	
V. Mental and behavioral disorders	725	268	457	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	1	
(136) Organic dementia	607	182	425	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(137) Other and unspecified organic mental disorders	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mental and behavioral disorders due to psychoactive substance use	106	83	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	1	
(138) Mental and behavioral disorders due to use of alcohol	90	73	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	
(139) Mental and behavioral disorders due to other psychoactive substance use	16	10	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	
(140) Schizophrenia, schizotypal and delusional disorders	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(141) Mood (affective) disorders	4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(144) Other and unspecified mental and behavioral disorders	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
VI. Diseases of the nervous system	580	263	317	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	
(145) Meningitis	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(146) Other inflammatory diseases of central nervous system	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(147) Parkinson 's disease	100	68	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(148) Alzheimer 's disease	285	91	194	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(149) Multiple sclerosis	20	8	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause of Death*	Age in Years																							
	All Ages			0 YR.		1 YR.		2-4		5-9		10-14		15-17		18-19		20-24		25-29		30-34		
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
(150) Epilepsy	7	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
(151) Transient cerebral ischemic attacks and related syndromes	4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(152) Infantile cerebral palsy	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(153) All other diseases of nervous system	157	89	68	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0
(154) VII. Diseases of the eye and adnexa	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IX. Diseases of the circulatory system	2,868	1,527	1,341	0	1	0	0	0	0	0	0	0	0	0	2	2	0	0	1	3	1	8	3	
Acute rheumatic fever and chronic rheumatic heart diseases	22	9	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic rheumatic heart diseases	22	9	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(157) Rheumatic mitral valve diseases	10	4	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(158) Rheumatic aortic valve diseases	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(159) Disorders of both mitral and aortic valves	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(160) Other chronic rheumatic heart diseases	7	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypertensive diseases	221	107	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
(161) Essential (primary) hypertension	66	27	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(162) Hypertensive heart disease	111	65	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
(163) Hypertensive renal disease and secondary hypertension	28	8	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(164) Hypertensive heart and renal disease	16	7	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ischemic heart diseases	1,191	757	434	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	1	
(165) Acute myocardial infarction	232	132	100	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	
(166) Other acute ischemic heart diseases	14	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other forms of chronic ischemic heart disease	945	618	327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	
(167) Atherosclerotic cardiovascular disease, so described	514	341	173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	
(168) All other forms of chronic ischemic heart disease	431	277	154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other heart diseases	822	377	445	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	3	0	2	1	0	0
Pulmonary heart disease and diseases of pulmonary circulation	69	29	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(169) Pulmonary embolism	28	10	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(170) Other pulmonary heart disease and diseases of pulmonary circulation	41	19	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other non-pulmonary forms of heart disease	753	348	405	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3	0	2	1	0
(171) Acute and subacute endocarditis	9	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(172) Diseases of pericardium and acute myocarditis	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other diseases of endocardium	118	54	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(173) Nonrheumatic mitral valve disorders	12	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(174) Nonrheumatic aortic valve disorders	74	35	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(175) All other diseases of endocardium	32	13	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(176) Cardiomyopathy	58	35	23	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	1	1	0
(177) Conduction disorders and cardiac dysrhythmias	175	66	109	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
Heart failure	351	167	184	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
(178) Congestive heart failure	282	128	154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(179) Other and unspecified heart failure	69	39	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(181) All other and ill-defined forms of heart disease	40	19	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cerebrovascular diseases	487	207	280	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
(182) Subarachnoid hemorrhage	19	8	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(183) Intracerebral and other intracranial hemorrhage	91	46	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(184) Cerebral infarction	44	17	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(185) Stroke, not specified as hemorrhage or infarction	220	92	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(186) Other cerebrovascular diseases and their sequelae	113	44	69	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

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Montana Residents, 2017

Cause of Death*	Age in Years																							
	All Ages			0 YR.		1 YR.		2-4		5-9		10-14		15-17		18-19		20-24		25-29		30-34		
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
Diseases of arteries, arterioles and capillaries	112	64	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(187) Atherosclerosis	25	16	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(188) Aortic aneurysm and dissection	39	22	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(189) Other diseases of arteries, arterioles and capillaries	48	26	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Other disorders of circulatory system	13	6	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
(190) Phlebitis, thrombophlebitis, venous embolism and thrombosis	9	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
(191) All other and unspecified disorders of circulatory system	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
X. Diseases of the respiratory system	1,160	548	612	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	1
Acute upper respiratory infections	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(192) Acute pharyngitis and tonsillitis	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(194) Other and unspecified acute upper respiratory infections	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other diseases of the respiratory system	1,158	548	610	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	1
(195) Influenza	54	20	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Pneumonia	132	63	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(196) Viral pneumonia, not elsewhere classified	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(197) Bacterial pneumonia	7	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(198) Pneumonia due to other or unspecified organisms	122	57	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(201) Other diseases of upper respiratory tract	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic lower respiratory diseases	752	344	408	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0
Bronchitis, chronic and unspecified, emphysema and asthma	748	344	404	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0
(202) Bronchitis, not specified as acute or chronic	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(203) Chronic bronchitis	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(204) Emphysema	49	27	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(205) Other chronic obstructive pulmonary disease	684	311	373	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(206) Asthma	12	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0
(207) Bronchiectasis	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lung diseases due to external agents	77	47	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(208) Pneumoconioses and chemical effects	8	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pneumonitis due to solids and liquids	69	40	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(209) Pneumonitis due to food and vomit	69	40	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(212) Suppurative and necrotic conditions of lower respiratory tract	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(213) Pleural effusion and plaque	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(214) All other diseases of respiratory system	137	71	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
XI. Diseases of the digestive system	484	251	233	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4
(215) Diseases of oral cavity, salivary glands and jaws	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diseases of other parts of digestive system	482	251	231	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	4
(216) Diseases of esophagus	10	5	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peptic ulcer	12	3	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(217) Gastric ulcer	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(218) Duodenal ulcer	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(219) Peptic ulcer, site unspecified	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(221) Gastritis and duodenitis	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(222) Dyspepsia and other diseases of stomach and duodenum	5	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause of Death*	Age in Years																							
	All Ages			0 YR.		1 YR.		2-4		5-9		10-14		15-17		18-19		20-24		25-29		30-34		
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
(223) Diseases of appendix	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(224) Hernia	9	3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(225) Crohn 's disease and ulcerative colitis	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(226) Vascular disorders and obstruction of intestine without hernia	65	22	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(227) Diverticular disease of intestine	11	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(228) Other diseases of intestines and peritoneum	20	7	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(229) Diseases of peritoneum	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diseases of liver	249	155	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	3	4	4
(230) Alcoholic liver disease	145	99	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3	4	4
(232) Fibrosis and cirrhosis of liver	51	28	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(233) Other diseases of liver	53	28	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
(234) Cholelithiasis and other disorders of gallbladder	21	11	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disorders of biliary tract and pancreas	26	11	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(235) Pancreatitis	15	8	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(236) Other disorders of biliary tract and pancreas	11	3	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(237) All other diseases of digestive system	46	24	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
XII. Diseases of the skin and subcutaneous tissue	25	8	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(238) Infections of skin and subcutaneous tissue	15	6	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(239) Other and unspecified diseases of skin and subcutaneous tissue	10	2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XIII. Diseases of the musculoskeletal system and connective tissue	71	25	46	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
(240) Rheumatoid arthritis and related inflammatory polyarthropathies	12	3	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(241) Systemic lupus erythematosus	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
(242) Other arthropathies and related disorders	26	10	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(243) Dorsopathies	7	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(244) Soft tissue disorders	8	2	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue	16	6	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(245) Osteoporosis	7	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(246) Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue	9	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XIV. Diseases of the genitourinary system	192	100	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Diseases of urinary system	182	93	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Glomerular and renal tubulo-interstitial diseases	13	7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glomerular diseases	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(247) Acute and rapidly progressive nephritic syndrome	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(248) Nephrotic syndrome	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(249) Other and unspecified glomerular diseases	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(250) Renal tubulo-interstitial diseases	10	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(251) Renal failure	125	72	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
(254) Urinary tract infection, site not specified	31	10	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(255) Other diseases of urinary system	13	4	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diseases of male genital organs	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(256) Hyperplasia of prostate	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(257) Other diseases of male genital organs	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause of Death*	Age in Years																							
	All Ages			0 YR.		1 YR.		2 4		5 9		10 14		15 17		18 19		20 24		25 29		30 34		
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
(258) Disorders of breast	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Disorders of female genital organs	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(260) Noninflammatory disorders of female genital tract	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
XV. Pregnancy, childbirth and the puerperium	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	
Other direct obstetric deaths	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
(270) All other direct obstetric causes	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
(272) Other deaths related to pregnancy, childbirth and the puerperium	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
(273) Indirect obstetric deaths	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
XVI. Certain conditions originating in the perinatal period	21	10	11	9	11	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
(274) Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	6	2	4	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(275) Disorders related to short gestation and low birth weight, not elsewhere classified	4	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(277) Intrauterine hypoxia and birth asphyxia	2	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
(279) Other respiratory conditions originating in the perinatal period	3	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(280) Infections specific to the perinatal period	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(281) Other and unspecified conditions originating in the perinatal period	5	3	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
XVII. Congenital malformations, deformations and chromosomal abnormalities	44	26	18	11	7	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	
(282) Anencephaly and similar malformations	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(284) All other congenital malformations of nervous system	3	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
(285) Congenital malformations of heart	9	6	3	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(286) Other congenital malformations of circulatory system	4	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
(288) Other congenital malformations and deformations	13	7	6	5	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
(289) Down 's syndrome	10	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(290) All other chromosomal abnormalities, not elsewhere classified	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
XVIII. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	121	50	71	11	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	
(291) Senility	34	7	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ill-defined and unknown causes of mortality	38	26	12	11	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	
(293) Other ill-defined and unknown causes of mortality	38	26	12	11	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	
(294)All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	49	17	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
XX. External causes of mortality	971	641	330	3	4	1	0	1	1	1	3	5	5	9	4	12	4	44	17	52	22	62	23	
Accidents (unintentional injuries)	578	345	233	1	3	0	0	1	0	1	3	2	2	6	1	6	1	19	9	26	9	28	18	
Transport accidents	191	124	67	0	1	0	0	1	0	0	2	2	2	5	1	3	1	11	7	11	7	17	10	
(295) Railway accidents	2	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	
Motor vehicle accidents	180	117	63	0	1	0	0	1	0	0	2	1	2	5	1	3	1	11	6	11	7	17	10	
(296) Pedestrian involved in collision with motor vehicle	4	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
(297) Pedalcyclist involved in collision with motor vehicle	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(298) Motorcyclist involved in any accident except collision with railway train	22	20	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	4	1	1	
(301) Occupant of motor vehicle involved in collision with other (non-motorized) road vehicle, streetcar, animal or pedestrian	3	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause of Death*	All Ages			Age in Years																			
				0 YR.		1 YR.		2 4		5 9		10 14		15 17		18 19		20 24		25 29		30 34	
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.		
(302) Occupant of car, pickup truck or van involved in collision with other motor vehicle	13	5	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	0
(304) Occupant of motor vehicle involved in noncollision accident	13	8	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2
(305) Occupant of special-use motor vehicle involved in any accident	11	9	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0
(306) Other and unspecified motor vehicle accidents	113	70	43	0	1	0	0	0	0	0	2	1	1	4	1	1	1	8	4	7	5	10	7
(308) Other and unspecified land transport accidents	6	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(311) Other and unspecified transport accidents and their sequelae	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Falls	177	90	87	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0
(312) Fall on same level	79	41	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(313) Fall from one level to another	28	19	9	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0
(314) Unspecified fall	70	30	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(315) Accidental discharge of firearms	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(317) Accidental drowning and submersion	12	6	6	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0
(318) Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract	20	15	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
(319) Other accidental and unspecified threats to breathing	5	3	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
(322) Accidental exposure to smoke, fire and flames	8	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
(325) Earthquake, volcanic eruption, avalanche landslide and other earth movements	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(326) Cataclysmic storm and flood	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Accidental poisoning and exposure to noxious substances	110	75	35	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5	1	12	2	8	6
(327) Accidental poisoning by and exposure to drugs and other biological substances	91	57	34	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5	1	8	2	5	5
(328) Accidental poisoning by and exposure to other and unspecified solid or liquid substances	10	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	1
(329) Accidental poisoning by and exposure to other gases and vapors	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
(330) All other and unspecified accidents and their sequelae	50	25	25	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2
Intentional self-harm (suicide)	312	247	65	0	0	0	0	0	0	0	0	2	2	3	2	6	2	23	7	22	9	25	1
(331) Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances	21	8	13	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	3	0
(333) Intentional self-poisoning (suicide) by and exposure to other gases and vapors	10	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
(334) Intentional self-harm (suicide) by hanging, strangulation and suffocation	52	42	10	0	0	0	0	0	0	0	1	0	2	0	1	1	6	3	10	3	4	0	0
(335) Intentional self-harm (suicide) by discharge of firearms	214	180	34	0	0	0	0	0	0	0	0	1	1	1	2	5	0	15	2	10	4	17	1
(336) Intentional self-harm (suicide) by jumping from a high place	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
(337) Intentional self-harm (suicide) by all other and unspecified means and their sequelae	13	8	5	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	1	0	1	0	0
Assault (homicide)	42	25	17	2	1	1	0	0	1	0	0	1	0	0	1	0	0	1	1	3	2	7	3
(339) Assault (homicide) by hanging, strangulation and suffocation	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(340) Assault (homicide) by discharge of firearms	21	13	8	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	1	4	1	1
(341) Assault (homicide) by sharp object	10	6	4	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	2	1	1
(342) Assault (homicide) by blunt object	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1

* Line numbers shown in parentheses on this table correspond to those in the [NCHS Instruction Manual Part 9](#).

Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause of Death*	All Ages			Age in Years																				
				0 YR.		1 YR.		2 4		5 9		10 14		15 17		18 19		20 24		25 29		30 34		
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
(343) Assault (homicide) by bodily force	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(345) Neglect, abandonment and other maltreatment syndromes	2	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(346) Assault (homicide) by all other and unspecified means and their sequelae	5	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Event of undetermined intent	18	10	8	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	1
(347) Poisoning by and exposure to drugs and biological substances, undetermined intent	6	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0
(349) Poisoning by and exposure to other gases and vapors, undetermined intent	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(350) Discharge of firearms, undetermined intent	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(352) All other and unspecified events of undetermined intent and their sequelae	9	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Legal intervention	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0
(354) Other legal intervention and their sequelae	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	2	0
Complications of medical and surgical care	15	8	7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
(356) Drugs, medicaments and biological substances causing adverse effects in therapeutic use, and their sequelae	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14	8	6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

* Line numbers shown in parentheses on this table correspond to those in the [NCHS Instruction Manual Part 9](#).

Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause Of Death*	Age In Years																					
	35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
All Causes**	76	39	99	52	110	69	169	139	326	224	435	295	567	348	570	425	635	549	706	647	1,321	1,970
I. Certain infectious and parasitic diseases	1	1	2	1	3	3	10	1	10	4	9	12	12	8	11	6	12	15	6	15	19	38
Intestinal infectious diseases	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	0	1	2	1	4	4	11
Other intestinal infectious diseases	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	0	1	1	1	1	3	7
(3) Paratyphoid fevers and other salmonella infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(7) Intestinal infections due to other specified organisms	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	0	1	0	1	1	3	7
(8) Diarrhea and gastroenteritis of infectious origin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	1	4
Tuberculosis	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
(9) Respiratory tuberculosis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
(10) Other tuberculosis	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Zoonotic and other bacterial diseases	0	0	1	1	3	3	6	1	4	2	5	5	6	6	7	5	10	10	3	11	12	18
(18) Septicemia	0	0	1	1	3	3	6	1	4	2	5	5	6	6	7	5	6	8	3	9	11	17
(19) Other zoonotic and bacterial diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	2	1	1
Viral diseases	1	0	1	0	0	0	3	0	4	2	3	4	4	1	2	1	1	2	0	0	2	5
(34) Zoster (herpes zoster)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(38) Viral hepatitis	0	0	1	0	0	0	3	0	3	2	3	2	4	1	0	0	1	0	0	0	0	0
Human immunodeficiency virus (HIV) disease	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
(39) Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic diseases	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(41) Human immunodeficiency virus (HIV) disease resulting in other specified diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
(44) All other and unspecified viral diseases	0	0	0	0	0	0	0	0	1	0	0	2	0	0	1	1	0	2	0	0	2	3
Other and unspecified infectious and parasitic diseases and their sequelae	0	0	0	0	0	0	1	0	1	0	0	0	2	0	1	0	0	1	2	0	1	4
(45) Mycoses	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	1
Protozoal diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
(49) Pneumocystosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
(54) Sequelae of poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
(55) All other and unspecified infectious and parasitic diseases and their sequelae	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	3
II. Neoplasms	5	2	5	9	12	12	38	47	70	87	116	104	188	122	185	131	184	154	180	137	216	196
Malignant neoplasms	5	2	5	9	12	12	38	47	70	86	113	100	181	121	180	128	174	144	172	131	208	184
Malignant neoplasms of lip, oral cavity and pharynx	1	0	0	0	1	0	2	1	3	6	0	11	1	4	2	2	1	4	1	4	1	4
(57) Of tongue	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	2	0	0	2	0	0	1
(58) Of pharynx	0	0	0	0	1	0	0	1	0	3	0	4	1	4	0	2	0	0	0	0	0	1
(59) Of other and unspecified sites within the lip, oral cavity and pharynx	1	0	0	0	0	0	2	0	2	2	0	5	0	0	0	0	1	2	1	0	0	2
Malignant neoplasms of digestive organs	2	0	0	2	6	2	15	8	30	16	46	24	61	30	44	19	49	33	37	27	39	42
(60) Of esophagus	0	0	0	0	2	0	2	0	5	0	9	0	13	5	14	2	7	1	7	4	6	1
(61) Of stomach	0	0	0	0	1	0	2	1	1	3	2	0	0	1	2	0	7	0	1	1	2	2
(62) Of small intestine	0	0	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0
Of colon, rectum and anus	1	0	0	1	2	0	3	4	13	5	8	6	16	7	11	10	15	14	18	12	12	18
(63) Colon	1	0	0	1	1	0	2	2	9	3	5	3	13	3	8	8	9	12	10	9	9	13
(64) Rectosigmoid junction and rectum	0	0	0	0	1	0	1	1	4	1	1	2	2	4	3	2	6	2	7	2	3	2
(65) Anus and anal canal	0	0	0	0	0	0	1	0	1	2	1	1	0	0	0	0	0	0	1	1	0	3
Of liver and intrahepatic bile ducts	0	0	0	0	0	1	3	0	5	1	15	2	13	4	6	1	6	5	4	3	7	5
(66) Liver	0	0	0	0	0	1	2	0	4	1	15	1	13	2	4	1	4	3	2	1	5	3
(67) Intrahepatic bile duct carcinoma	0	0	0	0	0	0	1	0	1	0	0	1	0	2	2	0	2	2	2	2	2	2

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause Of Death*	Age In Years																					
	35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
(68) Of gallbladder and extrahepatic bile ducts	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2	1	0	1	2
(69) Of pancreas	1	0	0	1	0	1	3	2	5	7	11	16	17	13	9	5	14	11	6	7	11	13
(70) Of other and ill-defined digestive organs	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	1	0	0	0	0	0	1
Malignant neoplasms of respiratory and intrathoracic organs	0	0	1	0	2	2	7	13	13	19	22	22	35	44	47	42	44	35	26	40	37	34
(71) Of nasal cavity, middle ear and accessory sinuses	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
(72) Of larynx	0	0	0	0	0	0	0	0	0	1	2	0	3	0	1	1	1	0	1	0	1	0
(73) Of trachea, bronchus and lung	0	0	1	0	2	2	5	12	13	18	20	21	31	43	46	41	43	34	25	40	35	34
(74) Of thymus, heart, mediastinum and pleura	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	0	0	1	0	0
(76) Malignant neoplasms of bone and articular cartilage	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	2	0	0
Melanoma and other malignant neoplasms of skin	0	0	1	0	0	1	3	1	3	2	3	3	4	3	7	0	4	3	4	0	4	1
(77) Malignant melanoma of skin	0	0	1	0	0	1	2	0	1	1	2	3	3	3	5	0	4	3	1	0	3	0
(78) Other malignant neoplasms of skin	0	0	0	0	0	0	1	1	2	1	1	0	1	0	2	0	0	0	3	0	1	1
Malignant neoplasms of mesothelial and soft tissue	0	0	0	0	0	0	1	1	3	0	6	0	2	0	2	2	2	4	4	0	7	3
(79) Mesothelioma	0	0	0	0	0	0	0	0	2	0	4	0	2	0	1	1	1	1	3	0	6	0
(81) Of other mesothelial and soft tissue	0	0	0	0	0	0	1	1	1	0	2	0	0	0	1	1	1	3	1	0	1	3
(82) Malignant neoplasm of breast	0	1	0	2	0	0	0	8	1	13	0	10	1	14	0	12	0	18	0	18	0	33
Malignant neoplasms of female genital organs	0	0	0	2	0	3	0	5	0	10	0	15	0	13	0	15	0	17	0	9	0	10
(83) Of vulva and vagina	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	4	0
(84) Of cervix uteri	0	0	0	1	0	2	0	1	0	3	0	1	0	1	0	1	0	0	0	0	0	1
(85) Of corpus uteri and uterus, part unspecified	0	0	0	0	0	0	0	1	0	1	0	6	0	4	0	6	0	8	0	3	0	2
(86) Of ovary	0	0	0	1	0	0	0	2	0	4	0	6	0	8	0	7	0	9	0	5	0	3
(87) Of other and unspecified female genital organs	0	0	0	0	0	1	0	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0
Malignant neoplasms of male genital organs	0	0	1	0	0	0	2	0	3	0	8	0	11	0	21	0	29	0	34	0	55	0
(89) Of prostate	0	0	0	0	0	0	2	0	3	0	8	0	11	0	21	0	28	0	34	0	53	0
(90) Of testis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(91) Of penis and other and unspecified male genital organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0
Malignant neoplasms of urinary tract	0	0	0	0	2	0	1	0	4	4	8	4	15	0	17	5	3	3	21	3	23	10
(92) Of kidney and renal pelvis	0	0	0	0	1	0	0	0	2	3	4	3	9	0	5	1	0	3	7	1	6	4
(93) Of bladder	0	0	0	0	1	0	1	0	2	1	4	1	6	0	11	4	3	0	12	2	17	6
(94) Of other and unspecified sites within the urinary tract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Malignant neoplasms of meninges, brain and other parts of central nervous system	1	0	0	0	1	1	3	3	4	3	5	5	8	4	3	5	3	3	2	1	4	1
(96) Of brain	1	0	0	0	1	1	3	3	4	3	5	5	8	4	3	5	3	3	2	1	4	1
(98) Malignant neoplasms of thyroid and other endocrine glands	1	0	0	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	1	2	2	2
(99) Other malignant neoplasms of other and unspecified sites	0	0	0	1	0	2	3	3	4	12	5	6	16	6	13	17	16	12	14	12	14	21
Malignant neoplasms of lymphoid, hematopoietic and related tissue	0	1	2	1	1	0	3	3	4	4	3	10	16	6	20	9	21	15	25	17	23	23
(100) Hodgkin 's disease	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Of other lymphoid, hematopoietic and related tissue	0	0	0	0	0	0	1	2	0	1	0	2	5	4	9	5	11	7	15	4	10	9
(101) Non-Hodgkin 's lymphoma	0	0	0	0	0	0	1	2	0	1	0	2	5	4	9	5	11	7	15	4	10	9
(104) Multiple myeloma and malignant plasma cell neoplasms	0	0	0	0	1	0	0	0	1	1	2	5	5	0	1	2	5	4	3	5	5	6
Leukemia	0	1	1	1	0	0	2	1	3	2	1	3	4	2	10	2	5	4	7	8	8	8
(105) Lymphoid leukemia	0	0	0	0	0	0	1	0	1	0	0	2	0	1	1	0	2	1	3	4	4	5
(106) Myeloid leukemia	0	1	1	1	0	0	1	1	1	2	1	1	3	1	6	2	2	2	4	3	3	2
(108) Other and unspecified leukemia	0	0	0	0	0	0	0	0	1	0	0	0	1	0	3	0	1	1	0	1	1	1
Benign neoplasms	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	1	1

