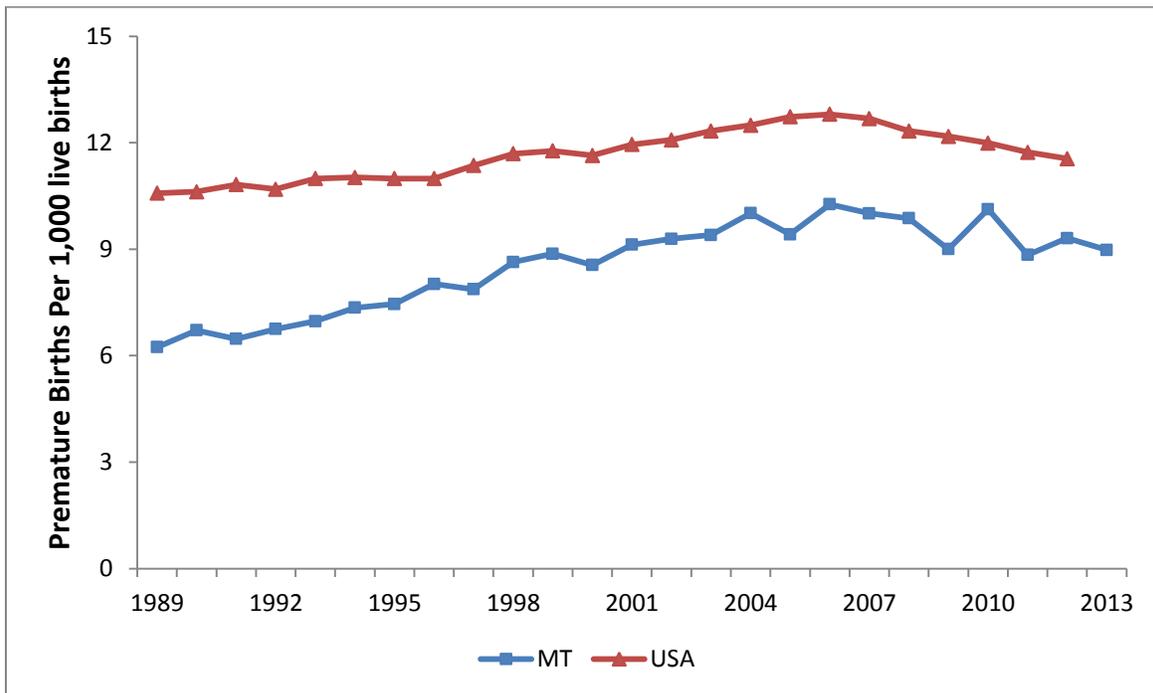


# 2013

## Montana Vital Statistics

MONTANA DEPARTMENT OF PUBLIC HEALTH AND HUMAN SERVICES  
PUBLIC HEALTH AND SAFETY DIVISION

### Rate of Premature Live Births Montana and U.S. Residents 1989-2013



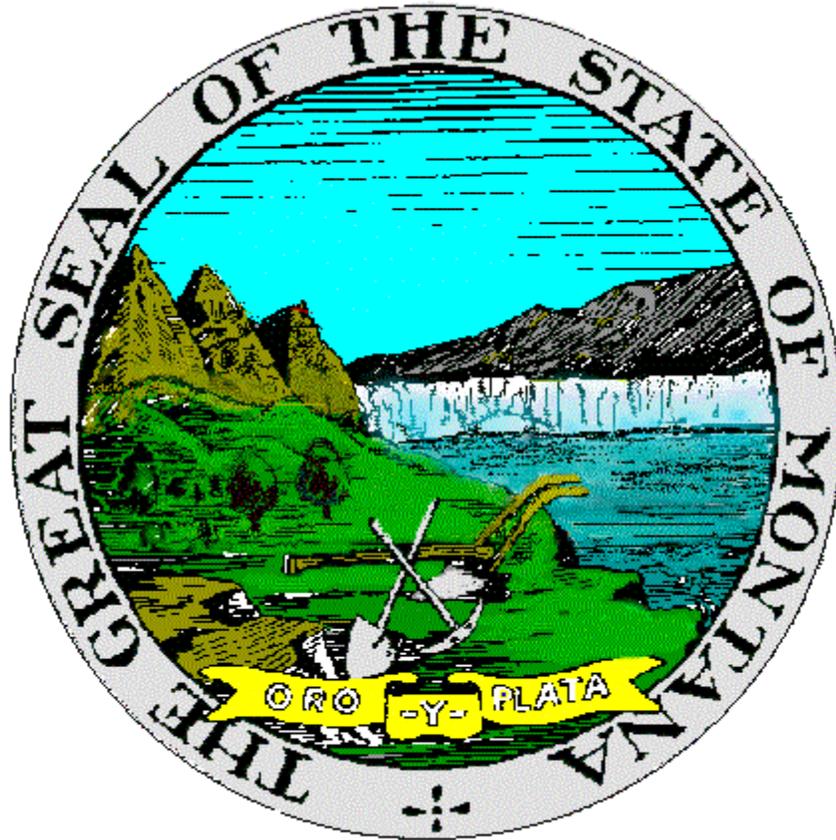
October 2014

# 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 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 data and monitors these files for data quality.
- ✦ Maintains 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, status assessment, and service assurance.



**The Honorable Steve Bullock  
Governor of Montana**

**Richard H. Opper  
Director  
Montana Department of Public Health and Human Services**

**OCTOBER, 2014**

## **PREPARED BY**

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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 it is intended primarily for reference, analysis and interpretation of the data are limited. The 2013 Montana Vital Statistics Report, and several prior reports and additional tabulations, are available on the Montana Vital Statistics website:

[www.dphhs.mt.gov/statisticalinformation/vitalstats/index.shtml](http://www.dphhs.mt.gov/statisticalinformation/vitalstats/index.shtml)

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 Senior Research Analyst at OESS (406-444-1746).

A general discussion of the sources and limitations of the data used, as well as the findings, with descriptive figures, appears in the first section of this report. Vital statistics reference tables for 2013 make up the remainder of the report. Where space permits, data for one or more prior years are provided for comparison. A List of Reference Tables precedes the tables. It 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

Records collected by the Office of Vital Statistics (OVS) provide the majority 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 the 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.

With the exception of reports of marital termination, which since October 1998 have been collected and edited by the Montana justice system and forwarded electronically to the OVS, the OVS staff checks all records and reports for accuracy and completeness and, when they are not acquired electronically, code them for data

entry. 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 summary statistical data to federal, state, and local government agencies, as well as many private organizations, modifying these forms as information requirements change.

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.

<b>NATALITY (birth records, 1989 to current data year)</b>
Date, hour, and place of birth.
Age, race, ancestry, 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.
<b>MORTALITY (death records, 1989 to current data year)</b>
Date, hour, and place of death, decedent’s age at death, sex, race, ancestry, education, marital status, birthplace, and place of residence.
Underlying and multiple causes of death, whether an autopsy was performed and, if so, whether results

<b>FETAL MORTALITY (1989 to current data year)</b>
Date, hour, and place of delivery.
Age, race, ancestry, 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.

# TECHNICAL OVERVIEW

## *Data Sources and Limitations*

### **Delay in Reporting**

This report reflects vital records, reports, and transcripts for calendar year 2013 received before July 15 of the following year. The number of records received after this date is small and consists largely of reports of events to MT residents that occur out of state, 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 through 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 (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 at the time of death or 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 the certificate with the designation of pending investigation and later amending the certificate. If the investigation does not point to one of the three options, the record can be filed as 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 provided in the narrative about how the death occurred. In Table 1 above, 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*. The nosologist, the person responsible for coding cause of death information, assigns an underlying cause using ICD-10 codes and coding procedures developed for nationwide use by 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.

### 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: the 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 following web site:

[http://www.cdc.gov/nchs/nvss/bridged\\_race.htm](http://www.cdc.gov/nchs/nvss/bridged_race.htm).

### Race

In 1997, the federal government changed the law to allow citizens responding to federal data collection systems to self-identify as belonging to more than one race and required all federal data collection systems to accommodate multiple race classification. Multiple race classification was initiated with the 2000 Census.

Using current guidelines for the reporting of race and ethnicity, respondents (usually parents of infants or relatives of decedents) are first asked about Hispanic ancestry, and then asked about race. Respondents are allowed to choose one or more races. For births and fetal deaths, the race and Hispanic ancestry of the infant or fetus are assigned based on the identification of the mother.

Multiple race classification was initiated in Montana in 2003 for death records and in 2008 for other vital records. In the 2010 Census, 90.6% of Montana residents identified themselves as white alone, 6.2% as American Indian or Alaska Native alone, 0.5% as Asian alone, and 0.3% as Black alone. Only 1.7% of Montana residents identified themselves as belonging to two or more races.

Individuals who self-identify as belonging to more than one race in vital records system are assigned to a single race for statistical reporting purposes, using a statistical model called Bridged Race classification. This applies both to the vital events reported (e.g., births, deaths) and to the population denominators from the Census used to compute rates for vital events. More detail about the Bridged Race process can be found at this website: [http://www.cdc.gov/nchs/data/dvs/multiple\\_race\\_docu\\_5-10-04.pdf](http://www.cdc.gov/nchs/data/dvs/multiple_race_docu_5-10-04.pdf).

In this report, only White and American Indian are reported as separate categories. The small number of events occurring to individuals of all other races are combined in the category Other.

### **Marital Status**

The mother's marital status is designated Married on the birth or fetal death records if the mother was reported on the certificate as married at birth, 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. The Divorced designation includes both marital dissolutions (formerly called divorces) and invalid marriages (formerly called annulments).

### **Limitations of Small Numbers**

Rates or trends based on small numbers of events are inherently unstable and must be interpreted with caution.

Rates and percentages are not calculated from fewer than 20 events. In order to prevent identification of individuals and their protected health information, this report suppresses counts of less than five in a table cell.

Tabulating events 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**

Montana vital events can be tabulated by place of occurrence, which may include out-of-state residents who give birth or die in Montana. Vital events can also be tabulated by place of residence, which may include events that happened out-of-state to individuals who are identified as permanent residents of Montana. Montana participates in the national State and Territorial Exchange of Vital Events (STEVE) system to facilitate the transfer of information about vital events from states of occurrence to states of residence. Tables or sections of tables in this report are labelled as Occurrence or Residence.

### **Use of Rates and Ratios**

Vital events are generally expressed as rates per 1,000 or per 100,000 population. The choice of the denominator is a matter of convention. The rates may be computed for the total population, regardless of the sex and age distribution; this is a crude rate. Crude rates should not be compared from one population to another.

Rates may be adjusted for the age composition of the population, particularly if age affects the likelihood of morbidity or mortality. Age-adjustment is done with reference to a standardized demographic population, usually the 2000 Standard Million population of the United States. Rates from any populations standardized to the same reference population may be directly compared. Rates may be further stratified by sex or race. Provided they are all standardized to the same reference population, they may be directly compared.

All rates and ratios in this report are labelled as crude or age-adjusted and the denominator is specified.

## 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 15<sup>th</sup> 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 projected U.S. population for the year 2000 as the standard population, as follows:

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

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

where  $S_i$  = the age-specific death rate for the  $i^{\text{th}}$  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 of 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 in the main childbearing ages (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.

**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  $\mu$  = the mean of the set of N values

where  $x_i$  = the  $i^{\text{th}}$  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.

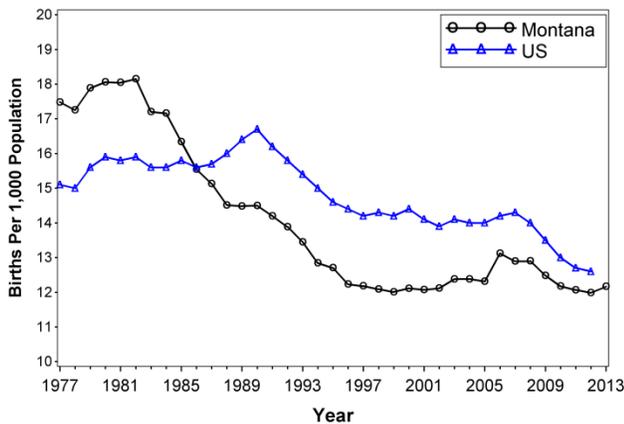
# NATALITY

There were 12,351 babies born to Montana residents in 2013. **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 was in a long-term decline from the early 1980s to 1999. However, the rate of births to Montana residents leveled off and even began to increase in the mid-2000s. The rate climbed to 13.1 per 1,000 residents in 2006, then declined in 2013 to a rate of 12.2 per 1,000 residents (**Figure 1**).

