



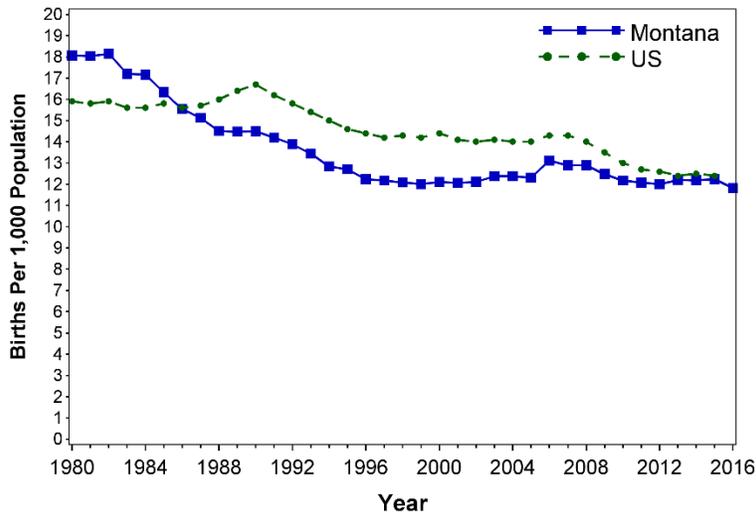
2016

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

Resident Birth Rates
Montana and the United States, 1980-2016



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.

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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 in roughly the first half of this report. 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 2016 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	3 days
Due to (b) lobectomy	1 week
Due to (c) primary cancer of lung	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.

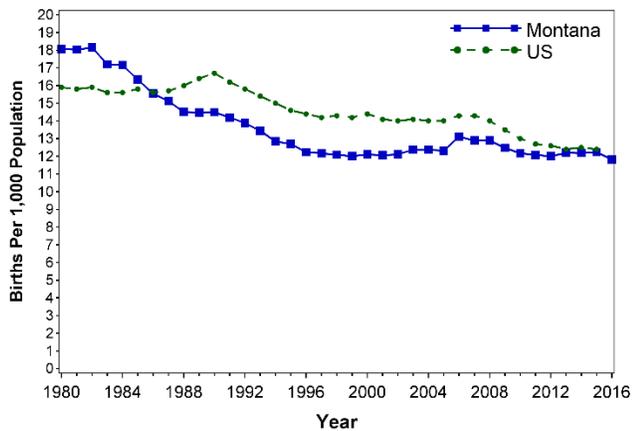
NATALITY

There were 12,274 babies born to Montana residents in 2016. **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 2016 to a rate of 11.8 per 1,000 residents (**Figure 1**).

Figure 1

Resident Birth Rates
Montana and the United States, 1980-2016



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, 1996-2016

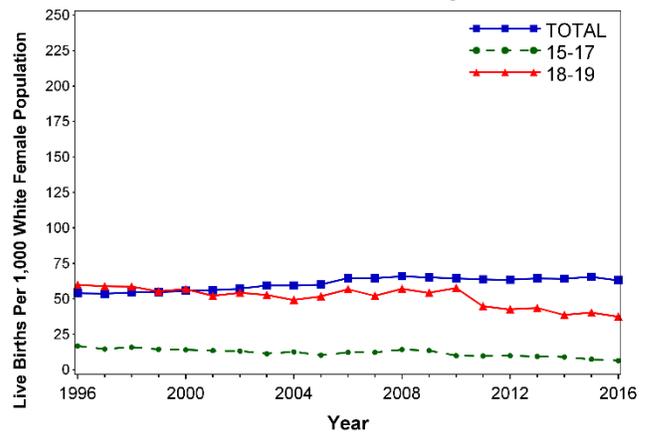
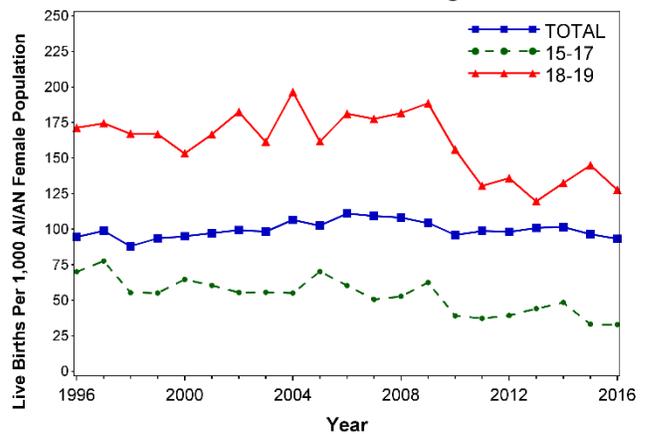


Figure 3

Fertility Rates for American Indian Mothers

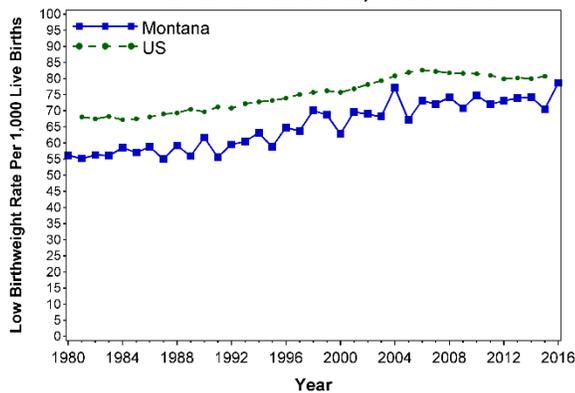
Montana Teens and Mothers of All Ages, 1996-2016



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, 1980-2016

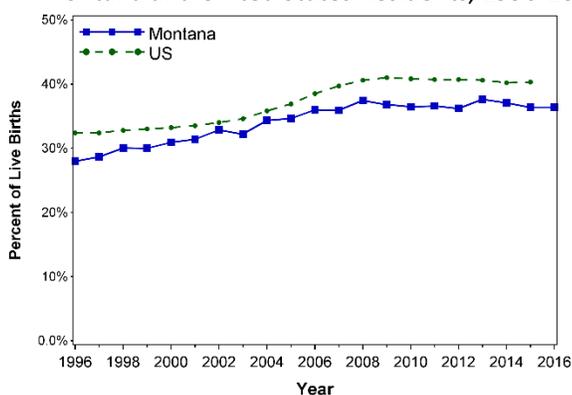


Mother’s Age, Race, and Marital Status

Of those Montanan mothers giving birth in 2016, slightly more than half (53.5%) were between 20 and 29 years of age (**Table S-5**). American Indian births comprised 11.9% of all births, and 86.2% 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 36.4% in 2016. By comparison, unmarried mothers in the U.S. accounted for 40.3% in 2015, 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, 1996-2016



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.

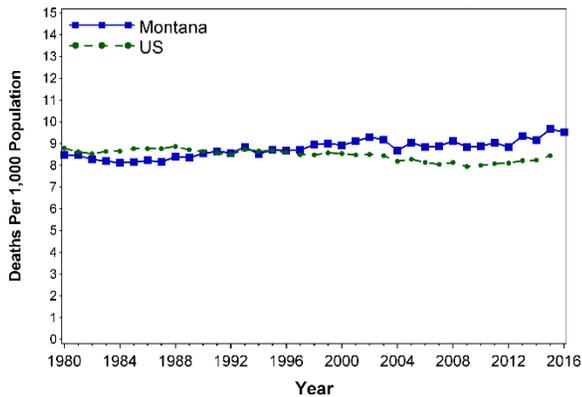
MORTALITY

Montana’s crude death rate has risen slowly since 1979 (Figure 6). Conversely, the U.S. rate has been on a long-term decline since the late 1980’s. In 2016 the Montana rate was 9.5 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, 1980-2016



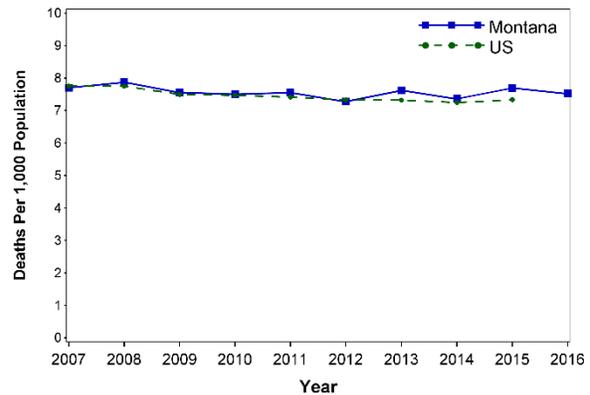
The death rate is closely related to the age structure of the resident population. It is therefore useful to adjust this rate for differences in the age distributions of populations when comparing death rates between those populations (“age adjusted death rate” is further defined in the Definitions section) 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, 2007--2016 (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, 2007-2016

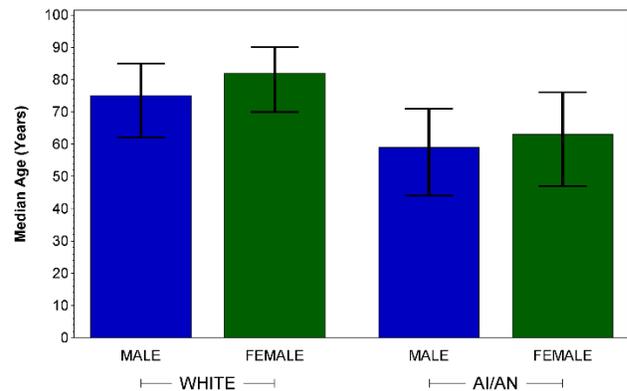


* Adjusted with the direct method to the 2000 U.S. Standard population.

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

Figure 8

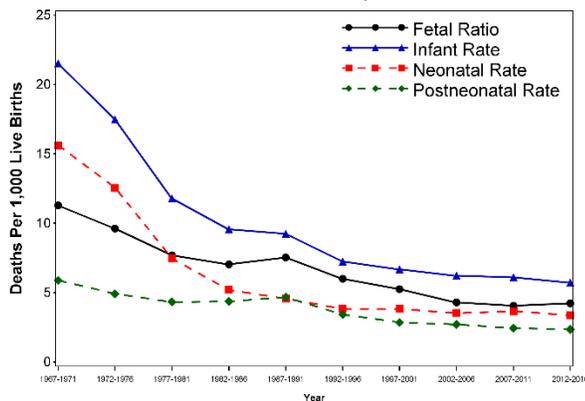
Median Age at Death,
25th and 75th Percentiles,
Montana Residents, 2012-2016



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, 1967-2016



A little more than two-thirds of all infant deaths in 2016 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 2016. There were 53 resident fetal deaths and 71 resident infant deaths in Montana in 2016.

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 below or just slightly above those for the U.S. between 2006 and 2012. Within the past four years, the rate of decline for Montana appears to be leveling or even slightly increasing while the U.S. rate maintained a steady downward trend during the entire period. 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 2015 was nearly twice 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, 2007-2016

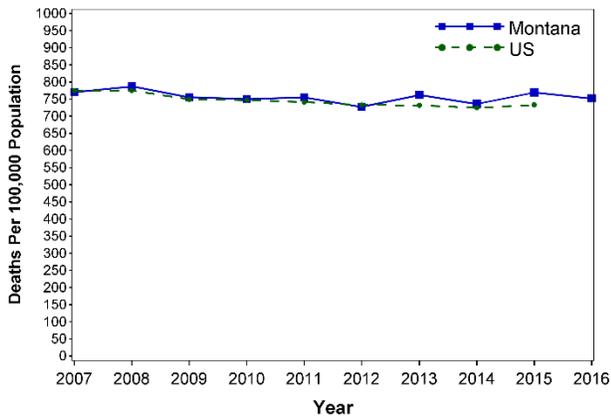


Figure 11
Age-Specific Death Rates for
All Causes
Montana Residents, 2016

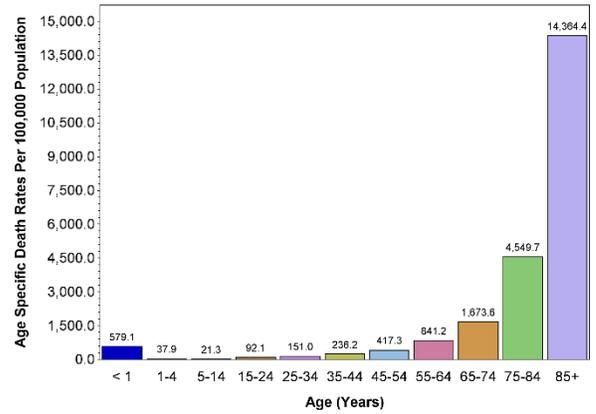


Figure 12
Age-Adjusted Death Rates for
Diseases of Heart
Montana and U.S. Residents, 2007-2016

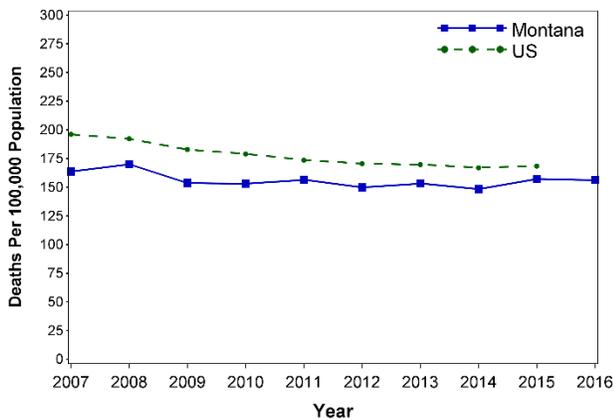


Figure 13
Age-Specific Death Rates for
Diseases of Heart
Montana Residents, 2016

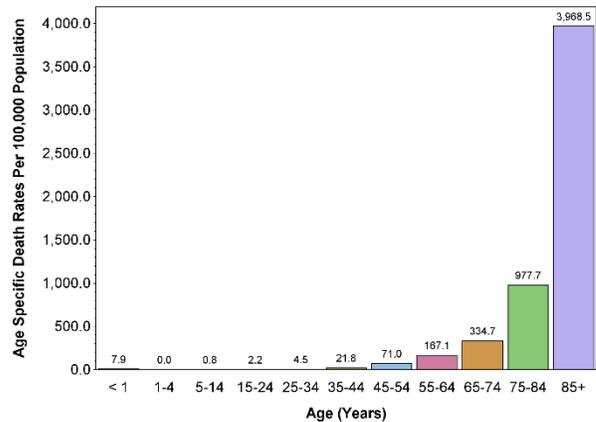


Figure 14
Age-Adjusted Death Rates for
Malignant Neoplasms (Cancer)
Montana and U.S. Residents, 2007-2016

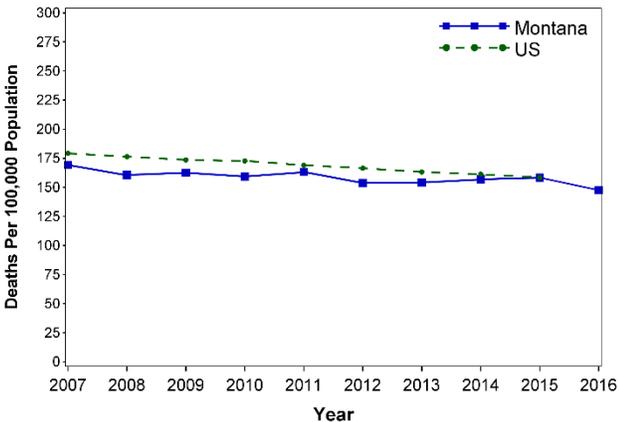


Figure 15
Age-Specific Death Rates for
Malignant Neoplasms (Cancer)
Montana Residents, 2016

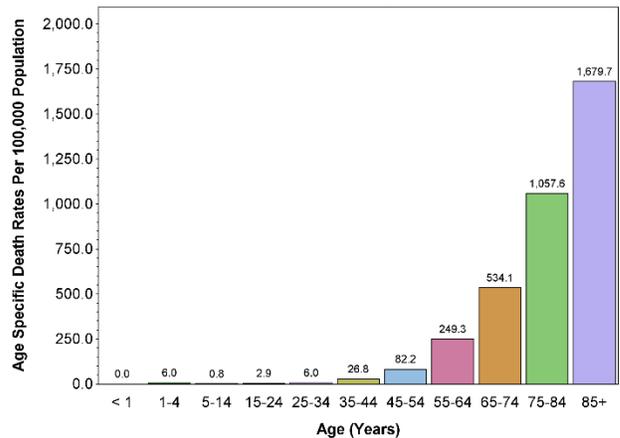


Figure 16
Age-Adjusted Death Rates for
Cerebrovascular Diseases
Montana and U.S. Residents, 2007-2016

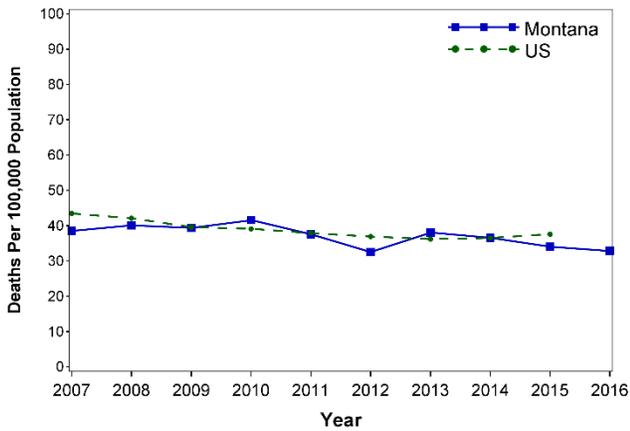


Figure 17
Age-Specific Death Rates for
Cerebrovascular Diseases
Montana Residents, 2016

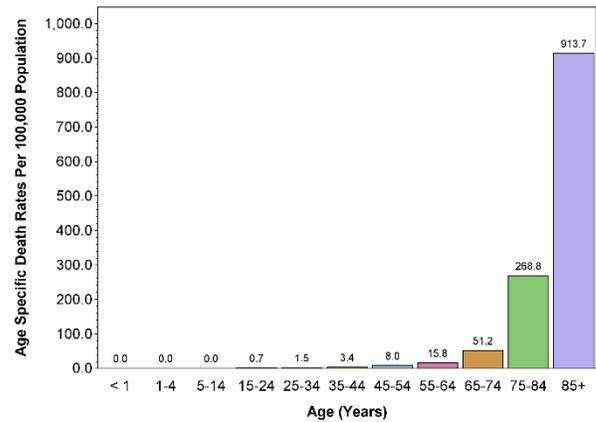


Figure 18
Age-Adjusted Death Rates for
Chronic Lower Respiratory Diseases
Montana and U.S. Residents, 2007-2016

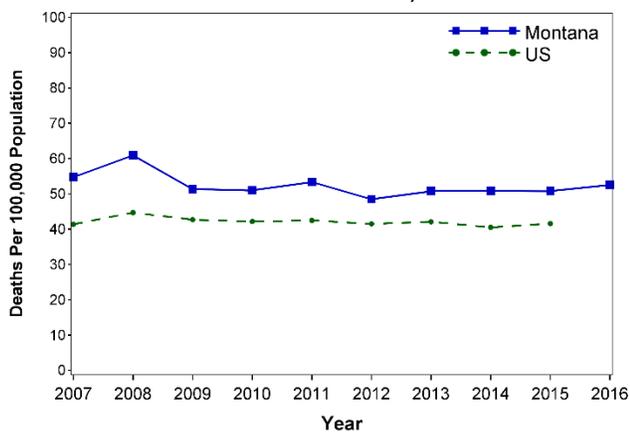


Figure 19
Age-Specific Death Rates for
Chronic Lower Respiratory Diseases
Montana Residents, 2016

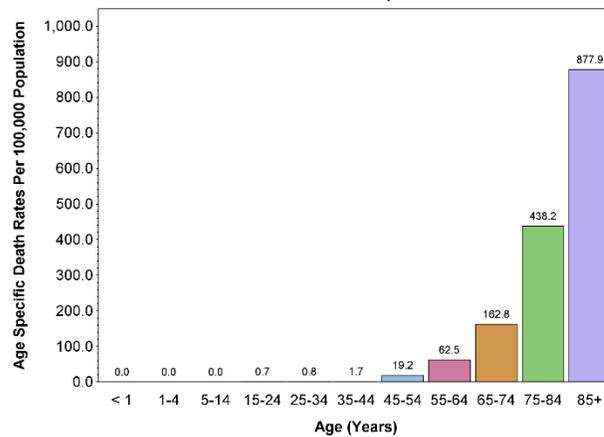


Figure 20
Age-Adjusted Death Rates for
Unintentional Injuries
Montana and U.S. Residents, 2007-2016

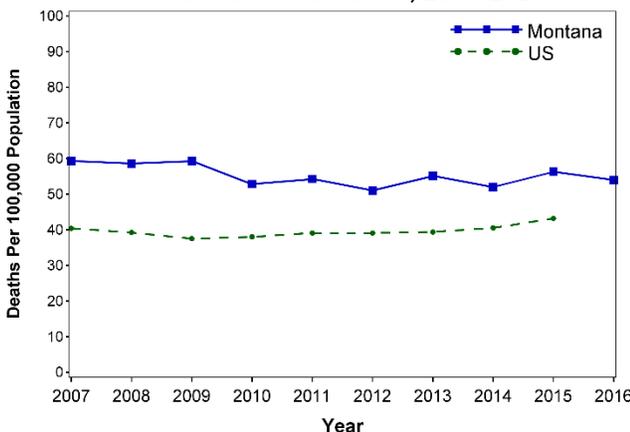


Figure 21
Age-Specific Death Rates for
Unintentional Injuries
Montana Residents, 2016

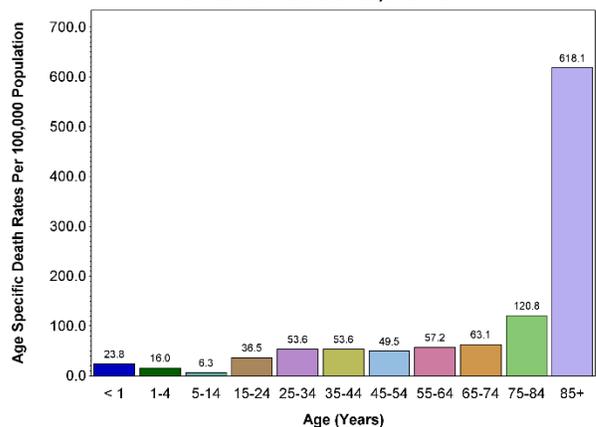


Figure 22
Age-Adjusted Death Rates for
Motor Vehicle Accidents
Montana and the U.S. Residents, 2007-2016