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause Of Death*	Age In Years																					
	35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
(112) Of eye, brain and other parts of central nervous system	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	1
(113) Of other and unspecified sites	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0
(114) Neoplasms of uncertain or unknown behavior of specified sites	0	0	0	0	0	0	0	0	0	1	3	3	7	1	5	3	10	7	6	6	7	11
(115) Neoplasm of uncertain or unknown behavior of unspecified sites	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
III. Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	0	0	0	0	0	0	0	0	1	2	5	1	3	1	4	2	1	3	5	3	6	8
Anemias	0	0	0	0	0	0	0	0	1	0	1	0	0	1	2	1	1	1	3	1	4	5
(117) Hemolytic anemias	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
(118) Aplastic anemias	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
(119) Acute posthemorrhagic and other anemias	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	1	0	0	3	1	4	4
(120) Coagulation defects, purpura and other hemorrhagic conditions	0	0	0	0	0	0	0	0	0	2	0	1	2	0	1	1	0	0	2	1	2	1
(121) Other diseases of blood and blood forming organs	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	0	1
(122) Certain disorders involving the immune mechanism	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2	0	1	0	1
IV. Endocrine, nutritional and metabolic diseases	0	3	4	2	6	4	6	6	20	9	25	18	35	10	26	23	23	28	35	39	56	72
Endocrine diseases	0	2	4	0	6	3	4	6	12	7	14	12	28	9	18	16	21	17	29	24	36	32
(123) Disorders of thyroid gland	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	3	0	3
(124) Diabetes mellitus	0	2	4	0	6	3	4	6	12	7	12	12	28	9	17	15	20	17	29	19	36	28
(125) Disorders of pituitary gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
(126) Disorders of adrenal glands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
(128) Other endocrine diseases	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1
Nutritional diseases	0	1	0	1	0	0	1	0	4	2	10	2	2	0	2	3	1	5	2	10	10	29
Malnutrition	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0	1	2	1	10	10	28
(130) Other and unspecified malnutrition	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0	1	2	1	10	10	28
(132) Obesity and other hyperalimentation	0	1	0	1	0	0	1	0	3	2	8	2	2	0	1	3	0	3	1	0	0	1
Metabolic disorders	0	0	0	1	0	1	1	0	4	0	1	4	5	1	6	4	1	6	4	5	10	11
(134) Volume depletion, disorders of fluid, electrolyte and acid-base balance	0	0	0	0	0	1	1	0	2	0	0	3	0	0	2	1	0	3	1	1	1	4
(135) Other metabolic disorders	0	0	0	1	0	0	0	0	2	0	1	1	5	1	4	3	1	3	3	4	9	7
V. Mental and behavioral disorders	5	0	1	1	6	5	12	2	18	4	15	6	17	7	16	16	40	32	58	125	316	
(136) Organic dementia	0	0	0	0	0	0	0	0	0	0	3	2	4	4	7	15	16	36	32	57	120	311
(137) Other and unspecified organic mental disorders	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Mental and behavioral disorders due to psychoactive substance use	5	0	1	1	6	5	12	2	18	4	11	4	12	2	9	0	0	2	0	1	4	0
(138) Mental and behavioral disorders due to use of alcohol	4	0	1	1	5	5	10	0	17	3	11	4	10	1	8	0	0	2	0	0	4	0
(139) Mental and behavioral disorders due to other psychoactive substance use	1	0	0	0	1	0	2	2	1	1	0	0	2	1	1	0	0	0	1	0	0	0
(140) Schizophrenia, schizotypal and delusional disorders	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0
(141) Mood (affective) disorders	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1
(144) Other and unspecified mental and behavioral disorders	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
VI. Diseases of the nervous system	3	1	3	2	4	1	4	2	15	2	10	14	11	14	18	21	40	32	58	67	92	160
(145) Meningitis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
(146) Other inflammatory diseases of central nervous system	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0
(147) Parkinson 's disease	0	0	0	0	0	0	0	0	0	0	1	0	1	3	4	4	14	4	24	10	24	11
(148) Alzheimer 's disease	0	0	0	0	0	0	0	0	0	1	0	0	3	2	2	3	7	15	25	41	54	132
(149) Multiple sclerosis	0	0	0	0	0	0	0	0	3	0	1	6	0	0	3	2	1	3	0	1	0	0
(150) Epilepsy	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause Of Death*	Age In Years																					
	35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
(151) Transient cerebral ischemic attacks and related syndromes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
(152) Infantile cerebral palsy	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
(153) All other diseases of nervous system	2	1	3	1	4	0	3	2	12	1	8	7	7	8	10	18	8	8	14	13	15	
(154) VII. Diseases of the eye and adnexa	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
IX. Diseases of the circulatory system	9	4	15	7	25	13	34	24	80	40	128	60	163	83	174	106	184	128	225	183	477	685
Acute rheumatic fever and chronic rheumatic heart diseases	0	0	0	0	0	0	0	0	0	1	0	0	2	0	3	1	0	2	3	5	5	
Chronic rheumatic heart diseases	0	0	0	0	0	0	0	0	0	1	0	0	2	0	3	1	0	2	3	5	5	
(157) Rheumatic mitral valve diseases	0	0	0	0	0	0	0	0	0	1	0	0	2	0	1	1	0	1	1	1	2	
(158) Rheumatic aortic valve diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
(159) Disorders of both mitral and aortic valves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	
(160) Other chronic rheumatic heart diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	2	2	
Hypertensive diseases	3	0	4	0	6	1	2	1	10	6	13	3	16	9	10	11	6	6	11	24	67	
(161) Essential (primary) hypertension	0	0	1	0	3	0	0	0	2	0	3	1	3	3	1	2	2	3	3	9	27	
(162) Hypertensive heart disease	3	0	3	0	2	1	2	0	7	5	9	2	12	3	7	5	7	2	5	9	23	
(163) Hypertensive renal disease and secondary hypertension	0	0	0	0	1	0	0	1	0	1	0	0	0	1	3	2	1	1	3	3	11	
(164) Hypertensive heart and renal disease	0	0	0	0	0	0	0	0	1	0	1	0	1	3	1	0	0	0	0	3	6	
Ischemic heart diseases	2	2	3	3	14	7	25	10	49	14	78	33	83	40	102	48	95	51	102	47	200	178
(165) Acute myocardial infarction	1	0	1	0	0	2	6	2	4	4	24	7	15	8	19	11	19	11	14	11	27	44
(166) Other acute ischemic heart diseases	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	1	1	0	2	3	3
Other forms of chronic ischemic heart disease	1	2	2	3	13	5	19	8	45	10	53	26	68	32	82	36	75	39	88	34	170	131
(167) Atherosclerotic cardiovascular disease, so described	1	2	2	2	12	5	15	5	36	7	37	23	50	26	52	20	42	18	36	15	56	49
(168) All other forms of chronic ischemic heart disease	0	0	0	1	1	0	4	3	9	3	16	3	18	6	30	16	33	21	52	19	114	82
Other heart diseases	1	2	4	1	4	2	3	6	12	10	17	9	41	16	26	26	38	40	70	63	156	266
Pulmonary heart disease and diseases of pulmonary circulation	0	1	1	0	0	1	0	1	0	2	2	1	8	5	3	6	5	5	6	6	4	12
(169) Pulmonary embolism	0	1	1	0	0	1	0	0	0	2	2	1	2	2	0	4	0	2	4	2	1	3
(170) Other pulmonary heart disease and diseases of pulmonary circulation	0	0	0	0	0	0	0	1	0	0	0	0	6	3	3	2	5	3	2	4	3	9
Other non-pulmonary forms of heart disease	1	1	3	1	4	1	3	5	12	8	15	8	33	11	23	20	33	35	64	57	152	254
(171) Acute and subacute endocarditis	0	0	0	0	1	1	0	1	0	1	0	0	1	0	2	0	1	1	0	0	0	0
(172) Diseases of pericardium and acute myocarditis	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
Other diseases of endocardium	0	0	0	0	1	0	0	0	3	1	0	1	2	2	3	6	3	9	9	12	32	33
(173) Nonrheumatic mitral valve disorders	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1	1	2	3	1	1	1
(174) Nonrheumatic aortic valve disorders	0	0	0	0	0	0	0	0	1	0	0	0	2	1	2	2	7	3	6	24	23	
(175) All other diseases of endocardium	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1	4	0	1	4	3	7	9
(176) Cardiomyopathy	1	1	2	1	1	0	1	0	2	0	1	1	5	4	3	0	2	5	6	4	8	5
(177) Conduction disorders and cardiac dysrhythmias	0	0	1	0	0	0	1	4	3	2	3	1	10	1	6	2	8	9	11	12	23	76
Heart failure	0	0	0	0	0	0	1	0	2	3	8	5	13	4	7	11	19	9	34	22	82	130
(178) Congestive heart failure	0	0	0	0	0	0	1	0	2	3	6	5	10	4	5	8	14	9	25	19	64	106
(179) Other and unspecified heart failure	0	0	0	0	0	0	0	0	0	0	2	0	3	0	2	3	5	0	9	3	18	24
(181) All other and ill-defined forms of heart disease	0	0	0	0	1	0	0	0	2	1	3	0	1	0	2	1	2	2	7	7	10	
Cerebrovascular diseases	2	0	4	2	0	3	2	6	6	8	12	13	9	12	27	14	31	28	34	45	80	148
(182) Subarachnoid hemorrhage	1	0	1	1	0	1	0	0	0	0	2	5	0	1	2	1	1	0	1	1	0	1
(183) Intracerebral and other intracranial hemorrhage	1	0	1	0	0	0	0	2	2	2	1	3	2	5	10	4	9	9	8	6	12	14
(184) Cerebral infarction	0	0	0	1	0	1	0	2	0	4	2	2	0	0	2	1	3	1	3	4	7	11
(185) Stroke, not specified as hemorrhage or infarction	0	0	1	0	0	0	1	1	3	2	6	3	6	3	5	6	13	13	13	20	44	80
(186) Other cerebrovascular diseases and their sequelae	0	0	1	0	0	1	1	1	1	0	1	0	1	3	8	2	5	5	9	14	17	42
Diseases of arteries, arterioles and capillaries	1	0	0	1	1	0	2	0	2	1	7	1	14	3	7	5	8	3	10	12	11	21

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause Of Death*	Age In Years																						
	35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+		
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
(187) Atherosclerosis	0	0	0	0	0	0	0	0	0	0	0	1	0	5	1	1	2	3	1	4	0	2	5
(188) Aortic aneurysm and dissection	1	0	0	0	1	0	1	0	1	1	3	0	4	0	3	2	1	0	4	7	2	7	
(189) Other diseases of arteries, arterioles and capillaries	0	0	0	1	0	0	1	0	1	0	3	1	5	2	3	1	4	2	2	5	7	9	
Other disorders of circulatory system	0	0	0	0	0	0	0	1	1	1	0	1	0	1	2	0	0	0	1	2	1	0	
(190) Phlebitis, thrombophlebitis, venous embolism and thrombosis	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0	0	1	1	1	0	
(191) All other and unspecified disorders of circulatory system	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	1	0	0	
X. Diseases of the respiratory system	2	3	1	2	3	4	7	13	15	31	34	34	53	47	75	75	96	88	93	89	167	223	
Acute upper respiratory infections	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
(192) Acute pharyngitis and tonsillitis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(194) Other and unspecified acute upper respiratory infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Other diseases of the respiratory system	2	2	1	2	3	4	7	13	15	31	34	34	53	47	75	75	96	88	93	88	167	223	
(195) Influenza	1	0	0	0	0	0	0	0	0	3	0	2	2	3	0	2	1	0	6	1	9	23	
Pneumonia	0	0	1	1	1	2	1	0	1	0	3	2	5	3	6	7	9	8	12	8	24	38	
(196) Viral pneumonia, not elsewhere classified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
(197) Bacterial pneumonia	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	2	0	1	0	
(198) Pneumonia due to other or unspecified organisms	0	0	1	1	1	2	1	0	1	0	3	2	4	2	5	7	9	7	10	7	22	37	
(201) Other diseases of upper respiratory tract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Chronic lower respiratory diseases	0	1	0	0	2	0	5	10	11	24	26	26	34	35	51	60	69	69	49	65	96	116	
Bronchitis, chronic and unspecified, emphysema and asthma	0	1	0	0	2	0	5	10	11	24	26	26	34	34	51	59	69	69	49	65	96	114	
(202) Bronchitis, not specified as acute or chronic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
(203) Chronic bronchitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
(204) Emphysema	0	0	0	0	0	0	0	0	1	2	2	2	2	2	6	5	3	3	8	4	5	4	
(205) Other chronic obstructive pulmonary disease	0	0	0	0	1	0	5	10	10	22	24	24	31	31	45	53	65	65	41	60	89	108	
(206) Asthma	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	1	1	1	0	1	0	1	
(207) Bronchiectasis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	
Lung diseases due to external agents	0	0	0	0	0	1	0	0	2	1	0	0	3	0	6	3	6	3	13	6	17	16	
(208) Pneumoconioses and chemical effects	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	3	1	2	0	
Pneumonitis due to solids and liquids	0	0	0	0	0	1	0	0	2	1	0	0	2	0	6	3	5	3	10	5	15	16	
(209) Pneumonitis due to food and vomit	0	0	0	0	0	1	0	0	2	1	0	0	2	0	6	3	5	3	10	5	15	16	
(212) Suppurative and necrotic conditions of lower respiratory tract	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	
(213) Pleural effusion and plaque	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
(214) All other diseases of respiratory system	1	1	0	1	0	1	0	3	1	3	5	4	9	5	11	3	11	8	12	8	21	28	
XI. Diseases of the digestive system	8	8	11	7	12	9	22	20	32	15	29	19	27	20	22	18	23	19	21	24	38	67	
(215) Diseases of oral cavity, salivary glands and jaws	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Diseases of other parts of digestive system	8	8	11	7	12	9	22	20	32	15	29	19	27	20	22	18	23	19	21	24	38	65	
(216) Diseases of esophagus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	5	
Peptic ulcer	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	1	1	1	1	0	0	4	
(217) Gastric ulcer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
(218) Duodenal ulcer	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	1	0	0	0	2	
(219) Peptic ulcer, site unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	
(221) Gastritis and duodenitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
(222) Dyspepsia and other diseases of stomach and duodenum	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	1	
(223) Diseases of appendix	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Montana Residents, 2017

Cause Of Death*	Age In Years																						
	35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+		
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
(224) Hernia	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	1	3
(225) Crohn 's disease and ulcerative colitis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	1
(226) Vascular disorders and obstruction of intestine without hernia	0	0	0	0	0	1	1	4	2	0	3	3	1	3	2	2	4	6	5	8	4	16	
(227) Diverticular disease of intestine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	1	5	2	
(228) Other diseases of intestines and peritoneum	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	2	4	2	0	2	1	5	
(229) Diseases of peritoneum	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Diseases of liver	7	6	9	6	12	6	19	15	28	11	22	13	24	7	14	11	6	3	7	6	2	4	
(230) Alcoholic liver disease	4	6	4	4	10	5	17	10	18	5	10	7	16	0	11	3	2	1	3	0	0	0	
(232) Fibrosis and cirrhosis of liver	3	0	3	0	0	0	1	2	5	3	6	4	3	4	1	5	2	0	2	3	2	2	
(233) Other diseases of liver	0	0	2	2	2	1	1	3	5	3	6	2	5	3	2	3	2	2	2	3	0	2	
(234) Cholelithiasis and other disorders of gallbladder	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	1	0	1	0	1	2	8	
Disorders of biliary tract and pancreas	0	1	1	1	0	1	2	0	1	1	1	1	0	4	1	0	1	1	2	1	2	4	
(235) Pancreatitis	0	1	1	0	0	0	2	0	1	0	1	1	0	3	1	0	0	0	1	0	1	2	
(236) Other disorders of biliary tract and pancreas	0	0	0	1	0	1	0	0	0	1	0	0	0	1	0	0	1	1	1	1	1	2	
(237) All other diseases of digestive system	0	1	1	0	0	0	0	0	1	0	2	1	0	1	0	5	3	4	2	12	12		
XII. Diseases of the skin and subcutaneous tissue	1	0	0	0	0	0	2	0	1	2	1	0	1	2	0	1	1	1	0	3	1	8	
(238) Infections of skin and subcutaneous tissue	1	0	0	0	0	0	2	0	1	2	0	0	1	1	0	1	0	0	0	2	1	3	
(239) Other and unspecified diseases of skin and subcutaneous tissue	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	1	0	1	0	5	
XIII. Diseases of the musculoskeletal system and connective tissue	0	0	0	0	1	1	2	1	2	4	0	3	4	3	0	6	5	8	4	5	6	13	
(240) Rheumatoid arthritis and related inflammatory polyarthropathies	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	1	1	2	0	2	1	2	
(241) Systemic lupus erythematosus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
(242) Other arthropathies and related disorders	0	0	0	0	1	1	1	0	1	1	0	2	0	1	0	3	3	4	1	1	3	3	
(243) Dorsopathies	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	1	0	1	0	2	
(244) Soft tissue disorders	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	1	0	1	0	0	0	
Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue	0	0	0	0	0	0	1	0	1	0	0	0	2	1	0	0	0	1	1	2	1	6	
(245) Osteoporosis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	4	
(246) Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	1	2	0	2	
XIV. Diseases of the genitourinary system	0	0	0	0	1	1	1	1	7	1	4	4	10	7	12	10	14	12	17	11	34	44	
Diseases of urinary system	0	0	0	0	1	1	1	1	6	1	3	4	9	7	11	10	14	12	17	11	31	41	
Glomerular and renal tubulo-interstitial diseases	0	0	0	0	0	1	0	0	1	0	1	1	0	0	1	1	1	0	1	3	1	1	
Glomerular diseases	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	
(247) Acute and rapidly progressive nephritic syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
(248) Nephrotic syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(249) Other and unspecified glomerular diseases	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
(250) Renal tubulo-interstitial diseases	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	1	1	1	0	0	3	0	
(251) Renal failure	0	0	0	0	1	0	1	0	5	0	2	2	7	5	8	5	9	11	16	4	23	25	
(254) Urinary tract infection, site not specified	0	0	0	0	0	0	0	1	0	0	0	1	1	1	2	2	2	0	0	5	5	11	
(255) Other diseases of urinary system	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	2	2	0	1	1	0	4	
Diseases of male genital organs	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	3	0	
(256) Hyperplasia of prostate	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	0	
(257) Other diseases of male genital organs	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	
(258) Disorders of breast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	

* Line numbers shown in parentheses on this table correspond to those in the [NCHS Instruction Manual Part 9](#).

Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause Of Death*	Age In Years																					
	35 39		40 44		45 49		50 54		55 59		60 64		65 69		70 74		75 79		80 84		85+	
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
Disorders of female genital organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(260) Noninflammatory disorders of female genital tract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
XV. Pregnancy, childbirth and the puerperium	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other direct obstetric deaths	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(270) All other direct obstetric causes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(272) Other deaths related to pregnancy, childbirth and the puerperium	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(273) Indirect obstetric deaths	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XVI. Certain conditions originating in the perinatal period	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(274) Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(277) Intrauterine hypoxia and birth asphyxia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(279) Other respiratory conditions originating in the perinatal period	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(280) Infections specific to the perinatal period	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(281) Other and unspecified conditions originating in the perinatal period	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XVII. Congenital malformations, deformations and chromosomal abnormalities	0	0	0	0	0	0	0	0	3	1	2	5	5	0	1	0	1	1	1	1	0	2
(282) Anencephaly and similar malformations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(284) All other congenital malformations of nervous system	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
(285) Congenital malformations of heart	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0
(286) Other congenital malformations of circulatory system	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
(288) Other congenital malformations and deformations	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2
(289) Down 's syndrome	0	0	0	0	0	0	0	0	2	0	0	4	3	0	0	0	0	0	0	1	0	0
(290) All other chromosomal abnormalities, not elsewhere classified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
XVIII. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1	0	4	1	0	1	0	1	4	0	1	2	2	3	0	0	4	3	4	3	15	55
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	6	26
Ill-defined and unknown causes of mortality	1	0	2	0	0	0	0	1	3	0	1	1	2	3	0	0	1	0	0	0	2	6
(293) Other ill-defined and unknown causes of mortality	1	0	2	0	0	0	0	1	3	0	1	1	2	3	0	0	1	0	0	0	2	6
(294)All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	0	0	2	1	0	1	0	0	1	0	0	1	0	0	0	0	3	3	3	2	7	23
XX. External causes of mortality	41	16	52	20	37	15	31	21	48	22	56	13	36	21	26	10	31	17	24	9	69	83
Accidents (unintentional injuries)	25	11	22	12	19	10	9	11	25	13	33	6	24	13	13	8	18	17	14	9	53	77
Transport accidents	12	6	7	2	9	4	2	3	8	6	15	3	7	3	4	1	7	5	1	1	2	2
(295) Railway accidents	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Motor vehicle accidents	12	6	7	2	8	4	2	3	7	5	14	3	6	2	3	1	6	4	1	1	2	2
(296) Pedestrian involved in collision with motor vehicle	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
(297) Pedalcyclist involved in collision with motor vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
(298) Motorcyclist involved in any accident except collision with railway train	2	1	1	0	1	0	0	0	2	0	3	0	3	0	1	0	0	0	0	0	0	0
	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* Line numbers shown in parentheses on this table correspond to those in the [NCHS Instruction Manual Part 9](#).

Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause Of Death*	Age In Years																					
	35 39		40 44		45 49		50 54		55 59		60 64		65 69		70 74		75 79		80 84		85+	
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
(302) Occupant of car, pickup truck or van involved in collision with other motor vehicle	0	2	0	1	0	0	0	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0
(304) Occupant of motor vehicle involved in noncollision accident	1	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0	1	0	0	1	0	0
(305) Occupant of special-use motor vehicle involved in any accident	0	0	0	0	1	0	0	0	0	0	1	0	3	0	0	0	2	0	0	0	1	0
(306) Other and unspecified motor vehicle accidents	9	2	5	1	6	4	1	1	5	2	7	3	0	2	1	1	4	2	1	1	0	2
(308) Other and unspecified land transport accidents	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	1	0	0	0	0
(311) Other and unspecified transport accidents and their sequelae	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Falls	1	1	3	1	3	0	3	3	5	1	2	0	5	4	4	4	8	6	11	6	41	61
(312) Fall on same level	0	0	2	0	1	0	2	1	2	0	0	0	0	2	3	2	3	0	5	4	23	29
(313) Fall from one level to another	1	1	1	1	1	0	0	2	2	0	1	0	4	1	0	0	2	2	1	1	2	1
(314) Unspecified fall	0	0	0	0	1	0	1	0	1	1	1	0	1	1	1	2	3	4	5	1	16	31
(315) Accidental discharge of firearms	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(317) Accidental drowning and submersion	1	1	0	1	0	0	0	0	2	1	0	0	0	1	0	0	0	1	0	0	0	0
(318) Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract	0	0	0	1	1	0	0	0	4	0	1	0	0	0	0	0	1	0	1	1	6	3
(319) Other accidental and unspecified threats to breathing	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
(322) Accidental exposure to smoke, fire and flames	0	0	0	0	0	0	0	0	0	1	1	0	2	1	1	1	0	0	0	0	0	0
(325) Earthquake, volcanic eruption, avalanche landslide and other earth movements	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(326) Cataclysmic storm and flood	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Accidental poisoning and exposure to noxious substances	10	3	11	3	4	6	4	3	4	4	10	2	5	2	0	0	1	2	0	0	0	1
(327) Accidental poisoning by and exposure to drugs and other biological substances	9	3	7	3	4	6	2	3	4	4	9	2	2	2	0	0	1	2	0	0	0	1
(328) Accidental poisoning by and exposure to other and unspecified solid or liquid substances	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
(329) Accidental poisoning by and exposure to other gases and vapors	1	0	3	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
(330) All other and unspecified accidents and their sequelae	0	0	1	2	2	0	0	2	1	0	4	1	5	2	4	2	1	3	1	1	4	10
Intentional self-harm (suicide)	13	5	23	5	16	4	19	6	20	9	19	5	11	4	11	2	12	0	8	0	14	2
(331) Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances	1	2	1	2	3	0	0	0	0	2	0	1	0	2	0	0	0	0	0	0	0	1
(333) Intentional self-poisoning (suicide) by and exposure to other gases and vapors	1	0	1	0	0	0	0	0	2	0	1	0	1	0	2	0	0	0	0	0	0	0
(334) Intentional self-harm (suicide) by hanging, strangulation and suffocation	4	0	3	0	4	1	4	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0
(335) Intentional self-harm (suicide) by discharge of firearms	6	3	18	2	9	3	14	6	16	4	16	4	9	0	9	2	12	0	8	0	14	0
(336) Intentional self-harm (suicide) by jumping from a high place	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(337) Intentional self-harm (suicide) by all other and unspecified means and their sequelae	1	0	0	1	0	0	1	0	0	1	1	0	1	2	0	0	0	0	0	0	0	0
Assault (homicide)	0	0	4	2	1	1	1	2	1	0	0	1	1	2	1	0	0	0	1	0	0	0
(339) Assault (homicide) by hanging, strangulation and suffocation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(340) Assault (homicide) by discharge of firearms	0	0	2	2	0	1	1	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0
(341) Assault (homicide) by sharp object	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0
(342) Assault (homicide) by blunt object	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* Line numbers shown in parentheses on this table correspond to those in the [NCHS Instruction Manual Part 9](#).

Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2017

Cause Of Death*	Age In Years																					
	35 39		40 44		45 49		50 54		55 59		60 64		65 69		70 74		75 79		80 84		85+	
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
(343) Assault (homicide) by bodily force	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(345) Neglect, abandonment and other maltreatment syndromes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(346) Assault (homicide) by all other and unspecified means and their sequelae	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Event of undetermined intent	2	0	3	1	1	0	1	2	1	0	1	1	0	0	1	0	0	0	0	0	0	0
(347) Poisoning by and exposure to drugs and biological substances, undetermined intent	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
(349) Poisoning by and exposure to other gases and vapors, undetermined intent	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(350) Discharge of firearms, undetermined intent	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
(352) All other and unspecified events of undetermined intent and their sequelae	0	0	3	1	1	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
Legal intervention	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(354) Other legal intervention and their sequelae	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Complications of medical and surgical care	0	0	0	0	0	0	0	0	1	0	3	0	0	2	0	0	1	0	1	0	2	4
(356) Drugs, medicaments and biological substances causing adverse effects in therapeutic use, and their sequelae	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	1	0	3	0	0	1	0	0	1	0	1	0	2	4

* Line numbers shown in parentheses on this table correspond to those in the [NCHS Instruction Manual Part 9](#).

Table D-2

Frequency of Death by Sex, Race* and 113 Selected Underlying Causes and Enterocolitis due to Clostridium Difficile**
Montana Residents, 2017

Cause of Death**	Total***				MALE				FEMALE			
	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other
All Causes	10,203	9,449	691	63	5,298	4,906	367	25	4,905	4,543	324	38
(1#) Salmonella infections	1	0	1	0	0	0	0	0	1	0	1	0
(3) Certain other intestinal infections	29	26	3	0	11	9	2	0	18	17	1	0
(#) Tuberculosis	3	2	1	0	0	0	0	0	3	2	1	0
(4) Respiratory tuberculosis	1	1	0	0	0	0	0	0	1	1	0	0
(5) Other tuberculosis	2	1	1	0	0	0	0	0	2	1	1	0
(9#) Septicemia	111	96	14	1	52	46	6	0	59	50	8	1
(14#) Viral hepatitis	20	16	3	1	15	12	2	1	5	4	1	0
(15#) Human immunodeficiency virus (HIV) disease	3	1	2	0	3	1	2	0	0	0	0	0
(17) Other and unspecified infectious and parasitic diseases and their sequelae	38	33	5	0	18	14	4	0	20	19	1	0
(#) Malignant neoplasms	2,142	2,039	98	5	1,167	1,116	51	0	975	923	47	5
(18) Malignant neoplasms of lip, oral cavity and pharynx	44	41	2	1	29	29	0	0	15	12	2	1
(19) Malignant neoplasm of esophagus	79	77	2	0	66	65	1	0	13	12	1	0
(20) Malignant neoplasm of stomach	26	25	1	0	18	18	0	0	8	7	1	0
(21) Malignant neoplasms of colon, rectum and anus	177	164	13	0	99	88	11	0	78	76	2	0
(22) Malignant neoplasms of liver and intrahepatic bile ducts	81	77	4	0	59	56	3	0	22	21	1	0
(23) Malignant neoplasm of pancreas	153	146	7	0	77	72	5	0	76	74	2	0
(24) Malignant neoplasm of larynx	11	11	0	0	9	9	0	0	2	2	0	0
(25) Malignant neoplasms of trachea, bronchus and lung	466	436	27	3	221	209	12	0	245	227	15	3
(26) Malignant melanoma of skin	34	34	0	0	22	22	0	0	12	12	0	0
(27) Malignant neoplasm of breast	132	125	7	0	2	1	1	0	130	124	6	0
(28) Malignant neoplasm of cervix uteri	11	11	0	0	0	0	0	0	11	11	0	0
(29) Malignant neoplasms of corpus uteri and uterus, part unspecified	31	30	0	1	0	0	0	0	31	30	0	1
(30) Malignant neoplasm of ovary	45	43	2	0	0	0	0	0	45	43	2	0
(31) Malignant neoplasm of prostate	160	156	4	0	160	156	4	0	0	0	0	0
(32) Malignant neoplasms of kidney and renal pelvis	49	47	2	0	34	32	2	0	15	15	0	0
(33) Malignant neoplasm of bladder	71	70	1	0	57	56	1	0	14	14	0	0
(34) Malignant neoplasms of meninges, brain and other parts of central nervous system	64	62	2	0	35	35	0	0	29	27	2	0
Malignant neoplasms of lymphoid, hematopoietic and related tissue	209	202	7	0	119	117	2	0	90	85	5	0
(35) Hodgkin's disease	3	3	0	0	3	3	0	0	0	0	0	0
(36) Non-Hodgkin's lymphoma	85	83	2	0	51	51	0	0	34	32	2	0
(37) Leukemia	75	72	3	0	42	40	2	0	33	32	1	0
(38) Multiple myeloma and immunoproliferative neoplasms	46	44	2	0	23	23	0	0	23	21	2	0
(40) All other and unspecified malignant neoplasms	299	282	17	0	160	151	9	0	139	131	8	0
(41#) In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	79	75	3	1	41	39	2	0	38	36	1	1
(42#) Anemias	21	20	1	0	12	11	1	0	9	9	0	0
(43#) Diabetes mellitus	290	242	45	3	171	146	24	1	119	96	21	2
(#) Nutritional deficiencies	56	53	2	1	16	14	2	0	40	39	0	1
(44) Malnutrition	56	53	2	1	16	14	2	0	40	39	0	1
(46#) Meningitis	1	1	0	0	0	0	0	0	1	1	0	0
(47#) Parkinson's disease	100	97	3	0	68	66	2	0	32	31	1	0
(48#) Alzheimer's disease	285	277	6	2	91	87	3	1	194	190	3	1
Major cardiovascular diseases	2,855	2,705	132	18	1,521	1,440	73	8	1,334	1,265	59	10
(#) Diseases of heart	2,162	2,042	105	15	1,215	1,143	65	7	947	899	40	8
(49) Acute rheumatic fever and chronic rheumatic heart diseases	22	21	1	0	9	9	0	0	13	12	1	0
(50) Hypertensive heart disease	111	102	6	3	65	58	5	2	46	44	1	1

* Any racial category may include "Hispanic"; "Other" also includes race not stated.

** Line numbers shown in parentheses on this table correspond to those in the [NCHS Instruction Manual Part 9](#). Those marked with a "#" sign are rankable as leading causes.