**Figure 1**

**Resident Birth Rates  
Montana and the United States, 1977-2013**



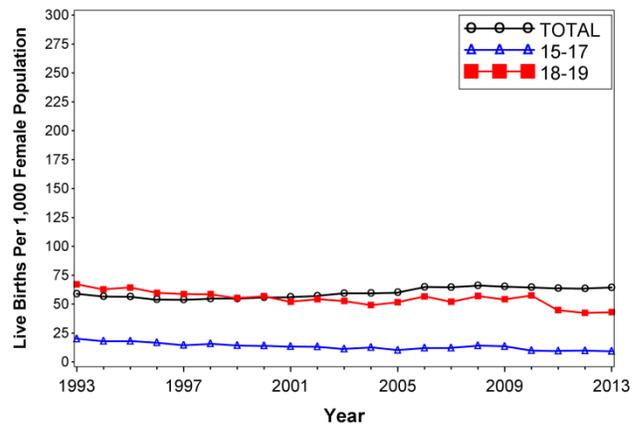
While the Montana birth rate exceeded the U.S. rate from the 1970s to the mid-1980s, it began to decline in the early 1980's and fell below the U.S. rate. Since that time, the Montana rate has been the lower of the two.

## 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 are higher for American Indian than for white women in Montana (**Figures 2 and 3**). The differences are especially notable for births to teens, age 15 to 17 and 18 and 19 years of age. Teen birth rates have been declining among American Indians.

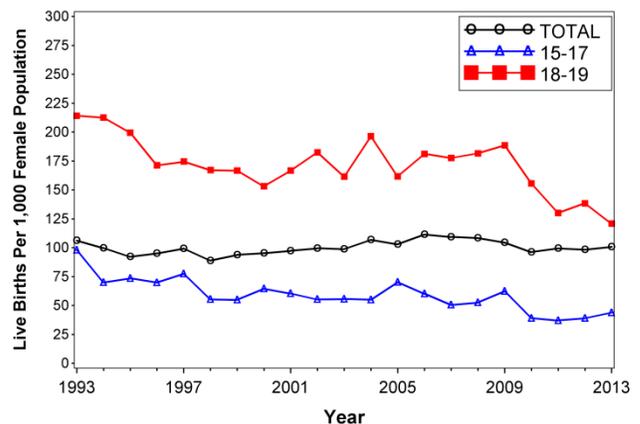
**Figure 2**

**Fertility Rates for White Mothers  
Total and Teens, 1993-2013**



**Figure 3**

**Fertility Rates for American Indian Mothers  
Total and Teens, 1993-2013**

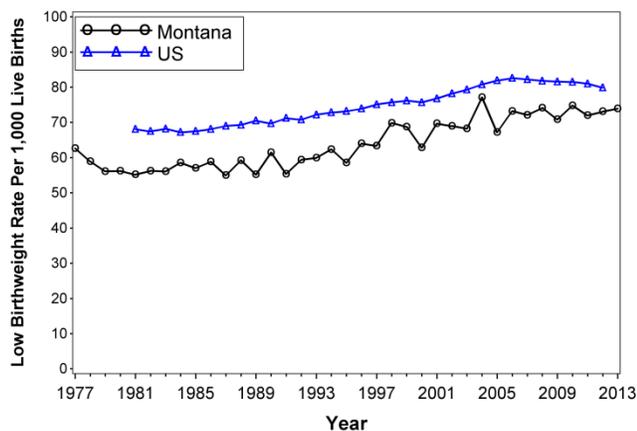


## Low Birth Weight

The rate of low birth weight (less than 2,500 grams or five pounds, eight ounces) in Montana is 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, 1977-2013



## Mother's Age, Race, and Marital Status

Of those Montanan mothers giving birth in 2013, slightly more than half (57.1%) were between 20 and 29 years of age (Table S-5). American Indian births comprised 14.3% of all births, and 85.9% 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 37.4% in 2013. By comparison, unmarried mothers in the U.S. accounted for 40.7% in 2012, 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, 1993-2013

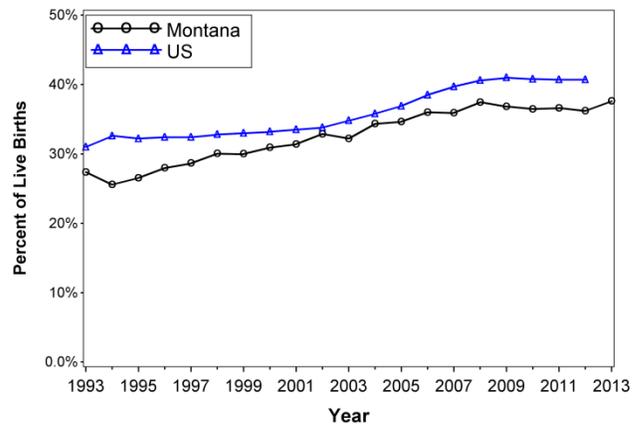


Table S-4 shows the frequency of birth by marital status of the mother for each of Montana's counties in 2013.

## Unreported Pregnancy Outcomes

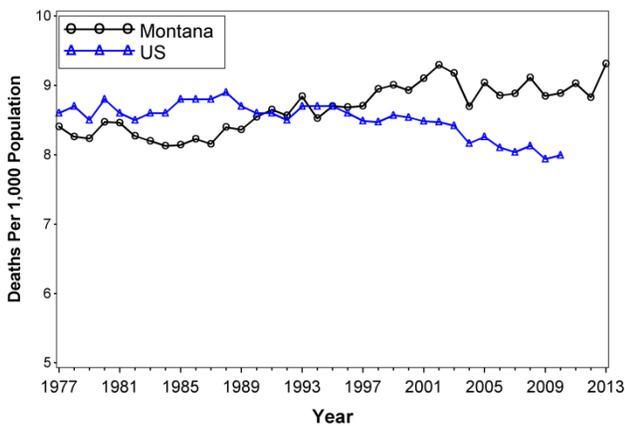
Table S-5 summarizes pregnancy outcomes reported to DPHHS for Montanans. Those outcomes are live births, fetal deaths where the weight of the fetus meets legal reporting criteria (weight of 350 grams or more or, if the weight is unknown, 20 or more weeks of completed gestation), and induced abortions provided within Montana's borders. Miscarriages that do not meet reporting criteria and induced abortions performed on Montanans outside Montana are not tabulated. 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 1977 (Figure 6). Conversely, the U.S. rate has been on a long-term decline since the late 1980's. In 2013 the Montana rate was 9.3 per 1,000 estimated midyear 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, 1976-2013

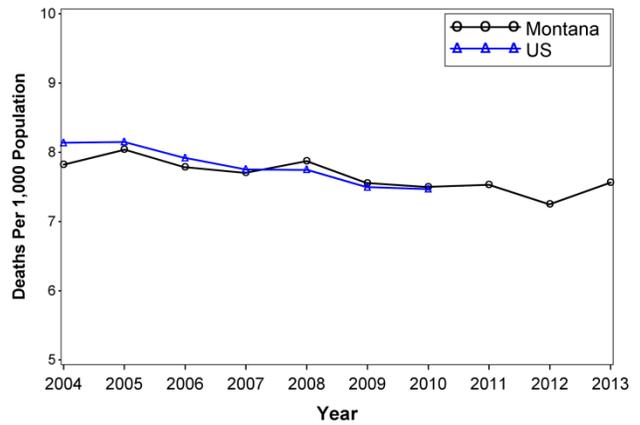


The death rate is closely related to the age structure of the population. It is therefore necessary to adjust for differences in the age distributions of populations when comparing death rates between those populations. (See the definition of "age adjusted death rate" in the Definitions section of this report for a description of the mathematics of age adjustment. Also, see the section on Age-Specific and Age-Adjusted Death Rates below for discussion of their proper use.) While the crude death rate represents the absolute risk of death in a single population at a particular time, the age-adjusted rate offers a better comparison of the relative risk of death between populations in different geographic areas at a single time or in the same geographic area at different times.

Montana's age-adjusted rate has been declining over the ten years profiled (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, 2003-2013

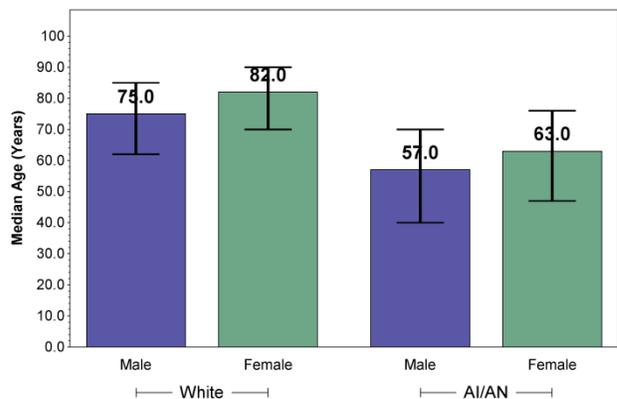


\* Adjusted with the direct method to the projected 2000 U.S. population.

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

Figure 8

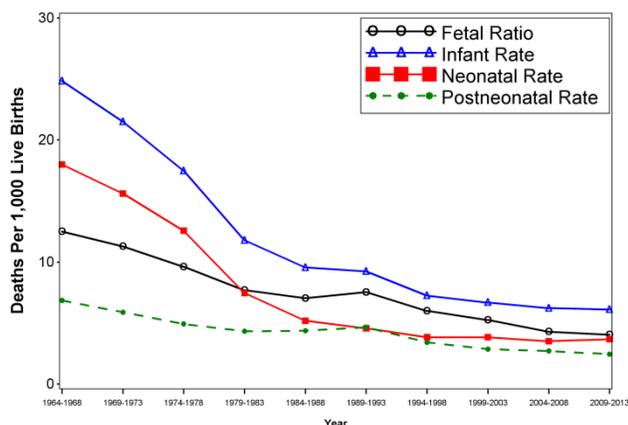
Median Age at Death,  
25<sup>th</sup> and 75<sup>th</sup> Percentiles,  
Montana Residents, 2009-2013



## 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, 1964-2013**



About two-thirds of all infant deaths in 2013 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 2013. There were 54 resident fetal deaths and 66 resident infant deaths in Montana in 2013.

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 list at

<http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>. For a complete list of the 130 potential causes of infant death that could appear in **Table D-6**, see the list at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/130causesinfantdeath.pdf>.)

**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. (See the list of 124 causes of fetal death, shown at:

<http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/124causesfetaldeath.pdf>, for a complete list of causes that could appear in **Table F-1**.) **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.

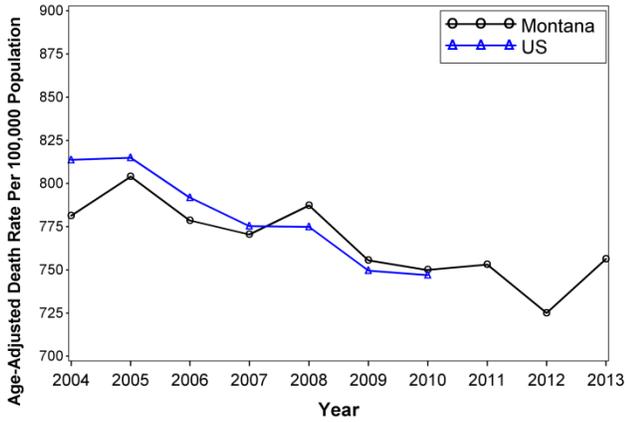
Age-adjusted death rates should be interpreted as index numbers rather than direct measures of mortality risk. They are useful for making comparisons between populations (where demographic variables such as the age composition of the population may differ), but not for making comparisons of the effects 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 list at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/113causes.pdf>.) The age-adjusted rates in this report are adjusted with the direct method to the

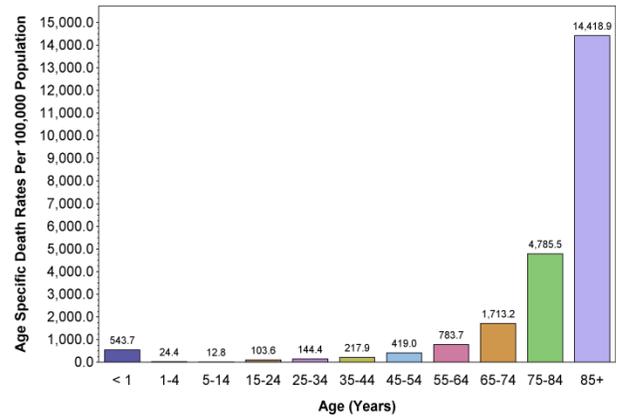
projected U.S. population for the year 2000. As with any summary statistic, age-adjusted death rates mask much of the underlying complexity in the mortality experience of a population. Hence, eleven age-specific death rates, each of which contributes a small part to the (average) age-adjusted rate, are also shown for each cause of death displayed.

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.