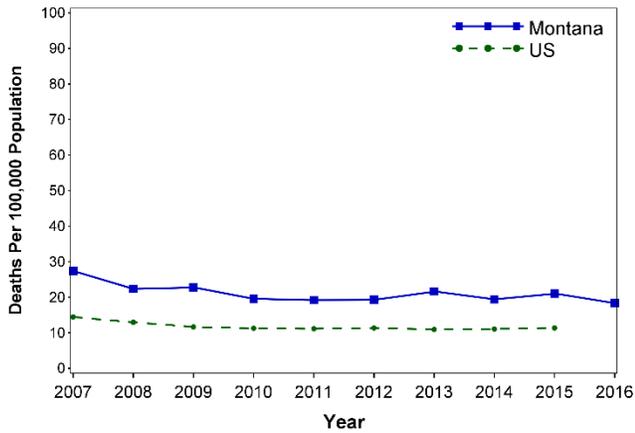


Figure 23
Age-Specific Death Rates for
Motor Vehicle Accidents
Montana Residents, 2016

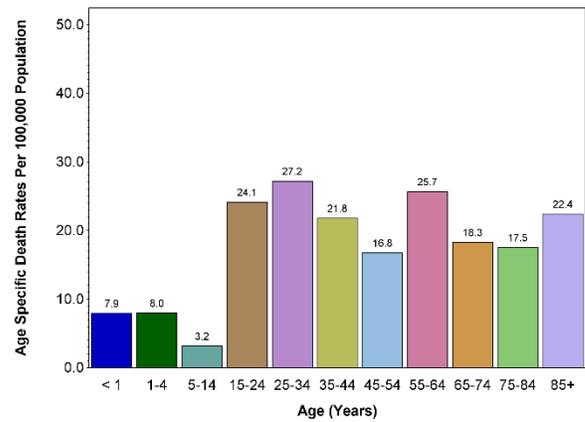


Figure 24
Age-Adjusted Death Rates for
Non-Motor Vehicle Accidents
Montana and U.S. Residents, 2007-2016

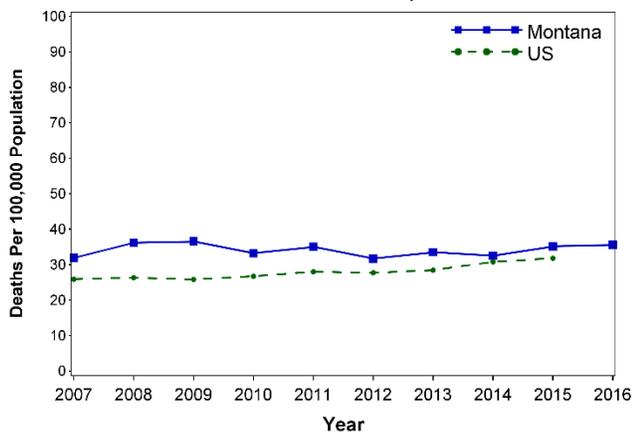


Figure 25
Age-Specific Death Rates for
Non-Motor Vehicle Accidents
Montana Residents, 2016

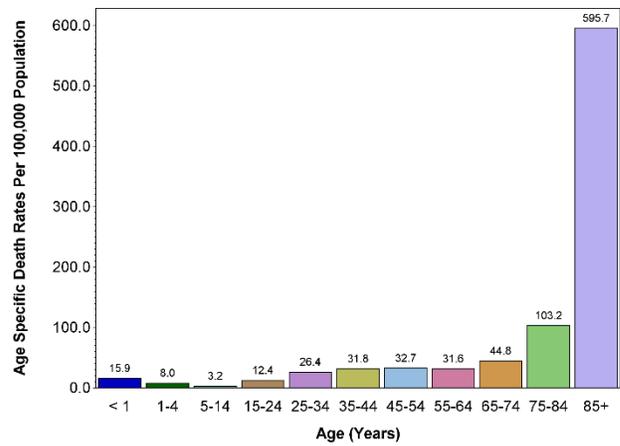


Figure 26
Age-Adjusted Death Rates for
Influenza and Pneumonia
Montana and U.S. Residents, 2007-2016

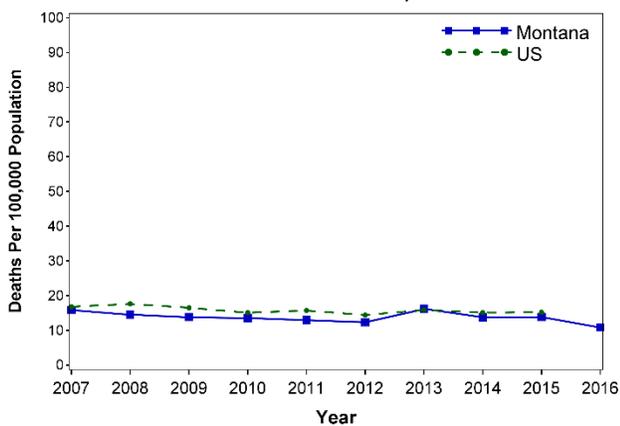


Figure 27
Age-Specific Death Rates for
Influenza and Pneumonia
Montana Residents, 2016

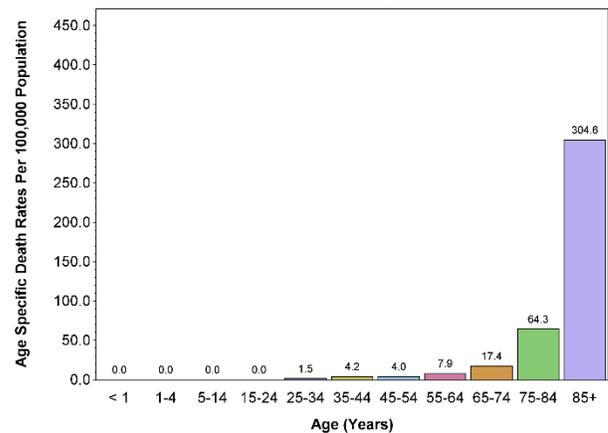


Figure 28
Age-Adjusted Death Rates for
Diabetes Mellitus
Montana and U.S. Residents, 2007-2016

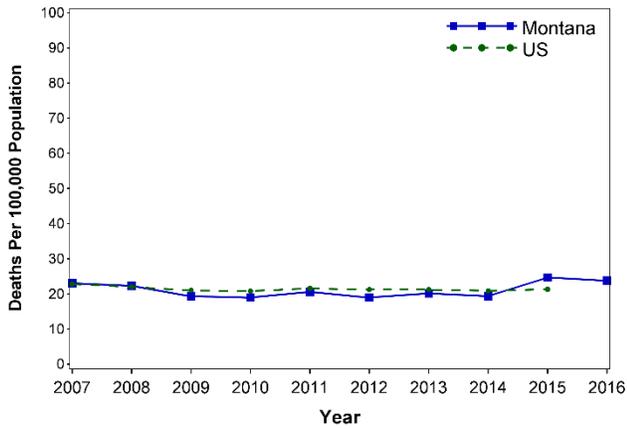


Figure 29
Age-Specific Death Rates for
Diabetes Mellitus
Montana Residents, 2016

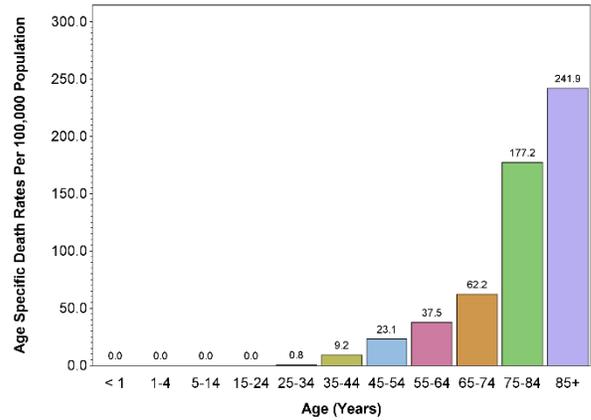


Figure 30
Age-Adjusted Death Rates for
Intentional Self-Harm (Suicide)
Montana and U.S. Residents, 2007-2016

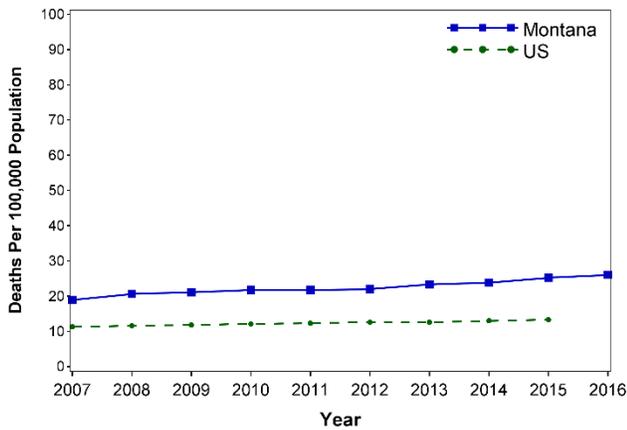


Figure 31
Age-Specific Death Rates for
Intentional Self-Harm (Suicide)
Montana Residents, 2016

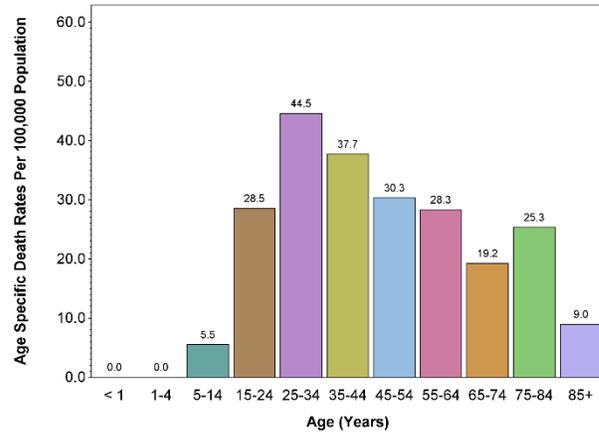


Figure 32
Age-Adjusted Death Rates for
Nephritis, Nephrotic Syndrome, and Nephrosis
Montana and U.S. Residents, 2007-2016

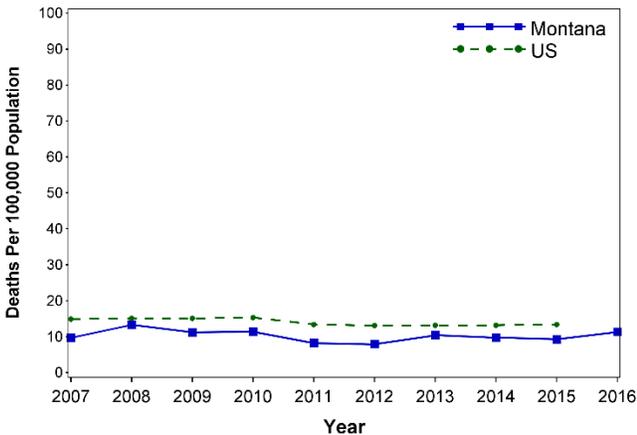


Figure 33
Age-Specific Death Rates for
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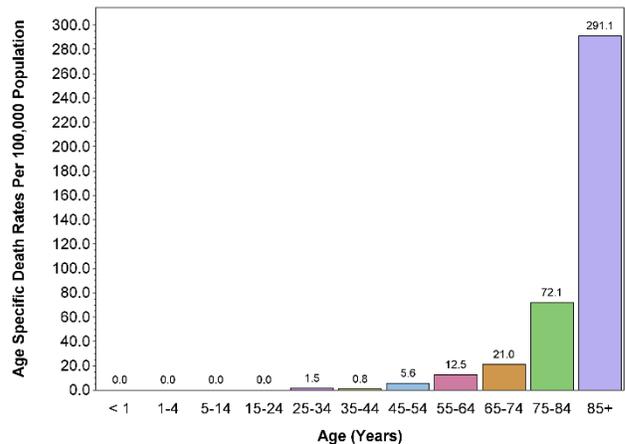


Figure 34
Age-Adjusted Death Rates for
Alzheimer's Disease
Montana and U.S. Residents, 2007-2016

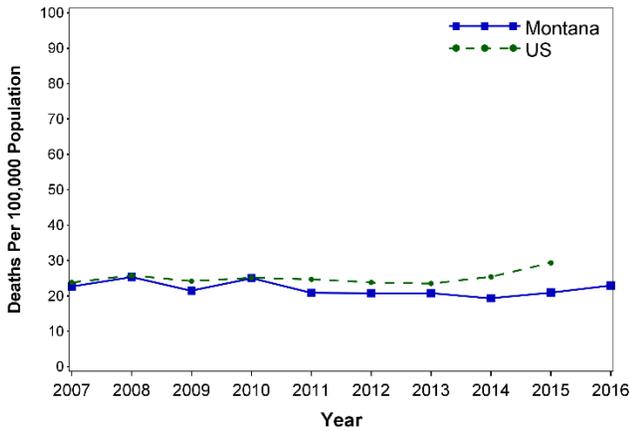


Figure 35
Age-Specific Death Rates for
Alzheimer's Disease
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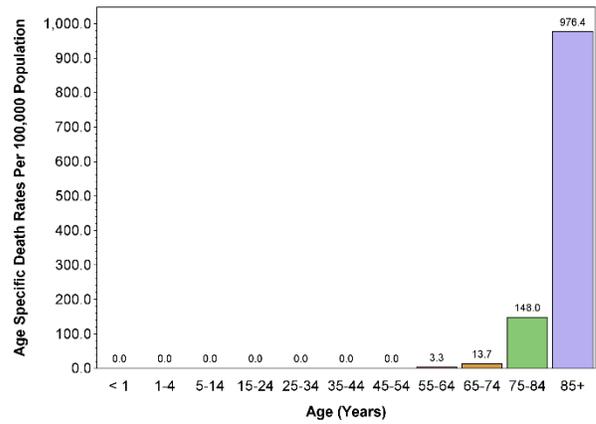


Figure 36
Age-Adjusted Death Rates for
Chronic Liver Disease and Cirrhosis
Montana and U.S. Residents, 2007-2016

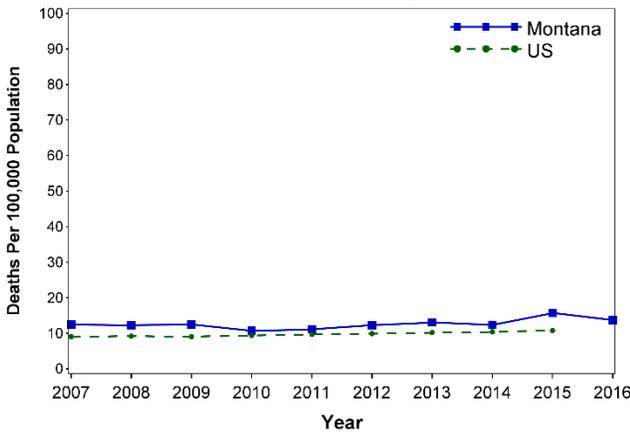


Figure 37
Age-Specific Death Rates for
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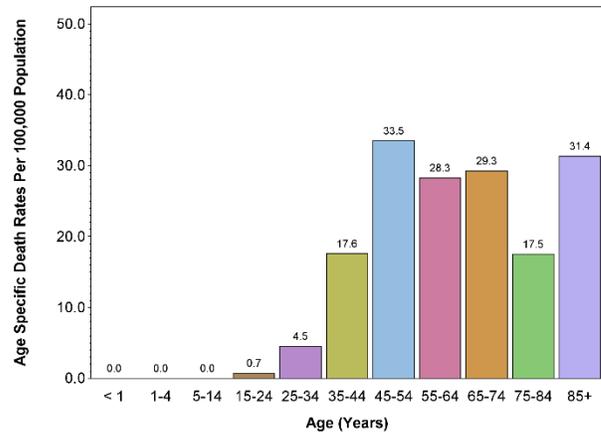


Figure 38
Age-Adjusted Death Rates for
Assault (Homicide)
Montana and U.S. Residents, 2007-2016

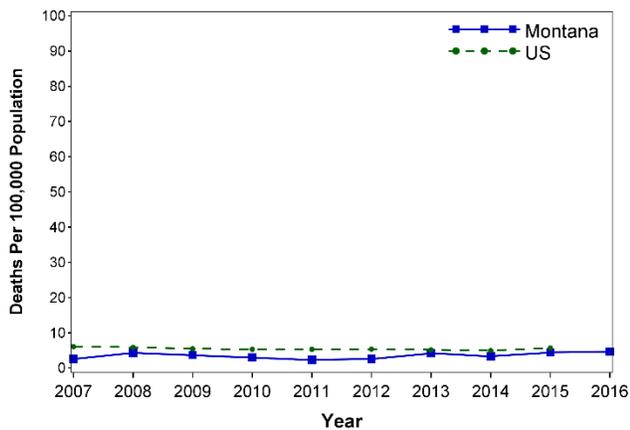


Figure 39
Age-Specific Death Rates for
Assault (Homicide)
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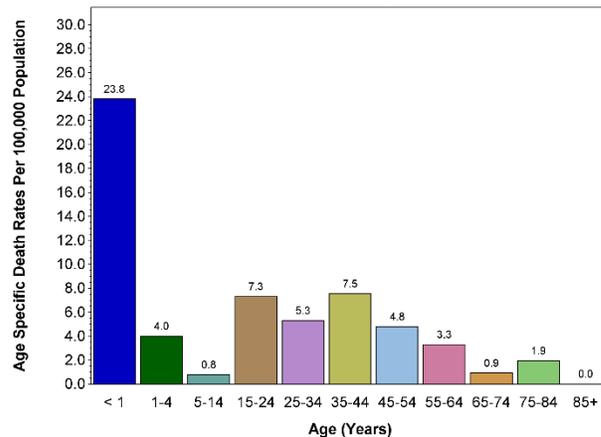


Table 2. Frequency of Death by Selected Cause, Race, and Sex, Montana Residents, 2012-2016.

Cause of Death	ALL RACES		WHITE		AI/AN		OTHER	
	Male	Female	Male	Female	Male	Female	Male	Female
All Causes	24,687	22,825	22,985	21,352	1,542	1,335	160	138
HIV Infection	20	†	18	†	†	†	†	0
Cancer	5,393	4,733	5,128	4,509	228	198	37	26
Diabetes	796	569	670	479	117	87	9	†
Alzheimer's Disease	467	903	462	892	5	6	0	5
Heart Disease	5,596	4,434	5,308	4,223	259	192	29	19
Cerebrovascular Disease	961	1,297	917	1,245	39	47	5	5
Atherosclerosis	48	42	45	41	†	†	0	0
Influenza & Pneumonia	415	456	392	426	20	28	†	†
Chronic Lower Respiratory Diseases	1,597	1,714	1,534	1,639	56	70	7	5
Chronic Liver Disease & Cirrhosis	471	314	353	217	114	93	†	†
Nephritis, Nephrotic Syndrome & Nephrosis	316	313	283	274	30	35	†	†
Congenital Malformations & Chromosomal Anomalies	92	67	80	58	8	9	†	0
Conditions Originating in Perinatal Period	80	55	62	40	16	10	†	5
Sudden Infant Death Syndrome	30	13	16	7	12	†	†	†
Motor Vehicle Accidents	701	327	579	244	114	81	8	†
Non-Motor Vehicle Accidents	1,098	848	1,006	775	89	68	†	5
Suicide	979	271	897	243	74	24	8	†
Homicide	112	53	78	42	31	9	†	†
Other Causes	5,515	6,414	5,157	5,997	326	372	32	45

Table 3. Frequency of Death by Selected Leading Causes of Death and Age, Montana Residents, 2012-2016.

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	47,513	353	80	112	617	910	1,268	2,821	6,118	8,436	11,349	15,449
HIV Infection	22	0	0	0	0	0	6	7	8	†	0	0
Cancer	10,126	0	†	†	22	56	139	605	1,943	2,832	2,735	1,786
Diabetes	1,365	0	0	0	11	5	42	117	221	309	348	312
Alzheimer's Disease	1,370	0	0	0	0	0	0	0	12	74	374	910
Heart Disease	10,030	†	†	†	11	35	125	448	1,237	1,719	2,431	4,018
Cerebrovascular Disease	2,258	†	0	†	†	9	12	65	149	299	631	1,084
Atherosclerosis	90	0	0	0	0	0	0	†	8	14	31	33
Influenza & Pneumonia	871	6	†	†	†	5	12	32	60	103	204	444
Chronic Lower Respiratory Diseases	3,311	†	0	0	†	6	10	78	357	828	1,096	931
Chronic Liver Disease & Cirrhosis	785	0	0	0	†	24	96	203	240	134	70	16
Nephritis, Nephrotic Syndrome & Nephrosis	629	0	0	0	†	6	8	32	64	102	169	247
Congenital Malformations & Chromosomal Anomalies	160	72	†	†	†	8	9	7	27	12	5	9
Conditions Originating in Perinatal Period	135	130	†	†	0	0	†	0	0	0	0	0
Sudden Infant Death Syndrome	43	43	0	0	0	0	0	0	0	0	0	0
Motor Vehicle Accidents	1,028	†	16	20	215	189	128	146	137	102	47	27
Non-Motor Vehicle Accidents	1,946	10	22	26	74	144	163	231	221	162	290	603
Suicide	1,250	0	0	20	163	218	203	209	233	108	63	33
Homicide	165	5	8	†	24	32	31	29	16	10	5	†
Other Causes	11,929	78	23	25	82	173	283	608	1,185	1,627	2,850	4,995

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. More than twice as many males as females died of homicide. About sixty-one percent more males than 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.

In the period 2012-2016, as age at death increased, chronic diseases became more frequent as the cause 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 three and a half percent of the deaths of those aged 65 years and older.

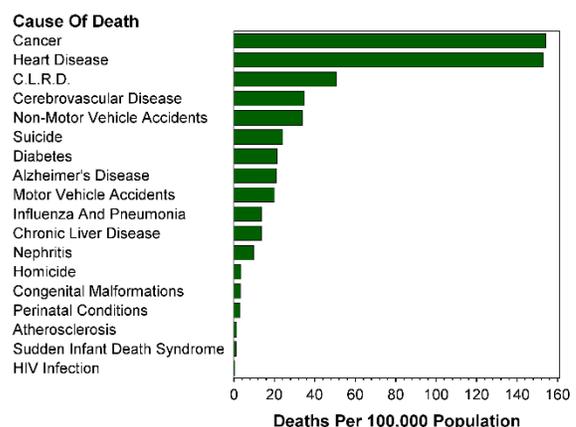
Suicide was the cause of death for a fifth of the decedents between the ages of 15 and 44, but by contrast it was the cause of death for less than 1% of decedents 65 years of age or over.

Years of Potential Life Lost

Premature Death Premature death 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.