^ American Indian or Alaska Native

Table D-2
Frequency of Death by Sex, Race* and 113 Selected Underlying Causes and Enterocolitis due to Clostridium Difficile**
Montana Residents, 2017

Cause of Death**	Total***				MALE				FEMALE			
	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other
(51) Hypertensive heart and renal disease	16	15	1	0	7	6	1	0	9	9	0	0
Ischemic heart diseases	1,191	1,120	64	7	757	709	44	4	434	411	20	3
(52) Acute myocardial infarction	232	217	13	2	132	127	5	0	100	90	8	2
(53) Other acute ischemic heart diseases	14	14	0	0	7	7	0	0	7	7	0	0
Other forms of chronic ischemic heart disease	945	889	51	5	618	575	39	4	327	314	12	1
(54) Atherosclerotic cardiovascular disease, so described	514	480	30	4	341	316	22	3	173	164	8	1
(55) All other forms of chronic ischemic heart disease	431	409	21	1	277	259	17	1	154	150	4	0
Other heart diseases	822	784	33	5	377	361	15	1	445	423	18	4
(56) Acute and subacute endocarditis	9	7	2	0	5	4	1	0	4	3	1	0
(57) Diseases of pericardium and acute myocarditis	2	2	0	0	2	2	0	0	0	0	0	0
(58) Heart failure	351	337	12	2	167	161	6	0	184	176	6	2
(59) All other forms of heart disease	460	438	19	3	203	194	8	1	257	244	11	2
(60#) Essential hypertension and hypertensive renal disease	94	89	5	0	35	33	2	0	59	56	3	0
(61#) Cerebrovascular diseases	487	468	16	3	207	201	5	1	280	267	11	2
(62#) Atherosclerosis	25	25	0	0	16	16	0	0	9	9	0	0
Other diseases of circulatory system	87	81	6	0	48	47	1	0	39	34	5	0
(63#) Aortic aneurysm and dissection	39	37	2	0	22	22	0	0	17	15	2	0
(64) Other diseases of arteries, arterioles and capillaries	48	44	4	0	26	25	1	0	22	19	3	0
(65) Other disorders of circulatory system	13	11	2	0	6	5	1	0	7	6	1	0
(#) Influenza and pneumonia	186	173	10	3	83	76	6	1	103	97	4	2
(66) Influenza	54	52	0	2	20	19	0	1	34	33	0	1
(67) Pneumonia	132	121	10	1	63	57	6	0	69	64	4	1
(#) Chronic lower respiratory diseases	752	708	42	2	344	326	17	1	408	382	25	1
(70) Bronchitis, chronic and unspecified	3	3	0	0	2	2	0	0	1	1	0	0
(71) Emphysema	49	48	1	0	27	26	1	0	22	22	0	0
(72) Asthma	12	12	0	0	4	4	0	0	8	8	0	0
(73) Other chronic lower respiratory diseases	688	645	41	2	311	294	16	1	377	351	25	1
(74#) Pneumoconioses and chemical effects	8	8	0	0	7	7	0	0	1	1	0	0
(75#) Pneumonitis due to solids and liquids	69	64	5	0	40	36	4	0	29	28	1	0
(76) Other diseases of respiratory system	145	136	9	0	74	71	3	0	71	65	6	0
(77#) Peptic ulcer	12	12	0	0	3	3	0	0	9	9	0	0
(78#) Diseases of appendix	1	1	0	0	1	1	0	0	0	0	0	0
(79#) Hernia	9	9	0	0	3	3	0	0	6	6	0	0
(#) Chronic liver disease and cirrhosis	196	139	56	1	127	95	32	0	69	44	24	1
(80) Alcoholic liver disease	145	102	43	0	99	73	26	0	46	29	17	0
(81) Other chronic liver disease and cirrhosis	51	37	13	1	28	22	6	0	23	15	7	1
(82#) Cholelithiasis and other disorders of gallbladder	21	19	2	0	11	10	1	0	10	9	1	0
(#) Nephritis, nephrotic syndrome and nephrosis	128	113	14	1	72	66	6	0	56	47	8	1
(83) Acute and rapidly progressive nephritic and nephrotic syndrome	2	2	0	0	0	0	0	0	2	2	0	0
(84) Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified	1	0	0	1	0	0	0	0	1	0	0	1
(85) Renal failure	125	111	14	0	72	66	6	0	53	45	8	0
(87#) Infections of kidney	4	4	0	0	2	2	0	0	2	2	0	0
(88#) Hyperplasia of prostate	4	4	0	0	4	4	0	0	0	0	0	0
(#) Pregnancy, childbirth and the puerperium	4	3	0	1	0	0	0	0	4	3	0	1
(91) Other complications of pregnancy childbirth and the puerperium	4	3	0	1	0	0	0	0	4	3	0	1

* Any racial category may include "Hispanic"; "Other" also includes race not stated.

** Line numbers shown in parentheses on this table correspond to those in the [NCHS Instruction Manual Part 9](#). Those marked with a "#" sign are rankable as leading causes.

^ American Indian or Alaska Native

Table D-2

Frequency of Death by Sex, Race* and 113 Selected Underlying Causes and Enterocolitis due to Clostridium Difficile**
Montana Residents, 2017

Cause of Death**	Total***				MALE				FEMALE			
	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other
(92#) Certain conditions originating in the perinatal period	21	13	7	1	10	6	3	1	11	7	4	0
(93#) Congenital malformations deformations and chromosomal abnormalities	44	39	5	0	26	24	2	0	18	15	3	0
(94) Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	121	111	8	2	50	44	5	1	71	67	3	1
(95) All other diseases (Residual)	1,460	1,343	106	11	608	557	46	5	852	786	60	6
(#) Accidents (unintentional injuries)	578	517	57	4	345	311	32	2	233	206	25	2
Transport accidents	191	161	29	1	124	106	18	0	67	55	11	1
(96) Motor vehicle accidents	180	151	28	1	117	100	17	0	63	51	11	1
(97) Other land transport accidents	8	7	1	0	4	3	1	0	4	4	0	0
(98) Water, air and space, and other and unspecified transport accidents and their sequelae	3	3	0	0	3	3	0	0	0	0	0	0
Nontransport accidents	387	356	28	3	221	205	14	2	166	151	14	1
(99) Falls	177	170	6	1	90	86	3	1	87	84	3	0
(100) Accidental discharge of firearms	2	1	1	0	1	1	0	0	1	0	1	0
(101) Accidental drowning and submersion	12	10	2	0	6	6	0	0	6	4	2	0
(102) Accidental exposure to smoke, fire and flames	8	8	0	0	5	5	0	0	3	3	0	0
(103) Accidental poisoning and exposure to noxious substances	110	96	12	2	75	64	10	1	35	32	2	1
(104) Other and unspecified nontransport accidents and their sequelae	78	71	7	0	44	43	1	0	34	28	6	0
(#) Intentional self-harm (suicide)	312	279	30	3	247	224	21	2	65	55	9	1
(105) Intentional self-harm (suicide) by discharge of firearms	214	203	10	1	180	172	8	0	34	31	2	1
(106) Intentional self-harm (suicide) by other and unspecified means and their sequelae	98	76	20	2	67	52	13	2	31	24	7	0
(#) Assault (homicide)	42	28	13	1	25	16	9	0	17	12	4	1
(107) Assault (homicide) by discharge of firearms	21	17	4	0	13	10	3	0	8	7	1	0
(108) Assault (homicide) by other and unspecified means and their sequelae	21	11	9	1	12	6	6	0	9	5	3	1
(109#) Legal intervention	6	4	2	0	6	4	2	0	0	0	0	0
Events of undetermined intent	18	13	4	1	10	6	3	1	8	7	1	0
(110) Discharge of firearms, undetermined intent	2	2	0	0	1	1	0	0	1	1	0	0
(111) Other and unspecified events of undetermined intent and their sequelae	16	11	4	1	9	5	3	1	7	6	1	0
(113#) Complications of medical and surgical care	15	15	0	0	8	8	0	0	7	7	0	0
(#) Enterocolitis due to Clostridium difficile	18	15	3	0	10	8	2	0	8	7	1	0

* Any racial category may include "Hispanic"; "Other" also includes race not stated.

** Line numbers shown in parentheses on this table correspond to those in the [NCHS Instruction Manual Part 9](#). Those marked with a "#" sign are rankable as leading causes.

^ American Indian or Alaska Native

Table D-3
Frequency and Rate of Death from Selected Underlying Causes by Year
Montana Residents, 1953-2017

Year of Death	Alcoholism		Cancer		Diabetes		Heart Disease		Homicide		Motor Vehicle Accidents		Nephritis		Non-Motor Vehicle Accidents		Pneumonia		Suicide	
	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*
2017	92	8.7	2,142	203.9	290	27.6	2,162	205.8	42	3.9	180	17.1	128	12.1	398	37.8	132	12.5	312	29.7
2016	73	7.0	2,032	195.6	311	29.9	2,134	205.4	41	3.9	198	19.0	154	14.8	424	40.8	122	11.7	267	25.7
2015	56	5.4	2,130	207.1	321	31.2	2,103	204.5	38	3.6	219	21.2	120	11.6	415	40.3	151	14.6	270	26.2
2014	66	6.4	2,054	201.3	250	24.5	1,942	190.4	29	2.8	197	19.3	125	12.2	375	36.7	168	16.4	249	24.4
2013	68	6.7	1,983	195.9	252	24.9	1,975	195.1	32	3.1	220	21.7	131	12.9	375	37.0	172	16.9	238	23.5
2012	54	5.3	1,927	192.0	231	23.0	1,876	186.9	25	2.4	195	19.4	99	9.8	356	35.4	143	14.2	226	22.5
2011	46	4.6	1,992	199.8	246	24.6	1,906	191.1	23	2.3	193	19.3	96	9.6	386	38.7	150	15.0	224	22.4
2010	44	4.4	1,912	193.0	226	22.8	1,842	185.9	29	2.9	192	19.3	134	13.5	353	35.6	168	16.9	227	22.9
2009	49	4.9	1,909	194.0	228	23.1	1,825	185.4	33	3.3	222	22.5	129	13.1	388	39.4	158	16.0	218	22.1
2008	49	5.0	1,854	189.8	254	26.0	1,968	201.5	39	3.9	216	22.1	153	15.6	373	38.2	165	16.8	203	20.7
2007	36	3.7	1,906	197.5	258	26.7	1,860	192.8	23	2.3	267	27.6	109	11.2	336	34.8	175	18.1	192	19.9
2006	63	6.6	1,940	203.6	251	26.3	1,857	194.9	35	3.6	261	27.3	132	13.8	284	29.8	164	17.2	188	19.7
2005	39	4.1	1,947	207.1	283	30.1	1,842	195.9	32	3.4	233	24.7	109	11.5	284	30.2	186	19.7	205	21.8
2004	32	3.4	1,858	199.7	236	25.3	1,834	197.2	25	2.6	235	25.2	107	11.5	292	31.3	161	17.3	173	18.6
2003	39	4.2	1,838	199.8	263	28.5	1,974	214.6	37	4.0	254	27.6	101	10.9	257	27.9	238	25.8	179	19.4
2002	30	3.2	1,902	208.6	212	23.2	1,931	211.8	23	2.5	250	27.4	104	11.4	273	29.9	247	27.0	182	19.9
2001	35	3.8	1,952	215.2	229	25.2	1,962	216.3	31	3.4	209	23.0	127	14.0	259	28.5	191	21.0	174	19.1
2000	29	3.2	1,861	205.9	226	25.0	1,988	219.9	35	3.8	228	25.2	115	12.7	256	28.3	192	21.2	157	17.3
1999	22	2.4	1,845	205.5	243	27.0	2,034	226.6	32	3.5	191	21.2	93	10.3	270	30.0	213	23.7	161	17.9
1998	34	3.8	1,816	203.4	196	21.9	2,001	224.2	26	2.9	219	24.5	90	10.0	244	27.3	311	34.8	156	17.4
1997	18	±	1,779	199.9	169	18.9	2,097	235.6	37	4.1	230	25.8	98	11.0	213	23.9	299	33.6	179	20.1
1996	23	2.5	1,762	198.8	187	21.0	2,131	240.4	37	4.1	191	21.5	81	9.1	205	23.1	238	26.8	174	19.6
1995	21	2.3	1,765	201.3	210	23.9	2,003	228.5	45	5.1	191	21.7	56	6.3	183	20.8	313	35.7	197	22.4
1994	31	3.5	1,740	202.0	215	24.9	1,907	221.4	34	3.9	192	22.2	76	8.8	199	23.1	276	32.0	159	18.4
1993	26	3.0	1,738	205.7	191	22.6	2,110	249.7	39	4.6	182	21.5	59	6.9	193	22.8	249	29.4	154	18.2
1992	29	3.5	1,710	207.0	164	19.8	1,904	230.5	35	4.2	182	22.0	56	6.7	217	26.2	259	31.3	151	18.2
1991	19	±	1,656	204.5	181	22.3	1,944	240.0	36	4.4	183	22.6	51	6.2	201	24.8	245	30.2	167	20.6
1990	21	2.6	1,630	203.6	154	19.2	1,947	243.3	35	4.3	210	26.2	48	5.9	188	23.4	213	26.6	167	20.8
1989	16	±	1,593	197.7	170	21.1	2,019	250.6	32	3.9	171	21.2	47	5.8	189	23.4	224	27.8	159	19.7
1988	22	2.7	1,561	193.9	154	19.1	2,057	255.5	35	4.3	200	24.8	60	7.4	168	20.8	219	27.2	153	19.0
1987	22	2.7	1,516	187.3	116	14.3	2,109	260.6	39	4.8	223	27.5	60	7.4	193	23.8	192	23.7	159	19.6
1986	27	3.2	1,475	180.0	109	13.3	2,196	268.1	41	5.0	228	27.8	40	4.8	175	21.3	205	25.0	181	22.1
1985	20	2.4	1,445	174.9	123	14.8	2,201	266.4	49	5.9	210	25.4	58	7.0	207	25.0	211	25.5	144	17.4
1984	18	±	1,467	178.0	113	13.7	2,270	275.4	37	4.4	233	28.2	57	6.9	207	25.1	204	24.7	137	16.6
1983	16	±	1,350	165.2	103	12.6	2,241	274.2	33	4.0	267	32.6	62	7.5	249	30.4	219	26.8	143	17.5
1982	30	3.7	1,384	172.7	115	14.3	2,236	279.1	36	4.4	236	29.4	57	7.1	235	29.3	196	24.4	126	15.7
1981	32	4.0	1,343	169.3	95	11.9	2,279	287.3	47	5.9	308	38.8	70	8.8	245	30.8	171	21.5	137	17.2
1980	25	3.1	1,291	164.1	103	13.0	2,332	296.4	40	5.0	311	39.5	43	5.4	259	32.9	169	21.4	116	14.7
1979	22	2.7	1,240	157.7	94	11.9	2,302	292.8	39	4.9	313	39.8	46	5.8	283	36.0	143	18.1	123	15.6
1978	23	2.9	1,233	157.0	114	14.5	2,169	276.3	40	5.0	276	35.1	20	2.5	282	35.9	199	25.3	122	15.5
1977	25	3.2	1,184	155.5	89	11.6	2,149	282.3	53	6.9	302	39.6	24	3.1	272	35.7	144	18.9	143	18.7
1976	23	3.0	1,191	158.1	100	13.2	2,178	289.2	38	5.0	291	38.6	17	±	288	38.2	207	27.4	129	17.1
1975	28	3.7	1,105	147.7	122	16.3	2,178	291.1	42	5.6	282	37.7	19	±	302	40.3	185	24.7	112	14.9
1974	14	±	1,130	153.7	103	14.0	2,202	299.5	44	5.9	272	37.0	20	2.7	287	39.0	192	26.1	122	16.5
1973	20	2.7	1,061	147.1	126	17.4	2,300	319.0	46	6.3	324	44.9	27	3.7	287	39.8	236	32.7	108	14.9
1972	17	±	1,122	156.0	135	18.7	2,294	319.0	32	4.4	360	50.0	17	±	275	38.2	220	30.5	87	12.1
1971	19	±	1,051	148.0	120	16.9	2,339	329.4	43	6.0	310	43.6	19	±	299	42.1	210	29.5	117	16.4
1970	25	3.6	1,059	152.5	111	15.9	2,229	320.9	30	4.3	290	41.7	26	3.7	281	40.4	213	30.6	79	11.3
1969	10	±	1,041	150.0	117	16.8	2,297	330.9	31	4.4	329	47.4	21	3.0	306	44.0	201	28.9	91	13.1
1968	29	4.1	1,080	155.8	119	17.1	2,223	320.7	25	3.6	262	37.8	20	2.8	273	39.3	213	30.7	97	13.9
1967	12	±	1,001	142.7	143	20.3	2,297	327.6	31	4.4	318	45.3	38	5.4	289	41.2	196	27.9	100	14.2
1966	24	3.4	969	138.0	106	15.0	2,415	344.0	23	3.2	265	37.7	42	5.9	295	42.0	230	32.7	96	13.6
1965	14	±	933	132.1	114	16.1	2,297	325.3	20	2.8	268	37.9	35	4.9	323	45.7	198	28.0	94	13.3
1964	13	±	986	139.8	139	19.7	2,368	335.8	30	4.2	250	35.4	45	6.3	398	56.4	226	32.0	80	11.3
1963	12	±	896	126.7	125	17.6	2,340	330.9	22	3.1	218	30.8	42	5.9	299	42.2	218	30.8	115	16.2
1962	19	±	911	128.4	121	17.0	2,204	310.8	21	2.9	232	32.7	63	8.8	318	44.8	195	27.5	110	15.5
1961	18	±	965	141.4	117	17.1	2,269	332.6	21	3.0	270	39.5	41	6.0	248	36.3	219	32.1	96	14.0
1960	13	±	958	141.9	102	15.1	2,332	345.6	25	3.7	226	33.4	51	7.5	284	42.0	227	33.6	107	15.8
1959	15	±	920	137.5	123	18.3	2,382	356.0	29	4.3	258	38.5	58	8.6	307	45.8	231	34.5	97	14.4

Dark shaded rows indicate years in which the International Statistical Classification of Diseases and Related Health Problems (ICD) was revised.