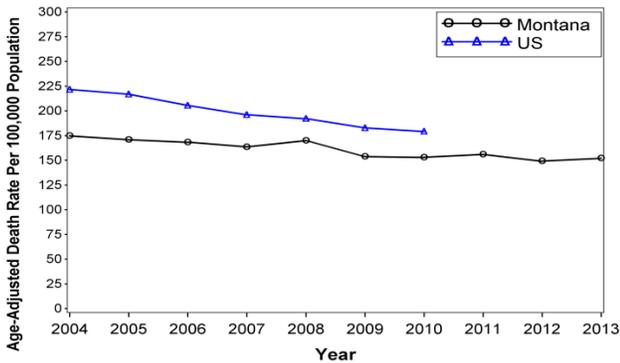
**Figure 10**  
**Age-Adjusted Death Rates for**  
**All Causes**  
**Montana and U.S. Residents, 2004-2013**



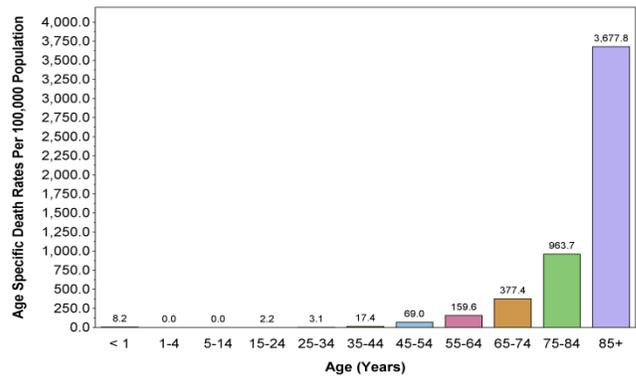
**Figure 11**  
**Age-Specific Death Rates for**  
**All Causes**  
**Montana Residents, 2013**



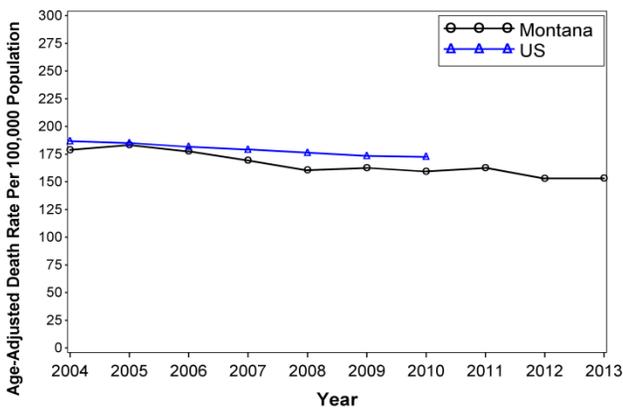
**Figure 12**  
**Age-Adjusted Death Rates for**  
**Diseases of Heart**  
**Montana and U.S. Residents, 2004-2013**



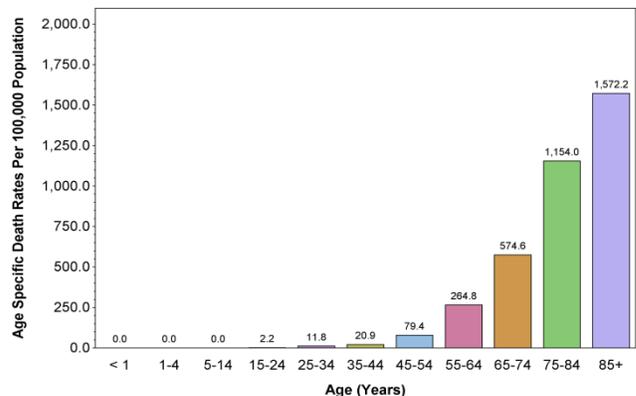
**Figure 13**  
**Age-Specific Death Rates for**  
**Diseases of Heart**  
**Montana Residents, 2013**



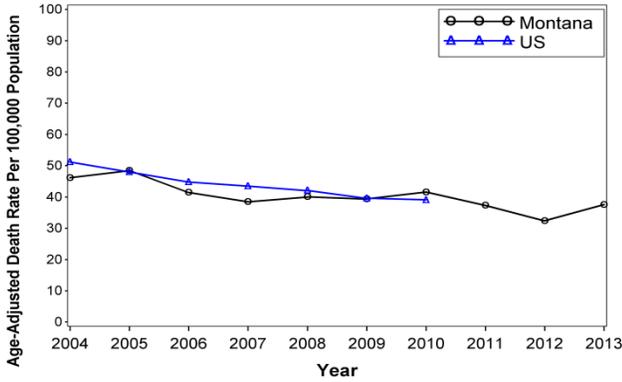
**Figure 14**  
**Age-Adjusted Death Rates for**  
**Malignant Neoplasms (Cancer)**  
**Montana and U.S. Residents, 2004-2013**



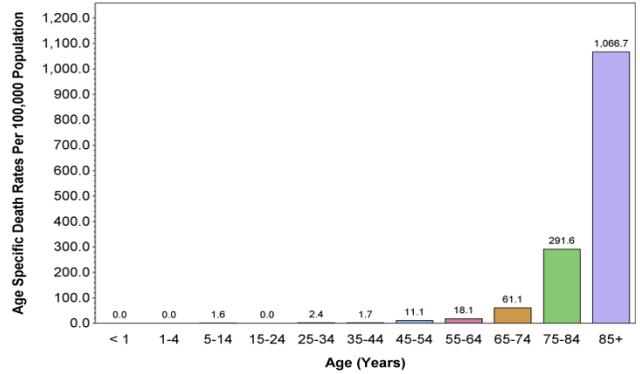
**Figure 15**  
**Age-Specific Death Rates for**  
**Malignant Neoplasms (Cancer)**  
**Montana Residents, 2013**



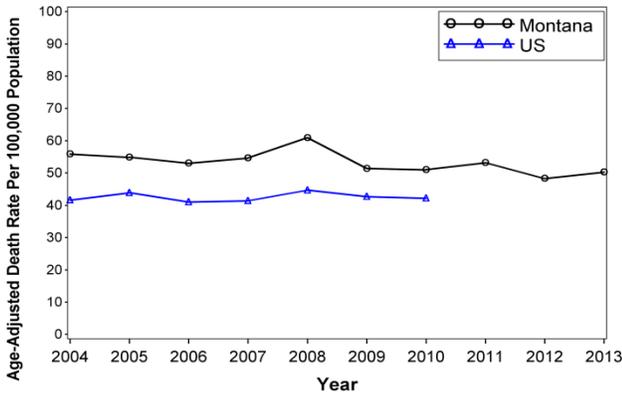
**Figure 16**  
**Age-Adjusted Death Rates for**  
**Cerebrovascular Diseases**  
**Montana and U.S. Residents, 2004-2013**



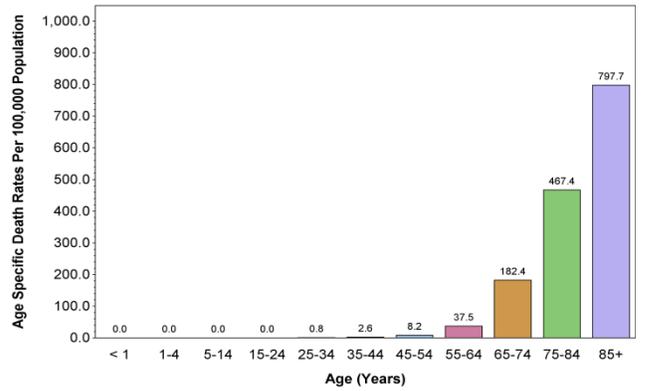
**Figure 17**  
**Age-Specific Death Rates for**  
**Cerebrovascular Diseases**  
**Montana Residents, 2013**



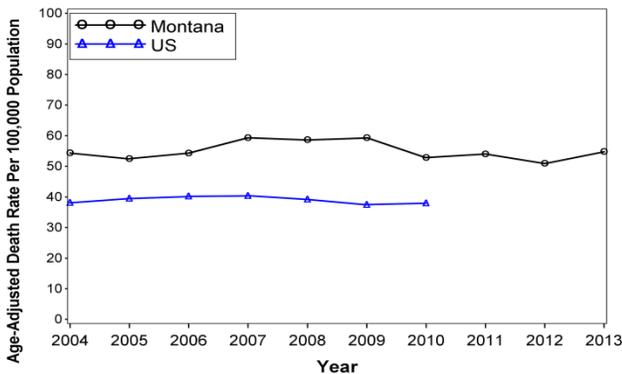
**Figure 18**  
**Age-Adjusted Death Rates for**  
**Chronic Lower Respiratory Diseases**  
**Montana and U.S. Residents, 2004-2013**



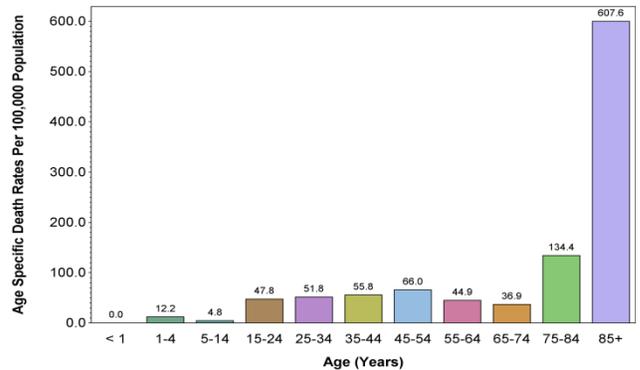
**Figure 19**  
**Age-Specific Death Rates for**  
**Chronic Lower Respiratory Diseases**  
**Montana Residents, 2013**



**Figure 20**  
**Age-Adjusted Death Rates for**  
**Accidents (Unintentional Injuries)**  
**Montana and U.S. Residents, 2004-2013**