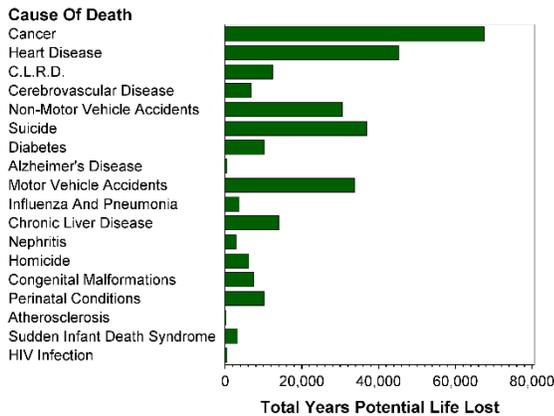
Similar results are observed when the number of Montanans of all ages who died of one of the listed causes is combined over the five-year period, 2012-2016 (**Figure 40**). While the numbers who died of these causes are larger than those for the single year of 2016, the proportions and rankings for the 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, 2012-2016



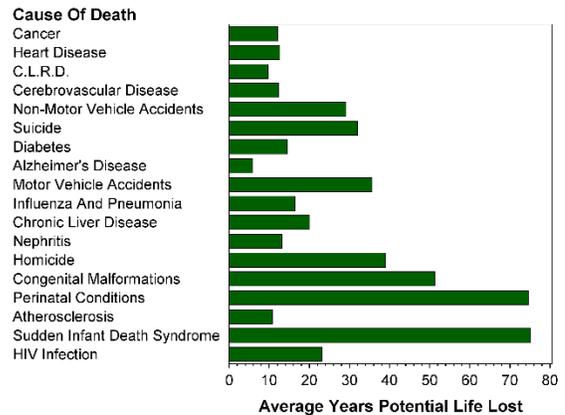
The leading causes of premature death were accidents, cancer, heart disease, and suicide (Figure 41). Cancer and heart disease cause a large social loss because of the numbers of deaths they cause, both among decedents of advanced age and those less than 75 years of age. More than half of all cancer decedents were less than age 75. More than a third of heart disease victims are 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, 2012-2016



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.

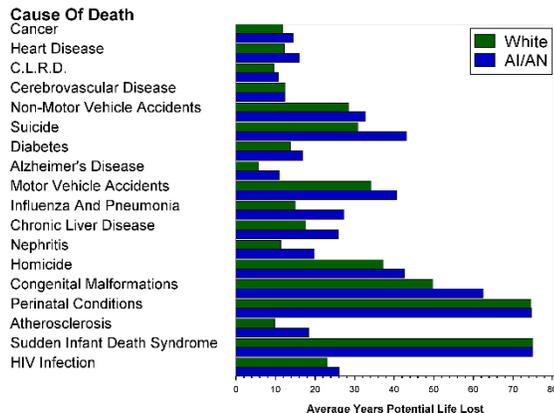
Figure 42
Average Years of Potential Life Lost Before Age 75
By Cause of Death
Montana Residents, 2012-2016



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.

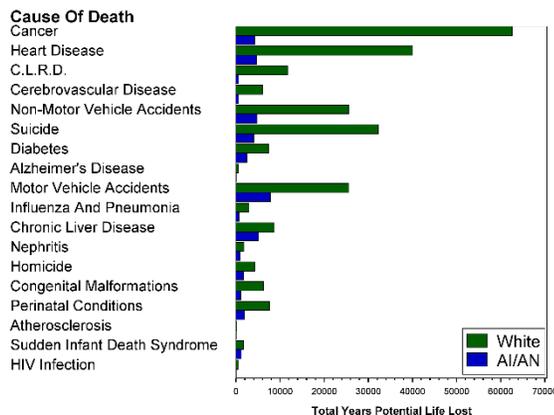
Several causes of death demonstrated a greater impact on American Indians (AI) than white decedents when considering average years of potential life lost (Figure 43 and Table D-9). These data show that typically, measuring by median age at death, American Indians have lifespans 18 years shorter than 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 unintentional injuries (difference of 24 years), atherosclerosis (21.5 years), suicide (18.5 years), influenza and pneumonia (13 years), congenital malformations and chromosomal anomalies (25 years), heart disease (14 years), nephritis (20 years), cerebrovascular disease (12 years), and diabetes (11 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, 2012-2016



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, (20.5% of total YPLL), accidents (16.8%), heart disease (13.1%), suicide (10.1%), C.L.R.D. (3.8%), and chronic liver disease and cirrhosis (2.8%), are the causes of death impacting the white population most, while the American Indian population is impacted most by accidents (22.5%), heart disease (9.3%), cancer (7.8%), chronic liver disease and cirrhosis (9.4%), suicide (7.4%), and diabetes (4.6%). While five of these six 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, 2012-2016



INDUCED ABORTION

There were 1,618 induced abortions performed in Montana in 2016. Of those, 1,397 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 129.9 in 1975 and rose to 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 131.8 in 2016, the second lowest recorded since 1976. 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, 1981-2016

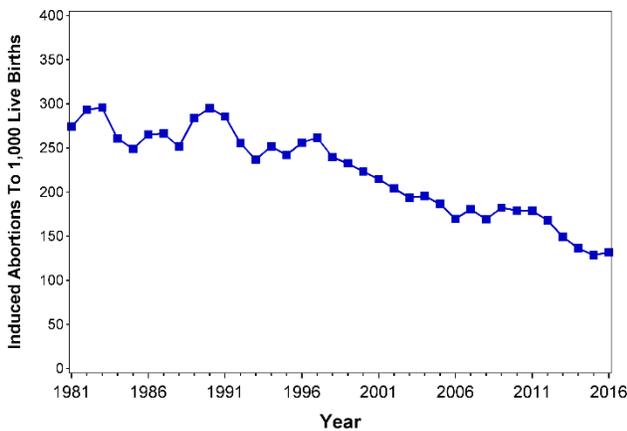


Table A-1 shows the frequency and percent of induced abortions by age of patient and year.

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, 1910-2016

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+
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	8,473	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	8,252	9.1	10,947	12.1	43	3.9	73	6.7	2	±	6,612	7.3	3,735	4.1	2,350	214.9
2000	903,773	8,071	8.9	10,946	12.1	55	5.0	63	5.8	1	±	6,870	7.6	3,694	4.1	2,441	223.4
1999	897,511	8,082	9.0	10,778	12.0	62	5.8	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	76	7.0	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	49	4.5	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	58	5.4	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	67	6.0	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	52	4.7	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	74	6.5	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	84	7.3	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	90	7.8	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	78	6.7	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	86	7.4	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
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

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, 1910-2016

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+
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 Residences
Montana, 2016

County	Live Births		Deaths		Fetal Deaths		Infant Deaths		Maternal Deaths	
	Occ.	Res.	Occ.	Res.	Occ.	Res.	Occ.	Res.	Occ.	Res.
Montana Total	12,279	12,274	9,942	9,902	48	53	65	73	†	†
Beaverhead	88	87	98	96	0	0	†	†	0	0
Big Horn	8	238	91	142	0	†	5	6	0	0
Blaine	†	115	46	74	†	†	0	†	0	0
Broadwater	0	58	54	70	0	0	0	0	0	0
Carbon	†	78	80	106	0	†	†	†	0	0
Carter	0	14	16	16	0	0	0	0	0	0
Cascade	1,485	1,081	1,034	873	†	†	6	5	0	0
Chouteau	0	61	37	63	0	0	0	0	0	0
Custer	263	156	129	135	†	†	0	0	0	0
Daniels	0	18	14	17	0	0	0	0	0	0
Dawson	94	107	82	89	0	0	0	0	0	0
Deer Lodge	225	79	115	141	†	0	0	†	0	0
Fallon	†	45	23	29	0	0	0	0	0	0
Fergus	90	120	145	154	0	0	0	0	0	0
Flathead	1,299	1,146	960	863	8	7	6	†	0	0
Gallatin	1,391	1,254	593	584	†	†	†	6	†	0
Garfield	†	22	8	10	0	0	0	0	0	0
Glacier	146	234	100	140	0	0	†	†	0	0
Golden	0	8	6	14	0	0	0	0	0	0
Granite	†	17	30	36	0	0	0	0	0	0
Hill	403	299	144	153	†	†	5	5	0	0
Jefferson	0	93	48	87	0	†	†	†	0	0
Judith	†	16	10	15	0	0	0	0	0	0
Lake	299	377	233	284	†	†	†	†	0	0
Lewis & Clark	821	787	600	579	†	†	†	†	0	0
Liberty	†	30	17	18	0	0	0	0	0	0
Lincoln	144	177	189	249	0	†	0	†	0	0
McCone	†	21	12	21	0	0	0	0	0	0
Madison	†	69	87	96	0	†	0	0	0	0
Meagher	0	23	14	20	0	0	0	0	0	0
Mineral	†	39	55	61	0	0	0	0	0	0
Missoula	1,692	1,187	1,107	934	8	5	11	8	0	0
Musselshell	0	37	47	59	0	0	0	0	0	0
Park	114	138	137	157	0	0	†	†	0	†
Petroleum	0	†	†	5	0	0	0	0	0	0
Phillips	†	59	33	42	0	†	0	0	0	0
Pondera	†	93	54	78	0	0	0	0	0	0
Powder River	0	17	15	20	0	0	0	0	0	0
Powell	†	49	76	91	0	†	0	0	0	0
Prairie	0	10	20	24	0	0	0	0	0	0
Ravalli	146	380	382	471	†	†	0	†	0	0
Richland	132	160	74	91	0	†	†	†	0	0
Roosevelt	125	242	97	131	†	†	†	†	0	0
Rosebud	14	151	50	80	0	0	0	0	0	0
Sanders	41	108	114	144	0	0	0	0	0	0
Sheridan	†	37	41	48	0	†	0	0	0	0
Silver Bow	276	402	388	404	0	†	0	†	0	0
Stillwater	†	85	74	87	0	0	0	0	0	0
Sweet Grass	†	34	37	47	0	0	0	0	0	0
Teton	†	79	45	74	0	†	0	0	0	0
Toole	34	59	41	48	†	†	0	0	0	0
Treasure	0	9	5	9	0	0	0	0	0	0
Valley	148	89	60	80	0	0	0	0	0	0
Wheatland	0	31	7	16	0	0	0	0	0	0
Wibaux	0	14	13	17	0	0	0	0	0	0
Yellowstone	2,779	1,931	1,951	1,506	12	7	16	13	0	0
Not Stated	0	†	0	†	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, 1989-2016

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
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	10,545	1,591	301	8,570	8,083	454	33	38	31	7	0	76	61	13	†	59	45	13	†
2006	12,499	10,582	1,601	316	8,434	7,917	481	36	49	40	8	†	70	50	19	†	67	56	11	0
2005	11,573	9,839	1,481	253	8,496	8,019	442	35	54	43	10	†	81	66	15	0	70	56	13	†
2004	11,514	9,762	1,508	244	8,079	7,609	437	33	40	30	10	0	53	41	10	†	73	56	15	†
2003	11,384	9,771	1,393	220	8,439	7,973	425	41	55	44	6	5	76	63	11	†	75	62	9	†
2002	11,045	9,467	1,393	185	8,473	8,003	433	37	51	41	9	†	81	66	12	†	70	57	13	0
2001	10,947	9,392	1,363	192	8,252	7,839	385	28	43	30	12	†	73	63	10	0	63	51	11	†
2000	10,946	9,438	1,326	182	8,071	7,668	366	37	55	47	6	†	63	49	13	†	101	81	20	0
1999	10,778	9,353	1,274	151	8,082	7,618	429	35	62	50	9	†	71	54	16	†	78	64	13	†
1998	10,789	9,449	1,172	168	7,985	7,615	345	25	76	66	9	†	82	68	11	†	68	56	11	†
1997	10,838	9,389	1,290	159	7,745	7,386	336	23	49	40	9	0	74	55	18	†	88	77	11	0
1996	10,840	9,471	1,208	161	7,696	7,349	317	30	58	50	7	†	75	63	10	†	81	71	8	†
1995	11,136	9,843	1,140	153	7,626	7,237	360	29	67	61	†	†	79	70	6	†	106	88	17	†
1994	11,062	9,719	1,201	142	7,342	6,979	331	32	52	44	5	†	82	69	11	†	79	67	11	†
1993	11,362	9,970	1,247	145	7,468	7,118	322	28	74	67	7	0	84	68	13	†	89	74	15	0
1992	11,468	9,967	1,355	146	7,073	6,739	308	26	84	71	11	†	85	65	15	5	105	85	18	†

* 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, 1989-2016

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
1991	11,498	10,010	1,363	125	7,004	6,637	339	28	90	77	9	†	82	61	20	†	88	72	16	0
1990	11,602	10,009	1,446	147	6,837	6,483	322	32	78	64	12	†	106	84	21	†	81	70	9	†
1989	11,667	10,157	1,391	119	6,741	6,414	304	23	86	64	21	†	133	97	36	0	94	73	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, 2016

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	1,038,656	-	9,444	-	13,371	-	6,657	-	5,788	-	10,498	-	1,177	-
Natural Increase*	Natural Increase*	2,372	2.3	-9	‡	96	7.2	41	6.2	-12	‡	-28	-2.7	†	‡
Births - Residence	Live Births, Total	12,274	11.8	87	9.2	238	17.8	115	17.3	58	10.0	78	7.4	14	‡
	Live Births, Male	6,299	6.1	43	4.6	126	9.4	59	8.9	28	4.8	33	3.1	10	‡
	Live Births, Female	5,975	5.8	44	4.7	112	8.4	56	8.4	30	5.2	45	4.3	†	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	9,902	9.5	96	10.2	142	10.6	74	11.1	70	12.1	106	10.1	16	‡
	Deaths (Excluding Fetal), Male	5,147	5.0	55	5.8	72	5.4	33	5.0	41	7.1	52	5.0	8	‡
	Deaths (Excluding Fetal), Female	4,755	4.6	41	4.3	70	5.2	41	6.2	29	5.0	54	5.1	8	‡
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	73	5.9	†	‡	6	‡	†	‡	0	‡	†	‡	0	‡
	Neonatal (Under 28 Days)	37	3.0	†	‡	†	‡	†	‡	0	‡	0	‡	0	‡
	Postneonatal (28 Days - 1 Year)	36	2.9	0	‡	†	‡	0	‡	0	‡	†	‡	0	‡
	Fetal	53	4.3	0	‡	†	‡	†	‡	0	‡	†	‡	0	‡
	Perinatal	90	7.3	†	‡	†	‡	†	‡	0	‡	†	‡	0	‡
Leading Causes of Death - Residence**	Heart Diseases	2,134	205.5	19	‡	21	157.1	15	‡	21	362.8	19	‡	7	‡
	Malignant Neoplasms	2,032	195.6	28	296.5	16	‡	16	‡	16	‡	20	190.5	†	‡
	Chronic Lower Respiratory Diseases	722	69.5	†	‡	†	‡	†	‡	†	‡	13	‡	†	‡
	Accidents (Unintentional Injuries)	622	59.9	6	‡	17	‡	7	‡	†	‡	8	‡	0	‡
	Cerebrovascular Diseases	439	42.3	5	‡	6	‡	†	‡	†	‡	†	‡	†	‡
	Alzheimer's Disease	314	30.2	†	‡	†	‡	†	‡	5	‡	6	‡	0	‡
	Diabetes Mellitus	311	29.9	0	‡	21	157.1	†	‡	0	‡	†	‡	0	‡
	Intentional Self-Harm (Suicide)	267	25.7	†	‡	†	‡	†	‡	0	‡	†	‡	0	‡
	Chronic Liver Disease and Cirrhosis	161	15.5	†	‡	7	‡	†	‡	†	‡	†	‡	0	‡
	Nephritis, Nephrotic Syndrome, and Nephrosis	154	14.8	†	‡	†	‡	0	‡	†	‡	†	‡	†	‡
Births - Occurrence	Live Births, Total	12,279	11.8	88	9.3	8	‡	†	‡	0	‡	†	‡	0	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	9,942	9.6	98	10.4	91	6.8	46	6.9	54	9.3	80	7.6	16	‡
	Motor Vehicle Accidents	209	0.2	†	‡	17	‡	†	‡	0	‡	†	‡	0	‡
	Non-Motor Vehicle Accidents	436	0.4	†	‡	†	‡	†	‡	†	‡	6	‡	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	65	5.3	†	‡	5	‡	0	‡	0	‡	†	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	8,167	7.9	66	7.0	70	5.2	28	4.2	35	6.0	176	16.8	8	‡
	Licenses Issued	8,167	7.9	70	7.4	74	5.5	28	4.2	25	4.3	121	11.5	8	‡
Marital Terminations - Occurrence	Marital Terminations	3,237	3.1	24	2.5	14	‡	†	‡	18	‡	24	2.3	†	‡

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

** Out of wedlock births, infant deaths, and fetal deaths are per 1,000 live births.

*** 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, 2016

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	81,488	-	5,794	-	11,821	-	1,734	-	9,243	-	9,069	-	3,091	-
Natural Increase*	Natural Increase*	208	2.6	†	‡	21	1.8	†	‡	18	‡	-62	-6.8	16	‡
Births - Residence	Live Births, Total	1,081	13.3	61	10.5	156	13.2	18	‡	107	11.6	79	8.7	45	14.6
	Live Births, Male	546	6.7	36	6.2	83	7.0	11	‡	54	5.8	36	4.0	25	8.1
	Live Births, Female	535	6.6	25	4.3	73	6.2	7	‡	53	5.7	43	4.7	20	6.5
Deaths - Residence	Deaths (Excluding Fetal), Total	873	10.7	63	10.9	135	11.4	17	‡	89	9.6	141	15.5	29	9.4
	Deaths (Excluding Fetal), Male	439	5.4	37	6.4	76	6.4	†	‡	50	5.4	78	8.6	15	‡
	Deaths (Excluding Fetal), Female	434	5.3	26	4.5	59	5.0	14	‡	39	4.2	63	6.9	14	‡
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	5	‡	0	‡	0	‡	0	‡	0	‡	†	‡	0	‡
	Neonatal (Under 28 Days)	†	‡	0	‡	0	‡	0	‡	0	‡	†	‡	0	‡
	Postneonatal (28 Days - 1 Year)	†	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
	Fetal	†	‡	0	‡	†	‡	0	‡	0	‡	0	‡	0	‡
	Perinatal	5	‡	0	‡	†	‡	0	‡	0	‡	†	‡	0	‡
Leading Causes of Death - Residence**	Heart Diseases	171	209.8	19	‡	20	169.2	†	‡	14	‡	33	363.9	6	‡
	Malignant Neoplasms	168	206.2	11	‡	33	279.2	†	‡	17	‡	33	363.9	†	‡
	Chronic Lower Respiratory Diseases	88	108.0	5	‡	9	‡	†	‡	5	‡	15	‡	†	‡
	Accidents (Unintentional Injuries)	39	47.9	†	‡	7	‡	†	‡	†	‡	7	‡	†	‡
	Cerebrovascular Diseases	39	47.9	†	‡	6	‡	†	‡	7	‡	†	‡	†	‡
	Alzheimer's Disease	43	52.8	†	‡	†	‡	†	‡	†	‡	†	‡	0	‡
	Diabetes Mellitus	29	35.6	†	‡	5	‡	†	‡	†	‡	†	‡	†	‡
	Intentional Self-Harm (Suicide)	18	‡	†	‡	6	‡	†	‡	0	‡	8	‡	†	‡
	Chronic Liver Disease and Cirrhosis	11	‡	0	‡	5	‡	0	‡	†	‡	†	‡	0	‡
	Nephritis, Nephrotic Syndrome, and Nephrosis	17	‡	†	‡	†	‡	0	‡	†	‡	†	‡	†	‡
Births - Occurrence	Live Births, Total	1,485	18.2	0	‡	263	22.2	0	‡	94	10.2	225	24.8	†	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	1,034	12.7	37	6.4	129	10.9	14	‡	82	8.9	115	12.7	23	7.4
	Motor Vehicle Accidents	15	‡	†	‡	†	‡	0	‡	†	‡	†	‡	0	‡
	Non-Motor Vehicle Accidents	40	0.5	†	‡	7	‡	†	‡	†	‡	6	‡	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	6	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	591	7.3	36	6.2	59	5.0	8	‡	47	5.1	57	6.3	6	‡
	Licenses Issued	642	7.9	17	‡	59	5.0	10	‡	49	5.3	40	4.4	9	‡
Marital Terminations - Occurrence	Marital Terminations	332	4.1	10	‡	44	3.7	†	‡	†	‡	15	‡	6	‡

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

** Out of wedlock births, infant deaths, and fetal deaths are per 1,000 live births.

*** 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.

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Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2016

Item		Fergus		Flathead		Gallatin		Garfield		Glacier		Golden		Granite	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	11,300	-	97,693	-	104,072	-	1,308	-	13,669	-	815	-	3,292	-
Natural Increase*	Natural Increase*	-34	-3	283	2.9	670	6.4	12	‡	94	6.9	-6	‡	-19	‡
Births - Residence	Live Births, Total	120	10.6	1,146	11.7	1,254	12.0	22	16.8	234	17.1	8	‡	17	‡
	Live Births, Male	59	5.2	601	6.2	647	6.2	11	‡	117	8.6	5	‡	7	‡
	Live Births, Female	61	5.4	545	5.6	607	5.8	11	‡	117	8.6	†	‡	10	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	154	13.6	863	8.8	584	5.6	10	‡	140	10.2	14	‡	36	10.9
	Deaths (Excluding Fetal), Male	77	6.8	466	4.8	277	2.7	5	‡	91	6.7	9	‡	16	‡
	Deaths (Excluding Fetal), Female	77	6.8	397	4.1	307	2.9	5	‡	49	3.6	5	‡	20	6.1
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	0	‡	†	‡	6	‡	0	‡	†	‡	0	‡	0	‡
	Neonatal (Under 28 Days)	0	‡	†	‡	5	‡	0	‡	†	‡	0	‡	0	‡
	Postneonatal (28 Days - 1 Year)	0	‡	†	‡	†	‡	0	‡	†	‡	0	‡	0	‡
	Fetal	0	‡	7	‡	†	‡	0	‡	0	‡	0	‡	0	‡
	Perinatal	0	‡	8	‡	7	‡	0	‡	†	‡	0	‡	0	‡
Leading Causes of Death - Residence**	Heart Diseases	35	309.7	175	179.1	125	120.1	†	‡	29	212.2	5	‡	7	‡
	Malignant Neoplasms	22	194.7	174	178.1	121	116.3	†	‡	21	153.6	†	‡	8	‡
	Chronic Lower Respiratory Diseases	13	‡	60	61.4	34	32.7	0	‡	7	‡	†	‡	0	‡
	Accidents (Unintentional Injuries)	8	‡	54	55.3	27	25.9	†	‡	11	‡	0	‡	†	‡
	Cerebrovascular Diseases	10	‡	42	43.0	26	25.0	†	‡	6	‡	†	‡	0	‡
	Alzheimer's Disease	11	‡	18	‡	12	‡	0	‡	†	‡	0	‡	†	‡
	Diabetes Mellitus	7	‡	19	‡	7	‡	†	‡	16	‡	0	‡	†	‡
	Intentional Self-Harm (Suicide)	†	‡	25	25.6	27	25.9	0	‡	†	‡	0	‡	0	‡
	Chronic Liver Disease and Cirrhosis	†	‡	12	‡	6	‡	†	‡	8	‡	0	‡	†	‡
	Nephritis, Nephrotic Syndrome, and Nephrosis	†	‡	20	20.5	5	‡	0	‡	†	‡	0	‡	5	‡
Births - Occurrence	Live Births, Total	90	8.0	1,299	13.3	1,391	13.4	†	‡	146	10.7	0	‡	†	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	145	12.8	960	9.8	593	5.7	8	‡	100	7.3	6	‡	30	9.1
	Motor Vehicle Accidents	†	‡	21	0.2	13	‡	†	‡	8	‡	0	‡	†	‡
	Non-Motor Vehicle Accidents	†	‡	35	0.4	16	‡	0	‡	5	‡	0	‡	0	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	0	‡	6	‡	†	‡	0	‡	†	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	58	5.1	1,927	19.7	876	8.4	9	‡	85	6.2	†	‡	35	10.6
	Licenses Issued	70	6.2	1,927	19.7	945	9.1	9	‡	61	4.5	†	‡	23	7.0
Marital Terminations - Occurrence	Marital Terminations	32	2.8	449	4.6	253	2.4	0	‡	37	2.7	0	‡	†	‡