Classification of certain causes of death may have varied somewhat because of those coding changes alone.

Details are provided by the World Health Organization.

* Per 100,000 estimated midyear population. U.S. Census enumerations are used for years ending in zero prior to 1990.

± Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table D-3
Frequency and Rate of Death from Selected Underlying Causes by Year
Montana Residents, 1953-2017

Year of Death	Alcoholism		Cancer		Diabetes		Heart Disease		Homicide		Motor Vehicle Accidents		Nephritis		Non Motor Vehicle Accidents		Pneumonia		Suicide	
	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*	Num.	Rate*
1958	18	‡	859	128.9	109	16.3	2,244	336.9	17	‡	206	30.9	53	7.9	291	43.6	260	39.0	101	15.1
1957	20	2.9	877	131.4	118	17.6	2,290	343.3	23	3.4	219	32.8	71	10.6	322	48.2	249	37.3	105	15.7
1956	22	3.3	932	142.0	98	14.9	2,165	330.0	32	4.8	265	40.3	83	12.6	309	47.1	211	32.1	98	14.9
1955	28	4.4	829	130.3	108	16.9	2,116	332.7	21	3.3	239	37.5	94	14.7	310	48.7	155	24.3	79	12.4
1954	19	‡	868	139.1	95	15.2	2,128	341.0	29	4.6	219	35.0	90	14.4	312	50.0	179	28.6	104	16.6
1953	17	‡	809	131.3	73	11.8	2,164	351.2	23	3.7	228	37.0	77	12.5	306	49.6	180	29.2	106	17.2

Dark shaded rows indicate years in which the International Statistical Classification of Diseases and Related Health Problems (ICD) was revised.

Classification of certain causes of death may have varied somewhat because of those coding changes alone.

Details are provided by the World Health Organization.

* Per 100,000 estimated midyear population. U.S. Census enumerations are used for years ending in zero prior to 1990.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table D-4
Frequency and Rate of Death from Selected Communicable Disease by Year*
Montana, 1930-2017

Year of Death	Botulism+		Diphtheria		Influenza		Measles		Meningococcal Infection		Poliomyelitis		Rocky Mountain Spotted Fever		Tuberculosis		Typhoid Fever		Whooping Cough	
	Number	Rate [^]	Number	Rate [^]	Number	Rate [^]	Number	Rate [^]	Number	Rate [^]	Number	Rate [^]	Number	Rate [^]	Number	Rate [^]	Number	Rate [^]	Number	Rate [^]
2017	0	‡	0	‡	54	5.1	0	‡	0	‡	1	‡	0	‡	3	‡	0	‡	0	‡
2016	0	‡	0	‡	22	2.1	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
2015	0	‡	0	‡	32	3.1	0	‡	0	‡	0	‡	0	‡	2	‡	0	‡	0	‡
2014	0	‡	0	‡	10	‡	0	‡	0	‡	2	‡	0	‡	4	‡	0	‡	1	‡
2013	0	‡	0	‡	33	3.2	0	‡	0	‡	0	‡	0	‡	2	‡	0	‡	0	‡
2012	0	‡	0	‡	12	‡	0	‡	0	‡	3	‡	0	‡	1	‡	0	‡	0	‡
2011	0	‡	0	‡	6	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
2010	0	‡	0	‡	0	‡	0	‡	0	‡	2	‡	0	‡	0	‡	0	‡	0	‡
2009	0	‡	0	‡	6	‡	0	‡	0	‡	3	‡	0	‡	0	‡	0	‡	0	‡
2008	0	‡	0	‡	3	‡	0	‡	2	‡	7	‡	0	‡	5	‡	0	‡	0	‡
2007	0	‡	0	‡	5	‡	0	‡	0	‡	2	‡	0	‡	1	‡	0	‡	0	‡
2006	0	‡	0	‡	6	‡	0	‡	0	‡	5	‡	0	‡	1	‡	0	‡	0	‡
2005	0	‡	0	‡	26	2.7	0	‡	0	‡	0	‡	0	‡	3	‡	0	‡	1	‡
2004	0	‡	0	‡	4	‡	0	‡	0	‡	2	‡	0	‡	0	‡	0	‡	0	‡
2003	0	‡	0	‡	18	‡	0	‡	0	‡	2	‡	0	‡	1	‡	0	‡	0	‡
2002	0	‡	0	‡	7	‡	0	‡	0	‡	1	‡	0	‡	0	‡	0	‡	0	‡
2001	0	‡	0	‡	3	‡	0	‡	2	‡	1	‡	0	‡	3	‡	0	‡	0	‡
2000	0	‡	0	‡	10	‡	0	‡	0	‡	1	‡	0	‡	4	‡	0	‡	0	‡
1999	0	‡	0	‡	35	3.8	0	‡	1	‡	0	‡	0	‡	3	‡	0	‡	0	‡
1998	0	‡	0	‡	60	6.7	0	‡	0	‡	1	‡	0	‡	4	‡	0	‡	0	‡
1997	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
1996	0	‡	0	‡	11	‡	0	‡	2	‡	2	‡	0	‡	1	‡	0	‡	1	‡
1995	0	‡	0	‡	6	‡	0	‡	1	‡	2	‡	0	‡	2	‡	0	‡	0	‡
1994	0	‡	0	‡	15	‡	0	‡	1	‡	0	‡	0	‡	6	‡	0	‡	0	‡
1993	0	‡	0	‡	13	‡	0	‡	0	‡	0	‡	0	‡	2	‡	0	‡	0	‡
1992	0	‡	0	‡	7	‡	0	‡	0	‡	1	‡	0	‡	4	‡	0	‡	0	‡
1991	0	‡	0	‡	7	‡	0	‡	0	‡	1	‡	0	‡	4	‡	0	‡	0	‡
1990	0	‡	0	‡	15	‡	0	‡	2	‡	0	‡	0	‡	2	‡	0	‡	0	‡
1989	0	‡	0	‡	19	‡	0	‡	0	‡	2	‡	0	‡	5	‡	0	‡	0	‡
1988	0	‡	0	‡	21	2.6	0	‡	0	‡	1	‡	0	‡	2	‡	0	‡	0	‡
1987	0	‡	0	‡	9	‡	0	‡	0	‡	0	‡	0	‡	4	‡	0	‡	0	‡
1986	0	‡	0	‡	24	2.9	0	‡	0	‡	0	‡	0	‡	5	‡	0	‡	0	‡
1985	0	‡	0	‡	24	2.9	0	‡	3	‡	0	‡	0	‡	5	‡	0	‡	1	‡
1984	0	‡	0	‡	19	‡	0	‡	0	‡	2	‡	0	‡	10	‡	0	‡	0	‡
1983	0	‡	0	‡	26	3.1	0	‡	1	‡	1	‡	0	‡	1	‡	0	‡	0	‡
1982	0	‡	0	‡	8	‡	0	‡	1	‡	0	‡	0	‡	7	‡	0	‡	0	‡
1981	1	‡	0	‡	10	‡	0	‡	1	‡	0	‡	0	‡	7	‡	0	‡	0	‡
1980	0	‡	0	‡	24	3.0	0	‡	0	‡	0	‡	0	‡	6	‡	0	‡	0	‡
1979	0	‡	0	‡	4	‡	0	‡	4	‡	0	‡	0	‡	5	‡	0	‡	0	‡
1978	0	‡	0	‡	19	‡	0	‡	2	‡	1	‡	0	‡	11	‡	0	‡	0	‡
1977	0	‡	0	‡	9	‡	0	‡	2	‡	0	‡	0	‡	4	‡	0	‡	0	‡
1976	0	‡	0	‡	95	12.6	0	‡	0	‡	0	‡	0	‡	9	‡	0	‡	0	‡
1975	0	‡	0	‡	17	‡	0	‡	0	‡	1	‡	1	‡	13	‡	0	‡	0	‡
1974	0	‡	0	‡	11	‡	0	‡	1	‡	1	‡	0	‡	17	‡	0	‡	0	‡
1973	0	‡	0	‡	43	5.9	0	‡	2	‡	0	‡	0	‡	13	‡	0	‡	0	‡
1972	0	‡	0	‡	15	‡	0	‡	2	‡	0	‡	0	‡	11	‡	0	‡	0	‡
1971	0	‡	0	‡	9	‡	2	‡	2	‡	1	‡	0	‡	1	‡	0	‡	1	‡
1965	0	‡	0	‡	5	‡	0	‡	3	‡	0	‡	0	‡	22	3.1	0	‡	0	‡
1960	0	‡	0	‡	37	5.4	1	‡	3	‡	7	‡	1	‡	31	4.5	0	‡	1	‡
1955	0	‡	1	‡	12	‡	4	‡	5	‡	8	‡	0	‡	50	7.8	0	‡	1	‡
1950	0	‡	2	‡	23	3.8	0	‡	1	‡	3	‡	1	‡	114	19.2	0	‡	10	‡
1945	1	‡	4	‡	47	9.3	1	‡	3	‡	10	‡	1	‡	171	33.8	2	‡	2	‡
1940	2	‡	6	‡	77	13.7	5	‡	6	‡	7	‡	7	‡	231	41.2	3	‡	5	‡
1935	3	‡	14	‡	173	31.5	49	8.9	15	‡	1	‡	21	3.8	257	46.8	12	‡	22	4.0
1930	7	‡	4	‡	102	18.9	12	‡	22	4.0	6	‡	9	‡	337	62.6	16	‡	16	‡

Dark shaded rows indicate years in which the International Statistical Classification of Diseases and Related Health Problems (ICD) was revised. Classification of certain causes of death may have varied somewhat because of those coding changes alone. Details are provided by the [World Health Organization](http://www.who.int).

* Data prior to 1946 are by place of occurrence. Beginning in 1946, data are by place of residence.

+ Prior to 1949 the International Classification of Diseases did not permit identification of botulism as such. The more general rubric of "Food Poisoning" was reported. The deaths shown prior to 1968 include those assigned to "Food Poisoning Unspecified".

^ Per 100,000 estimated midyear population. U.S. Census enumerations are used for years ending in zero prior to 1990.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table D-5
Frequency of Death from Selected Cancers by Sex of Decedent and Year of Death
Montana Residents, 1960-2017

Year of Death	All Cancers		Prostate	Breast		Trachea, Lung & Bronchus		Colon, Rectum & Anus		Bladder		Uterus	Hodgkin's & Non-Hodgkin's Lymphoma		Ovary	Pancreas		Cervix	Other Cancers	
	Male	Female	Male	Male	Female	Male	Female	Male	Female	Male	Female	Female	Male	Female	Female	Male	Female	Female	Male	Female
2017	1,167	975	160	2	130	221	245	99	78	57	14	31	54	34	45	77	76	11	497	311
2016	1,107	925	143	2	137	232	245	106	81	35	12	29	54	29	52	89	58	10	446	272
2015	1,146	984	119	1	146	271	268	104	88	59	13	34	34	29	50	78	75	10	480	271
2014	1,079	975	121	0	135	273	283	104	85	42	20	28	47	31	42	60	68	7	432	276
2013	1,037	946	114	2	137	250	240	94	67	47	15	36	33	28	49	72	66	19	425	289
2012	1,024	903	101	1	133	262	231	92	81	44	18	25	46	40	54	46	58	10	432	253
2011	1,074	918	105	2	134	323	253	89	70	46	11	25	46	22	60	77	59	5	386	279
2010	1,032	880	133	2	133	238	236	92	76	54	10	25	46	22	56	56	52	7	411	263
2009	993	916	132	1	146	244	233	100	100	44	14	23	43	37	64	67	42	13	362	244
2008	997	857	120	2	103	303	237	73	87	36	13	24	43	29	53	60	58	9	360	244
2007	984	922	115	0	116	290	272	74	87	38	16	23	35	41	55	60	47	9	372	256
2006	1,023	917	129	0	111	287	237	100	104	30	9	28	41	31	50	66	62	10	370	275
2005	1,020	927	129	0	134	301	249	99	88	33	14	33	44	36	59	60	53	11	354	250
2004	963	895	130	1	138	262	240	80	69	39	16	29	49	37	52	58	55	10	344	249
2003	961	877	109	1	115	298	236	78	86	34	13	20	41	43	50	48	41	12	352	261
2002	959	943	110	2	150	287	240	100	84	28	11	31	38	29	64	45	44	9	349	281
2001	1,045	907	124	0	124	322	256	105	80	39	15	23	56	35	43	39	61	7	360	263
2000	1,008	853	108	2	130	279	204	108	90	37	17	26	41	30	50	57	43	13	376	250
1999	978	867	128	3	122	288	217	93	92	29	13	19	32	52	52	49	40	15	356	245
1998	1,009	807	125	2	118	321	204	95	70	36	13	27	44	35	46	54	38	12	332	244
1997	958	821	151	0	116	264	212	100	80	32	13	18	58	40	54	44	37	11	309	240
1996	942	820	125	0	143	291	194	95	86	20	9	20	39	47	41	38	42	13	334	225
1995	918	847	125	0	159	263	201	89	83	40	6	19	43	36	51	57	55	8	301	229
1994	975	765	133	1	123	283	174	99	85	35	9	18	45	33	45	51	43	12	328	223
1993	941	797	158	3	138	278	172	107	94	24	12	21	37	37	43	48	45	19	286	216
1992	927	783	147	0	143	279	162	86	79	25	14	22	39	32	45	31	60	14	320	212
1991	894	762	118	1	122	289	175	95	87	31	8	20	42	37	42	46	53	13	272	205
1990	863	767	130	0	151	267	140	92	88	25	17	28	30	42	35	33	50	11	286	205
1989	880	713	150	0	127	257	133	106	105	33	9	18	41	18	43	35	40	17	258	203
1988	831	730	110	4	117	251	163	95	74	25	16	17	35	34	44	41	50	16	270	199
1987	832	684	121	3	124	259	117	103	95	23	7	23	34	29	50	28	39	9	261	191
1986	791	684	134	0	130	233	124	91	85	30	12	25	26	22	42	37	43	17	240	184
1985	829	616	118	1	108	223	118	100	84	44	8	23	27	26	35	48	31	15	268	168
1984	763	704	88	1	124	231	128	83	91	17	11	28	28	26	38	43	39	16	272	203
1983	732	618	92	2	112	218	90	73	64	24	3	20	30	22	45	38	54	12	255	196
1982	757	627	120	2	130	218	92	82	70	27	11	32	18	21	37	42	31	15	248	188
1981	712	631	109	0	125	207	92	84	84	21	15	13	25	31	40	36	29	9	230	193
1980	743	548	91	0	98	237	75	83	82	23	9	14	26	26	34	49	36	15	234	159
1979	672	568	99	1	105	194	69	77	84	27	12	23	17	18	39	37	31	20	220	167
1978	703	530	113	1	95	199	86	85	72	26	9	22	24	17	36	38	26	14	217	153
1977	677	507	81	0	90	207	60	82	66	28	7	16	28	13	35	42	34	13	209	173
1976	684	507	92	0	107	197	58	90	70	24	13	18	30	17	29	31	35	9	220	151
1975	629	476	74	0	85	167	53	81	70	20	4	20	20	20	30	33	34	15	234	145
1974	629	501	76	1	88	196	48	79	80	25	5	19	31	24	28	33	42	22	188	145