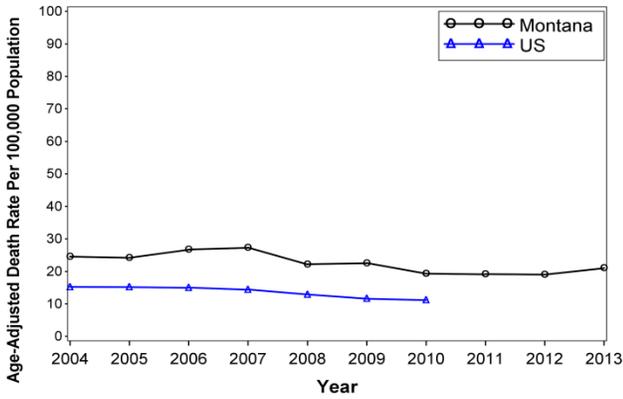


**Figure 21**  
**Age-Specific Death Rates for**  
**Accidents (Unintentional Injuries)**  
**Montana Residents, 2013**



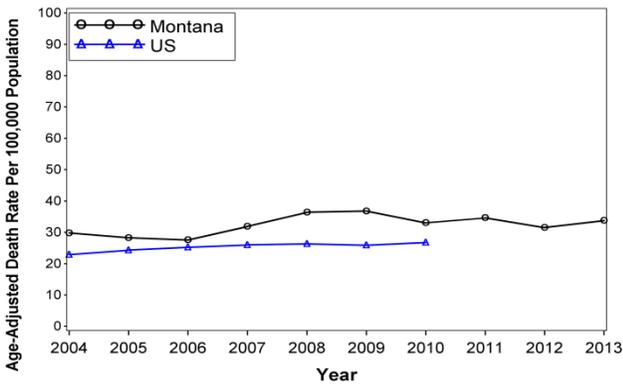
**Figure 22**

**Age-Adjusted Death Rates for Motor Vehicle Accidents  
Montana and the U.S. Residents, 2004-2013**



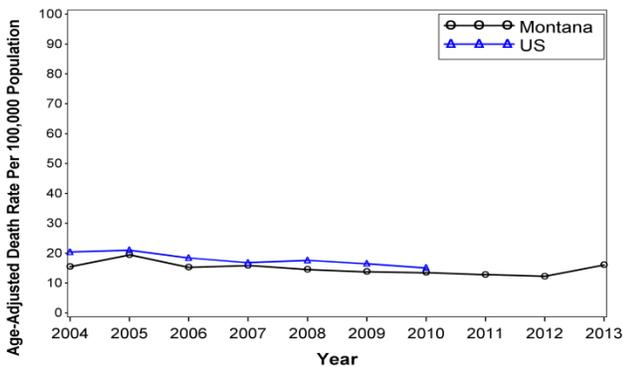
**Figure 24**

**Age-Adjusted Death Rates for Non-Motor-Vehicle Accidents  
Montana and U.S. Residents, 2004-2013**



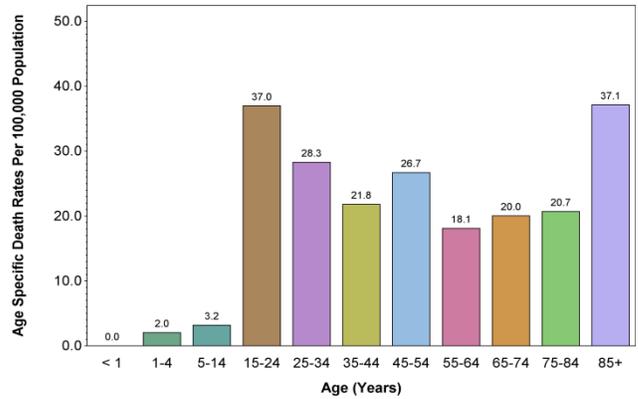
**Figure 26**

**Age-Adjusted Death Rates for Influenza and Pneumonia  
Montana and U.S. Residents, 2004-2013**



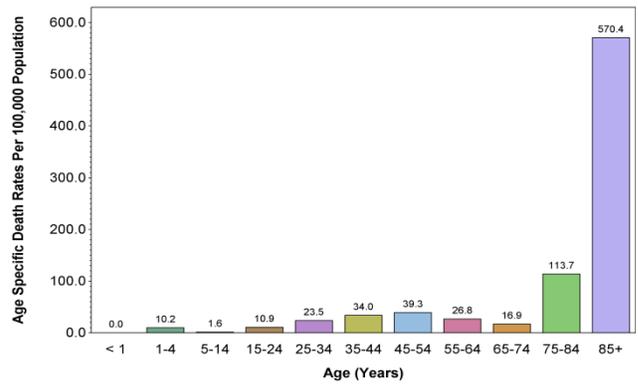
**Figure 23**

**Age-Specific Death Rates for Motor Vehicle Accidents  
Montana Residents, 2013**



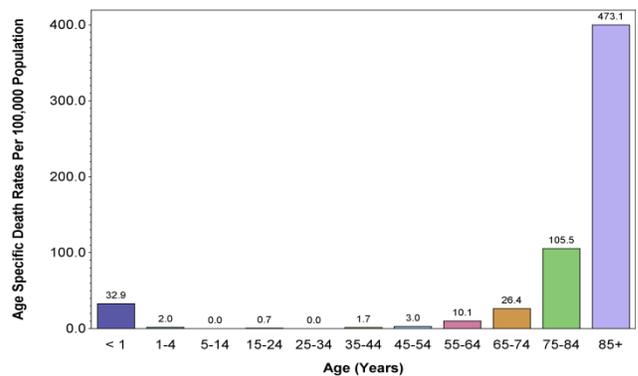
**Figure 25**

**Age-Specific Death Rates for Non-Motor-Vehicle Accidents  
Montana and U.S. Residents, 2013**

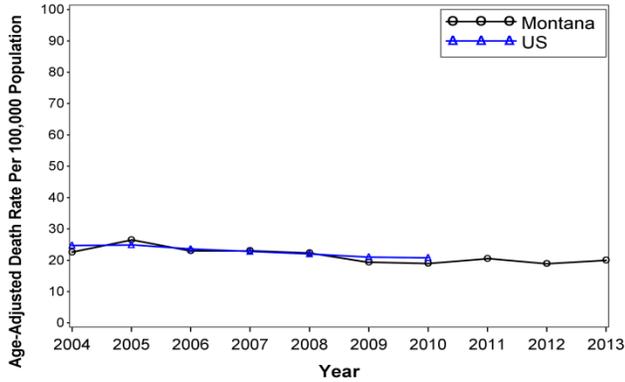


**Figure 27**

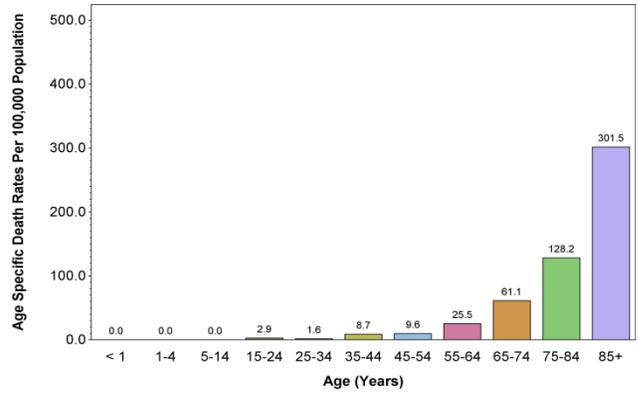
**Age-Specific Death Rates for Influenza and Pneumonia  
Montana Residents, 2013**



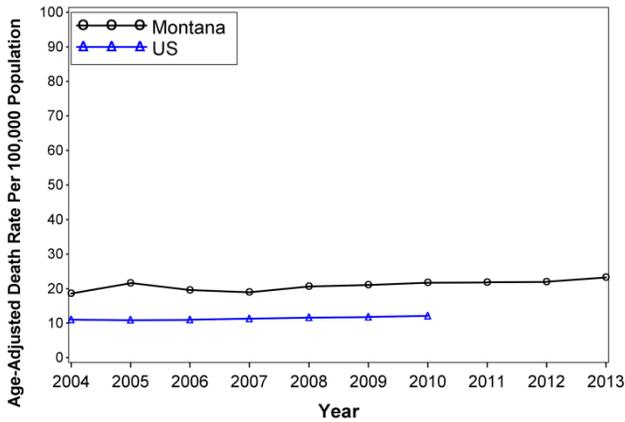
**Figure 28**  
**Age-Adjusted Death Rates for**  
**Diabetes Mellitus**  
**Montana and U.S. Residents, 2004-2013**



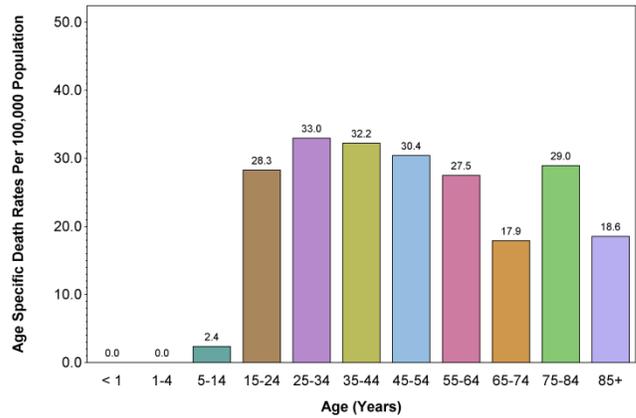
**Figure 29**  
**Age-Specific Death Rates for**  
**Diabetes Mellitus**  
**Montana Residents, 2013**



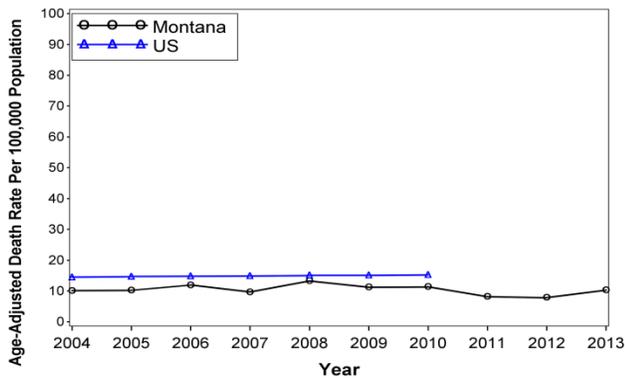
**Figure 30**  
**Age-Adjusted Death Rates for**  
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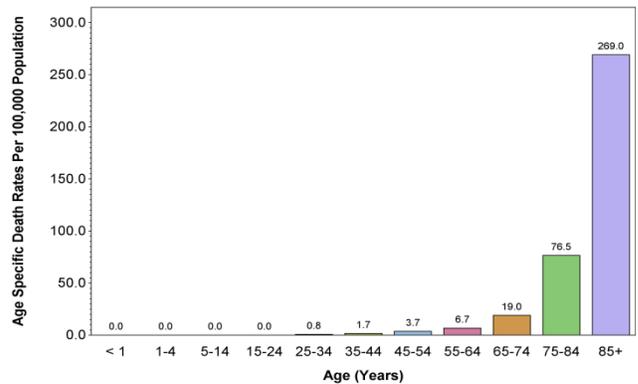
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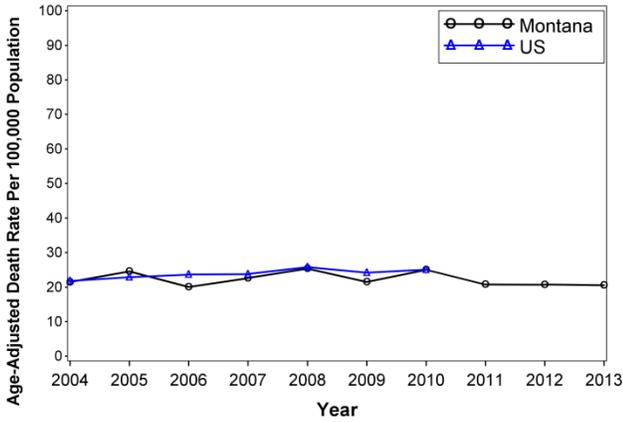
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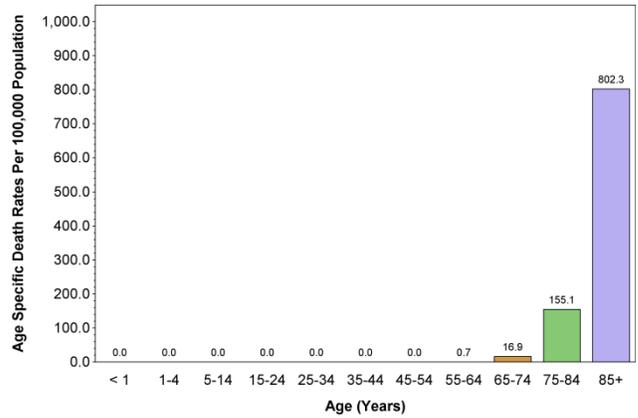
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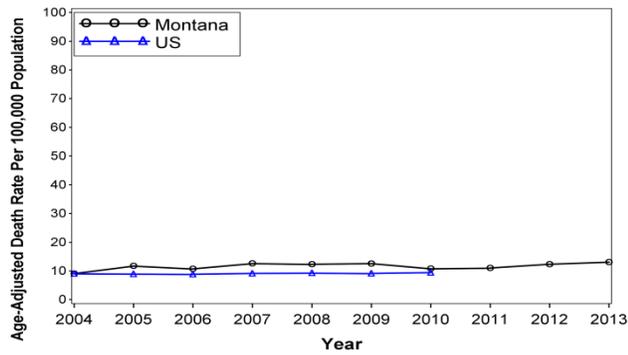
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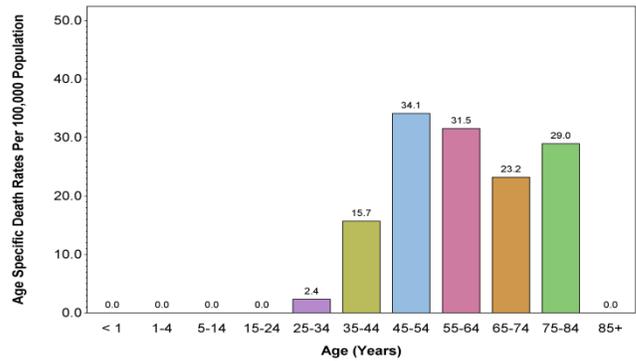
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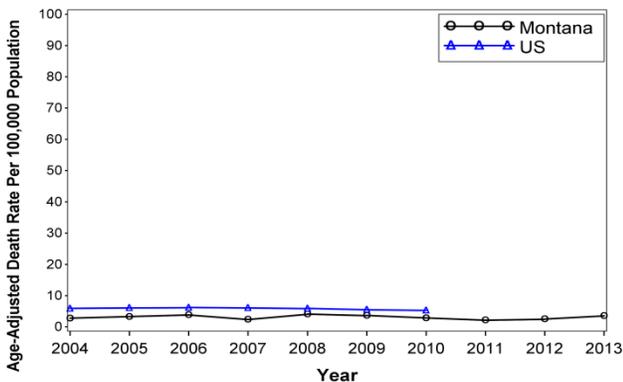
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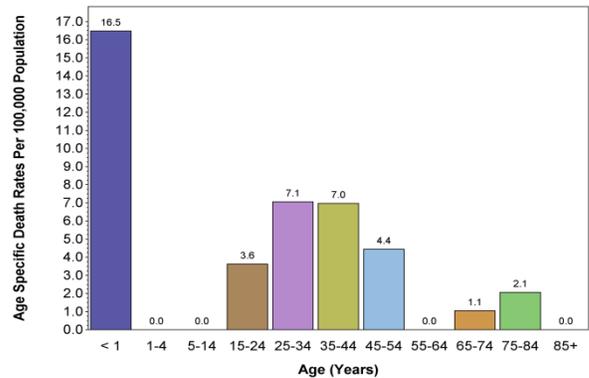
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**Figure 38**  
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**Montana and U.S. Residents, 2004-2013**



**Figure 39**  
**Age-Specific Death Rates for**  
**Assault (Homicide)**  
**Montana Residents, 2013**



In all years displayed, Montana's all-cause, age-adjusted death rates (**Figure 10**) are below or just slightly above those for the U.S. and both have declined over time. Both sets of rates trend in the same direction, but the state's rates show a somewhat more erratic pattern; this to be expected, given the relatively smaller numbers of deaths for the state. 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**), influenza and pneumonia (**Figure 26**), and nephritis (**Figure 32**) were the lower of the two for all years for which both rates are displayed. The state's malignant neoplasm (cancer) death rates were lower than those for the U.S. in all but one of those years, and in that year, the Montana and U.S. rates were virtually indistinguishable (**Figure 14**).

For deaths from certain other chronic diseases, however, Montana clearly does not compare well to the nation. 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, except in 2004 where the rates are nearly identical (**Figure 36**). 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**).

The patterns displayed for other chronic diseases were less conclusive. Montana's death rate from Alzheimer's disease was virtually the same as the U.S. rate in five of the eight years of direct comparison (**Figure 34**). Montana's death rates for cerebrovascular disease and diabetes showed inconsistent relationships with the U.S. rates, with the trend lines crossing each other more than once in the period shown (**Figures. 16 and 28**).

Montana's rates for one traumatic cause of death, homicide, were lower than the corresponding U.S. rates in all years displayed (**Figure 38**). However, the state's rates for the remaining traumatic causes of death, accident (both motor vehicle and non-motor-vehicle) and suicide, were, in all years, substantially higher than those for the nation (**Figs. 20, 22, 24, 30**).