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

** Out of wedlock births, infant deaths, and fetal deaths are per 1,000 live births.

*** 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, 2016

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	16,446	-	11,770	-	1,949	-	29,711	-	66,792	-	2,428	-	19,230	-
Natural Increase*	Natural Increase*	146	8.9	6	‡	†	‡	93	3.1	208	3.1	12	‡	-72	-3.7
Births - Residence	Live Births, Total	299	18.2	93	7.9	16	‡	377	12.7	787	11.8	30	12.4	177	9.2
	Live Births, Male	131	8.0	48	4.1	7	‡	193	6.5	411	6.2	15	‡	97	5.0
	Live Births, Female	168	10.2	45	3.8	9	‡	184	6.2	376	5.6	15	‡	80	4.2
Deaths - Residence	Deaths (Excluding Fetal), Total	153	9.3	87	7.4	15	‡	284	9.6	579	8.7	18	‡	249	12.9
	Deaths (Excluding Fetal), Male	80	4.9	49	4.2	5	‡	146	4.9	309	4.6	7	‡	147	7.6
	Deaths (Excluding Fetal), Female	73	4.4	38	3.2	10	‡	138	4.6	270	4.0	11	‡	102	5.3
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	5	‡	†	‡	0	‡	†	‡	†	‡	0	‡	†	‡
	Neonatal (Under 28 Days)	†	‡	†	‡	0	‡	0	‡	†	‡	0	‡	†	‡
	Postneonatal (28 Days - 1 Year)	†	‡	0	‡	0	‡	†	‡	†	‡	0	‡	0	‡
	Fetal	†	‡	†	‡	0	‡	†	‡	†	‡	0	‡	†	‡
Leading Causes of Death - Residence**	Perinatal	†	‡	†	‡	0	‡	†	‡	5	‡	0	‡	†	‡
	Heart Diseases	33	200.7	22	186.9	†	‡	74	249.1	119	178.2	†	‡	73	379.6
	Malignant Neoplasms	35	212.8	23	195.4	†	‡	51	171.7	122	182.7	†	‡	55	286.0
	Chronic Lower Respiratory Diseases	12	‡	†	‡	†	‡	22	74.0	40	59.9	†	‡	13	‡
	Accidents (Unintentional Injuries)	10	‡	8	‡	0	‡	21	70.7	48	71.9	†	‡	10	‡
	Cerebrovascular Diseases	†	‡	†	‡	0	‡	17	‡	21	31.4	†	‡	11	‡
	Alzheimer's Disease	0	‡	0	‡	†	‡	5	‡	18	‡	†	‡	†	‡
	Diabetes Mellitus	†	‡	†	‡	†	‡	8	‡	13	‡	†	‡	9	‡
	Intentional Self-Harm (Suicide)	†	‡	†	‡	0	‡	7	‡	15	‡	†	‡	6	‡
	Chronic Liver Disease and Cirrhosis	7	‡	†	‡	†	‡	5	‡	10	‡	†	‡	5	‡
Nephritis, Nephrotic Syndrome, and Nephrosis	†	‡	†	‡	0	‡	7	‡	†	‡	0	‡	†	‡	
Births - Occurrence	Live Births, Total	403	24.5	0	‡	†	‡	299	10.1	821	12.3	†	‡	144	7.5
Deaths - Occurrence	Deaths (Excluding Fetal), Total	144	8.8	48	4.1	10	‡	233	7.8	600	9.0	17	‡	189	9.8
	Motor Vehicle Accidents	0	‡	0	‡	†	‡	5	‡	†	‡	0	‡	†	‡
	Non-Motor Vehicle Accidents	10	‡	†	‡	0	‡	10	‡	40	0.6	†	‡	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	5	‡	†	‡	0	‡	†	‡	†	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	89	5.4	65	5.5	10	‡	203	6.8	432	6.5	5	‡	125	6.5
	Licenses Issued	98	6.0	20	1.7	10	‡	130	4.4	504	7.5	6	‡	94	4.9
Marital Terminations - Occurrence	Marital Terminations	35	2.1	18	‡	7	‡	66	2.2	242	3.6	†	‡	58	3.0

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

** Out of wedlock births, infant deaths, and fetal deaths are per 1,000 live births.

*** 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.

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Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2016

Item		McCone		Madison		Meagher		Mineral		Missoula		Musselshell		Park	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	1,739	-	7,969	-	1,842	-	4,125	-	115,896	-	4,636	-	16,098	-
Natural Increase*	Natural Increase*	0	‡	-27	-3.4	†	‡	-22	-5.3	253	2.2	-22	-4.7	-19	‡
Births - Residence	Live Births, Total	21	12.1	69	8.7	23	12.5	39	9.5	1,187	10.2	37	8.0	138	8.6
	Live Births, Male	9	‡	36	4.5	6	‡	17	‡	606	5.2	16	‡	64	4.0
	Live Births, Female	12	‡	33	4.1	17	‡	22	5.3	581	5.0	21	4.5	74	4.6
Deaths - Residence	Deaths (Excluding Fetal), Total	21	12.1	96	12.0	20	10.9	61	14.8	934	8.1	59	12.7	157	9.8
	Deaths (Excluding Fetal), Male	11	‡	44	5.5	10	‡	33	8.0	464	4.0	25	5.4	86	5.3
	Deaths (Excluding Fetal), Female	10	‡	52	6.5	10	‡	28	6.8	470	4.1	34	7.3	71	4.4
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	0	‡	0	‡	0	‡	0	‡	8	‡	0	‡	†	‡
	Neonatal (Under 28 Days)	0	‡	0	‡	0	‡	0	‡	†	‡	0	‡	†	‡
	Postneonatal (28 Days - 1 Year)	0	‡	0	‡	0	‡	0	‡	5	‡	0	‡	†	‡
	Fetal	0	‡	†	‡	0	‡	0	‡	5	‡	0	‡	0	‡
	Perinatal	0	‡	†	‡	0	‡	0	‡	8	‡	0	‡	†	‡
Leading Causes of Death - Residence**	Heart Diseases	9	‡	21	263.5	5	‡	15	‡	198	170.8	14	‡	25	155.3
	Malignant Neoplasms	†	‡	15	‡	†	‡	26	630.3	197	170.0	17	‡	44	273.3
	Chronic Lower Respiratory Diseases	†	‡	11	‡	†	‡	†	‡	66	56.9	†	‡	15	‡
	Accidents (Unintentional Injuries)	†	‡	7	‡	†	‡	†	‡	69	59.5	7	‡	11	‡
	Cerebrovascular Diseases	0	‡	†	‡	†	‡	†	‡	37	31.9	†	‡	9	‡
	Alzheimer's Disease	†	‡	6	‡	0	‡	0	‡	40	34.5	†	‡	9	‡
	Diabetes Mellitus	0	‡	†	‡	0	‡	†	‡	28	24.2	0	‡	†	‡
	Intentional Self-Harm (Suicide)	†	‡	†	‡	†	‡	†	‡	33	28.5	†	‡	†	‡
	Chronic Liver Disease and Cirrhosis	0	‡	0	‡	0	‡	†	‡	8	‡	†	‡	†	‡
	Nephritis, Nephrotic Syndrome, and Nephrosis	0	‡	†	‡	0	‡	†	‡	13	‡	0	‡	†	‡
Births - Occurrence	Live Births, Total	†	‡	†	‡	0	‡	†	‡	1,692	14.6	0	‡	114	7.1
Deaths - Occurrence	Deaths (Excluding Fetal), Total	12	‡	87	10.9	14	‡	55	13.3	1,107	9.6	47	10.1	137	8.5
	Motor Vehicle Accidents	0	‡	†	‡	†	‡	†	‡	26	0.2	†	‡	†	‡
	Non-Motor Vehicle Accidents	0	‡	†	‡	0	‡	†	‡	59	0.5	5	‡	13	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	0	‡	0	‡	0	‡	0	‡	11	‡	0	‡	†	‡
Marriages - Occurrence	Marriages Solemnized	12	‡	95	11.9	16	‡	41	9.9	656	5.7	39	8.4	184	11.4
	Licenses Issued	11	‡	50	6.3	10	‡	23	5.6	781	6.7	27	5.8	140	8.7
Marital Terminations - Occurrence	Marital Terminations	†	‡	19	‡	0	‡	11	‡	422	3.6	13	‡	76	4.7

* 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, 2016

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	498	-	4,116	-	6,028	-	1,752	-	6,848	-	1,166	-	41,876	-
Natural Increase*	Natural Increase*	†	‡	17	‡	15	‡	†	‡	-42	-6.1	-14	‡	-91	-2.2
Births - Residence	Live Births, Total	†	‡	59	14.3	93	15.4	17	‡	49	7.2	10	‡	380	9.1
	Live Births, Male	†	‡	25	6.1	50	8.3	13	‡	28	4.1	5	‡	207	4.9
	Live Births, Female	-	-	34	8.3	43	7.1	†	‡	21	3.1	5	‡	173	4.1
Deaths - Residence	Deaths (Excluding Fetal), Total	5	‡	42	10.2	78	12.9	20	11.4	91	13.3	24	20.6	471	11.2
	Deaths (Excluding Fetal), Male	†	‡	27	6.6	35	5.8	11	‡	53	7.7	11	‡	261	6.2
	Deaths (Excluding Fetal), Female	†	‡	15	‡	43	7.1	9	‡	38	5.5	13	‡	210	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	‡	†	‡
Leading Causes of Death - Residence**	Perinatal	0	‡	†	‡	0	‡	0	‡	†	‡	0	‡	†	‡
	Heart Diseases	†	‡	†	‡	16	‡	6	‡	30	438.1	†	‡	87	207.8
	Malignant Neoplasms	†	‡	8	‡	13	‡	†	‡	16	‡	6	‡	112	267.5
	Chronic Lower Respiratory Diseases	0	‡	9	‡	8	‡	0	‡	†	‡	†	‡	27	64.5
	Accidents (Unintentional Injuries)	†	‡	†	‡	5	‡	†	‡	9	‡	†	‡	32	76.4
	Cerebrovascular Diseases	0	‡	†	‡	5	‡	0	‡	†	‡	5	‡	18	‡
	Alzheimer's Disease	0	‡	†	‡	0	‡	0	‡	†	‡	†	‡	15	‡
	Diabetes Mellitus	0	‡	†	‡	†	‡	†	‡	5	‡	†	‡	19	‡
	Intentional Self-Harm (Suicide)	0	‡	0	‡	†	‡	0	‡	0	‡	†	‡	12	‡
	Chronic Liver Disease and Cirrhosis	0	‡	0	‡	†	‡	0	‡	0	‡	†	‡	6	‡
Nephritis, Nephrotic Syndrome, and Nephrosis	0	‡	†	‡	0	‡	0	‡	†	‡	0	‡	7	‡	
Births - Occurrence	Live Births, Total	0	‡	†	‡	†	‡	0	‡	†	‡	0	‡	146	3.5
Deaths - Occurrence	Deaths (Excluding Fetal), Total	†	‡	33	8.0	54	9.0	15	‡	76	11.1	20	17.2	382	9.1
	Motor Vehicle Accidents	†	‡	†	‡	0	‡	0	‡	†	‡	0	‡	†	‡
	Non-Motor Vehicle Accidents	0	‡	†	‡	†	‡	†	‡	†	‡	0	‡	15	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	0	‡	20	4.9	21	3.5	10	‡	32	4.7	6	‡	288	6.9
	Licenses Issued	0	‡	23	5.6	24	4.0	14	‡	33	4.8	9	‡	232	5.5
Marital Terminations - Occurrence	Marital Terminations	0	‡	12	‡	10	‡	5	‡	12	‡	0	‡	127	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, 2016

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	11,408	-	11,219	-	9,265	-	11,466	-	3,596	-	34,467	-	9,367	-
Natural Increase*	Natural Increase*	69	6.0	111	9.9	71	7.7	-36	-3.1	-11	‡	‡	‡	‡	‡
Births - Residence	Live Births, Total	160	14.0	242	21.6	151	16.3	108	9.4	37	10.3	402	11.7	85	9.1
	Live Births, Male	79	6.9	125	11.1	81	8.7	57	5.0	20	5.6	216	6.3	44	4.7
	Live Births, Female	81	7.1	117	10.4	70	7.6	51	4.4	17	‡	186	5.4	41	4.4
Deaths - Residence	Deaths (Excluding Fetal), Total	91	8.0	131	11.7	80	8.6	144	12.6	48	13.3	404	11.7	87	9.3
	Deaths (Excluding Fetal), Male	44	3.9	71	6.3	46	5.0	87	7.6	20	5.6	199	5.8	42	4.5
	Deaths (Excluding Fetal), Female	47	4.1	60	5.3	34	3.7	57	5.0	28	7.8	205	5.9	45	4.8
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	†	‡	†	‡	0	‡	0	‡	0	‡	†	‡	0	‡
	Neonatal (Under 28 Days)	†	‡	0	‡	0	‡	0	‡	0	‡	†	‡	0	‡
	Postneonatal (28 Days - 1 Year)	0	‡	†	‡	0	‡	0	‡	0	‡	0	‡	0	‡
	Fetal	†	‡	†	‡	0	‡	0	‡	†	‡	†	‡	0	‡
Leading Causes of Death - Residence**	Perinatal	†	‡	†	‡	0	‡	0	‡	†	‡	†	‡	0	‡
	Heart Diseases	13	‡	27	240.7	17	‡	42	366.3	11	‡	88	255.3	26	277.6
	Malignant Neoplasms	20	175.3	16	‡	15	‡	38	331.4	6	‡	79	229.2	22	234.9
	Chronic Lower Respiratory Diseases	10	‡	†	‡	5	‡	9	‡	†	‡	32	92.8	†	‡
	Accidents (Unintentional Injuries)	†	‡	11	‡	12	‡	8	‡	†	‡	20	58.0	6	‡
	Cerebrovascular Diseases	†	‡	7	‡	†	‡	6	‡	†	‡	13	‡	†	‡
	Alzheimer's Disease	†	‡	†	‡	†	‡	†	‡	†	‡	22	63.8	†	‡
	Diabetes Mellitus	†	‡	13	‡	†	‡	†	‡	†	‡	15	‡	0	‡
	Intentional Self-Harm (Suicide)	5	‡	†	‡	†	‡	†	‡	0	‡	12	‡	0	‡
	Chronic Liver Disease and Cirrhosis	†	‡	8	‡	†	‡	†	‡	†	‡	5	‡	0	‡
	Nephritis, Nephrotic Syndrome, and Nephrosis	†	‡	5	‡	†	‡	†	‡	0	‡	5	‡	†	‡
Births - Occurrence	Live Births, Total	132	11.6	125	11.1	14	‡	41	3.6	†	‡	276	8.0	†	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	74	6.5	97	8.6	50	5.4	114	9.9	41	11.4	388	11.3	74	7.9
	Motor Vehicle Accidents	†	‡	†	‡	6	‡	†	‡	0	‡	†	‡	6	‡
	Non-Motor Vehicle Accidents	†	‡	8	‡	†	‡	†	‡	†	‡	17	‡	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	†	‡	†	‡	0	‡	0	‡	0	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	57	5.0	48	4.3	30	3.2	75	6.5	12	‡	191	5.5	65	6.9
	Licenses Issued	79	6.9	44	3.9	32	3.5	59	5.1	15	‡	222	6.4	50	5.3
Marital Terminations - Occurrence	Marital Terminations	20	1.8	12	‡	16	‡	29	2.5	8	‡	124	3.6	0	‡

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

** Out of wedlock births, infant deaths, and fetal deaths are per 1,000 live births.

*** 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, 2016

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	3,628	-	6,012	-	4,961	-	685	-	7,537	-	2,111	-	1,047	-
Natural Increase*	Natural Increase*	-13	‡	5	‡	11	‡	0	‡	9	‡	15	‡	†	‡
Births - Residence	Live Births, Total	34	9.4	79	13.1	59	11.9	9	‡	89	11.8	31	14.7	14	‡
	Live Births, Male	20	5.5	38	6.3	29	5.8	7	‡	47	6.2	19	‡	6	‡
	Live Births, Female	14	‡	41	6.8	30	6.0	†	‡	42	5.6	12	‡	8	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	47	13.0	74	12.3	48	9.7	9	‡	80	10.6	16	‡	17	‡
	Deaths (Excluding Fetal), Male	33	9.1	43	7.2	24	4.8	6	‡	39	5.2	9	‡	9	‡
	Deaths (Excluding Fetal), Female	14	‡	31	5.2	24	4.8	†	‡	41	5.4	7	‡	8	‡
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
	Neonatal (Under 28 Days)	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
	Postneonatal (28 Days - 1 Year)	0	‡	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	13	‡	20	332.7	11	‡	†	‡	29	384.8	6	‡	†	‡
	Malignant Neoplasms	11	‡	14	‡	12	‡	†	‡	18	‡	†	‡	0	‡
	Chronic Lower Respiratory Diseases	†	‡	6	‡	5	‡	0	‡	†	‡	0	‡	0	‡
	Accidents (Unintentional Injuries)	†	‡	9	‡	†	‡	†	‡	†	‡	†	‡	†	‡
	Cerebrovascular Diseases	†	‡	†	‡	†	‡	0	‡	†	‡	†	‡	0	‡
	Alzheimer's Disease	0	‡	†	‡	†	‡	0	‡	†	‡	0	‡	0	‡
	Diabetes Mellitus	†	‡	0	‡	†	‡	0	‡	†	‡	0	‡	†	‡
	Intentional Self-Harm (Suicide)	†	‡	0	‡	5	‡	0	‡	†	‡	0	‡	†	‡
	Chronic Liver Disease and Cirrhosis	0	‡	†	‡	0	‡	0	‡	†	‡	0	‡	0	‡
Nephritis, Nephrotic Syndrome, and Nephrosis	0	‡	†	‡	†	‡	0	‡	†	‡	0	‡	0	‡	
Births - Occurrence	Live Births, Total	†	‡	†	‡	34	6.9	0	‡	148	19.6	0	‡	0	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	37	10.2	45	7.5	41	8.3	5	‡	60	8.0	7	‡	13	‡
	Motor Vehicle Accidents	†	‡	0	‡	†	‡	†	‡	0	‡	0	‡	0	‡
	Non-Motor Vehicle Accidents	†	‡	5	‡	†	‡	0	‡	0	‡	0	‡	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡	0	‡
Marriages - Occurrence	Marriages Solemnized	25	6.9	26	4.3	22	4.4	†	‡	54	7.2	21	9.9	†	‡
	Licenses Issued	26	7.2	18	‡	20	4.0	†	‡	49	6.5	16	‡	†	‡
Marital Terminations - Occurrence	Marital Terminations	5	‡	16	‡	16	‡	0	‡	11	‡	†	‡	†	‡

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

** Out of wedlock births, infant deaths, and fetal deaths are per 1,000 live births.

*** 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.

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Table S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2016

Item		Yellowstone	
		Number	Rate
Population	Population	157,648	-
Natural Increase*	Natural Increase*	425	2.7
Births - Residence	Live Births, Total	1,931	12.2
	Live Births, Male	988	6.3
	Live Births, Female	943	6.0
Deaths - Residence	Deaths (Excluding Fetal), Total	1,506	9.6
	Deaths (Excluding Fetal), Male	754	4.8
	Deaths (Excluding Fetal), Female	752	4.8
Infant Mortality & Fetal Death Residence**	Infant Deaths (Under 1 Year)	13	‡
	Neonatal (Under 28 Days)	6	‡
	Postneonatal (28 Days - 1 Year)	7	‡
	Fetal	7	‡
	Perinatal	13	‡
Leading Causes of Death - Residence**	Heart Diseases	322	204.3
	Malignant Neoplasms	301	190.9
	Chronic Lower Respiratory Diseases	129	81.8
	Accidents (Unintentional Injuries)	77	48.8
	Cerebrovascular Diseases	77	48.8
	Alzheimer's Disease	45	28.5
	Diabetes Mellitus	31	19.7
	Intentional Self-Harm (Suicide)	39	24.7
	Chronic Liver Disease and Cirrhosis	25	15.9
	Nephritis, Nephrotic Syndrome, and Nephrosis	16	‡
Births - Occurrence	Live Births, Total	2,779	17.6
Deaths - Occurrence	Deaths (Excluding Fetal), Total	1,951	12.4
	Motor Vehicle Accidents	31	0.2
	Non-Motor Vehicle Accidents	77	0.5
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	16	‡
Marriages - Occurrence	Marriages Solemnized	1,006	6.4
	Licenses Issued	1,101	7.0
Marital Terminations - Occurrence	Marital Terminations	568	3.6

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

** Out of wedlock births, infant deaths, and fetal deaths are per 1,000 live births.

*** 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, 1990-2016

Year			Age						
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stated
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
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