Dark shaded rows indicate years in which the International Statistical Classification of Diseases and Related Health Problems (ICD) was revised.

Classification of certain causes of death may have varied somewhat because of those coding changes alone.

Details are provided by the World Health Organization.

Table D-5
Frequency of Death from Selected Cancers by Sex of Decedent and Year of Death
Montana Residents, 1960-2017

Year of Death	All Cancers		Prostate		Breast		Trachea, Lung & Bronchus		Colon, Rectum & Anus		Bladder		Uterus	Hodgkin's & Non-Hodgkin's Lymphoma		Ovary	Pancreas		Cervix		Other Cancers	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Female	Male	Female	Female	Male	Female	Female	Male	Female	Male
1973	580	481	86	0	85	172	37	67	87	19	8	9		19	21	25	30	42	15	187	152	
1972	637	485	79	0	92	164	44	85	69	25	7	16		17	20	25	37	34	16	230	162	
1971	643	408	70	3	88	177	35	78	58	35	8	11		23	15	17	35	27	18	222	131	
1970	598	461	75	2	101	152	34	66	74	31	9	14		23	17	26	43	24	20	206	142	
1969	619	422	66	0	93	158	28	83	71	26	7	15		34	23	19	39	23	13	213	130	
1968	604	476	66	0	96	150	23	64	59	38	4	18		33	16	38	46	31	22	207	169	
1967	549	452	66	0	98	121	26	81	63	26	6	19		20	17	37	39	18	28	196	140	
1966	571	398	59	0	87	125	16	65	63	23	5	23		26	18	24	45	16	15	228	131	
1965	546	387	71	0	78	121	23	73	66	20	4	15		25	17	23	43	17	23	193	121	
1964	577	409	78	1	79	114	13	65	57	19	6	20		32	11	26	40	16	32	228	149	
1963	543	353	59	1	68	103	16	71	51	19	8	16		31	13	20	32	21	20	227	120	
1962	528	383	65	0	84	109	12	64	54	15	3	14		26	14	28	44	22	21	205	131	
1961	524	441	62	0	98	115	23	78	76	20	7	17		22	14	27	30	21	27	197	131	
1960	557	401	78	0	85	121	17	81	56	16	7	20		32	9	25	30	20	26	199	136	

Dark shaded rows indicate years in which the International Statistical Classification of Diseases and Related Health Problems (ICD) was revised.

Classification of certain causes of death may have varied somewhat because of those coding changes alone.

Details are provided by the World Health Organization.

Table D-6
Frequency of Infant Deaths by Age and up to 130 Selected Underlying Causes
Montana Residents, 2016

Cause of Death	Total	0 to 7 Days	8 to 27 Days	28 Days to One Year
All Causes	64	31	5	28
Certain infectious and parasitic diseases	1	0	0	1
(1) Certain intestinal infectious diseases	1	0	0	1
Neoplasms	1	0	0	1
(24#) In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	1	0	0	1
Endocrine, nutritional and metabolic diseases	2	1	0	1
(31#) Volume depletion, disorders of fluid, electrolyte and acid-base balance	2	1	0	1
Diseases of the nervous system	1	0	0	1
(37) Other diseases of nervous system	1	0	0	1
(#) Diseases of the circulatory system	1	0	0	1
(41) Cardiomyopathy	1	0	0	1
Certain conditions originating in the perinatal period	20	16	3	1
Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	6	6	0	0
(59#) Newborn affected by other maternal conditions which may be unrelated to present pregnancy	1	1	0	0
# Newborn affected by maternal complications of pregnancy	9	9	0	0
(61) Newborn affected by premature rupture of membranes	4	4	0	0
(68#) Newborn affected by other complications of labor and delivery	1	1	0	0
Disorders related to length of gestation and fetal malnutrition	4	4	0	0
(#) Disorders related to short gestation and low birth weight, not elsewhere classified	4	4	0	0
(71) Extremely low birth weight or extreme immaturity	3	3	0	0
(72) Other low birth weight or preterm	1	1	0	0
(#) Intrauterine hypoxia and birth asphyxia	1	1	0	0
(76) Birth asphyxia	1	1	0	0
Other respiratory conditions originating in the perinatal period	3	2	0	1
(78#) Congenital pneumonia	1	1	0	0
(79#) Neonatal aspiration syndromes	1	1	0	0
(83#) Atelectasis	1	0	0	1
Infections specific to the perinatal period	1	0	1	0
(87) All other infections specific to the perinatal period	1	0	1	0
(93#) Necrotizing enterocolitis of newborn	2	1	1	0
(95) Other perinatal conditions	3	2	1	0
(#) Congenital malformations, deformations and chromosomal abnormalities	18	13	2	3
(96) Anencephaly and similar malformations	2	2	0	0
(100) Congenital malformations of heart	5	4	0	1
(101) Other congenital malformations of circulatory system	1	1	0	0
(104) Congenital malformations of genitourinary system	2	2	0	0
(105) Congenital malformations and deformations of musculoskeletal system, limbs and integument	3	3	0	0
(107) Edward's syndrome	1	0	1	0
(108) Patau's syndrome	1	0	1	0
(109) Other congenital malformations and deformations	3	1	0	2
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	12	1	0	11
(112) Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	12	1	0	11
(113) All other diseases (Residual)	1	0	0	1
External causes of mortality	7	0	0	7
(#) Accidents (unintentional injuries)	4	0	0	4
Transport accidents	1	0	0	1
(114) Motor vehicle accidents	1	0	0	1
(119) Accidental suffocation and strangulation in bed	3	0	0	3
(#) Assault (homicide)	3	0	0	3
(125) Assault (homicide) by hanging, strangulation and suffocation	1	0	0	1
(127) Neglect, abandonment and other maltreatment syndromes	1	0	0	1
(128) Assault (homicide) by other and unspecified means	1	0	0	1

Line numbers shown in parentheses on this table correspond to those in the [NCHS Instruction Manual Part 9](#). Those marked with a "#" sign are rankable as leading causes.

Table D-7
 Frequency of Infant Deaths by Age in Days
 and Five-Year Infant Mortality Rate
 Montana Residents, 1993-2017

Year	Births	0 7 Days	8 27 Days	28 Days 1 Year	Infant Deaths	Infant Death Rate*
2013-2017	61,436	159	38	143	346	5.6
2008-2012	61,024	178	41	147	370	6.1
2003-2007	59,407	148	45	161	356	6.0
1998-2002	54,505	178	37	152	370	6.8
1993-1997	55,238	188	32	171	394	7.1

* Rate per 1,000 live births

Table D-8
Frequency of Maternal and Late Maternal Deaths* by Year
Montana Residents, 2007-2017

	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007
Total, all Maternal and Late Maternal Causes	4	1	1	4	6	2	7	2	5	2	4
Maternal causes (A34,O00-O95,O98-O99)	2	1	0	3	4	0	5	1	5	1	2
Pregnancy with abortive outcome (O00-O07)	0	0	0	0	0	0	0	0	0	0	0
Ectopic pregnancy (O00)	0	0	0	0	0	0	0	0	0	0	0
Spontaneous abortion (O03)	0	0	0	0	0	0	0	0	0	0	0
Medical abortion (O04)	0	0	0	0	0	0	0	0	0	0	0
Other abortion (O05)	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified pregnancy with abortive outcome (O01-O02,O06-O07)	0	0	0	0	0	0	0	0	0	0	0
Other direct obstetric causes (A34,O10-O92)	1	0	0	3	3	0	1	0	1	1	1
Eclampsia and pre-eclampsia (O11,O13-O16)	0	0	0	0	1	0	1	0	1	0	1
Hemorrhage of pregnancy and childbirth and placenta previa (O20,O44-O46,O67,O72)	0	0	0	0	0	0	0	0	0	0	0
Complications predominately related to the puerperium (A34,O85-O92)	0	0	0	0	0	0	0	0	0	0	0
Obstetrical tetanus (A34)	0	0	0	0	0	0	0	0	0	0	0
Obstetric embolism (O88)	0	0	0	0	0	0	0	0	0	0	0
Other complications predominately related to the puerperium O85-O87,O89-O92)	0	0	0	0	0	0	0	0	0	0	0
All other direct obstetric causes (O10,O12,O21-O43,O47-O66,O68-O71,O73-O75)	1	0	0	3	2	0	0	0	0	1	0
Obstetric death of unspecified cause (O95)	0	0	0	0	1	0	1	1	0	0	0
Indirect obstetric causes (O98-O99)	1	1	0	0	0	0	3	0	4	0	1
Maternal causes more than 42 days after delivery or termination of pregnancy (O96-O97)	2	0	1	1	2	2	2	1	0	1	2
Death from any obstetric cause occurring more than 42 days but less than one year after delivery (O96)	2	0	1	1	2	2	2	1	0	1	2
Death from sequelae of direct obstetric causes (O97)	0	0	0	0	0	0	0	0	0	0	0

* A "maternal death" is the death of a female while pregnant or within 42 days of termination of pregnancy, irrespective of the duration and site of pregnancy, from any cause related to or aggravated by the pregnancy or its management, but not from accident or incidental causes. Maternal conditions are those assigned to pregnancy, childbirth, and the puerperium (ICD-10 codes A34, 000-095, and 098-099). "Late maternal deaths" are those attributed to the same causes but which occurred more than 42 days after termination of the pregnancy. The 2003 revision of the Montana death certificate added a pregnancy history item which indicates whether the decedent was pregnant within the 12 months prior to death. This new item makes the identification of a greater number of maternal and late maternal deaths possible.

Table D-9
Age at Death and Years of Potential Life Lost Before Age 75
by Cause of Death, Central Tendency and Dispersion*
Montana Residents, 2012-2016

Cause of Death	Decedents younger than 75 years of age						Decedents of all ages						
	Average YPLL			Number of decedents younger than 25	Total YPLL	Minimum age	Mean age	Median age			Maximum age	Standard Deviation	Number of deaths
	Race							Race					
	All Races	White	AI/AN	All Races	White	AI/AN							
All Causes	17.4	16.3	25.2	21,273	369,194	0	73.7	77	78	61	108	18.2	48,840
HIV Infection	23.4	21.1	34.8	22	514	27	51.6	52	53	38	73	11.9	22
Cancer	11.9	11.7	14.0	5,659	67,129	2	72.2	73	73	68	106	12.7	10,341
Diabetes	14.3	13.7	16.2	743	10,647	20	72.0	73	75	65	107	14.7	1,424
Alzheimer's Disease	5.9	5.8	11.0	80	471	58	86.7	88	88	83	103	7.2	1,392
Heart Disease	12.3	11.9	15.8	3,692	45,398	0	78.1	81	82	67	108	13.9	10,316
Cerebrovascular Disease	12.3	12.3	11.7	565	6,926	0	81.0	84	84	74	106	12.9	2,339
Atherosclerosis	8.5	8.4	13.0	31	265	48	79.5	79	79	62	104	11.2	98
Influenza And Pneumonia	15.7	13.9	28.0	233	3,664	0	80.4	85	85	68.5	106	15.9	902
Chronic Lower Respiratory Diseases	9.5	9.4	10.5	1,349	12,838	0	76.9	78	78	75	104	11.3	3,463
Chronic Liver Disease And Cirrhosis	19.9	17.5	25.6	748	14,917	22	57.8	57	61	51	94	13.1	838
Nephritis, Nephrotic Syndrome & Nephrosis	12.4	10.8	18.4	225	2,799	26	78.0	81	83	65	104	13.7	658
Congenital Malformations & Chromosomal Anomalies	49.1	46.8	66.2	161	7,911	0	31.5	24	34	0	94	32.3	178
Conditions Originating In Perinatal Period	74.5	74.4	74.7	127	9,457	0	0.5	0	0	0	35	3.5	127
Sudden Infant Death Syndrome	75.0	75.0	75.0	32	2,400	0	0.0	0	0	0	0	0.0	32
Motor Vehicle Accidents	35.6	34.1	41.3	935	33,260	0	42.7	40	44	31	100	20.6	1,013
Non-Motor Vehicle Accidents	28.5	27.7	33.7	1,078	30,776	0	65.3	69	73	45	103	24.6	1,988
Suicide	32.2	30.9	43.8	1,219	39,248	11	46.3	46	48	28	96	19.3	1,336
Homicide	39.6	37.2	44.4	175	6,931	0	37.1	36.5	39	29.5	87	20.0	182
Other Causes	17.5	16.4	24.3	4,199	73,643	0	76.9	82	82	61	108	17.6	12,191

* The mean is the arithmetic average and the median is the midpoint. The standard deviation measures the concentration of distribution around the mean.