These graphs show secular (i.e. long-term, despite occasional instability in the short-term) reductions in Montana's age-adjusted death rates for specific chronic diseases such as heart disease, malignant neoplasms (cancer), influenza and pneumonia, diabetes, and cerebrovascular disease. The rates for chronic liver disease and cirrhosis, Alzheimer's, nephritis, and C.L.R.D. are neither increasing nor decreasing consistently.

The trends of U.S. and Montana rates for all accidental deaths remain roughly flat (**Figure 20**), although—as noted—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 2010 was more than 40% higher than the U.S. rate (**Figure 22**). Montana's rate for non-motor-vehicle accidental 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**).

### ***Age, Sex, and Race***

Different causes of death are likely to be associated with different ages, sexes and races of the decedent. **Table 2** below illustrates some of the difference in the causes of death for the two sexes. For instance, more males than females died of heart disease, cancer, chronic liver disease and cirrhosis, diabetes, and—most strikingly—the traumatic causes of death (suicide, homicide, and accident). Three and a half times as many males as females committed suicide in this five-year period. More than twice as many males as females died of homicide. About sixty-five percent more males than females died accidental deaths.

On the other hand, slightly more females than males died of influenza and pneumonia, chronic lower respiratory diseases, and nephritis. More than twice the number of females as males died of Alzheimer's disease. About half again 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. Frequency of Death\* by Selected Cause, Race, and Sex, Montana Residents, 2009-2013.**

Cause of Death	All Races		White		AI/AN		Other Or Unknown	
	Male	Female	Male	Female	Male	Female	Male	Female
All Causes	23,039	21,801	21,556	20,541	1,361	1,160	122	100
HIV Infection	19	3	18	2	1	1	-	-
Cancer	5,159	4,566	4,933	4,352	207	192	19	22
Diabetes	629	554	542	468	79	82	8	4
Alzheimer's Disease	445	897	434	886	8	8	3	3
Heart Disease	5,276	4,150	5,003	3,970	247	164	26	16
Cerebrovascular Disease	938	1,351	896	1,306	36	41	6	4
Atherosclerosis	48	41	44	40	3	1	1	-
Influenza And Pneumonia	412	449	392	413	18	35	2	1
Chronic Lower Respiratory Diseases	1,497	1,579	1,451	1,523	40	55	6	1
Chronic Liver Disease And Cirrhosis	419	262	330	176	88	83	1	3
Nephritis, Nephrotic Syndrome & Nephrosis	262	327	247	301	12	25	3	1
Congenital Malformations & Chromosomal Anomalies	97	78	87	67	9	11	1	-
Conditions Originating In Perinatal Period	77	52	57	43	18	8	2	1
Sudden Infant Death Syndrome	34	29	21	23	11	5	2	1
Accidents	1,796	1,082	1,567	959	217	115	12	8
Motor Vehicle Accidents	691	331	587	265	99	62	5	4
Non-Motor Vehicle Accidents	1,104	751	979	694	118	53	7	4
Suicide	885	249	803	212	75	29	7	8
Homicide	97	43	75	38	20	5	2	-
Other Causes	4,949	6,089	4,656	5,762	272	300	21	27

\* The death record of an infant with unknown sex is not included in this table.

As mentioned in the Technical Overview of this report, the Montana death certificate, since 2003, records race in greater detail. Not only are more racial categories used, but informants are also specifically asked to name all of the several classifications that may apply to a decedent. The result of this additional prompting has been a greater proportion of decedents classified by two or more races. In order to calculate mortality rates by race, NCHS provides OVS the most likely, or “bridged,” race for each decedent. These bridged race classifications are described in the introduction of this report and are used in the report’s figures and reference tables.

In the period 2009-2013, 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 the age category 85 and older, heart disease

accounted for about a quarter of the deaths, with cancer causing only about half that proportion. 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 14 years of age or younger, nearly half of the deaths of those between the ages of 15 and 24, and nearly two fifths of those between the ages of 25 and 34 years. By contrast, accidents accounted for less than 4% of the deaths of those aged 65 or older.

Suicide was the cause of death for nearly 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.

**Table 3. Frequency of Death by Selected Leading Causes of Death and Age, Montana Residents, 2009-2013.**

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	44,841	349	85	117	647	836	1,189	3,007	5,498	7,426	10,958	14,729
HIV Infection	22	-	-	-	-	1	4	12	3	1	1	-
Cancer	9,725	1	4	13	30	52	128	712	1,839	2,586	2,675	1,685
Diabetes	1,183	-	-	-	7	6	36	84	159	253	297	341
Alzheimer's Disease	1,342	-	-	-	-	-	-	1	10	71	363	897
Heart Disease	9,426	3	5	2	9	34	120	514	1,148	1,509	2,373	3,709
Cerebrovascular Disease	2,289	2	-	3	2	9	20	67	128	293	666	1,099
Atherosclerosis	89	-	-	-	-	-	-	4	9	9	27	40
Influenza And Pneumonia	861	5	1	2	2	5	7	44	70	95	184	446
Chronic Lower Respiratory Diseases	3,076	1	-	-	2	3	8	74	268	777	1,108	835
Chronic Liver Disease And Cirrhosis	681	-	-	-	2	22	78	206	204	113	51	5
Nephritis, Nephrotic Syndrome & Nephrosis	589	-	2	-	1	3	9	22	31	76	182	263
Congenital Malformations & Chromosomal	176	81	9	2	5	6	12	9	26	10	6	10
Conditions Originating In Perinatal Period	129	126	1	1	-	-	1	-	-	-	-	-
Sudden Infant Death Syndrome	63	63	-	-	-	-	-	-	-	-	-	-
Accidents	2,878	9	33	61	334	322	309	408	308	239	315	540
Motor Vehicle Accidents	1,022	-	9	36	236	184	129	143	120	90	47	28
Non-Motor Vehicle Accidents	1,855	9	24	25	98	138	180	265	188	149	267	512
Suicide	1,134	-	-	10	158	192	166	210	221	91	57	29
Homicide	140	4	3	3	30	25	25	30	10	6	4	-
Other Causes	11,038	54	27	20	65	156	266	610	1,064	1,297	2,649	4,830

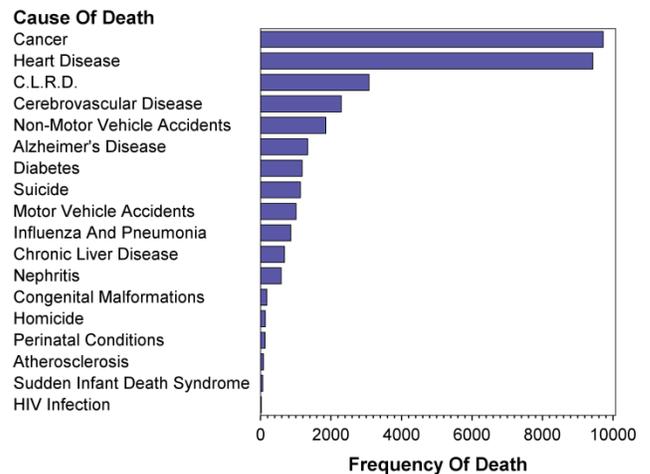
**Years of Potential Life Lost**

The traditional approach to cause of death analysis relies on frequency of death. This perspective emphasizes causes of death that affect the elderly, simply because of the larger number of such deaths. Years of potential life lost (YPLL) is an alternative measure that highlights premature, preventable, and unnecessary mortality. There are a number of different calculations for YPLL, each with a slightly different emphasis. Here we use the “premature years of potential life lost” calculation, which is easily understood and is used by the Centers for Disease Control and Prevention. For each decedent younger than 75 years, the age at death is subtracted from 75. The results are summed by cause of death. This measure is referred to here as YPLL-75.

The ten leading causes of death in 2013 were cancer (21.0% of all resident deaths), heart disease (20.9%), chronic lower respiratory diseases (6.8%), accidents (6.3%), cerebrovascular disease (5.1%), Alzheimer’s disease (2.8%), diabetes (2.7%), suicide (2.5%), influenza and pneumonia (2.2%), and chronic liver disease and cirrhosis (1.6%) (Table S-4). These results illustrate the traditional view of cause of death analysis, showing the frequency, or number, of deaths in several cause of death categories.

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, 2009-2013 (Figure 40). While the numbers who died of

**Figure 40**  
**FREQUENCY OF DEATH BY CAUSE OF DEATH**  
**MONTANA RESIDENTS, 2009-2013**

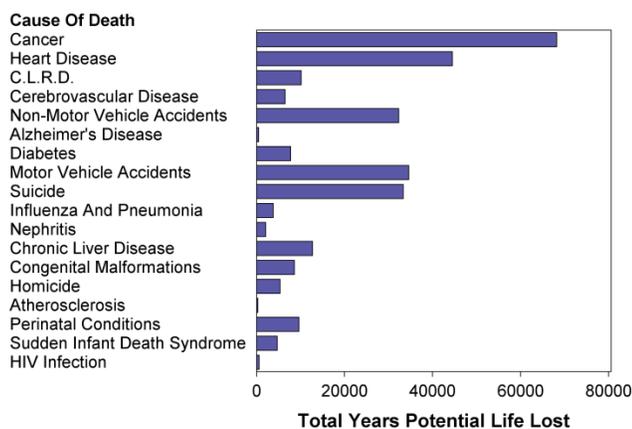


these causes are larger than those for the single year of 2013, the proportions and rankings for the causes are remarkably similar. Cancer and heart disease clearly outpace the other specified causes, with each accounting for a little more than a fifth of all decedents. Accidents, C.L.R.D., and cerebrovascular disease are usually in the five to seven percent range, Suicide, Alzheimer’s,

diabetes, influenza and pneumonia, chronic liver disease, and liver disease and cirrhosis and nephritis are all in the one to three percent range.

An alternative perspective, YPLL-75 analysis, highlights the traumatic causes of death at the expense of the non-traumatic causes (Figure 41). Only decedents younger than 75 at the time of death are reflected in this figure. Accidents (both motor-vehicle and non-motor-vehicle) and suicide comprise a little more 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, 2009-2013**



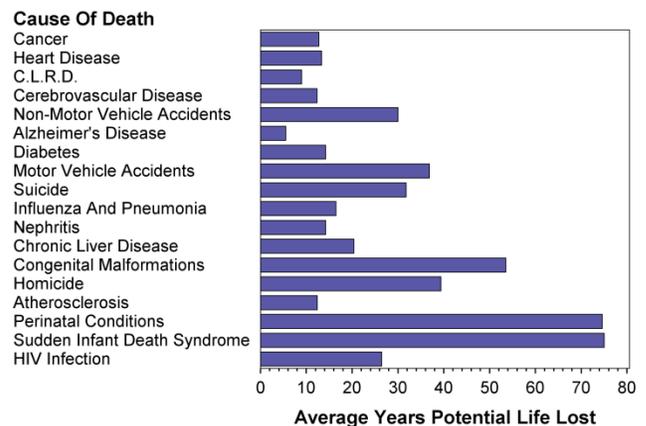
Regardless of which of these two perspectives is used, cancer and heart disease cause a large social loss because of the numbers of deaths they cause, both among decedents of advanced age and those less than 75 years of age. About half of all cancer victims tend to be younger than 75. About a third of heart disease victims are younger than this age.

The YPLL-75 perspective re-orders the ranking of the leading causes of death, thus highlighting areas the CDC has called “premature,” “preventable,” and “unnecessary” and has said “provide the greatest potential for health improvement” ([Morbidity and Mortality Weekly Report, June 20, 1997](#)). Frequency of

accidental (unintentional injury) deaths (both motor and non-motor vehicle) was ranked fourth in cause of death by frequency but this cause of death is ranked second, just below cancer in terms of total YPLL-75. This indicates that accidental deaths are prevalent in those less than 75 years of age and cause great losses to society due to premature death. Suicide (intentional self-harm) ranked eighth by frequency, but became the fourth leading cause when measured by total YPLL-75.