* 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, 1990-2016

Year			Age						
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stated
2010	Live Births	Number							
		Rate*	12,058	1,141	3,137	3,624	2,772	1,383	†
	Fetal Deaths	Number	67.0	35.5	96.8	116.8	96.4	24.8	‡
		Rate*	52	10	11	12	13	6	0
	Induced Abortions	Number	0.2	‡	‡	‡	‡	‡	0
		Rate*	1,892	308	675	443	244	222	0
2009	Live Births	Number	10.5	9.6	20.8	14.2	8.4	3.9	0
		Rate*	12,280	1,267	3,318	3,769	2,624	1,302	0
	Fetal Deaths	Number	68.2	38.4	102.5	123.9	94.0	23.1	0
		Rate*	58	7	10	14	15	11	0
	Induced Abortions	Number	0.3	‡	‡	‡	‡	‡	0
		Rate*	1,946	363	659	471	241	212	0
2008	Live Births	Number	10.8	11.0	20.3	15.4	8.6	3.7	0
		Rate*	12,595	1,321	3,458	3,884	2,605	1,327	0
	Fetal Deaths	Number	69.5	39.2	105.3	131.1	96.8	22.8	0
		Rate*	39	9	†	5	6	15	0
	Induced Abortions	Number	0.2	‡	‡	‡	‡	‡	0
		Rate*	1,916	370	688	427	240	190	0
2007	Live Births	Number	10.5	10.9	20.9	14.4	8.9	3.2	0
		Rate*	12,437	1,207	3,486	3,756	2,555	1,433	0
	Fetal Deaths	Number	68.7	35.4	106.0	132.0	98.2	24.0	0
		Rate*	38	6	†	12	7	9	0
	Induced Abortions	Number	0.2	‡	‡	‡	‡	‡	0
		Rate*	1,977	374	732	423	224	224	0
2006	Live Births	Number	10.9	10.9	22.2	14.8	8.6	3.7	0
		Rate*	12,499	1,289	3,528	3,728	2,515	1,439	0
	Fetal Deaths	Number	69.1	37.7	103.9	141.9	97.3	23.7	0
		Rate*	49	6	9	13	10	11	0
	Induced Abortions	Number	0.2	‡	‡	‡	‡	‡	0
		Rate*	1,960	385	732	413	212	217	0
2005	Live Births	Number	10.8	11.2	21.5	15.7	8.2	3.5	0
		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	0.2	‡	‡	‡	‡	‡	0
		Rate*	1,981	428	691	385	263	213	0
		Rate*	10.9	12.4	20.6	15.3	10.0	3.4	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, 1990-2016

Year			Age						
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stated
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	2,089	420	733	446	230	259	0
		Rate*	11.5	12.2	22.5	18.2	8.7	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	2,052	456	689	381	271	255	0
		Rate*	11.2	13.1	22.8	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	43	7	11	8	9	6	†
		Rate*	0.2	‡	‡	‡	‡	‡	‡
	Induced Abortions	Number	2,082	480	702	355	265	273	7
		Rate*	11.3	13.5	24.4	15.0	10.1	3.9	‡
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	55	9	17	13	10	6	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
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	62	†	17	22	12	7	0
		Rate*	0.3	‡	‡	0.8	‡	‡	0
	Induced Abortions	Number	2,139	549	659	407	244	278	0
		Rate*	11.4	15.8	23.6	16.6	9.3	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, 1990-2016

Year			Age						
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stated
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	76	13	14	24	9	15	†
		Rate*	0.4	‡	‡	0.9	‡	‡	‡
	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	49	6	20	12	†	8	0
		Rate*	0.2	‡	0.7	‡	‡	‡	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	58	10	9	13	12	14	0
		Rate*	0.3	‡	‡	‡	‡	‡	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	67	11	7	17	21	10	0
		Rate*	0.3	‡	‡	‡	0.6	‡	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	52	6	11	13	13	8	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
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	74	9	20	21	13	10	†
		Rate*	0.4	‡	0.7	0.8	‡	‡	‡
	Induced Abortions	Number	2,269	570	733	405	309	251	†
		Rate*	12.4	18.7	28.7	16.9	9.5	3.5	‡

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

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† 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, 1990-2016

Year			Age						
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stated
1992	Live Births	Number							
		Rate*	11,468	1,368	3,096	3,336	2,519	1,149	0
	Fetal Deaths	Number	63.9	46.8	125.6	134.6	76.4	16.9	0
		Rate*	84	†	21	25	21	13	0
	Induced Abortions	Number	0.4	‡	0.8	1.0	0.6	‡	0
		Rate*	2,417	601	740	426	376	274	0
1991	Live Births	Number	13.4	20.5	30.0	17.1	11.4	4.0	0
		Rate*	11,498	1,331	3,197	3,379	2,456	1,134	†
	Fetal Deaths	Number	64.7	47.4	133.3	129.0	73.3	17.1	‡
		Rate*	90	15	14	23	22	15	†
	Induced Abortions	Number	0.5	‡	‡	0.8	0.6	‡	‡
		Rate*	2,376	600	767	443	325	241	0
1990	Live Births	Number	13.3	21.4	31.9	16.9	9.7	3.6	0
		Rate*	11,602	1,344	3,070	3,669	2,481	1,038	0
	Fetal Deaths	Number	65.9	48.7	130.4	131.4	72.9	16.4	0
		Rate*	78	6	19	21	15	17	0
	Induced Abortions	Number	0.4	‡	‡	0.7	‡	‡	0
		Rate*	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, 2002-2016

County	Year														
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Montana Total	911,667	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
Beaverhead	9,018	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
Big Horn	12,713	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
Blaine	6,769	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
Broadwater	4,478	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
Carbon	9,714	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
Carter	1,319	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
Cascade	79,848	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
Chouteau	5,811	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
Custer	11,510	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
Daniels	1,912	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
Dawson	8,801	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
Deer Lodge	9,238	9,189	9,274	9,274	9,180	9,264	9,351	9,260	9,289	9,213	9,254	9,118	9,108	9,069	
Fallon	2,725	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
Fergus	11,666	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
Flathead	77,583	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
Gallatin	71,824	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
Garfield	1,258	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
Glacier	13,101	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
Golden	1,012	981	1,001	1,014	973	964	890	897	879	830	827	846	841	818	815
Granite	2,919	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
Hill	16,139	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
Jefferson	10,181	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
Judith	2,246	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
Lake	26,814	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
Lewis & Clark	56,271	57,110	58,041	58,529	59,529	60,646	61,747	62,671	63,565	64,242	64,722	65,140	65,605	66,138	66,792
Liberty	2,144	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
Lincoln	18,669	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
McCone	1,828	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
Madison	6,935	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
Meagher	1,895	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
Mineral	3,837	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
Missoula	98,968	99,976	100,934	102,298	104,372	106,110	107,747	108,717	109,432	110,172	111,016	111,575	112,462	113,780	115,896
Musselshell	4,353	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
Park	15,676	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
Petroleum	506	506	519	492	495	470	481	488	495	496	510	510	494	480	498
Phillips	4,383	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
Pondera	6,285	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
Powder River	1,834	1,837	1,789	1,739	1,794	1,761	1,756	1,738	1,739	1,738	1,753	1,753	1,777	1,767	1,752
Powell	6,986	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
Prairie	1,173	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
Ravalli	37,308	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
Richland	9,286	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
Roosevelt	10,389	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
Rosebud	9,196	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
Sanders	10,466	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
Sheridan	3,825	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
Silver Bow	33,636	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
Stillwater	8,441	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
Sweet Grass	3,617	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
Teton	6,286	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
Toole	5,184	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
Treasure	793	784	799	766	759	748	754	720	718	713	722	693	689	685	685
Valley	7,512	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
Wheatland	2,193	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
Wibaux	1,028	1,020	1,019	995	984	1,014	986	1,030	1,008	981	1,034	1,101	1,085	1,072	1,047
Yellowstone	132,165	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

National Center for Health Statistics. Vintage 2016 postcensal estimates of the resident population of the United States (April 1, 2010, July 1, 2010-July 1, 2016), by year, county, single-year of age (0, 1, 2, ..., 85 years and over), bridged race, Hispanic origin, and sex. Prepared under a collaborative arrangement with the U.S. Census Bureau. Available from the [National Vital Statistics System](#) as of June 26, 2017, following release by the U.S. Census Bureau of the unbridged Vintage 2016 postcensal estimates by 5-year age group on June 22, 2017.

Table B-1
Frequency and Percent* Distribution of Live Births
by Infant's Sex, Plurality, and Parity
Montana Residents, 2008-2016

Item	YEAR																	
	2008		2009		2010		2011		2012		2013		2014		2015		2016	
	Number	Percent																
Montana Total	12,595	100.0%	12,280	100.0%	12,058	100.0%	12,039	100.0%	12,052	100.0%	12,351	100.0%	12,431	100.0%	12,580	100.0%	12,274	100.0%
Sex																		
Male	6,463	51.3%	6,265	51.0%	6,124	50.7%	6,097	50.6%	6,159	51.1%	6,346	51.3%	6,322	50.8%	6,389	50.7%	6,299	51.3%
Female	6,132	48.6%	6,015	48.9%	5,933	49.2%	5,942	49.3%	5,893	48.8%	6,004	48.6%	6,109	49.1%	6,191	49.2%	5,975	48.6%
Unknown	0	0.0%	0	0.0%	1	0.0%	0	0.0%	0	0.0%	1	0.0%	0	0.0%	0	0.0%	0	0.0%
Plurality																		
Single	12,203	96.8%	11,903	96.9%	11,691	96.9%	11,671	96.9%	11,664	96.7%	11,979	96.9%	12,002	96.5%	12,142	96.5%	11,889	96.8%
Twins	370	2.9%	369	3.0%	358	2.9%	358	2.9%	372	3.0%	359	2.9%	420	3.3%	432	3.4%	379	3.0%
Triplets or More	15	0.1%	3	0.0%	7	0.0%	10	0.0%	16	0.1%	12	0.0%	8	0.0%	6	0.0%	6	0.0%
Not Stated	7	0.0%	5	0.0%	2	0.0%	0	0.0%	0	0.0%	1	0.0%	1	0.0%	0	0.0%	0	0.0%
Parity																		
First Birth	5,102	40.5%	4,906	39.9%	4,702	38.9%	4,616	38.3%	4,661	38.6%	4,647	37.6%	4,619	37.1%	4,680	37.2%	4,510	36.7%
Second Birth	3,858	30.6%	3,765	30.6%	3,771	31.2%	3,779	31.3%	3,666	30.4%	3,803	30.7%	3,825	30.7%	3,876	30.8%	3,807	31.0%
Third Birth	2,020	16.0%	2,047	16.6%	2,014	16.7%	2,004	16.6%	2,051	17.0%	2,145	17.3%	2,160	17.3%	2,132	16.9%	2,150	17.5%
Fourth Birth	892	7.0%	912	7.4%	865	7.1%	916	7.6%	959	7.9%	975	7.8%	1,020	8.2%	1,069	8.4%	1,005	8.1%
Fifth Birth	389	3.0%	339	2.7%	398	3.3%	409	3.3%	379	3.1%	430	3.4%	438	3.5%	450	3.5%	421	3.4%
Sixth Birth	139	1.1%	154	1.2%	140	1.1%	155	1.2%	176	1.4%	193	1.5%	169	1.3%	190	1.5%	190	1.5%
Seventh Birth	91	0.7%	66	0.5%	68	0.5%	72	0.5%	65	0.5%	78	0.6%	99	0.7%	89	0.7%	93	0.7%
Eighth Birth	29	0.2%	20	0.1%	40	0.3%	35	0.2%	43	0.3%	33	0.2%	40	0.3%	38	0.3%	46	0.3%
Ninth or More	42	0.3%	38	0.3%	40	0.3%	43	0.3%	36	0.2%	42	0.3%	53	0.4%	53	0.4%	44	0.3%
Not Stated	33	0.2%	33	0.2%	20	0.1%	10	0.0%	16	0.1%	5	0.0%	8	0.0%	3	0.0%	8	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-2
Frequency and Percent Distribution of Live Births
by Type of Facility and Attendant by Year
Montana Occurrences, 1989-2016

Year	Total	BOA* And in Hospital		Physician Not in Hospital**		Other Not in Hospital	
		Number	Percent	Number	Percent	Number	Percent
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	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, 1989-2016

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
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%	978	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, 1989-2016

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.
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, 1989-2016

Year	Total	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	No Care	Not Stated
2016	12,274	301	3,702	4,737	1,463	676	468	314	269	130	36	134	44
2015	12,580	263	3,486	5,091	1,597	744	412	340	298	141	32	125	51
2014	12,431	305	3,492	4,942	1,532	737	441	327	247	146	21	133	108
2013	12,351	296	3,531	4,821	1,519	711	451	330	279	128	30	120	135
2012	12,052	320	3,549	4,856	1,398	632	386	299	227	108	20	89	168
2011	12,039	323	3,545	4,866	1,395	733	387	254	180	98	18	108	132
2010	12,058	351	3,662	4,632	1,360	753	392	259	137	62	13	104	333
2009	12,280	322	3,322	4,417	1,333	655	362	262	163	90	17	86	1,251
2008	12,595	456	3,759	4,439	1,457	653	401	247	190	87	16	98	792
2007	12,437	1,500	5,768	2,945	882	430	262	157	96	37	-	75	285
2006	12,499	1,586	5,645	3,071	920	477	224	171	97	43	-	66	199
2005	11,573	1,361	5,348	2,907	859	433	230	134	62	32	-	72	135
2004	11,514	1,462	5,178	2,873	854	463	268	138	97	25	-	69	87
2003	11,384	1,436	5,269	2,866	811	424	221	123	91	33	-	56	54
2002	11,045	1,300	5,023	2,867	858	397	232	127	80	35	-	61	65
2001	10,947	1,302	5,027	2,686	863	460	229	144	94	24	-	71	47
2000	10,946	1,405	4,997	2,661	819	439	217	160	74	34	-	70	70
1999	10,778	1,524	4,876	2,605	778	404	229	139	89	22	-	72	40
1998	10,789	1,389	4,836	2,617	865	421	266	150	103	75	-	67	-
1997	10,838	1,615	4,704	2,581	836	425	216	180	94	95	-	92	-
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, 2016

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.		
All Causes**	9,902	5,147	4,755	35	38	1	6	7	5	6	6	11	4	16	8	21	5	53	23	69	26	77	28
I. Certain infectious and parasitic diseases	203	99	104	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Intestinal infectious diseases	26	8	18	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Other intestinal infectious diseases	18	6	12	0	0	1	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	18	6	12	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(8) Diarrhea and gastroenteritis of infectious origin	8	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Zoonotic and other bacterial diseases	121	57	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(18) Septicemia	112	51	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(19) Other zoonotic and bacterial diseases	9	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral diseases	44	28	16	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(33) Herpesviral (herpes simplex) infections	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(38) Viral hepatitis	27	20	7	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	0	0	0
(42) Human immunodeficiency virus (HIV) disease resulting in other conditions	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(43) Unspecified human immunodeficiency virus (HIV) disease	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	13	5	8	0	1	0	1	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	12	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(45) Mycoses	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Protozoal diseases	6	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(49) Pneumocystosis	6	2	4	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	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
II. Neoplasms	2,100	1,144	956	0	0	0	0	1	2	0	1	0	0	0	0	1	2	1	2	1	2	5	1
Malignant neoplasms	2,032	1,107	925	0	0	0	0	1	2	0	1	0	0	0	0	1	0	1	2	1	2	5	0
Malignant neoplasms of lip, oral cavity and pharynx	32	21	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(56) Of lip	1	1	0	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	10	7	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	12	8	4	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	521	324	197	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
(60) Of esophagus	62	49	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(61) Of stomach	31	21	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(62) Of small intestine	3	2	1	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	187	106	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
(63) Colon	135	73	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
(64) Rectosigmoid junction and rectum	45	29	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(65) Anus and anal canal	7	4	3	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	74	49	25	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(66) Liver	46	36	10	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(67) Intrahepatic bile duct carcinoma	28	13	15	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	14	6	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(69) Of pancreas	147	89	58	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	3	2	1	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	240	245	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, 2016

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.	
(71) Of nasal cavity, middle ear and accessory sinuses	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(72) Of larynx	5	5	0	0	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	477	232	245	0	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	2	2	0	0	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	9	5	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Melanoma and other malignant neoplasms of skin	43	30	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(77) Malignant melanoma of skin	37	25	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(78) Other malignant neoplasms of skin	6	5	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 mesothelial and soft tissue	32	20	12	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(79) Mesothelioma	11	8	3	0	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(82) Malignant neoplasm of breast	139	2	137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malignant neoplasms of female genital organs	96	0	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(83) Of vulva and vagina	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(84) Of cervix uteri	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(85) Of corpus uteri and uterus, part unspecified	29	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(86) Of ovary	52	0	52	0	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	144	144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(89) Of prostate	143	143	0	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	1	1	0	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	102	72	30	0	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	50	34	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(93) Of bladder	47	35	12	0	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	5	3	2	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	34	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
(96) Of brain	62	33	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
(97) Of other parts of central nervous system	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(98) Malignant neoplasms of thyroid and other endocrine glands	9	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
(99) Other malignant neoplasms of other and unspecified sites	154	84	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Malignant neoplasms of lymphoid, hematopoietic and related tissue	202	126	76	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0
(100) Hodgkin 's disease	5	2	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	79	52	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(101) Non-Hodgkin 's lymphoma	78	52	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(102) Of other and unspecified lymphoid, hematopoietic and related tissue	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(103) Malignant immunoproliferative 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
(104) Multiple myeloma and malignant plasma cell neoplasms	38	25	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leukemia	79	47	32	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
(105) Lymphoid leukemia	26	10	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(106) Myeloid leukemia	40	27	13	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
(108) Other and unspecified leukemia	13	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Benign neoplasms	7	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(112) Of eye, brain and other parts of central nervous system	6	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(113) Of other and 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	0
(114) Neoplasms of uncertain or unknown behavior of specified sites	52	33	19	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, 2016

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.	
(115) Neoplasm of uncertain or unknown behavior of unspecified sites	9	3	6	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	36	14	22	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0
Anemias	15	4	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(116) Nutritional anemias	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(118) Aplastic anemias	4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(119) Acute posthemorrhagic and other anemias	10	3	7	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	11	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(121) Other diseases of blood and blood forming organs	7	3	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
(122) Certain disorders involving the immune mechanism	3	2	1	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	473	257	216	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	2	0
Endocrine diseases	321	185	136	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
(123) Disorders of thyroid gland	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(124) Diabetes mellitus	311	183	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(125) Disorders of pituitary gland	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(126) Disorders of adrenal glands	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(128) Other endocrine diseases	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nutritional diseases	74	27	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Malnutrition	43	11	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(130) Other and unspecified malnutrition	43	11	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(131) Other nutritional deficiencies	1	1	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	30	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Metabolic disorders	78	45	33	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0
(133) Cystic fibrosis	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(134) Volume depletion, disorders of fluid, electrolyte and acid-base balance	15	7	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(135) Other metabolic disorders	62	37	25	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
V. Mental and behavioral disorders	699	270	429	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2	1	1	0
(136) Organic dementia	587	196	391	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	6	4	2	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	90	62	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1	0
(138) Mental and behavioral disorders due to use of alcohol	72	49	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(139) Mental and behavioral disorders due to other psychoactive substance use	18	13	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0
(140) Schizophrenia, schizotypal and delusional disorders	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(141) Mood (affective) disorders	5	2	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
(142) Neurotic, stress-related and somatoform disorders	2	0	2	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	2	1	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	591	267	324	1	1	0	0	0	0	1	0	0	0	0	0	1	1	2	0	2	1	0
(145) Meningitis	4	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(146) Other inflammatory diseases of central nervous system	5	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(147) Parkinson 's disease	104	71	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(148) Alzheimer 's disease	314	114	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(149) Multiple sclerosis	23	10	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(150) Epilepsy	5	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(152) Infantile cerebral palsy	5	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
(153) All other diseases of nervous system	131	64	67	0	1	0	0	0	0	0	1	0	0	0	0	1	0	1	0	2	1	0

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2016

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.	
IX. Diseases of the circulatory system	2,795	1,471	1,324	1	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	2	1	3	5	1
Acute rheumatic fever and chronic rheumatic heart diseases	18	6	12	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	18	6	12	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	7	2	5	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	3	1	2	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	1	3	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	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypertensive diseases	192	86	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(161) Essential (primary) hypertension	51	19	32	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	98	50	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(163) Hypertensive renal disease and secondary hypertension	31	11	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	12	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ischemic heart diseases	1,189	777	412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0
(165) Acute myocardial infarction	281	188	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
(166) Other acute ischemic heart diseases	9	5	4	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	899	584	315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
(167) Atherosclerotic cardiovascular disease, so described	469	305	164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(168) All other forms of chronic ischemic heart disease	430	279	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Other heart diseases	817	358	459	1	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	1	0	0	2	0
Pulmonary heart disease and diseases of pulmonary circulation	62	31	31	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
(169) Pulmonary embolism	28	19	9	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	34	12	22	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Other non-pulmonary forms of heart disease	755	327	428	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	2	0
(171) Acute and subacute endocarditis	6	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(172) Diseases of pericardium and acute myocarditis	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 endocardium	129	53	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(173) Nonrheumatic mitral valve disorders	13	2	11	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	76	34	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(175) All other diseases of endocardium	40	17	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(176) Cardiomyopathy	45	30	15	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
(177) Conduction disorders and cardiac dysrhythmias	169	64	105	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Heart failure	362	149	213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(178) Congestive heart failure	305	127	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(179) Other and unspecified heart failure	57	22	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(180) Myocarditis, unspecified and myocardial degeneration	3	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(181) All other and ill-defined forms of heart disease	40	25	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cerebrovascular diseases	439	180	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0
(182) Subarachnoid hemorrhage	18	7	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	89	39	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
(184) Cerebral infarction	20	12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(185) Stroke, not specified as hemorrhage or infarction	217	83	134	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	95	39	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diseases of arteries, arterioles and capillaries	111	51	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
(187) Atherosclerosis	22	11	11	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	47	24	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
(189) Other diseases of arteries, arterioles and capillaries	42	16	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other disorders of circulatory system	29	13	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2016

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.	
(190) Phlebitis, thrombophlebitis, venous embolism and thrombosis	17	7	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(191) All other and unspecified disorders of circulatory system	12	6	6	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	1,087	526	561	1	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	2	0	0	2	
Other diseases of the respiratory system	1,087	526	561	1	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	2	0	0	2	
(195) Influenza	26	15	11	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Pneumonia	122	54	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(196) Viral pneumonia, not elsewhere classified	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(197) Bacterial pneumonia	5	4	1	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	114	50	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Other acute lower respiratory infections	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(199) Acute bronchitis and bronchiolitis	2	1	1	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	3	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Chronic lower respiratory diseases	722	343	379	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
Bronchitis, chronic and unspecified, emphysema and asthma	717	341	376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	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	26	23	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	651	306	345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(206) Asthma	16	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
(207) Bronchiectasis	5	2	3	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	81	47	34	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	14	11	3	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	67	36	31	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	67	36	31	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	4	1	3	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	5	1	4	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	122	63	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
XI. Diseases of the digestive system	418	218	200	2	1	0	0	0	0	0	2	0	0	0	0	0	0	2	0	1	3	3	1	
(215) Diseases of oral cavity, salivary glands and jaws	2	1	1	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	416	217	199	2	1	0	0	0	0	0	2	0	0	0	0	0	0	2	0	1	3	3	1	
(216) Diseases of esophagus	14	4	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peptic ulcer	9	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(217) Gastric ulcer	6	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(218) Duodenal ulcer	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	4	3	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	6	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(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	2	7	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	3	1	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	48	20	28	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
(227) Diverticular disease of intestine	16	4	12	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	13	6	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
(229) Diseases of peritoneum	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diseases of liver	217	132	85	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	3	1	
(230) Alcoholic liver disease	101	64	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	1	1	
(232) Fibrosis and cirrhosis of liver	60	38	22	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	56	30	26	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2016