Table F-1

Frequency of Fetal Death by Completed Weeks of Gestation and up to 124 Selected Underlying Causes of Death
Montana Residents, 2017

Cause of Death	All Gestational Ages	Less Than 23 Weeks	23 To 33 Weeks	34 Weeks or More
All Causes	45	14	19	12
Certain conditions originating in the perinatal period	40	12	18	10
(#) Fetus affected by maternal conditions that may be unrelated to present pregnancy	6	2	4	0
(17) Fetus affected by maternal hypertensive disorders	1	0	1	0
(19) Fetus affected by maternal infectious and parasitic diseases	1	0	1	0
(20) Fetus affected by other maternal circulatory and respiratory diseases	1	1	0	0
(24) Fetus affected by other medical procedures and maternal conditions	3	1	2	0
(#) Fetus affected by maternal complications of pregnancy	5	4	0	1
(27) Fetus affected by premature rupture of membranes	5	4	0	1
(#) Fetus affected by complications of placenta, cord and membranes	15	4	6	5
(36) Fetus affected by other forms of placental separation and hemorrhage	5	3	0	2
(37) Fetus affected by other and unspecified morphological and functional abnormalities of placenta	2	0	0	2
(38) Fetus affected by placental transfusion syndromes	3	1	2	0
(39) Fetus affected by prolapsed cord	1	0	1	0
(40) Fetus affected by other compression of umbilical cord	1	0	0	1
(41) Fetus affected by other and unspecified conditions of umbilical cord	2	0	2	0
(42) Fetus affected by chorioamnionitis	1	0	1	0
(52#) Fetus affected by noxious influences transmitted via placenta	2	1	1	0
Transitory endocrine and metabolic disorders specific to fetus	2	0	0	2
(84#) Syndrome of infant of a diabetic mother and neonatal diabetes mellitus	2	0	0	2
Other conditions originating in the perinatal period	10	1	7	2
(87#) Hydrops fetalis not due to hemolytic disease	1	1	0	0
(88#) Fetal death of unspecified cause	9	0	7	2
(#) Congenital malformations, deformations and chromosomal abnormalities	5	2	1	2
Congenital malformations of nervous system	2	2	0	0
(94) Anencephaly and similar malformations	2	2	0	0
(104) Other congenital malformations of circulatory system	1	0	1	0
Congenital malformations of urinary system	1	0	0	1
(109) Renal agenesis and other reduction defects of kidney	1	0	0	1
Chromosomal abnormalities, not elsewhere classified	1	0	0	1
(119) Other chromosomal abnormalities, not elsewhere classified	1	0	0	1

* Line numbers shown in parentheses on this table correspond to [NCHS Instruction Manual Part 9](#).

Table A-1
Frequency and Percent Induced Abortions
by Age of Patient and Year
Montana Occurrences, 2003-2017

Year	Age in Years																
	Total	Younger than 15		15 19		20 24		25 29		30 34		35 39		40 and Older		Not Stated	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2017	1,561	†	‡	185	11.9%	484	31.2%	428	27.5%	231	14.8%	165	10.6%	63	4.0%	†	‡
2016	1,618	†	‡	169	10.5%	505	31.4%	419	26.0%	276	17.1%	173	10.7%	71	4.4%	†	‡
2015	1,611	†	‡	201	12.5%	515	32.1%	419	26.1%	269	16.7%	145	9.0%	58	3.6%	†	‡
2014	1,690	†	‡	229	13.6%	573	34.1%	437	26.0%	259	15.4%	137	8.1%	50	2.9%	†	‡
2013	1,842	10	‡	241	13.2%	609	33.4%	450	24.6%	296	16.2%	174	9.5%	62	3.4%	0	0.0%
2012	2,031	10	‡	298	14.8%	695	34.5%	482	23.9%	296	14.7%	170	8.4%	80	3.9%	0	0.0%
2011	2,147	6	‡	356	16.6%	730	34.1%	507	23.7%	297	13.9%	159	7.4%	92	4.3%	0	0.0%
2010	2,160	11	‡	341	15.9%	760	35.5%	509	23.8%	291	13.6%	178	8.3%	70	3.2%	0	0.0%
2009	2,223	8	‡	395	17.9%	736	33.3%	540	24.4%	285	12.9%	188	8.5%	70	3.1%	†	‡
2008	2,125	12	‡	395	18.8%	753	35.8%	479	22.8%	271	12.9%	160	7.6%	54	2.5%	†	‡
2007	2,238	8	‡	418	18.8%	818	36.8%	479	21.5%	261	11.7%	182	8.1%	72	3.2%	0	0.0%
2006	2,119	13	‡	400	19.1%	773	36.9%	453	21.6%	234	11.1%	158	7.5%	87	4.1%	†	‡
2005	2,155	7	‡	467	21.8%	737	34.4%	412	19.2%	289	13.5%	170	7.9%	72	3.3%	†	‡
2004	2,256	9	‡	443	19.8%	786	35.1%	483	21.6%	250	11.1%	183	8.1%	101	4.5%	†	‡
2003	2,213	9	‡	464	21.2%	742	33.9%	471	21.5%	255	11.6%	179	8.1%	89	4.0%	†	‡

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table A-2
Frequency and Percent of Induced Abortions
by Completed Weeks of Gestation and Year
Montana Occurrences, 2003-2017

Year	Completed Weeks of Gestation														
	Total	8 or Fewer Weeks		9 13 Weeks		14 15 Weeks		16 17 Weeks		18 20 Weeks		21 or More Weeks		Not Stated	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2017	1,561	1046	68.1%	379	24.6%	53	3.4%	34	2.2%	36	2.3%	13	†	0	0.0%
2016	1,618	1031	64.7%	423	26.5%	75	4.7%	41	2.5%	35	2.1%	11	†	†	‡
2015	1,611	1044	65.7%	407	25.6%	62	3.9%	47	2.9%	40	2.5%	8	†	†	‡
2014	1,690	1127	67.5%	405	24.2%	64	3.8%	37	2.2%	46	2.7%	9	†	†	‡
2013	1,842	1268	69.6%	415	22.8%	73	4.0%	36	1.9%	39	2.1%	11	†	0	0.0%
2012	2,031	1399	69.8%	487	24.3%	68	3.3%	32	1.5%	31	1.5%	14	†	0	0.0%
2011	2,147	1491	70.0%	520	24.4%	61	2.8%	27	1.2%	39	1.8%	9	†	0	0.0%
2010	2,160	1497	70.3%	513	24.1%	57	2.6%	35	1.6%	42	1.9%	12	†	†	‡
2009	2,223	1506	68.4%	546	24.8%	75	3.4%	46	2.0%	39	1.7%	10	†	†	‡
2008	2,125	1344	64.0%	627	29.8%	67	3.1%	33	1.5%	40	1.9%	10	†	†	‡
2007	2,238	1389	62.6%	669	30.1%	61	2.7%	49	2.2%	59	2.6%	†	‡	7	‡
2006	2,119	1167	55.2%	769	36.3%	88	4.1%	45	2.1%	47	2.2%	†	‡	†	‡
2005	2,155	1155	53.6%	753	34.9%	99	4.5%	62	2.8%	63	2.9%	22	1.0%	†	‡
2004	2,256	1164	51.5%	822	36.4%	86	3.8%	60	2.6%	92	4.0%	32	1.4%	0	0.0%
2003	2,213	1185	53.8%	775	35.2%	99	4.5%	48	2.1%	72	3.2%	27	1.2%	7	‡

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table A-3
Frequency and Percent of Induced Abortions
by Method and Year
Montana Occurrences, 2003-2017

Year	Method										
	Total	Surgical		Medical		Intrauterine Instillation		Hysterectomy or Hysterotomy		Not Stated	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2017	1,561	655	42.0%	905	58.0%	0	0.0%	0	0.0%	†	‡
2016	1,618	785	48.5%	833	51.4%	0	0.0%	0	0.0%	0	0.0%
2015	1,611	832	51.6%	779	48.3%	0	0.0%	0	0.0%	0	0.0%
2014	1,690	822	48.6%	868	51.3%	0	0.0%	0	0.0%	0	0.0%
2013	1,842	1052	57.1%	789	42.8%	†	‡	0	0.0%	0	0.0%
2012	2,031	1175	57.8%	856	42.1%	0	0.0%	0	0.0%	0	0.0%
2011	2,147	1332	62.0%	814	37.9%	†	‡	0	0.0%	0	0.0%
2010	2,160	1404	65.0%	756	35.0%	0	0.0%	0	0.0%	0	0.0%
2009	2,223	1455	65.6%	765	34.5%	†	‡	†	‡	0	0.0%
2008	2,125	1519	71.5%	605	28.4%	0	0.0%	0	0.0%	†	‡
2007	2,238	1678	74.9%	499	22.2%	0	0.0%	0	0.0%	61	2.7%
2006	2,119	1887	89.0%	232	10.9%	0	0.0%	0	0.0%	0	0.0%
2005	2,155	2005	93.0%	150	6.9%	0	0.0%	0	0.0%	0	0.0%
2004	2,256	2137	94.7%	119	5.2%	0	0.0%	0	0.0%	0	0.0%
2003	2,213	2116	95.6%	97	4.3%	0	0.0%	0	0.0%	0	0.0%

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table A-4
Frequency and Percent of Induced Abortions
by Race and Year
Montana Occurrences, 2003-2017

Year	Race						
	Total	White		AI/AN		Other	
		Number	Percent	Number	Percent	Number	Percent
2017	1,561	1381	88.4%	135	8.6%	45	2.8%
2016	1,618	1431	88.4%	130	8.0%	57	3.5%
2015	1,611	1424	88.3%	135	8.3%	52	3.2%
2014	1,690	1535	90.8%	118	6.9%	37	2.1%
2013	1,842	1630	88.4%	163	8.8%	49	2.6%
2012	2,031	1834	90.3%	153	7.5%	44	2.1%
2011	2,147	1935	90.1%	155	7.2%	57	2.6%
2010	2,160	1928	89.2%	181	8.3%	51	2.3%
2009	2,223	1991	89.5%	199	8.9%	33	1.4%
2008	2,125	1890	88.9%	184	8.6%	51	2.4%
2007	2,238	2019	90.2%	165	7.3%	54	2.4%
2006	2,119	1892	89.2%	191	9.0%	36	1.6%
2005	2,155	1854	86.0%	248	11.5%	53	2.4%
2004	2,256	2002	88.7%	219	9.7%	35	1.5%
2003	2,213	1939	87.6%	231	10.4%	43	1.9%

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table A-5
Frequency and Percent of Induced Abortions
by Number of Previous Induced Abortions and Year
Montana Occurrences, 2003-2017

Year	Number of Previous Induced Abortions										
	Total	0		1		2		3 or More		Not Stated	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2017	1,561	552	35.3%	691	44.2%	238	15.2%	80	5.1%	0	0.0%
2016	1,618	618	38.1%	664	41.0%	260	16.0%	76	4.6%	0	0.0%
2015	1,611	563	34.9%	716	44.4%	221	13.7%	111	6.8%	0	0.0%
2014	1,690	427	25.2%	934	55.2%	220	13.0%	109	6.4%	0	0.0%
2013	1,842	612	33.2%	831	45.1%	266	14.4%	133	7.2%	0	0.0%
2012	2,031	810	39.8%	823	40.5%	284	13.9%	114	5.6%	0	0.0%
2011	2,147	837	38.9%	877	40.8%	291	13.5%	142	6.6%	0	0.0%
2010	2,160	894	41.3%	805	37.2%	307	14.2%	154	7.1%	0	0.0%
2009	2,223	852	38.3%	891	40.0%	316	14.2%	164	7.3%	0	0.0%
2008	2,125	754	35.4%	905	42.5%	324	15.2%	142	6.6%	0	0.0%
2007	2,238	722	32.2%	1001	44.7%	341	15.2%	174	7.7%	0	0.0%
2006	2,119	782	36.9%	908	42.8%	299	14.1%	130	6.1%	0	0.0%
2005	2,155	1293	60.1%	571	26.5%	193	8.9%	96	4.4%	†	‡
2004	2,256	1407	62.3%	566	25.0%	181	8.0%	102	4.5%	0	0.0%
2003	2,213	1431	64.6%	543	24.5%	168	7.5%	71	3.2%	0	0.0%

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

Table A-6
Frequency and Percent of Induced Abortions
by Number of Previous Live Births and Year
Montana Occurrences, 2003-2017

Year	Number of Previous Live Births												
	Total	0		1		2		3		4 or More		Not Stated	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2017	1,561	752	48.2%	349	22.3%	236	15.1%	144	9.2%	79	5.0%	†	‡
2016	1,618	770	47.5%	361	22.3%	297	18.3%	126	7.7%	64	3.9%	0	0.0%
2015	1,611	820	50.9%	355	22.0%	249	15.4%	126	7.8%	61	3.7%	0	0.0%
2014	1,690	847	50.1%	414	24.4%	260	15.3%	110	6.5%	59	3.4%	0	0.0%
2013	1,842	928	50.3%	412	22.3%	295	16.0%	137	7.4%	70	3.8%	0	0.0%
2012	2,031	1031	50.7%	420	20.6%	370	18.2%	144	7.0%	66	3.2%	0	0.0%
2011	2,147	1126	52.4%	441	20.5%	354	16.5%	153	7.1%	72	3.3%	†	‡
2010	2,160	1055	48.8%	504	23.3%	356	16.4%	162	7.5%	83	3.8%	0	0.0%
2009	2,223	1038	46.6%	541	24.3%	386	17.3%	162	7.2%	96	4.3%	0	0.0%
2008	2,125	1046	49.2%	516	24.2%	352	16.5%	132	6.2%	79	3.7%	0	0.0%
2007	2,238	1115	49.8%	503	22.4%	394	17.6%	149	6.6%	76	3.3%	†	‡
2006	2,119	1097	51.7%	449	21.1%	356	16.8%	151	7.1%	66	3.1%	0	0.0%
2005	2,155	1076	50.0%	501	23.2%	357	16.5%	158	7.3%	61	2.8%	†	‡
2004	2,256	1102	48.8%	492	21.8%	434	19.2%	149	6.6%	79	3.5%	0	0.0%
2003	2,213	1069	48.3%	545	24.6%	378	17.0%	155	7.0%	66	2.9%	0	0.0%

† Frequency is fewer than five.

‡ Figure does not meet standards of reliability or precision. See "Limitations of Small Numbers" in the "Technical Overview" section.