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, 2009-2013**

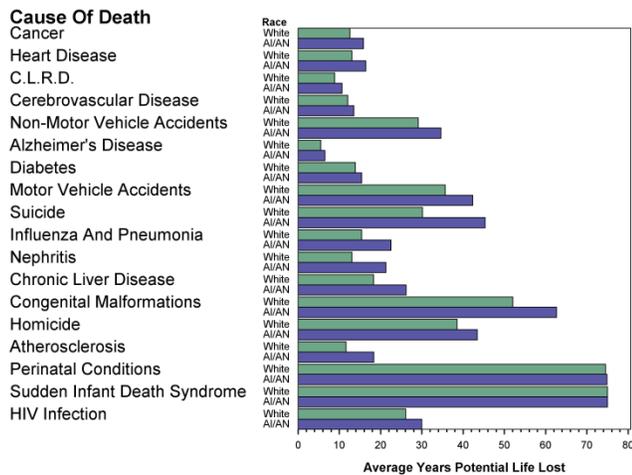


The category sudden infant death syndrome (SIDS), a cause of death diagnosis reserved for infants alone, showed the greatest average loss to an individual (the full 75 years lost.) This was followed closely by conditions originating in the perinatal period, and congenital anomalies, causes which claim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

Several causes of death demonstrated a greater impact on American Indians (abbreviated as “AI/AN” in the figures below) 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 19 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 atherosclerosis (difference of 24.5 years), suicide (23 years), accidents (20.5 years), influenza and pneumonia (19 years), congenital malformations and chromosomal anomalies (15 years), heart disease (14 years), nephritis (14 years), cerebrovascular disease (13 years), and diabetes (10 years). American Indians living in Montana typically die at a younger age than whites from every cause of death listed in Table D-9 except for SIDS, a category for which a decedent must be an infant to qualify, 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, 2009-2013**



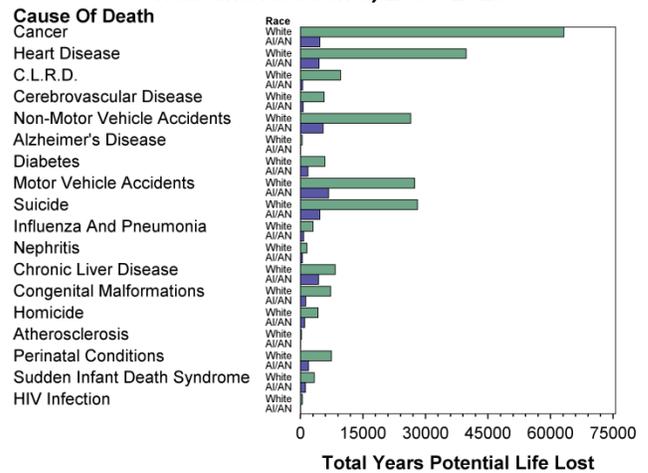
Note: green bars indicate White; blue bars indicate American Indian/Alaska Native

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, (21.3% of total YPLL), accidents (18.3%), heart disease (13.4%), suicide (9.5%), C.L.R.D. (3.2%), 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 (24.1%), cancer (9.2%), suicide (9.2%), heart disease (8.8%), chronic liver disease and cirrhosis (8.6%), and conditions originating in the perinatal period (3.8%). 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, 2009-2013**



Note: green bars indicate White; blue bars indicate American Indian/Alaska Native

Although YPLL has significant advantages for analyzing mortality data from a public health perspective, it also has a decided disadvantage in that some data—the records of the older decedents—are excluded from the analysis. More than half of the Montana decedents in this time period were excluded from this YPLL-75 analysis. While YPLL highlights those causes of death having the greatest impact on the younger members of the population—and according to the Centers for Disease control and Prevention, highlights “areas that provide the greatest potential for health improvement,” it does so at the cost of diverting attention from the causes of death affecting older members of that society. Table D-9 in the reference table section of this report summarizes both the frequency of death and years of potential life lost before the age of 75 by cause of death and race. Summary statistics for decedents of all ages are shown on the right-hand side of the table. The left-hand side shows statistics for only those decedents younger than 75 years of age.

## INDUCED ABORTION

There were 1,842 induced abortions performed in Montana in 2013. Of those, 1,622 were performed on Montana residents. 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.

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 fairly 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 149.4 in 2013, the lowest recorded since 1976.

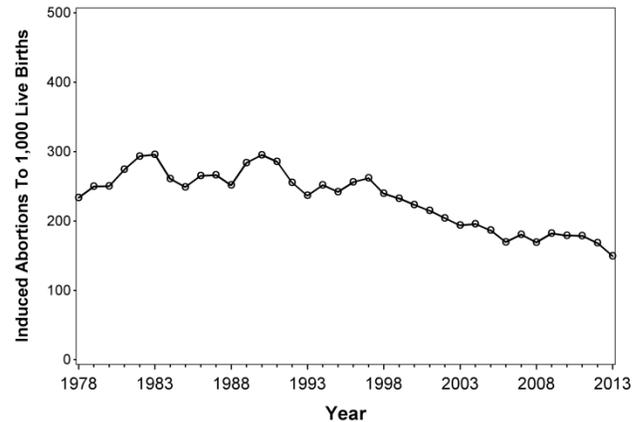
**Table S-1** shows the frequency of induced abortions occurring (i.e. performed) in Montana and the ratio of these abortions to the number of live births occurring in the state.

**Table S-5** shows the frequency of induced abortions — as well as that of live births and fetal deaths, the other pregnancy outcomes reported to the Department—by age and county of residence. The frequency of induced abortion in this table is for Montana residents receiving the procedure in Montana.

Four of these procedures resulted in reported complications. Two patients had retained products of conception, one had a hematometra, and the fourth had an incomplete abortion.

Figure 45

Ratio of Induced Abortions to Live Births  
Montana Occurrences, 1978-2013



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**Table S-1**

**Frequency and Rate or Ratio of Death, Live Birth, Fetal, Infant, and Maternal Death, Marriages, Marital Terminations, and Induced Abortions by Year  
Montana, 1910-2013**

Year	Estimated Midyear	Deaths <sup>1</sup>		Live Births <sup>1</sup>		Fetal Deaths <sup>1</sup>		Infant Deaths <sup>1</sup>		Maternal Deaths <sup>1</sup>		Marriages <sup>2</sup>		Marital <sup>**</sup> Terminations <sup>2</sup>		Induced Abortions <sup>2</sup>	
		Number	Rate+	Number	Rate+	Number	Ratio*	Number	Rate*	Number	Rate++	Number	Rate+	Number	Rate+	Number	Ratio*
2013	1,015,165	9,453	9.3	12,351	12.2	54	4.4	66	5.3	4	‡	7,511	7.4	3,671	3.6	1,842	149.4
2012	1,005,494	8,876	8.8	12,052	12.0	57	4.7	71	5.9	-	‡	7,850	7.8	3,937	3.9	2,031	168.3
2011	997,600	9,005	9.0	12,039	12.1	62	5.1	69	5.7	4	‡	7,754	7.8	3,091	3.1	2,147	178.7
2010	990,527	8,803	8.9	12,058	12.2	52	4.3	71	5.9	1	‡	7,335	7.4	3,289	3.3	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	4,521	4.6	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	4,042	4.1	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	-	‡	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	8,088	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	-	‡	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	‡	6,611	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	71	6.6	-	‡	6,785	7.6	3,318	3.7	2,499	232.6
1998	892,431	7,960	8.9	10,791	12.1	76	7.0	82	7.6	1	‡	6,436	7.2	3,698	4.1	2,573	239.5
1997	889,867	7,730	8.7	10,840	12.2	49	4.5	74	6.8	-	‡	6,708	7.5	4,058	4.6	2,809	261.8
1996	886,256	7,686	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	7,614	8.7	11,136	12.7	67	6.0	79	7.1	-	‡	6,818	7.8	4,214	4.8	2,674	242.0
1994	861,306	7,331	8.5	11,062	12.8	52	4.7	82	7.4	-	‡	7,088	8.2	4,196	4.9	2,761	251.7
1993	844,761	7,457	8.8	11,362	13.4	74	6.5	84	7.4	-	‡	7,041	8.3	4,311	5.1	2,645	236.6
1992	825,770	7,067	8.6	11,468	13.9	84	7.3	85	7.4	-	‡	7,189	8.7	4,223	5.1	2,869	255.3
1991	809,680	6,995	8.6	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	6,835	8.5	11,602	14.5	78	6.7	106	9.1	-	‡	6,924	8.7	4,049	5.1	3,365	295.2
1989	805,600	6,735	8.4	11,667	14.5	86	7.4	133	11.4	-	‡	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	-	‡	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	-	‡	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	-	‡	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	-	‡	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
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

<sup>1</sup>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. Marriages, marital terminations, and induced abortion tabulations remain by place of occurrence.

+ 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.

\*\*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.

<sup>2</sup>Data are by place of occurrence.

N/A - Not available

**Table S-2**

**Frequency of Death, Live Birth, and Fetal, Infant, and Maternal Death  
By County Of Occurrence and County of Residence  
Montana, 2013**

County	Deaths		Live Births		Fetal Deaths		Infant Deaths		Maternal Deaths	
	Occ.	Res.	Occ.	Res.	Occ.	Res.	Occ.	Res.	Occ.	Res.
Montana Total	9,509	9,453	12,326	12,351	54	54	56	66	**	**
Beaverhead	81	82	65	88	-	-	-	**	-	-
Big Horn	96	118	46	301	-	**	**	**	-	-
Blaine	46	65	**	107	**	-	**	**	**	**
Broadwater	34	53	-	50	**	**	-	-	**	**
Carbon	64	96	**	75	-	-	-	-	-	-
Carter	12	10	-	17	-	-	-	-	-	-
Cascade	960	831	1,649	1,184	8	7	9	5	-	-
Choteau	38	55	**	37	-	-	-	**	-	-
Custer	153	149	294	152	-	**	-	-	-	-
Daniels	25	27	-	20	-	-	-	-	-	-
Dawson	97	101	88	112	-	-	-	**	-	-
Deer Lodge	98	114	43	68	-	-	-	-	-	-
Fallon	26	34	-	45	-	-	-	-	-	-
Fergus	156	166	107	127	-	-	**	**	-	-
Flathead	853	793	1,250	1,145	**	**	**	6	-	-
Gallatin	530	544	1,239	1,133	7	7	**	**	-	-
Garfield	12	10	-	9	-	-	-	-	-	-
Glacier	105	130	140	244	-	-	**	**	**	**
Golden Valley	5	13	-	9	-	-	-	-	-	-
Granite	27	31	-	18	-	-	-	-	-	-
Hill	115	142	387	303	-	**	**	**	-	-
Jefferson	74	112	**	94	-	-	-	**	-	-
Judith Basin	13	23	-	14	-	-	-	-	-	-
Lake	230	286	320	376	**	**	**	**	-	-
Lewis & Clark	565	550	800	772	6	7	**	5	-	-
Liberty	24	25	-	27	-	-	-	-	-	-
Lincoln	194	248	142	190	-	-	**	**	-	-
McCone	18	17	-	14	-	-	-	-	-	-
Madison	60	68	-	55	-	-	**	**	-	-
Meagher	21	29	-	16	-	-	-	-	-	-
Mineral	32	45	**	43	-	-	-	**	-	-
Missoula	1,029	822	1,695	1,302	5	5	8	6	-	-
Musselshell	51	57	**	31	**	**	**	-	-	-
Park	121	132	96	135	-	-	-	-	-	-
Petroleum	-	5	-	**	-	-	-	-	-	-
Phillips	52	63	**	51	-	-	-	-	-	-
Pondera	58	75	17	78	-	-	-	-	-	-
Powder River	15	20	**	6	-	-	-	-	-	-
Powell	60	72	**	39	-	-	**	**	-	-
Prairie	19	22	-	11	-	-	-	-	-	-
Ravalli	341	431	179	379	-	-	-	-	-	-
Richland	78	99	135	174	**	**	-	-	-	-
Roosevelt	114	137	179	251	-	**	-	-	-	-
Rosebud	62	102	13	183	-	**	**	5	**	**
Sanders	120	148	43	120	-	-	-	-	-	-
Sheridan	67	70	-	32	-	-	-	-	-	-
Silver Bow	406	398	453	363	**	**	**	**	-	-
Stillwater	76	91	**	101	-	**	-	-	-	-
Sweet Grass	39	50	-	30	-	-	-	-	-	-
Teton	64	74	**	78	-	-	-	-	-	-
Toole	45	55	24	61	**	**	-	**	-	-
Treasure	**	7	-	8	-	-	-	-	-	-
Valley	74	99	151	96	-	-	-	-	-	-
Wheatland	13	17	-	25	-	-	-	-	-	-
Wibaux	16	14	-	18	-	-	-	-	-	-
Yellowstone	1,821	1,425	2,755	1,930	13	6	14	11	-	-
Yellowstone Park	-	-	-	-	-	-	-	-	-	-
Not Stated	**	**	-	**	-	-	-	-	-	-

\*\* Frequency is fewer than five.