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.	
(234) Cholelithiasis and other disorders of gallbladder	13	6	7	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	20	13	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
(235) Pancreatitis	10	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
(236) Other disorders of biliary tract and pancreas	10	6	4	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	39	16	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XII. Diseases of the skin and subcutaneous tissue	31	17	14	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	18	9	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	13	8	5	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	74	27	47	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0
(240) Rheumatoid arthritis and related inflammatory polyarthropathies	15	6	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	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(242) Other arthropathies and related disorders	18	4	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
(243) Dorsopathies	8	5	3	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	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue	25	8	17	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
(245) Osteoporosis	16	1	15	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	7	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
XIV. Diseases of the genitourinary system	230	115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Diseases of urinary system	222	111	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Glomerular and renal tubulo-interstitial diseases	8	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glomerular diseases	3	3	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	3	3	0	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	5	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(251) Renal failure	151	78	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
(252) Urolithiasis	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(254) Urinary tract infection, site not specified	42	17	25	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	19	12	7	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	4	4	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	3	3	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	1	1	0	0	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	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(259) Inflammatory diseases of female pelvic organs	1	0	1	0	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	3	0	3	0	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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0
XVI. Certain conditions originating in the perinatal period	31	14	17	13	16	0	1	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	11	5	6	5	5	0	1	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	8	4	4	4	4	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	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(278) Respiratory distress of newborn	2	1	1	1	1	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	1	1	0	1	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	2	1	1	0	1	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, 2016

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.
(281) Other and unspecified conditions originating in the perinatal period	6	2	4	2	4	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	28	14	14	4	6	0	1	0	0	1	2	0	0	0	0	1	0	0	0	0	0	1	1
(282) Anencephaly and similar malformations	1	1	0	1	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	3	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(285) Congenital malformations of heart	6	3	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
(286) Other congenital malformations of circulatory system	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
(287) Congenital malformations of respiratory system	2	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
(288) Other congenital malformations and deformations	7	2	5	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(289) Down 's syndrome	4	3	1	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	4	1	3	0	3	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	127	53	74	8	10	0	1	0	1	0	0	0	0	0	0	1	2	1	1	2	1	2	2
(291) Senility	36	16	20	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	54	24	30	8	10	0	1	0	1	0	0	0	0	0	0	1	2	1	1	2	1	2	2
(292) Sudden infant death syndrome	4	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(293) Other ill-defined and unknown causes of mortality	50	22	28	6	8	0	1	0	1	0	0	0	0	0	0	1	2	1	1	2	1	2	2
(294) All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	37	13	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XX. External causes of mortality	978	641	337	5	2	0	2	6	2	4	0	9	3	13	7	19	4	45	13	59	11	55	16
Accidents (unintentional injuries)	622	372	250	2	1	0	1	6	1	3	0	3	2	7	4	8	1	19	11	27	6	29	9
Transport accidents	214	154	60	0	1	0	0	3	1	0	0	3	1	7	3	6	1	12	6	14	4	15	5
(295) Railway accidents	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Motor vehicle accidents	198	141	57	0	1	0	0	3	1	0	0	3	1	6	3	6	1	12	5	13	4	15	4
(296) Pedestrian involved in collision with motor vehicle	9	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
(297) Pedal cyclist involved in collision with motor vehicle	3	3	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	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0
(301) Occupant of motor vehicle involved in collision with other (non-motorized) road vehicle, streetcar, animal or pedestrian	11	7	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	2	0
(302) Occupant of car, pickup truck or van involved in collision with other motor vehicle	29	17	12	0	0	0	0	0	0	0	0	0	0	0	1	0	2	3	1	1	3	1	1
(303) Occupant of heavy transport vehicle or bus involved in collision with other 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
(304) Occupant of motor vehicle involved in noncollision accident	48	34	14	0	0	0	0	0	0	0	0	0	0	1	3	3	0	3	1	7	2	3	1
(305) Occupant of special-use motor vehicle involved in any accident	16	15	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
(306) Other and unspecified motor vehicle accidents	67	44	23	0	1	0	0	3	1	0	0	3	1	3	0	0	1	6	0	3	1	4	2
(308) Other and unspecified land transport accidents	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(309) Water transport accidents	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(310) Air and space transport accidents	4	4	0	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	5	4	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Falls	165	77	88	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
(312) Fall on same level	77	35	42	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	21	15	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
(314) Unspecified fall	67	27	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	5	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0
(316) Accidental explosion	1	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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Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2016

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.	
(317) Accidental drowning and submersion	13	9	4	0	0	0	0	1	0	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0
(318) Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract	21	11	10	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(319) Other accidental and unspecified threats to breathing	10	7	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(320) Accidental exposure to electric current	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(322) Accidental exposure to smoke, fire and flames	11	7	4	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(325) Earthquake, volcanic eruption, avalanche landslide and other earth movements	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	
Accidental poisoning and exposure to noxious substances	100	56	44	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	5	11	2	10	4	
(327) Accidental poisoning by and exposure to drugs and other biological substances	82	45	37	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	3	9	1	7	3	
(328) Accidental poisoning by and exposure to other and unspecified solid or liquid substances	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
(329) Accidental poisoning by and exposure to other gases and vapors	12	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	2	0	
(330) All other and unspecified accidents and their sequelae	78	41	37	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	
Intentional self-harm (suicide)	267	219	48	0	0	0	0	0	0	0	0	6	1	6	3	9	1	18	2	30	4	21	4	
(331) Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances	17	6	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(333) Intentional self-poisoning (suicide) by and exposure to other gases and vapors	7	5	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	
(334) Intentional self-harm (suicide) by hanging, strangulation and suffocation	70	55	15	0	0	0	0	0	0	0	0	2	1	4	2	2	1	4	1	12	2	9	1	
(335) Intentional self-harm (suicide) by discharge of firearms	162	143	19	0	0	0	0	0	0	0	0	4	0	2	1	5	0	13	1	14	1	12	2	
(336) Intentional self-harm (suicide) by jumping from a high place	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	1	
(337) Intentional self-harm (suicide) by all other and unspecified means and their sequelae	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	
Assault (homicide)	41	23	18	2	1	0	1	0	1	1	0	0	0	0	0	2	1	6	0	2	1	2	2	
(338) Assault (homicide) by drugs, biological substances and other and unspecified noxious substances	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(339) Assault (homicide) by hanging, strangulation and suffocation	3	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
(340) Assault (homicide) by discharge of firearms	18	9	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	
(341) Assault (homicide) by sharp object	7	5	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	2	0	
(346) Assault (homicide) by all other and unspecified means and their sequelae	12	7	5	0	1	0	1	0	0	0	0	0	0	0	1	0	3	0	1	0	0	2	0	
Event of undetermined intent	34	18	16	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	3	1	
(347) Poisoning by and exposure to drugs and biological substances, undetermined intent	17	6	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	1	
(348) Poisoning by and exposure to other and unspecified solid or liquid substance, undetermined intent	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
(350) Discharge of firearms, undetermined intent	5	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
(351) Falling, jumping or pushed from a high place, undetermined intent	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
(352) All other and unspecified events of undetermined intent and their sequelae	8	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Legal intervention	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
(354) Other legal intervention and their sequelae	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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, 2016

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.	
Complications of medical and surgical care	10	5	5	0	0	0	0	0	0	0	0	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(358) Other complications of medical and surgical care and their sequelae	9	4	5	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, 2016

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**	73	49	95	65	118	78	185	142	329	233	439	278	527	332	565	406	588	496	658	594	1,274	1,933
I. Certain infectious and parasitic diseases	0	2	3	3	3	2	5	5	10	8	12	5	8	7	9	10	10	13	19	14	18	32
Intestinal infectious diseases	0	0	1	0	0	0	1	0	0	1	0	0	0	1	1	1	1	1	3	2	10	
Other intestinal infectious diseases	0	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	1	1	3	1	7	
(7) Intestinal infections due to other specified organisms	0	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	1	1	3	1	7	
(8) Diarrhea and gastroenteritis of infectious origin	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	1	3
Zoonotic and other bacterial diseases	0	1	0	3	0	2	1	2	5	7	5	2	6	3	5	6	6	9	16	9	13	20
(18) Septicemia	0	1	0	3	0	2	0	2	5	7	4	2	5	2	5	6	5	9	14	9	13	18
(19) Other zoonotic and bacterial diseases	0	0	0	0	0	0	1	0	0	0	1	0	1	1	0	0	1	0	2	0	0	2
Viral diseases	0	1	2	0	3	0	3	2	5	0	6	3	2	1	3	2	1	2	1	2	2	1
(33) Herpesviral (herpes simplex) infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
(38) Viral hepatitis	0	1	1	0	3	0	3	2	5	0	3	2	2	0	2	2	0	0	0	0	1	0
Human immunodeficiency virus (HIV) disease	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
(42) Human immunodeficiency virus (HIV) disease resulting in other conditions	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
(43) Unspecified human immunodeficiency virus (HIV) disease	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
(44) All other and unspecified viral diseases	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	1	2	1	1	1	1
Other and unspecified infectious and parasitic diseases and their sequelae	0	0	0	0	0	0	0	1	0	0	1	0	0	2	0	1	2	1	1	0	1	1
(45) Mycoses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
Protozoal diseases	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	1	1	0	0	0	0
(49) Pneumocystosis	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	1	1	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	0	1	0	0	0	0	0	0	1	1
II. Neoplasms	5	6	11	12	15	17	39	34	87	77	120	99	161	133	171	136	168	122	160	119	198	193
Malignant neoplasms	5	6	10	11	15	16	38	34	87	77	116	99	155	127	169	133	159	116	152	116	192	183
Malignant neoplasms of lip, oral cavity and pharynx	0	0	0	0	1	0	3	1	1	0	1	4	5	1	3	0	2	2	0	1	5	2
(56) Of lip	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(57) Of tongue	0	0	0	0	0	0	0	0	0	0	0	3	2	0	2	0	1	0	0	1	0	0
(58) Of pharynx	0	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	1	1	0	0	0	3
(59) Of other and unspecified sites within the lip, oral cavity and pharynx	0	0	0	0	1	0	0	0	1	0	1	1	2	0	1	0	0	1	0	0	2	2
Malignant neoplasms of digestive organs	2	0	3	2	8	4	12	8	36	15	47	23	58	21	43	29	46	23	39	33	28	38
(60) Of esophagus	0	0	0	0	0	0	2	3	8	0	2	1	14	2	9	0	7	1	5	5	2	1
(61) Of stomach	0	0	1	0	0	0	1	1	2	2	4	0	3	1	2	2	2	0	4	1	2	3
(62) Of small intestine	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0
Of colon, rectum and anus	1	0	1	2	4	1	4	3	13	5	18	10	18	8	8	11	8	13	13	14	19	
(63) Colon	0	0	0	2	4	1	3	2	9	1	11	7	14	5	7	7	8	8	6	12	10	16
(64) Rectosigmoid junction and rectum	1	0	1	0	0	0	1	0	3	4	7	3	3	3	1	3	2	0	6	1	4	2
(65) Anus and anal canal	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	1	0	1	0	0	1
Of liver and intrahepatic bile ducts	1	0	0	0	1	0	1	0	6	3	10	4	12	3	7	1	3	4	4	6	3	4
(66) Liver	1	0	0	0	0	0	1	0	4	2	8	2	9	1	4	0	3	2	4	3	1	0
(67) Intrahepatic bile duct carcinoma	0	0	0	0	1	0	0	0	2	1	2	2	3	2	3	1	0	2	0	3	2	4
(68) Of gallbladder and extrahepatic bile ducts	0	0	0	0	0	0	0	0	0	0	0	2	1	2	1	2	2	0	1	0	1	2
(69) Of pancreas	0	0	1	0	3	3	4	0	7	5	12	6	10	4	15	13	21	10	11	8	5	9
(70) Of other and ill-defined digestive organs	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0
Malignant neoplasms of respiratory and intrathoracic organs	0	0	0	0	2	0	5	9	22	23	19	21	27	38	50	49	37	35	45	31	33	39
(71) Of nasal cavity, middle ear and accessory sinuses	0	0	0	0	0	0	0	0	1	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, 2016

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.	
(72) Of larynx	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	1	0
(73) Of trachea, bronchus and lung	0	0	0	0	2	0	5	9	19	23	18	21	27	38	48	49	37	35	44	31	32	39	
(74) Of thymus, heart, mediastinum and pleura	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
(76) Malignant neoplasms of bone and articular cartilage	0	0	0	0	0	0	2	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	2
Melanoma and other malignant neoplasms of skin	0	0	2	0	0	0	2	2	2	0	6	0	1	2	6	4	3	0	2	2	5	3	
(77) Malignant melanoma of skin	0	0	2	0	0	0	2	2	2	0	6	0	0	2	4	3	3	0	2	2	3	3	
(78) Other malignant neoplasms of skin	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	0	0	0	0	2	0	
Malignant neoplasms of mesothelial and soft tissue	0	1	1	1	1	0	1	0	0	2	3	2	0	2	5	1	5	0	1	0	3	2	
(79) Mesothelioma	0	0	0	0	0	0	0	0	0	1	0	1	0	0	3	0	2	0	0	0	3	1	
(81) Of other mesothelial and soft tissue	0	1	1	1	1	0	1	0	0	1	3	1	0	2	2	1	3	0	1	0	0	1	
(82) Malignant neoplasm of breast	0	2	0	3	0	6	0	7	0	13	0	17	0	17	0	8	0	17	0	18	2	29	
Malignant neoplasms of female genital organs	0	1	0	2	0	1	0	3	0	9	0	17	0	13	0	12	0	12	0	11	0	14	
(83) Of vulva and vagina	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	1	
(84) Of cervix uteri	0	1	0	1	0	0	0	0	0	1	0	1	0	2	0	2	0	0	0	1	0	0	
(85) Of corpus uteri and uterus, part unspecified	0	0	0	1	0	0	0	0	0	5	0	6	0	5	0	2	0	5	0	1	0	4	
(86) Of ovary	0	0	0	0	0	1	0	3	0	3	0	7	0	5	0	8	0	7	0	9	0	9	
Malignant neoplasms of male genital organs	0	0	0	0	0	0	2	0	1	0	7	0	13	0	17	0	29	0	23	0	52	0	
(89) Of prostate	0	0	0	0	0	0	1	0	1	0	7	0	13	0	17	0	29	0	23	0	52	0	
(91) Of penis and other and unspecified male genital organs	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Malignant neoplasms of urinary tract	0	0	1	1	1	0	3	1	2	1	8	0	14	4	8	5	7	4	7	2	21	12	
(92) Of kidney and renal pelvis	0	0	1	1	1	0	1	0	2	0	5	0	7	3	3	5	6	0	2	1	6	6	
(93) Of bladder	0	0	0	0	0	0	2	1	0	1	2	0	7	1	4	0	1	4	5	1	14	4	
(94) Of other and unspecified sites within the urinary tract	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	2	
Malignant neoplasms of meninges, brain and other parts of central nervous system	2	2	1	0	0	0	2	1	5	5	6	2	5	8	6	8	4	1	2	1	0	1	
(96) Of brain	1	1	1	0	0	0	2	1	5	5	6	2	5	8	6	8	4	1	2	1	0	1	
(97) Of other parts of central nervous system	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(98) Malignant neoplasms of thyroid and other endocrine glands	0	0	0	0	0	0	1	0	0	1	1	0	1	0	1	0	0	1	0	0	0	1	
(99) Other malignant neoplasms of other and unspecified sites	1	0	1	2	1	3	2	1	11	5	8	9	9	7	10	9	12	10	11	6	17	18	
Malignant neoplasms of lymphoid, hematopoietic and related tissue	0	0	1	0	1	2	3	1	7	3	10	3	22	13	19	7	14	12	21	11	26	22	
(100) Hodgkin 's disease	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	1		
Of other lymphoid, hematopoietic and related tissue	0	0	0	0	0	0	1	1	3	0	5	2	12	4	9	1	2	5	10	5	9	9	
(101) Non-Hodgkin 's lymphoma	0	0	0	0	0	0	1	1	3	0	5	1	12	4	9	1	2	5	10	5	9	9	
(102) Of other and unspecified lymphoid, hematopoietic and related tissue	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
(103) Malignant immunoproliferative diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
(104) Multiple myeloma and malignant plasma cell neoplasms	0	0	0	0	0	1	1	0	2	0	2	0	3	0	4	2	5	2	3	6	5		
Leukemia	0	0	1	0	1	1	1	0	2	2	3	1	7	7	6	4	7	5	7	3	11	7	
(105) Lymphoid leukemia	0	0	0	0	0	1	0	0	0	0	0	0	2	3	2	1	1	4	2	1	3	6	
(106) Myeloid leukemia	0	0	1	0	1	0	1	0	2	1	2	1	5	4	3	2	4	1	3	1	4	1	
(108) Other and unspecified leukemia	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	2	0	2	1	4	0	
Benign neoplasms	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	2	
(112) Of eye, brain and other parts of central nervous system	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	
(113) Of other and unspecified sites	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
(114) Neoplasms of uncertain or unknown behavior of specified sites	0	0	0	1	0	0	1	0	0	0	4	0	4	5	2	1	9	4	7	1	6	7	
(115) Neoplasm of uncertain or unknown behavior of unspecified sites	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	2	0	1	1	1	0	1	

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2016

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.
III. Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	0	1	0	0	1	0	0	0	1	0	0	0	0	2	4	3	1	3	2	1	4	10
Anemias	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	1	0	1	3	5
(116) Nutritional anemias	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(118) Aplastic anemias	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1
(119) Acute posthemorrhagic and other anemias	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	1	3	3
(120) Coagulation defects, purpura and other hemorrhagic conditions	0	1	0	0	1	0	0	0	0	0	0	0	0	1	2	1	0	0	1	0	1	2
(121) Other diseases of blood and blood forming organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	3
(122) Certain disorders involving the immune mechanism	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0
IV. Endocrine, nutritional and metabolic diseases	4	2	5	6	11	6	11	14	18	19	26	16	42	13	21	21	33	24	41	29	42	62
Endocrine diseases	3	1	3	4	11	3	8	7	12	13	21	13	30	10	13	17	31	15	27	21	25	31
(123) Disorders of thyroid gland	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	1
(124) Diabetes mellitus	3	1	3	4	11	3	8	7	12	13	20	12	30	9	13	16	31	14	26	20	25	29
(125) Disorders of pituitary gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
(126) Disorders of adrenal glands	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0
(128) Other endocrine diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Nutritional diseases	1	1	1	1	0	3	3	5	4	5	1	1	3	1	3	1	5	4	6	6	6	17
Malnutrition	0	0	0	0	0	1	0	1	1	1	0	1	0	1	0	1	1	4	4	5	5	17
(130) Other and unspecified malnutrition	0	0	0	0	0	1	0	1	1	1	0	1	0	1	0	1	1	4	4	5	5	17
(131) Other nutritional deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
(132) Obesity and other hyperalimentation	1	1	1	1	0	2	3	4	3	4	1	0	3	0	2	0	0	1	0	1	1	0
Metabolic disorders	0	0	1	1	0	0	0	2	2	1	4	2	9	2	5	3	1	4	10	2	11	14
(133) Cystic fibrosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(134) Volume depletion, disorders of fluid, electrolyte and acid-base balance	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	3	1	0	4	4
(135) Other metabolic disorders	0	0	1	1	0	0	0	2	2	1	3	2	8	1	5	3	1	1	9	2	7	10
V. Mental and behavioral disorders	3	3	2	1	5	5	6	7	10	3	17	8	14	9	20	11	21	38	35	52	133	289
(136) Organic dementia	0	0	0	0	0	0	0	1	1	0	1	2	1	5	13	10	20	35	32	50	128	288
(137) Other and unspecified organic mental disorders	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	2	1
Mental and behavioral disorders due to psychoactive substance use	3	3	2	1	5	4	6	6	9	3	14	5	11	2	7	0	1	0	2	1	0	0
(138) Mental and behavioral disorders due to use of alcohol	1	3	2	0	3	2	4	5	8	3	14	5	10	2	5	0	1	0	1	1	0	0
(139) Mental and behavioral disorders due to other psychoactive substance use	2	0	0	1	2	2	2	1	1	0	0	0	1	0	2	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	1	0	1	0	0	1	0	1	0
(141) Mood (affective) disorders	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	1	0
(142) Neurotic, stress-related and somatoform disorders	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
(144) Other and unspecified mental and behavioral disorders	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
VI. Diseases of the nervous system	0	2	0	3	1	2	3	3	8	11	12	11	21	14	25	20	28	23	50	53	113	178
(145) Meningitis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(146) Other inflammatory diseases of central nervous system	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	1	1	0	0
(147) Parkinson 's disease	0	0	0	0	0	0	0	0	1	0	1	2	3	1	9	1	9	4	21	9	27	16
(148) Alzheimer 's disease	0	0	0	0	0	0	0	0	1	1	3	3	2	6	4	9	14	23	30	72	146	
(149) Multiple sclerosis	0	0	0	0	0	1	1	0	1	2	2	3	2	3	4	0	0	1	2	0	1	1
(150) Epilepsy	0	1	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
(152) Infantile cerebral palsy	0	0	0	0	1	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
(153) All other diseases of nervous system	0	1	0	2	0	2	2	0	7	6	8	4	9	9	7	11	9	5	4	11	14	13
IX. Diseases of the circulatory system	12	6	13	6	26	8	49	23	74	38	130	60	144	54	179	89	179	132	200	185	456	716
Acute rheumatic fever and chronic rheumatic heart diseases	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	2	1	0	0	3	9