**Table S-3**

**Frequency of Death, Live Birth, Fetal Death, Infant Death, and Child Death by Race\*  
Montana Residents, 1989 - 2013**

Year	Deaths				Births				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
2013	9,453	8,868	529	56	12,351	10,596	1,531	224	54	44	9	**	66	47	18	**	52	42	10	-
2012	8,876	8,290	538	48	12,052	10,336	1,475	241	57	45	10	**	71	54	14	**	51	42	8	**
2011	9,005	8,476	496	33	12,039	10,330	1,479	230	62	53	8	**	69	54	12	**	63	51	10	**
2010	8,803	8,291	469	43	12,058	10,425	1,424	209	52	47	**	**	71	60	10	**	78	58	18	**
2009	8,704	8,173	489	42	12,280	10,553	1,523	204	58	53	5	-	70	53	17	-	65	49	16	-
2008	8,897	8,378	473	46	12,595	10,791	1,579	225	39	30	9	-	87	72	15	-	57	49	8	-
2007	8,570	8,083	454	33	12,437	10,545	1,591	301	38	31	7	-	74	61	13	-	58	45	13	-
2006	8,434	7,917	481	36	12,499	10,582	1,601	316	49	40	8	**	70	50	19	**	67	56	11	-
2005	8,496	8,019	442	35	11,573	9,839	1,481	253	54	43	10	**	81	66	15	-	69	56	13	-
2004	8,088	7,618	437	33	11,514	9,762	1,508	244	40	30	10	-	51	41	10	-	72	57	15	-
2003	8,439	7,973	425	41	11,384	9,771	1,393	220	55	44	6	5	76	63	11	**	75	62	9	**
2002	8,473	8,003	433	37	11,045	9,467	1,393	185	51	41	9	**	81	66	12	**	70	57	13	-
2001	8,252	7,839	385	28	10,947	9,392	1,363	192	43	30	12	**	73	63	10	-	62	51	11	-
2000	8,071	7,668	366	37	10,946	9,438	1,326	182	55	47	6	**	63	49	13	**	101	81	20	-
1999	8,082	7,618	429	35	10,778	9,353	1,274	151	62	50	9	**	71	54	16	**	78	64	13	**
1998	7,985	7,615	345	25	10,789	9,449	1,172	168	76	66	9	**	82	68	11	**	68	56	11	**
1997	7,745	7,386	336	23	10,838	9,389	1,290	159	49	40	9	-	73	55	18	-	88	77	11	-
1996	7,696	7,349	317	30	10,840	9,471	1,208	161	58	50	7	**	75	63	10	**	81	71	8	**
1995	7,626	7,237	360	29	11,136	9,843	1,140	153	67	61	**	**	79	70	6	**	106	88	17	**
1994	7,342	6,979	331	32	11,062	9,719	1,201	142	52	44	5	**	82	69	11	**	79	67	11	**
1993	7,468	7,118	322	28	11,362	9,970	1,247	145	74	67	7	-	81	68	13	-	89	74	15	-
1992	7,073	6,739	308	26	11,468	9,967	1,355	146	84	71	11	**	85	65	15	5	105	85	18	**
1991	7,004	6,637	339	28	11,498	10,010	1,363	125	90	77	9	**	82	61	20	**	88	72	16	-
1990	6,837	6,483	322	32	11,602	10,009	1,446	147	78	64	12	**	106	84	21	**	81	70	9	**
1989	6,741	6,414	304	23	11,667	10,157	1,391	119	86	64	21	**	133	97	36	-	92	73	19	-

\* Any racial category may include "Hispanic"; "Other" also includes race not stated. Live births and fetal deaths are shown by race of the mother.

+ American Indian or Alaska Native

\*\* Frequency is fewer than five.

++ Ages 1-17, inclusive.

**TABLE S-4**  
**Selected Vital Statistics**  
**Frequencies and Rates or Ratios by County**  
**Montana, 2013**

Item		Montana		Beaverhead		Big Horn		Blaine		Broadwater		Carbon		Carter		Cascade	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	1,015,165	-	9,341	-	13,042	-	6,604	-	5,692	-	10,340	-	1,174	-	82,384	-
Natural Increase*	Natural Increase	2,898	2.9	6	‡	183	0.0	42	0.0	-3	‡	-21	0.0	7	‡	353	0.0
Births - Residence	Live Births, Total	12,351	12.2	88	9.4	301	23.1	107	16.2	50	8.8	75	7.3	17	‡	1,184	14.4
	Live Births, Male**	6,346	12.4	43	18.4	158	46.5	54	32.6	23	17.3	37	14.3	6	‡	616	28.6
	Live Births, Female**	6,004	11.9	45	19.3	143	45.9	53	32.2	27	17.8	38	14.7	11	‡	568	28.9
	Live Births, Out Of Wedlock	4,619	374.0	22	250.0	209	694.4	65	607.5	9	‡	28	373.3	†	‡	402	339.5
Deaths - Residence	Deaths (Excluding Fetal), Total	9,453	9.3	82	8.8	118	9.0	65	9.8	53	9.3	96	9.3	10	‡	831	10.1
	Deaths (Excluding Fetal), Male**	4,863	9.5	40	8.4	62	9.6	39	11.9	28	9.7	47	9.0	7	‡	422	10.2
	Deaths (Excluding Fetal), Female**	4,589	9.1	42	9.2	56	8.5	26	7.8	25	8.9	49	9.6	†	‡	409	10.0
Infant Mortality & Fetal Death - Residence***	Infant Deaths (Under 1 Year)	66	5.3	†	‡	†	‡	†	‡	-	-	-	-	-	-	5	‡
	Neonatal (Under 28 Days)	36	2.9	†	‡	-	-	-	-	-	-	-	-	-	-	†	‡
	Postneonatal (28 Days - 1 Year)	30	2.4	-	-	†	‡	†	‡	-	-	-	-	-	-	†	‡
	Fetal	54	4.4	-	-	†	‡	-	-	†	‡	-	-	-	-	7	‡
	Perinatal	90	7.3	†	‡	†	‡	-	-	†	‡	-	-	-	-	10	‡
Leading Causes of Death - Residence****	(#) Malignant neoplasms	1,986	195.6	19	‡	14	‡	†	‡	12	‡	19	‡	-	-	167	202.7
	(#) Diseases of heart	1,976	194.6	16	‡	29	222.4	23	348.3	13	‡	22	212.8	6	‡	144	174.8
	(#) Chronic lower respiratory	642	63.2	†	‡	5	‡	†	‡	†	‡	9	‡	†	‡	66	80.1
	(#) Accidents (unintentional injuries)	595	58.6	†	‡	7	‡	†	‡	5	‡	6	‡	-	-	66	80.1
	(61#) Cerebrovascular diseases	478	47.1	6	‡	†	‡	†	‡	†	‡	†	‡	-	-	38	46.1
	(48#) Alzheimer's disease	265	26.1	†	‡	†	‡	†	‡	†	‡	†	‡	-	-	40	48.6
	(43#) Diabetes mellitus	252	24.8	†	‡	14	‡	†	‡	†	‡	†	‡	†	‡	21	25.5
	(#) Intentional self-harm (suicide)	238	23.4	†	‡	†	‡	†	‡	†	‡	†	‡	-	-	21	25.5
	(#) Influenza and pneumonia	206	20.3	†	‡	6	‡	-	-	†	‡	†	‡	-	-	11	‡
	(#) Chronic liver disease and	150	14.8	†	‡	5	‡	†	‡	-	-	†	‡	-	-	13	‡
Births - Occurrence	Live Births, Total	12,326	12.1	65	7.0	46	3.5	†	‡	-	-	†	‡	-	-	1,649	20.0
Deaths - Occurrence	Deaths (Excluding Fetal), Total	9,509	9.4	81	8.7	96	7.4	46	7.0	34	6.0	64	6.2	12	‡	960	11.7
	Accidental	632	62.3	5	‡	10	‡	†	‡	†	‡	6	‡	-	-	73	0.9
	Motor Vehicle	243	23.9	†	‡	9	‡	†	‡	†	‡	†	‡	-	-	18	‡
	Other Accidental	389	38.3	†	‡	†	‡	†	‡	†	‡	†	‡	-	-	55	0.7
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	56	4.5	-	-	†	‡	†	‡	-	-	-	-	-	-	9	‡
Marriages - Occurrence	Marriages Solumnized	7,511	7.4	59	6.3	58	4.4	29	4.4	32	5.6	164	15.9	†	‡	593	7.2
	Licenses Issued	7,511	7.4	62	6.6	62	4.8	27	4.1	24	4.2	106	10.3	†	‡	650	7.9
Marital Terminations - Occurrence	Marital Terminations	3,671	3.6	16	‡	12	‡	10	‡	-	-	23	2.2	-	-	400	4.9

\* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero.\*\*The birth/death record of an infant with unknown sex is not included in this table.\*\*\* 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.

Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/113causes.pdf>. Those marked with a "#" sign are rankable as leading causes.

† 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, 2013**

Item	Choteau		Custer		Daniels		Dawson		Deer Lodge		Fallon		Fergus		Flathead		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Population	5,849	-	11,951	-	1,791	-	9,445	-	9,329	-	3,079	-	11,501	-	93,068	-	
Natural Increase*	-18	‡	†	‡	-7	‡	11	‡	-46	0.0	11	‡	-39	0.0	352	0.0	
Births - Residence	Live Births, Total	37	6.3	152	12.7	20	11.2	112	11.9	68	7.3	45	14.6	127	11.0	1,145	12.3
	Live Births, Male**	18	‡	82	25.5	10	‡	52	23.1	32	13.6	28	28.4	68	22.0	599	24.7
	Live Births, Female**	19	‡	70	25.4	10	‡	60	24.4	36	15.7	17	‡	59	22.2	546	24.5
	Live Births, Out Of Wedlock	6	‡	58	381.6	†	‡	35	312.5	35	514.7	15	‡	39	307.1	395	345.0
Deaths - Residence	Deaths (Excluding Fetal), Total	55	9.4	149	12.5	27	15.1	101	10.7	114	12.2	34	11.0	166	14.4	793	8.5
	Deaths (Excluding Fetal), Male**	29	10.1	85	14.2	13	‡	61	12.6	61	12.2	14	‡	82	14.2	413	8.9
	Deaths (Excluding Fetal), Female**	26	8.8	64	10.7	14	‡	40	8.7	53	12.2	20	13.4	84	14.7	380	8.1
Infant Mortality & Fetal Death - Residence***	Infant Deaths (Under 1 Year)	†	‡	-	-	-	-	†	‡	-	-	-	-	†	‡	6	‡
	Neonatal (Under 28 Days)	-	-	-	-	-	-	†	‡	-	-	-	-	†	‡	†	‡
	Postneonatal (28 Days - 1 Year)	†	‡	-	-	-	-	-	-	-	-	-	-	-	-	†	‡
	Fetal	-	-	†	‡	-	-	-	-	-	-	-	-	-	-	†	‡
	Perinatal	-	-	†	‡	-	-	†	‡	-	-	-	-	†	‡	7	‡
Leading Causes of Death - Residence****	(#) Malignant neoplasms	14	‡	32	267.8	6	‡	20	211.8	26	278.7	6	‡	28	243.5	162	174.1
	(#) Diseases of heart	8	‡	27	225.9	†	‡	14	‡	24	257.3	6	‡	38	330.4	141	151.5
	(#) Chronic lower respiratory	†	‡	17	‡	†	‡	6	‡	†	‡	†	‡	10	‡	52	55.9
	(#) Accidents (unintentional injuries)	†	‡	5	‡	†	‡	5	‡	7	‡	†	‡	11	‡	62	66.6
	(61#) Cerebrovascular diseases	5	‡	7	‡	†	‡	†	‡	5	‡	†	‡	12	‡	39	41.9
	(48#) Alzheimer's disease	†	‡	†	‡	-	-	†	‡	†	‡	†	‡	†	‡	15	‡
	(43#) Diabetes mellitus	†	‡	6	‡	†	‡	5	‡	†	‡	†	‡	†	‡	16	‡
	(#) Intentional self-harm (suicide)	†	‡	†	‡	-	-	†	‡	†	‡	-	-	†	‡	19	‡
	(#) Influenza and pneumonia	†	‡	6	‡	†	‡	7	‡	†	‡	-	-	†	‡	22	23.6
	(#) Chronic liver disease and	-	-	†	‡	-	-	†	‡	†	‡	†	‡	-	-	11	‡
Births - Occurrence	†	‡	294	24.6	-	-	88	9.3	43	4.6	-	-	107	9.3	1,250	13.4	
Deaths - Occurrence	Deaths (Excluding Fetal), Total	38	6.5	153	12.8	25	14.0	97	10.3	98	10.5	26	8.4	156	13.6	853	9.2
	Accidental	†	‡	5	‡	†	‡	†	‡	7	‡	†	‡	11	‡	68	0.7
	Motor Vehicle	†	‡	†	‡	-	-	†	‡	†	‡	-	-	†	‡	22	0.2
	Other Accidental	†	‡	†	‡	†	‡	†	‡	5	‡	†	‡	8	‡	46	0.5
Infant Death - Occurrence	-	-	-	-	-	-	-	-	-	-	-	-	†	‡	†	‡	
Marriages - Occurrence	Marriages Solumnized	34	5.8	60	5.0	8	‡	57	6.0	43	4.6	11	‡	88	7.7	1,726	18.5
	Licenses Issued	21	3.6	64	5.4	11	‡	63	6.7	33	3.5	13	‡	87	7.6	1,715	18.4
Marital Terminations - Occurrence	Marital Terminations	10	‡	36	3.0	†	‡	9	‡	20	2.1	6	‡	41	3.6	433	4.7

\* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero.\*\*The birth/death record of an infant with unknown sex is not included in this table.\*\*\* 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.

Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/113causes.pdf>. Those marked with a "#" sign are rankable as leading causes.