* 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, 2016

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.
Chronic rheumatic heart diseases	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	2	1	0	0	3	9
(157) Rheumatic mitral valve diseases	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	3
(158) Rheumatic aortic valve diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
(159) Disorders of both mitral and aortic valves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
(160) Other chronic rheumatic heart diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2
Hypertensive diseases	2	0	2	0	4	2	6	4	6	2	12	7	13	5	8	5	5	6	13	13	15	62
(161) Essential (primary) hypertension	0	0	0	0	1	0	1	0	0	1	2	3	4	5	2	2	2	0	5	4	2	17
(162) Hypertensive heart disease	1	0	1	0	2	1	5	3	5	1	10	3	7	0	3	4	3	6	10	28		
(163) Hypertensive renal disease and secondary hypertension	0	0	1	0	1	1	0	0	0	0	1	1	0	2	1	0	2	4	3	2	12	
(164) Hypertensive heart and renal disease	1	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	0	1	0	1	5	
Ischemic heart diseases	2	2	4	2	16	4	36	6	44	21	84	37	91	22	112	41	102	52	98	47	185	177
(165) Acute myocardial infarction	1	1	1	1	3	0	10	0	8	6	23	4	22	5	27	7	27	13	20	9	44	47
(166) Other acute ischemic heart diseases	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	0	0	1	0	1	1
Other forms of chronic ischemic heart disease	1	1	3	1	13	4	26	6	36	15	61	32	68	16	83	33	75	39	77	38	140	129
(167) Atherosclerotic cardiovascular disease, so described	1	1	3	1	10	4	19	5	29	11	45	21	40	10	46	20	40	25	29	16	43	50
(168) All other forms of chronic ischemic heart disease	0	0	0	0	3	0	7	1	7	4	16	11	28	6	37	13	35	14	48	22	97	79
Other heart diseases	4	1	5	3	4	0	5	6	15	5	19	9	18	16	28	21	41	33	45	64	169	299
Pulmonary heart disease and diseases of pulmonary circulation	1	0	0	0	0	0	3	2	3	1	2	1	1	3	3	2	4	3	9	3	5	15
(169) Pulmonary embolism	1	0	0	0	0	0	1	0	3	1	2	0	1	0	3	1	2	1	4	0	2	6
(170) Other pulmonary heart disease and diseases of pulmonary circulation	0	0	0	0	0	0	2	2	0	0	0	1	0	3	0	1	2	2	5	3	3	9
Other non-pulmonary forms of heart disease	3	1	5	3	4	0	2	4	12	4	17	8	17	13	25	19	37	30	36	61	164	284
(171) Acute and subacute endocarditis	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1
(172) Diseases of pericardium and acute myocarditis	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other diseases of endocardium	0	1	0	0	2	0	1	0	1	2	4	3	1	3	3	2	5	7	9	7	27	50
(173) Nonrheumatic mitral valve disorders	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	2	1	7	
(174) Nonrheumatic aortic valve disorders	0	0	0	0	0	0	1	0	1	0	2	0	0	1	3	1	3	7	6	3	18	30
(175) All other diseases of endocardium	0	1	0	0	2	0	0	0	0	1	2	3	1	2	0	2	0	2	2	2	8	13
(176) Cardiomyopathy	2	0	3	1	0	0	0	0	1	1	3	0	3	2	2	3	2	2	1	10	6	
(177) Conduction disorders and cardiac dysrhythmias	0	0	1	0	0	0	0	2	1	1	4	3	5	3	8	4	10	7	4	15	30	70
Heart failure	0	0	0	0	2	0	1	0	3	0	3	2	5	4	11	10	16	11	19	38	89	148
(178) Congestive heart failure	0	0	0	0	2	0	1	0	2	0	3	2	5	4	8	8	12	10	16	30	78	124
(179) Other and unspecified heart failure	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	2	4	1	3	8	11	24
(180) Myocarditis, unspecified and myocardial degeneration	0	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	1	0	0	1	0	0	0	1	5	0	3	0	2	0	1	1	3	3	2	0	8	9
Cerebrovascular diseases	1	2	0	1	0	2	2	6	4	6	9	5	13	8	23	12	23	31	37	47	68	136
(182) Subarachnoid hemorrhage	0	0	0	0	0	0	0	0	0	1	1	1	1	1	3	1	0	1	2	0	4	
(183) Intracerebral and other intracranial hemorrhage	1	0	0	0	0	1	0	4	2	0	0	3	3	4	8	4	6	5	9	10	10	17
(184) Cerebral infarction	0	0	0	0	0	0	0	0	0	1	0	0	4	0	3	1	3	1	1	1	1	3
(185) Stroke, not specified as hemorrhage or infarction	0	1	0	0	0	1	1	2	0	3	7	1	5	2	6	2	10	19	16	25	38	78
(186) Other cerebrovascular diseases and their sequelae	0	1	0	1	0	0	1	0	2	1	1	0	0	1	3	4	4	5	9	9	19	34
Diseases of arteries, arterioles and capillaries	1	0	0	0	1	0	0	1	4	1	2	2	8	1	8	7	5	9	5	10	16	29
(187) Atherosclerosis	0	0	0	0	0	0	0	0	1	0	0	0	1	0	3	0	3	2	0	1	3	8
(188) Aortic aneurysm and dissection	1	0	0	0	1	0	0	0	1	0	2	2	4	1	1	4	0	3	5	5	8	8
(189) Other diseases of arteries, arterioles and capillaries	0	0	0	0	0	0	0	1	2	1	0	0	3	0	4	3	2	4	0	4	5	13
Other disorders of circulatory system	2	1	2	0	1	0	0	0	1	3	4	0	0	1	0	2	1	0	2	4	0	4
(190) Phlebitis, thrombophlebitis, venous embolism and thrombosis	2	1	2	0	0	0	0	0	1	2	1	0	0	1	0	2	0	0	1	1	0	2
(191) All other and unspecified disorders of circulatory system	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0	1	0	1	3	0	2	2

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2016

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.
X. Diseases of the respiratory system	3	2	2	3	6	6	8	15	25	25	42	37	61	60	65	62	89	80	78	79	143	188
Other diseases of the respiratory system	3	2	2	3	6	6	8	15	25	25	42	37	61	60	65	62	89	80	78	79	143	188
(195) Influenza	0	1	1	0	0	1	1	0	3	0	0	1	2	1	1	0	2	2	2	0	2	3
Pneumonia	3	1	0	0	2	0	1	0	3	2	1	3	2	3	6	4	7	4	9	7	20	43
(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	0	0	3
(197) Bacterial pneumonia	1	0	0	0	2	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
(198) Pneumonia due to other or unspecified organisms	2	1	0	0	0	0	1	0	3	1	1	3	2	3	5	4	7	4	9	7	20	40
Other acute lower respiratory infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(199) Acute bronchitis and bronchiolitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(201) Other diseases of upper respiratory tract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Chronic lower respiratory diseases	0	0	0	2	2	5	6	11	15	19	37	24	42	45	43	48	61	54	47	63	88	108
Bronchitis, chronic and unspecified, emphysema and asthma	0	0	0	2	2	5	6	11	15	19	37	24	42	45	43	47	61	54	47	63	86	106
(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	1	1	1	3	2	5	0	1	3	3	5	4	5	1	3	8	8
(205) Other chronic obstructive pulmonary disease	0	0	0	2	2	4	5	10	12	17	32	23	41	41	40	43	55	50	41	60	78	95
(206) Asthma	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	2	4	3	3
(207) Bronchiectasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	2	2
Lung diseases due to external agents	0	0	0	1	1	0	0	2	1	1	1	2	4	2	7	4	3	10	8	2	22	10
(208) Pneumoconioses and chemical effects	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	0	1	1	6	0
Pneumonitis due to solids and liquids	0	0	0	1	1	0	0	2	1	1	1	2	3	1	5	3	2	10	7	1	16	10
(209) Pneumonitis due to food and vomit	0	0	0	1	1	0	0	2	1	1	1	2	3	1	5	3	2	10	7	1	16	10
(212) Suppurative and necrotic conditions of lower respiratory tract	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0
(213) Pleural effusion and plaque	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3
(214) All other diseases of respiratory system	0	0	1	0	1	0	0	2	3	3	3	7	11	8	7	6	16	8	10	6	10	19
XI. Diseases of the digestive system	4	4	13	6	14	13	14	14	25	15	22	13	31	9	19	17	16	22	20	18	30	64
(215) Diseases of oral cavity, salivary glands and jaws	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Diseases of other parts of digestive system	4	4	13	6	14	13	14	14	24	15	22	13	31	9	19	17	16	22	20	18	30	63
(216) Diseases of esophagus	0	0	0	0	0	0	0	0	1	3	1	0	0	0	1	0	1	1	0	0	4	4
Peptic ulcer	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	2	2	1	1	1	0
(217) Gastric ulcer	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	1	1	1	0
(218) Duodenal ulcer	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0
(221) Gastritis and duodenitis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0
(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	0	2	2
(223) Diseases of appendix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(224) Hernia	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	6
(225) Crohn 's disease and ulcerative colitis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0
(226) Vascular disorders and obstruction of intestine without hernia	1	0	0	0	0	0	1	0	1	0	0	2	5	0	0	0	2	6	3	6	6	14
(227) Diverticular disease of intestine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	2	2	2	6
(228) Other diseases of intestines and peritoneum	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	1	1	1	1	5
(229) Diseases of peritoneum	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0
Diseases of liver	2	4	13	6	12	13	13	12	17	10	20	9	20	7	13	9	3	5	7	2	6	4
(230) Alcoholic liver disease	2	4	10	3	8	7	4	7	10	4	11	3	7	3	7	1	0	1	1	0	1	0
(232) Fibrosis and cirrhosis of liver	0	0	2	0	2	4	7	3	5	1	5	4	4	2	3	5	2	1	4	0	4	2
(233) Other diseases of liver	0	0	1	3	2	2	2	2	5	4	2	9	2	3	3	1	3	2	2	1	2	2
(234) Cholelithiasis and other disorders of gallbladder	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	1	0	2	3	4	4
Disorders of biliary tract and pancreas	1	0	0	0	1	0	0	0	0	0	1	1	1	1	2	1	3	1	1	0	2	3
(235) Pancreatitis	0	0	0	0	1	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	1	1

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Table D-1
Frequency of Death by Sex, Age and 358 Selected Underlying Causes
Montana Residents, 2016

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.
(236) Other disorders of biliary tract and pancreas	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	1	1	0	1	2
(237) All other diseases of digestive system	0	0	0	0	0	0	0	1	2	0	0	0	3	0	1	1	2	2	2	4	6	15
XII. Diseases of the skin and subcutaneous tissue	0	0	0	0	0	1	1	0	1	2	1	0	2	1	4	2	0	2	4	1	4	5
(238) Infections of skin and subcutaneous tissue	0	0	0	0	0	1	0	0	1	1	0	0	0	1	4	2	0	1	1	0	3	3
(239) Other and unspecified diseases of skin and subcutaneous tissue	0	0	0	0	0	0	1	0	0	1	1	0	2	0	0	0	0	1	3	1	1	2
XIII. Diseases of the musculoskeletal system and connective tissue	0	0	1	0	0	0	0	1	1	0	1	3	1	1	3	2	3	7	6	8	11	22
(240) Rheumatoid arthritis and related inflammatory polyarthropathies	0	0	0	0	0	0	0	0	0	0	0	3	0	1	1	1	0	1	2	2	3	1
(241) Systemic lupus erythematosus	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
(242) Other arthropathies and related disorders	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	3	0	4	3	5
(243) Dorsopathies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	2	2
(244) Soft tissue disorders	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1
Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	1	1	2	1	2	13
(245) Osteoporosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	12
(246) Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	2	0	1	1
XIV. Diseases of the genitourinary system	0	0	1	0	3	0	3	4	5	5	12	6	6	11	9	12	14	12	15	13	46	51
Diseases of urinary system	0	0	1	0	3	0	3	4	5	5	12	5	5	10	9	11	14	12	15	13	43	50
Glomerular and renal tubulo-interstitial diseases	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	2	0	1	0	1	1
Glomerular diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
(249) Other and unspecified glomerular diseases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
(250) Renal tubulo-interstitial diseases	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	1	0	0	0	0	1
(251) Renal failure	0	0	1	0	3	0	2	2	4	9	4	4	6	4	9	10	8	9	8	33	31	
(252) Urolithiasis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
(254) Urinary tract infection, site not specified	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	1	1	4	5	6	13
(255) Other diseases of urinary system	0	0	0	0	0	0	0	0	2	0	2	0	0	0	3	0	1	2	1	0	3	5
Diseases of male genital organs	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0
(256) Hyperplasia of prostate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
(257) Other diseases of male genital organs	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Disorders of female genital organs	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	1
(259) Inflammatory diseases of female pelvic organs	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
(260) Noninflammatory disorders of female genital tract	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
XV. Pregnancy, childbirth and the puerperium	0	0	0	1	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	1	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	1	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
(275) Disorders related to short gestation and low birth weight, not elsewhere classified	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
(278) Respiratory distress of newborn	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	1	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

* 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, 2016

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.
XVII. Congenital malformations, deformations and chromosomal abnormalities	2	1	0	0	0	0	0	0	0	3	2	2	0	0	0	0	1	0	0	0	0	0
(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	1	0	0	0	0	0	0	0	0	0	0	0	0
(285) Congenital malformations of heart	1	1	0	0	0	0	0	0	0	1	0	0	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	0	0	0	0	0	0	0	0	0	0	0
(287) Congenital malformations of respiratory system	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0
(289) Down 's syndrome	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0
(290) All other chromosomal abnormalities, not elsewhere classified	1	0	0	0	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	2	0	1	1	1	0	2	0	2	2	2	2	5	3	1	3	4	4	1	5	20	36
(291) Senility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	15	19
Ill-defined and unknown causes of mortality	0	0	1	1	1	0	2	0	1	1	1	1	3	2	1	0	1	2	0	1	1	4
(292) Sudden infant death syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(293) Other ill-defined and unknown causes of mortality	0	0	1	1	1	0	2	0	1	1	1	1	3	2	1	0	1	2	0	1	1	4
(294) All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	2	0	0	0	0	0	0	0	1	1	1	1	2	1	0	3	2	1	1	4	4	13
XX. External causes of mortality	37	20	43	23	32	18	44	22	59	26	40	18	31	15	35	17	22	14	27	17	56	87
Accidents (unintentional injuries)	18	11	20	15	18	7	23	14	33	15	26	13	20	13	21	15	15	12	21	14	53	85
Transport accidents	7	6	11	6	8	3	13	1	16	7	16	2	5	4	8	3	4	0	3	4	3	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	7	5	8	6	7	3	10	1	14	7	16	2	5	4	8	3	2	0	3	4	3	2
(296) Pedestrian involved in collision with motor vehicle	0	0	1	0	0	0	0	0	0	1	2	0	0	0	1	0	0	0	1	0	0	2
(297) Pedal cyclist involved in collision with motor vehicle	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
(298) Motorcyclist involved in any accident except collision with railway train	1	0	0	0	1	0	1	0	2	0	4	0	0	0	1	0	0	0	0	0	0	0
(301) Occupant of motor vehicle involved in collision with other (non-motorized) road vehicle, streetcar, animal or pedestrian	0	1	0	0	0	0	1	0	0	1	0	0	2	0	0	0	0	0	1	0	0	0
(302) Occupant of car, pickup truck or van involved in collision with other motor vehicle	0	3	2	2	1	0	2	0	2	0	3	0	0	1	0	1	0	0	0	0	0	0
(303) Occupant of heavy transport vehicle or bus involved in collision with other motor vehicle	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(304) Occupant of motor vehicle involved in noncollision accident	1	1	2	1	2	1	2	1	3	1	3	0	1	0	1	0	1	0	0	2	1	0
(305) Occupant of special-use motor vehicle involved in any accident	2	0	1	0	0	0	1	0	2	0	2	0	0	1	1	0	0	0	1	0	2	0
(306) Other and unspecified motor vehicle accidents	2	0	2	3	2	2	2	0	4	4	2	2	2	2	4	2	1	0	1	1	0	0
(308) Other and unspecified land transport accidents	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
(309) Water transport accidents	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(310) Air and space transport accidents	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
(311) Other and unspecified transport accidents and their sequelae	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Falls	0	1	1	0	1	0	2	4	6	1	1	2	5	3	8	5	7	7	10	7	34	58
(312) Fall on same level	0	1	1	0	0	0	1	1	2	0	1	0	3	2	4	2	2	3	5	0	16	33
(313) Fall from one level to another	0	0	0	0	1	0	1	1	4	1	0	1	2	0	2	0	0	1	2	1	1	1
(314) Unspecified fall	0	0	0	0	0	0	0	2	0	0	0	1	0	1	2	3	5	3	3	6	17	24
(315) Accidental discharge of firearms	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
(316) Accidental explosion	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(317) Accidental drowning and submersion	0	0	0	0	0	0	2	0	0	0	2	1	1	0	0	1	0	0	1	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, 2016

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.
(318) Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract	0	0	0	1	0	0	0	0	2	0	0	0	1	2	1	1	2	2	1	1	3	2
(319) Other accidental and unspecified threats to breathing	0	0	0	1	1	0	2	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0
(320) Accidental exposure to electric current	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
(322) Accidental exposure to smoke, fire and flames	0	0	0	1	0	0	1	0	0	0	0	0	4	2	0	1	0	0	0	0	0	0
(325) Earthquake, volcanic eruption, avalanche landslide and other earth movements	0	0	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	5	4	6	5	7	3	1	8	5	5	4	7	1	0	1	1	0	0	1	0	0	0
(327) Accidental poisoning by and exposure to drugs and other biological substances	4	4	4	5	6	1	1	8	4	5	3	6	1	0	1	1	0	0	1	0	0	0
(328) Accidental poisoning by and exposure to other and unspecified solid or liquid substances	0	0	1	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
(329) Accidental poisoning by and exposure to other gases and vapors	1	0	1	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
(330) All other and unspecified accidents and their sequelae	5	0	1	1	1	1	2	1	3	2	3	1	2	1	2	3	1	3	5	1	13	23
Intentional self-harm (suicide)	14	6	20	5	13	3	18	4	21	6	12	4	9	2	9	1	5	1	6	1	2	0
(331) Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances	1	3	0	1	1	0	2	0	0	3	1	3	1	0	0	0	0	0	0	1	0	0
(333) Intentional self-poisoning (suicide) by and exposure to other gases and vapors	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
(334) Intentional self-harm (suicide) by hanging, strangulation and suffocation	5	0	4	1	2	1	4	1	5	2	0	0	1	2	1	0	0	0	0	0	0	0
(335) Intentional self-harm (suicide) by discharge of firearms	6	3	15	2	10	2	12	3	15	1	9	1	7	0	7	1	4	1	6	0	2	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	0
(337) Intentional self-harm (suicide) by all other and unspecified means and their sequelae	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0
Assault (homicide)	0	2	2	2	0	3	1	2	2	1	2	0	0	0	0	0	1	1	0	0	0	0
(338) Assault (homicide) by drugs, biological substances and other and unspecified noxious substances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(339) Assault (homicide) by hanging, strangulation and suffocation	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(340) Assault (homicide) by discharge of firearms	0	2	2	1	0	2	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0
(341) Assault (homicide) by sharp object	0	0	0	0	0	1	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	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Event of undetermined intent	3	1	0	1	1	5	2	2	2	4	0	1	1	0	4	0	0	0	0	0	0	0
(347) Poisoning by and exposure to drugs and biological substances, undetermined intent	1	1	0	1	1	3	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0
(348) Poisoning by and exposure to other and unspecified solid or liquid substance, undetermined intent	0	0	0	0	0	1	0	0	0	0	0	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	1	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
(351) Falling, jumping or pushed from a high place, undetermined intent	0	0	0	0	0	0	0	0	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	0	0	0	0	1	0	0	0	0	1	1	0	4	0	0	0	0	0	0	0
Legal intervention	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(354) Other legal intervention and their sequelae	2	0	1	0	0	0	0	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	0	0	1	0	1	0	1	1	0	2	1	2

* 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, 2016

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.	
(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	0	0	0	1	0	0	0	0	0	
(358) Other complications of medical and surgical care and their sequelae	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	1	0	2	1	2

* 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, 2016

Cause of Death**	Total***				MALE				FEMALE			
	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other
All Causes	9,902	9,237	595	70	5,147	4,780	325	42	4,755	4,457	270	28
(3) Certain other intestinal infections	26	23	2	1	8	7	0	1	18	16	2	0
(9#) Septicemia	112	107	5	0	51	49	2	0	61	58	3	0
(14#) Viral hepatitis	27	20	7	0	20	16	4	0	7	4	3	0
(15#) Human immunodeficiency virus (HIV) disease	3	2	1	0	3	2	1	0	0	0	0	0
(17) Other and unspecified infectious and parasitic diseases and their sequelae	35	32	3	0	17	15	2	0	18	17	1	0
(#) Malignant neoplasms	2,032	1,934	80	18	1,107	1,053	42	12	925	881	38	6
(18) Malignant neoplasms of lip, oral cavity and pharynx	32	29	2	1	21	19	1	1	11	10	1	0
(19) Malignant neoplasm of esophagus	62	61	1	0	49	48	1	0	13	13	0	0
(20) Malignant neoplasm of stomach	31	30	0	1	21	20	0	1	10	10	0	0
(21) Malignant neoplasms of colon, rectum and anus	187	174	10	3	106	98	6	2	81	76	4	1
(22) Malignant neoplasms of liver and intrahepatic bile ducts	74	61	9	4	49	39	7	3	25	22	2	1
(23) Malignant neoplasm of pancreas	147	144	3	0	89	87	2	0	58	57	1	0
(24) Malignant neoplasm of larynx	5	4	1	0	5	4	1	0	0	0	0	0
(25) Malignant neoplasms of trachea, bronchus and lung	477	454	22	1	232	220	12	0	245	234	10	1
(26) Malignant melanoma of skin	37	37	0	0	25	25	0	0	12	12	0	0
(27) Malignant neoplasm of breast	139	135	3	1	2	2	0	0	137	133	3	1
(28) Malignant neoplasm of cervix uteri	10	9	1	0	0	0	0	0	10	9	1	0
(29) Malignant neoplasms of corpus uteri and uterus, part unspecified	29	27	2	0	0	0	0	0	29	27	2	0
(30) Malignant neoplasm of ovary	52	50	2	0	0	0	0	0	52	50	2	0
(31) Malignant neoplasm of prostate	143	138	5	0	143	138	5	0	0	0	0	0
(32) Malignant neoplasms of kidney and renal pelvis	50	46	1	3	34	31	1	2	16	15	0	1
(33) Malignant neoplasm of bladder	47	45	1	1	35	34	0	1	12	11	1	0
(34) Malignant neoplasms of meninges, brain and other parts of central nervous system	64	63	1	0	34	34	0	0	30	29	1	0
Malignant neoplasms of lymphoid, hematopoietic and related tissue	202	195	6	1	126	123	2	1	76	72	4	0
(35) Hodgkin's disease	5	5	0	0	2	2	0	0	3	3	0	0
(36) Non-Hodgkin's lymphoma	78	77	1	0	52	51	1	0	26	26	0	0
(37) Leukemia	79	74	4	1	47	45	1	1	32	29	3	0
(38) Multiple myeloma and immunoproliferative neoplasms	39	38	1	0	25	25	0	0	14	13	1	0
(39) Other and unspecified malignant neoplasms of lymphoid hematopoietic and related tissue	1	1	0	0	0	0	0	0	1	1	0	0
(40) All other and unspecified malignant neoplasms	244	232	10	2	136	131	4	1	108	101	6	1
(41#) In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	68	66	2	0	37	36	1	0	31	30	1	0
(42#) Anemias	15	15	0	0	4	4	0	0	11	11	0	0
(43#) Diabetes mellitus	311	251	56	4	183	146	33	4	128	105	23	0
(#) Nutritional deficiencies	44	40	3	1	12	12	0	0	32	28	3	1
(44) Malnutrition	43	39	3	1	11	11	0	0	32	28	3	1
(45) Other nutritional deficiencies	1	1	0	0	1	1	0	0	0	0	0	0
(46#) Meningitis	4	4	0	0	2	2	0	0	2	2	0	0
(47#) Parkinson's disease	104	101	3	0	71	70	1	0	33	31	2	0
(48#) Alzheimer's disease	314	306	6	2	114	110	4	0	200	196	2	2
Major cardiovascular diseases	2,766	2,639	113	14	1,458	1,378	69	11	1,308	1,261	44	3
(#) Diseases of heart	2,134	2,039	86	9	1,197	1,135	53	9	937	904	33	0
(49) Acute rheumatic fever and chronic rheumatic heart diseases	18	18	0	0	6	6	0	0	12	12	0	0
(50) Hypertensive heart disease	98	94	4	0	50	48	2	0	48	46	2	0
(51) Hypertensive heart and renal disease	12	12	0	0	6	6	0	0	6	6	0	0
Ischemic heart diseases	1,189	1,125	59	5	777	734	38	5	412	391	21	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-2
Frequency of Death by Sex, Race* and 113 Selected Underlying Causes and Enterocolitis due to Clostridium Difficile**
Montana Residents, 2016

Cause of Death**	Total***				MALE				FEMALE			
	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other	Total	White	AI/AN^	Other
(52) Acute myocardial infarction	281	265	14	2	188	177	9	2	93	88	5	0
(53) Other acute ischemic heart diseases	9	6	3	0	5	3	2	0	4	3	1	0
Other forms of chronic ischemic heart disease	899	854	42	3	584	554	27	3	315	300	15	0
(54) Atherosclerotic cardiovascular disease, so described	469	448	20	1	305	292	12	1	164	156	8	0
(55) All other forms of chronic ischemic heart disease	430	406	22	2	279	262	15	2	151	144	7	0
Other heart diseases	817	790	23	4	358	341	13	4	459	449	10	0
(56) Acute and subacute endocarditis	6	3	3	0	3	1	2	0	3	2	1	0
(57) Diseases of pericardium and acute myocarditis	1	1	0	0	0	0	0	0	1	1	0	0
(58) Heart failure	362	357	3	2	149	145	2	2	213	212	1	0
(59) All other forms of heart disease	448	429	17	2	206	195	9	2	242	234	8	0
(60#) Essential hypertension and hypertensive renal disease	82	76	6	0	30	26	4	0	52	50	2	0
(61#) Cerebrovascular diseases	439	421	15	3	180	169	9	2	259	252	6	1
(62#) Atherosclerosis	22	22	0	0	11	11	0	0	11	11	0	0
Other diseases of circulatory system	89	81	6	2	40	37	3	0	49	44	3	2
(63#) Aortic aneurysm and dissection	47	44	3	0	24	22	2	0	23	22	1	0
(64) Other diseases of arteries, arterioles and capillaries	42	37	3	2	16	15	1	0	26	22	2	2
(65) Other disorders of circulatory system	29	27	2	0	13	13	0	0	16	14	2	0
(#) Influenza and pneumonia	148	135	12	1	69	62	6	1	79	73	6	0
(66) Influenza	26	24	1	1	15	13	1	1	11	11	0	0
(67) Pneumonia	122	111	11	0	54	49	5	0	68	62	6	0
Other acute lower respiratory infections	2	2	0	0	1	1	0	0	1	1	0	0
(68#) Acute bronchitis and bronchiolitis	2	2	0	0	1	1	0	0	1	1	0	0
(#) Chronic lower respiratory diseases	722	692	28	2	343	331	12	0	379	361	16	2
(70) Bronchitis, chronic and unspecified	1	1	0	0	1	1	0	0	0	0	0	0
(71) Emphysema	49	45	4	0	26	24	2	0	23	21	2	0
(72) Asthma	16	15	0	1	8	8	0	0	8	7	0	1
(73) Other chronic lower respiratory diseases	656	631	24	1	308	298	10	0	348	333	14	1
(74#) Pneumoconioses and chemical effects	14	13	1	0	11	10	1	0	3	3	0	0
(75#) Pneumonitis due to solids and liquids	67	60	6	1	36	32	3	1	31	28	3	0
(76) Other diseases of respiratory system	134	125	8	1	66	63	3	0	68	62	5	1
(77#) Peptic ulcer	9	8	1	0	5	4	1	0	4	4	0	0
(78#) Diseases of appendix	1	1	0	0	1	1	0	0	0	0	0	0
(79#) Hernia	9	9	0	0	2	2	0	0	7	7	0	0
(#) Chronic liver disease and cirrhosis	161	116	42	3	102	72	28	2	59	44	14	1
(80) Alcoholic liver disease	101	69	29	3	64	42	20	2	37	27	9	1
(81) Other chronic liver disease and cirrhosis	60	47	13	0	38	30	8	0	22	17	5	0
(82#) Cholelithiasis and other disorders of gallbladder	13	13	0	0	6	6	0	0	7	7	0	0
(#) Nephritis, nephrotic syndrome and nephrosis	154	134	16	4	81	70	10	1	73	64	6	3
(84) Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified	3	3	0	0	3	3	0	0	0	0	0	0
(85) Renal failure	151	131	16	4	78	67	10	1	73	64	6	3
(87#) Infections of kidney	3	3	0	0	0	0	0	0	3	3	0	0
(88#) Hyperplasia of prostate	3	3	0	0	3	3	0	0	0	0	0	0
(89#) Inflammatory diseases of female pelvic organs	1	1	0	0	0	0	0	0	1	1	0	0
(#) Pregnancy, childbirth and the puerperium	1	1	0	0	0	0	0	0	1	1	0	0
(91) Other complications of pregnancy childbirth and the puerperium	1	1	0	0	0	0	0	0	1	1	0	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-2

Frequency of Death by Sex, Race* and 113 Selected Underlying Causes and Enterocolitis due to Clostridium Difficile**
Montana Residents, 2016

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	31	24	6	1	14	10	4	0	17	14	2	1
(93#) Congenital malformations deformations and chromosomal abnormalities	28	22	5	1	14	12	1	1	14	10	4	0
(94) Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	127	111	14	2	53	48	5	0	74	63	9	2
(95) All other diseases (Residual)	1,406	1,326	69	11	599	569	25	5	807	757	44	6
(#) Accidents (unintentional injuries)	622	549	70	3	372	326	43	3	250	223	27	0
Transport accidents	214	168	43	3	154	124	27	3	60	44	16	0
(96) Motor vehicle accidents	198	154	42	2	141	112	27	2	57	42	15	0
(97) Other land transport accidents	4	3	1	0	2	2	0	0	2	1	1	0
(98) Water, air and space, and other and unspecified transport accidents and their sequelae	12	11	0	1	11	10	0	1	1	1	0	0
Nontransport accidents	408	381	27	0	218	202	16	0	190	179	11	0
(99) Falls	165	159	6	0	77	73	4	0	88	86	2	0
(100) Accidental discharge of firearms	5	5	0	0	5	5	0	0	0	0	0	0
(101) Accidental drowning and submersion	13	13	0	0	9	9	0	0	4	4	0	0
(102) Accidental exposure to smoke, fire and flames	11	11	0	0	7	7	0	0	4	4	0	0
(103) Accidental poisoning and exposure to noxious substances	100	87	13	0	56	49	7	0	44	38	6	0
(104) Other and unspecified nontransport accidents and their sequelae	114	106	8	0	64	59	5	0	50	47	3	0
(#) Intentional self-harm (suicide)	267	249	18	0	219	205	14	0	48	44	4	0
(105) Intentional self-harm (suicide) by discharge of firearms	162	155	7	0	143	136	7	0	19	19	0	0
(106) Intentional self-harm (suicide) by other and unspecified means and their sequelae	105	94	11	0	76	69	7	0	29	25	4	0
(#) Assault (homicide)	41	30	11	0	23	16	7	0	18	14	4	0
(107) Assault (homicide) by discharge of firearms	18	17	1	0	9	9	0	0	9	8	1	0
(108) Assault (homicide) by other and unspecified means and their sequelae	23	13	10	0	14	7	7	0	9	6	3	0
(109#) Legal intervention	4	4	0	0	4	4	0	0	0	0	0	0
Events of undetermined intent	34	29	5	0	18	15	3	0	16	14	2	0
(110) Discharge of firearms, undetermined intent	5	5	0	0	2	2	0	0	3	3	0	0
(111) Other and unspecified events of undetermined intent and their sequelae	29	24	5	0	16	13	3	0	13	11	2	0
(113#) Complications of medical and surgical care	10	10	0	0	5	5	0	0	5	5	0	0
(#) Enterocolitis due to Clostridium difficile	17	15	1	1	5	4	0	1	12	11	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, 1953-2016

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*
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	1,901	208.5	211	23.1	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	1,985	219.6	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
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

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, 1953-2016

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*
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, 1930-2016

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

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
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	942	110	2	150	287	240	100	84	28	11	31	38	29	64	45	44	9	349	280
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	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
1973	580	481	86	0	85	172	37	67	87	19	8	9	19	21	25	30	42	15	187	152

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, 1960-2016

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
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	73	32	5	36
Certain infectious and parasitic diseases	1	0	0	1
Viral diseases	1	0	0	1
(16) Other and unspecified viral diseases	1	0	0	1
Endocrine, nutritional and metabolic diseases	1	0	0	1
(32) All other endocrine, nutritional and metabolic diseases	1	0	0	1
Diseases of the nervous system	2	0	1	1
(33#) Meningitis	1	0	0	1
(36#) Anoxic brain damage, not elsewhere classified	1	0	1	0
(#) Diseases of the circulatory system	1	0	0	1
(44) All other diseases of circulatory system	1	0	0	1
Diseases of the respiratory system	1	0	0	1
(#) Influenza and pneumonia	1	0	0	1
(46) Influenza	1	0	0	1
Diseases of the digestive system	3	0	0	3
(55) All other and unspecified diseases of digestive system	3	0	0	3
Certain conditions originating in the perinatal period	29	23	4	2
Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	10	10	0	0
# Newborn affected by maternal complications of pregnancy	18	18	0	0
(61) Newborn affected by premature rupture of membranes	5	5	0	0
(#) Newborn affected by complications of placenta, cord and membranes	4	4	0	0
(64) Newborn affected by complications involving placenta	1	1	0	0
(66) Newborn affected by chorioamnionitis	3	3	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	8	8	0	0
(#) Disorders related to short gestation and low birth weight, not elsewhere classified	8	8	0	0
(71) Extremely low birth weight or extreme immaturity	6	6	0	0
(72) Other low birth weight or preterm	2	2	0	0
(#) Intrauterine hypoxia and birth asphyxia	1	0	1	0
(76) Birth asphyxia	1	0	1	0
(77#) Respiratory distress of newborn	2	1	1	0
Other respiratory conditions originating in the perinatal period	1	0	0	1
(82#) Chronic respiratory disease originating in the perinatal period	1	0	0	1
Infections specific to the perinatal period	1	1	0	0
(85#) Bacterial sepsis of newborn	1	1	0	0
Hemorrhagic and hematological disorders of newborn	1	0	0	1
(90#) Hemolytic disease of newborn due to isoimmunization and other perinatal jaundice	1	0	0	1
(93#) Necrotizing enterocolitis of newborn	2	0	2	0
(95) Other perinatal conditions	3	3	0	0
(#) Congenital malformations, deformations and chromosomal abnormalities	10	7	0	3
(96) Anencephaly and similar malformations	1	1	0	0
(99) Other congenital malformations of nervous system	1	1	0	0
(100) Congenital malformations of heart	1	0	0	1
(102) Congenital malformations of respiratory system	1	1	0	0
(105) Congenital malformations and deformations of musculoskeletal system, limbs and integument	2	2	0	0
(107) Edward's syndrome	3	2	0	1
(109) Other congenital malformations and deformations	1	0	0	1
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	18	2	0	16
(111#) Sudden infant death syndrome	4	0	0	4
(112) Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	14	2	0	12
External causes of mortality	7	0	0	7
(#) Accidents (unintentional injuries)	3	0	0	3
Transport accidents	1	0	0	1
(114) Motor vehicle accidents	1	0	0	1
(119) Accidental suffocation and strangulation in bed	2	0	0	2
(#) Assault (homicide)	3	0	0	3
(125) Assault (homicide) by hanging, strangulation and suffocation	1	0	0	1
(126) Assault (homicide) by discharge of firearms	1	0	0	1
(128) Assault (homicide) by other and unspecified means	1	0	0	1
(130) Other external causes	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, 1992-2016

Year	Births	0 7 Days	8 27 Days	28 Days 1 Year	Infant Deaths	Infant Death Rate*
2012-2016	61,688	169	37	145	353	5.7
2007-2011	61,409	171	49	150	375	6.1
2002-2006	58,015	162	41	157	361	6.2
1997-2001	54,298	171	33	155	363	6.7
1992-1996	55,868	179	33	191	405	7.2

* Rate per 1,000 live births

Table D-8
Frequency of Maternal and Late Maternal Deaths* by Year
Montana Residents, 2006-2016

	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
Total, all Maternal and Late Maternal Causes	1	1	4	6	2	7	2	5	2	4	2
Maternal causes (A34, O00-O95, O98-O99)	1	0	3	4	0	5	1	5	1	2	0
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)	0	0	3	3	0	1	0	1	1	1	0
Eclampsia and pre-eclampsia (O11, O13-O16)	0	0	0	1	0	1	0	1	0	1	0
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)	0	0	3	2	0	0	0	0	1	0	0
Obstetric death of unspecified cause (O95)	0	0	0	1	0	1	1	0	0	0	0
Indirect obstetric causes (O98-O99)	1	0	0	0	0	3	0	4	0	1	0
Maternal causes more than 42 days after delivery or termination of pregnancy (O96-O97)	0	1	1	2	2	2	1	0	1	2	2
Death from any obstetric cause occurring more than 42 days but less than one year after delivery (O96)	0	1	1	2	2	2	1	0	1	2	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	17.6	16.6	25.4	20,715	365,086	0	73.6	78	78	60	108	18.3	47,513
HIV Infection	23.1	23.1	26.0	22	508	36	51.9	52.5	52	49	69	9.4	22
Cancer	12.0	11.9	14.5	5,605	67,530	3	72.0	73	73	67.5	106	12.8	10,126
Diabetes	14.5	13.7	16.8	705	10,194	20	72.2	74	76	65	107	15.0	1,365
Alzheimer's Disease	5.8	5.7	11.0	86	495	58	86.8	88	88	83	103	7.4	1,370
Heart Disease	12.6	12.3	16.1	3,581	45,219	0	78.0	81	82	68	106	14.0	10,030
Cerebrovascular Disease	12.3	12.4	12.3	543	6,700	0	81.0	84	84	72	106	13.0	2,258
Atherosclerosis	10.8	9.8	18.3	26	281	48	79.4	80	81	59.5	105	12.3	90
Influenza and Pneumonia	16.4	15.0	27.3	223	3,667	0	80.3	85	85	72	106	16.3	871
Chronic Lower Respiratory Diseases	9.7	9.6	10.7	1,284	12,407	0	76.8	78	78	75	104	11.4	3,311
Chronic Liver Disease and Cirrhosis	20.0	17.6	25.9	699	13,975	24	57.8	57	60	51	94	12.9	785
Nephritis, Nephrotic Syndrome & Nephrosis	13.2	11.4	19.8	213	2,808	24	77.9	81	83	63	104	14.1	629
Congenital Malformations & Chromosomal Anomalies	51.3	49.7	62.5	146	7,489	0	29.2	17	25	0	96	31.7	160
Conditions Originating in Perinatal Period	74.6	74.5	74.6	135	10,068	0	0.4	0	0	0	35	3.2	135
Sudden Infant Death Syndrome	75.0	75.0	75.0	43	3,225	0	0.0	0	0	0	0	0.0	43
Motor Vehicle Accidents	35.5	34.1	40.6	954	33,911	0	42.5	41	44	31	94	20.6	1,028
Non0Motor Vehicle Accidents	29.1	28.4	32.8	1,053	30,596	0	65.1	70	74	47	104	25.0	1,946
Suicide	32.0	30.8	43.1	1,154	36,906	11	46.1	46	48	28.5	95	18.8	1,250
Homicide	39.0	37.2	42.6	159	6,202	0	37.5	37	39	30.5	87	19.5	165
Other Causes	17.9	16.7	24.9	4,084	72,905	0	76.8	82	83	61	108	17.8	11,929

* 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, 2016

Cause of Death	All Gestational Ages	Less Than 23 Weeks	23 To 33 Weeks	34 Weeks or More
All Causes	53	14	22	17
Certain conditions originating in the perinatal period	46	12	18	16
(#) Fetus affected by maternal conditions that may be unrelated to present pregnancy	3	0	1	2
(17) Fetus affected by maternal hypertensive disorders	1	0	1	0
(24) Fetus affected by other medical procedures and maternal conditions	2	0	0	2
(#) Fetus affected by maternal complications of pregnancy	8	5	3	0
(26) Fetus affected by incompetent cervix	2	2	0	0
(27) Fetus affected by premature rupture of membranes	3	2	1	0
(31) Fetus affected by multiple pregnancy	2	0	2	0
(340) Fetus affected by other and unspecified maternal complications of pregnancy	1	1	0	0
(#) Fetus affected by complications of placenta, cord and membranes	14	3	6	5
(36) Fetus affected by other forms of placental separation and hemorrhage	5	0	4	1
(37) Fetus affected by other and unspecified morphological and functional abnormalities of placenta	1	0	0	1
(38) Fetus affected by placental transfusion syndromes	2	2	0	0
(40) Fetus affected by other compression of umbilical cord	4	1	0	3
(41) Fetus affected by other and unspecified conditions of umbilical cord	2	0	2	0
(#) Fetus affected by other complications of labor and delivery	1	1	0	0
(51) Fetus affected by other and unspecified complications of labor and delivery	1	1	0	0
(52#) Fetus affected by noxious influences transmitted via placenta	1	0	1	0
(53#) Slow fetal growth and fetal malnutrition	1	1	0	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	16	2	7	7
(87#) Hydrops fetalis not due to hemolytic disease	1	1	0	0
(88#) Fetal death of unspecified cause	15	1	7	7
(#) Congenital malformations, deformations and chromosomal abnormalities	6	2	3	1
Congenital malformations of nervous system	1	1	0	0
(94) Anencephaly and similar malformations	1	1	0	0
(104) Other congenital malformations of circulatory system	1	0	1	0
Congenital malformations of urinary system	1	0	1	0
(109) Renal agenesis and other reduction defects of kidney	1	0	1	0
(112) Congenital malformations and deformations of musculoskeletal system, limbs and integument	1	0	1	0
Other congenital malformations	2	1	0	1
(114) Multiple congenital malformations, not elsewhere classified	2	1	0	1
All other causes	1	0	1	0

* 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, 2003-2016

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
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
2012	2,031	10	‡	298	14.8%	695	34.5%	482	23.9%	296	14.7%	170	8.4%	80	3.9%	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
2010	2,160	11	‡	341	15.9%	760	35.5%	509	23.8%	291	13.6%	178	8.3%	70	3.2%	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
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, 2003-2016

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
2016	1,618	1032	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
2012	2,031	1399	69.8%	487	24.3%	68	3.3%	32	1.5%	31	1.5%	14	†	0	0
2011	2,147	1491	70.0%	520	24.4%	61	2.8%	27	1.2%	39	1.8%	9	†	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
2003	2,213	1186	53.8%	775	35.2%	99	4.4%	48	2.1%	72	3.2%	27	1.2%	6	‡

† 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, 2003-2016

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

Year	Race									
	Total	White		AI/AN		Other		Not Stated		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
2016	1,618	1410	87.5%	126	7.8%	78	4.8%	†	‡	
2015	1,611	1412	88.0%	132	8.2%	63	3.9%	†	‡	
2014	1,690	1517	91.4%	117	7.0%	40	2.4%	16	‡	
2013	1,842	1585	86.0%	151	8.1%	76	4.1%	30	1.6%	
2012	2,031	1798	88.5%	148	7.2%	61	3.0%	24	1.1%	
2011	2,147	1890	88.0%	145	6.7%	83	3.8%	29	1.3%	
2010	2,160	1874	86.7%	174	8.0%	79	3.6%	33	1.5%	
2009	2,223	1904	85.6%	187	8.4%	50	2.2%	82	3.6%	
2008	2,125	1764	83.0%	167	7.8%	112	5.2%	82	3.8%	
2007	2,238	1865	83.3%	156	6.9%	144	6.4%	73	3.2%	
2006	2,119	1699	80.1%	172	8.1%	36	1.6%	212	10.0%	
2005	2,155	1764	81.8%	245	11.3%	52	2.4%	94	4.3%	
2004	2,256	1934	85.7%	214	9.4%	34	1.5%	74	3.2%	
2003	2,213	1830	82.6%	220	9.9%	42	1.8%	121	5.4%	

† 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, 2003-2016

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
2016	1,618	618	38.1%	664	41.0%	260	16.0%	76	4.6%	0	0
2015	1,611	563	34.9%	716	44.4%	221	13.7%	111	6.8%	0	0
2014	1,690	427	25.2%	934	55.2%	220	13.0%	109	6.4%	0	0
2013	1,842	612	33.2%	831	45.1%	266	14.4%	133	7.2%	0	0
2012	2,031	810	39.8%	823	40.5%	284	13.9%	114	5.6%	0	0
2011	2,147	837	38.9%	877	40.8%	291	13.5%	142	6.6%	0	0
2010	2,160	894	41.3%	805	37.2%	307	14.2%	154	7.1%	0	0
2009	2,223	852	38.3%	891	40.0%	316	14.2%	164	7.3%	0	0
2008	2,125	754	35.4%	905	42.5%	324	15.2%	142	6.6%	0	0
2007	2,238	722	32.2%	1001	44.7%	341	15.2%	174	7.7%	0	0
2006	2,119	782	36.9%	908	42.8%	299	14.1%	130	6.1%	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
2003	2,213	1431	64.6%	543	24.5%	168	7.5%	71	3.2%	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, 2003-2016

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
2016	1,618	770	47.5%	361	22.3%	297	18.3%	126	7.7%	64	3.9%	0	0
2015	1,611	820	50.9%	355	22.0%	249	15.4%	126	7.8%	61	3.7%	0	0
2014	1,690	847	50.1%	414	24.4%	260	15.3%	110	6.5%	59	3.4%	0	0
2013	1,842	928	50.3%	412	22.3%	295	16.0%	137	7.4%	70	3.8%	0	0
2012	2,031	1031	50.7%	420	20.6%	370	18.2%	144	7.0%	66	3.2%	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
2009	2,223	1038	46.6%	541	24.3%	386	17.3%	162	7.2%	96	4.3%	0	0
2008	2,125	1046	49.2%	516	24.2%	352	16.5%	132	6.2%	79	3.7%	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
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
2003	2,213	1069	48.3%	545	24.6%	378	17.0%	155	7.0%	66	2.9%	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.