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‡ 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, 2013**

Item	Gallatin		Garfield		Glacier		Golden Valley		Granite		Hill		Jefferson		Judith Basin		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Population	94,720	-	1,290	-	13,739	-	859	-	3,138	-	16,568	-	11,512	-	2,016	-	
Natural Increase*	589	0.0	-1	‡	114	0.0	-4	‡	-13	‡	161	0.0	-18	‡	-9	‡	
Births - Residence	Live Births, Total	1,133	12.0	9	‡	244	17.8	9	‡	18	‡	303	18.3	94	8.2	14	‡
	Live Births, Male**	576	23.2	6	‡	124	36.0	6	‡	10	‡	149	36.2	46	16.0	9	‡
	Live Births, Female**	556	24.7	†	‡	120	35.1	†	‡	8	‡	154	36.9	48	16.6	5	‡
	Live Births, Out Of Wedlock	228	201.2	†	‡	162	663.9	†	‡	7	‡	177	584.2	37	393.6	†	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	544	5.7	10	‡	130	9.5	13	‡	31	9.9	142	8.6	112	9.7	23	11.4
	Deaths (Excluding Fetal), Male**	279	5.7	7	‡	68	10.0	6	‡	13	‡	63	7.5	66	11.3	13	‡
	Deaths (Excluding Fetal), Female**	264	5.7	†	‡	62	8.9	7	‡	18	‡	79	9.6	46	8.1	10	‡
Infant Mortality & Fetal Death - Residence***	Infant Deaths (Under 1 Year)	†	‡	-	-	†	‡	-	-	-	-	†	‡	†	‡	-	-
	Neonatal (Under 28 Days)	†	‡	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Postneonatal (28 Days - 1 Year)	-	-	-	-	†	‡	-	-	-	-	†	‡	†	‡	-	-
	Fetal	7	‡	-	-	-	-	-	-	-	-	†	‡	-	-	-	-
	Perinatal	11	‡	-	-	-	-	-	-	-	-	†	‡	-	-	-	-
Leading Causes of Death - Residence****	(#) Malignant neoplasms	121	127.7	†	‡	24	174.7	5	‡	10	‡	29	175.0	23	199.8	11	‡
	(#) Diseases of heart	105	110.9	†	‡	16	‡	†	‡	5	‡	39	235.4	26	225.9	7	‡
	(#) Chronic lower respiratory	32	33.8	-	-	†	‡	-	-	†	‡	8	‡	11	‡	-	-
	(#) Accidents (unintentional injuries)	34	35.9	†	‡	22	160.1	†	‡	†	‡	8	‡	11	‡	-	-
	(61#) Cerebrovascular diseases	36	38.0	-	-	5	‡	†	‡	-	-	6	‡	7	‡	-	-
	(48#) Alzheimer's disease	11	‡	-	-	†	‡	-	-	-	-	†	‡	-	-	†	‡
	(43#) Diabetes mellitus	†	‡	†	‡	10	‡	†	‡	†	‡	6	‡	†	‡	-	-
	(#) Intentional self-harm (suicide)	19	‡	†	‡	†	‡	-	-	†	‡	†	‡	†	‡	-	-
	(#) Influenza and pneumonia	5	‡	-	-	5	‡	-	-	†	‡	†	‡	†	‡	-	-
	(#) Chronic liver disease and	†	‡	-	-	†	‡	-	-	†	‡	†	‡	†	‡	-	-
Births - Occurrence	1,239	13.1	-	-	140	10.2	-	-	-	-	387	23.4	†	‡	-	-	
Deaths - Occurrence	Deaths (Excluding Fetal), Total	530	5.6	12	‡	105	7.6	5	‡	27	8.6	115	6.9	74	6.4	13	‡
	Accidental	27	0.3	†	‡	22	1.6	-	-	†	‡	5	‡	6	‡	-	-
	Motor Vehicle	9	‡	†	‡	12	‡	-	-	†	‡	†	‡	†	‡	-	-
	Other Accidental	18	‡	†	‡	10	‡	-	-	†	‡	†	‡	†	‡	-	-
Infant Death - Occurrence	†	‡	-	-	†	‡	-	-	-	-	†	‡	-	-	-	-	
Marriages - Occurrence	Marriages Solumnized	701	7.4	9	‡	78	5.7	†	‡	25	8.0	84	5.1	54	4.7	6	‡
	Licenses Issued	779	8.2	11	‡	65	4.7	†	‡	21	6.7	93	5.6	30	2.6	5	‡
Marital Terminations - Occurrence	Marital Terminations	311	3.3	†	‡	48	3.5	†	‡	5	‡	48	2.9	17	‡	7	‡

\* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero.\*\*The birth/death record of an infant with unknown sex is not included in this table.\*\*\* 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.

Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/113causes.pdf>. Those marked with a "#" sign are rankable as leading causes.

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**TABLE S-4**  
**Selected Vital Statistics**  
**Frequencies and Rates or Ratios by County**  
**Montana, 2013**

Item	Lake		Lewis & Clark		Liberty		Lincoln		McCone		Madison		Meagher		Mineral		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Population	29,017	-	65,338	-	2,369	-	19,460	-	1,709	-	7,712	-	1,937	-	4,275	-	
Natural Increase*	90	0.0	222	0.0	†	‡	-58	0.0	-3	‡	-13	‡	-13	‡	-2	‡	
Births - Residence	Live Births, Total	376	13.0	772	11.8	27	11.4	190	9.8	14	‡	55	7.1	16	‡	43	10.1
	Live Births, Male**	197	26.4	401	24.0	13	‡	104	19.3	7	‡	24	13.8	8	‡	18	‡
	Live Births, Female**	179	25.4	371	23.3	14	‡	86	19.8	7	‡	31	14.8	8	‡	25	21.1
	Live Births, Out Of Wedlock	205	545.2	298	386.0	6	‡	74	389.5	†	‡	17	‡	†	‡	15	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	286	9.9	550	8.4	25	10.6	248	12.7	17	‡	68	8.8	29	15.0	45	10.5
	Deaths (Excluding Fetal), Male**	152	10.7	266	8.3	12	‡	147	14.9	6	‡	34	8.5	17	‡	20	9.0
	Deaths (Excluding Fetal), Female**	134	9.1	284	8.6	13	‡	101	10.5	11	‡	34	9.1	12	‡	25	12.2
Infant Mortality & Fetal Death - Residence***	Infant Deaths (Under 1 Year)	†	‡	5	‡	-	-	†	‡	-	-	†	‡	-	-	†	‡
	Neonatal (Under 28 Days)	-	-	5	‡	-	-	†	‡	-	-	-	-	-	-	-	-
	Postneonatal (28 Days - 1 Year)	†	‡	-	-	-	-	†	‡	-	-	†	‡	-	-	†	‡
	Fetal	†	‡	7	‡	-	-	-	-	-	-	-	-	-	-	-	-
	Perinatal	†	‡	12	‡	-	-	†	‡	-	-	-	-	-	-	-	-
Leading Causes of Death - Residence****	(#) Malignant neoplasms	63	217.1	121	185.2	5	‡	63	323.7	†	‡	14	‡	7	‡	12	‡
	(#) Diseases of heart	64	220.6	101	154.6	7	‡	60	308.3	5	‡	9	‡	14	‡	8	‡
	(#) Chronic lower respiratory	16	‡	54	82.6	†	‡	14	‡	†	‡	†	‡	-	-	5	‡
	(#) Accidents (unintentional injuries)	21	72.4	33	50.5	†	‡	15	‡	†	‡	8	‡	†	‡	†	‡
	(61#) Cerebrovascular diseases	11	‡	27	41.3	-	-	15	‡	†	‡	†	‡	†	‡	†	‡
	(48#) Alzheimer's disease	†	‡	8	‡	†	‡	7	‡	-	-	-	-	-	-	†	‡
	(43#) Diabetes mellitus	7	‡	10	‡	-	-	†	‡	†	‡	†	‡	†	‡	†	‡
	(#) Intentional self-harm (suicide)	8	‡	7	‡	-	-	6	‡	-	-	†	‡	†	‡	†	‡
	(#) Influenza and pneumonia	7	‡	10	‡	-	-	†	‡	-	-	-	-	†	‡	-	-
	(#) Chronic liver disease and	†	‡	10	‡	†	‡	†	‡	-	-	-	-	-	-	-	-
Births - Occurrence	320	11.0	800	12.2	-	-	142	7.3	-	-	-	-	-	-	-	†	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	230	7.9	565	8.6	24	10.1	194	10.0	18	‡	60	7.8	21	10.8	32	7.5
	Accidental	16	‡	35	0.5	†	‡	13	‡	6	‡	6	‡	†	‡	6	‡
	Motor Vehicle	8	‡	6	‡	-	-	7	‡	†	‡	†	‡	†	‡	5	‡
	Other Accidental	8	‡	29	0.4	†	‡	6	‡	5	‡	†	‡	†	‡	†	‡
Infant Death - Occurrence	†	‡	†	‡	-	-	†	‡	-	-	†	‡	-	-	-	-	
Marriages - Occurrence	Marriages Solumnized	192	6.6	373	5.7	12	‡	116	6.0	11	‡	82	10.6	12	‡	20	4.7
	Licenses Issued	140	4.8	392	6.0	10	‡	91	4.7	8	‡	45	5.8	5	‡	12	‡
Marital Terminations - Occurrence	Marital Terminations	65	2.2	289	4.4	†	‡	50	2.6	†	‡	21	2.7	†	‡	21	4.9

\* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero.\*\*The birth/death record of an infant with unknown sex is not included in this table.\*\*\* 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. Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/113causes.pdf>. Those marked with a "#" sign are rankable as leading causes. † 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, 2013**

Item	Missoula		Musselshell		Park		Petroleum		Phillips		Pondera		Powder River		Powell	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	111,807	-	4,629	-	15,682	-	506	-	4,179	-	6,211	-	1,748	-	6,993	-
Natural Increase*	480	0.0	-26	0.0	†	‡	-2	‡	-12	‡	†	‡	-14	‡	-33	0.0
Births - Residence	1,302	11.6	31	6.7	135	8.6	†	‡	51	12.2	78	12.6	6	‡	39	5.6
	684	23.2	19	‡	73	17.2	†	‡	24	24.6	31	25.7	†	‡	17	‡
	618	23.4	12	‡	62	17.2	-	12.7	27	24.3	47	24.6	5	‡	22	14.5
	413	317.2	9	‡	35	259.3	†	‡	17	‡	34	435.9	-	-	12	‡
Deaths - Residence	822	7.4	57	12.3	132	8.4	5	‡	63	15.1	75	12.1	20	11.4	72	10.3
	416	7.4	34	14.7	67	8.5	†	‡	28	13.5	34	11.2	11	‡	38	8.8
	406	7.3	23	9.9	65	8.3	†	‡	35	16.6	41	12.9	9	‡	34	12.6
Infant Mortality & Fetal Death - Residence***	6	‡	-	-	-	-	-	-	-	-	-	-	-	-	†	‡
	†	‡	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	†	‡	-	-	-	-	-	-	-	-	-	-	-	-	†	‡
	5	‡	†	‡	-	-	-	-	-	-	-	-	-	-	-	-
	9	‡	†	‡	-	-	-	-	-	-	-	-	-	-	-	-
Leading Causes of Death - Residence****	168	150.3	12	‡	29	184.9	†	‡	9	‡	16	‡	†	‡	10	‡
	165	147.6	18	‡	26	165.8	†	‡	24	574.3	11	‡	9	‡	18	‡
	68	60.8	†	‡	7	‡	-	-	†	‡	†	‡	-	-	7	‡
	62	55.5	†	‡	5	‡	†	‡	†	‡	5	‡	†	‡	7	‡
	38	34.0	†	‡	6	‡	-	-	†	‡	†	‡	†	‡	†	‡
	16	‡	†	‡	6	‡	-	-	†	‡	-	-	-	-	†	‡
	10	‡	†	‡	†	‡	-	-	†	‡	†	‡	†	‡	†	‡
	26	23.3	†	‡	6	‡	-	-	†	‡	-	-	†	‡	†	‡
	22	19.7	-	-	†	‡	-	-	†	‡	†	‡	-	-	†	‡
	8	‡	-	-	†	‡	-	-	†	‡	†	‡	-	-	†	‡
Births - Occurrence	1,695	15.2	†	‡	96	6.1	-	-	†	‡	17	‡	†	‡	†	‡
Deaths - Occurrence	1,029	9.2	51	11.0	121	7.7	-	-	52	12.4	58	9.3	15	‡	60	8.6
	80	0.7	†	‡	6	‡	-	-	†	‡	5	‡	-	-	7	‡
	24	0.2	-	-	†	‡	-	-	†	‡	†	‡	-	-	†	‡
	56	0.5	†	‡	5	‡	-	-	†	‡	†	‡	-	-	†	‡
Infant Death - Occurrence	8	‡	†	‡	-	-	-	-	-	-	-	-	-	-	†	‡
Marriages - Occurrence	675	6.0	36	7.8	181	11.5	†	‡	15	‡	20	3.2	6	‡	32	4.6
	781	7.0	35	7.6	116	7.4	†	‡	14	‡	21	3.4	†	‡	26	3.7
Marital Terminations - Occurrence	525	4.7	15	‡	62	4.0	-	-	12	‡	13	‡	-	-	21	3.0

\* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero.\*\*The birth/death record of an infant with unknown sex is not included in this table.\*\*\* 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.

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**TABLE S-4**  
**Selected Vital Statistics**  
**Frequencies and Rates or Ratios by County**  
**Montana, 2013**

Item	Prairie		Ravalli		Richland		Roosevelt		Rosebud		Sanders		Sheridan		Silver Bow		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Population	Population	1,179	-	40,823	-	11,214	-	11,125	-	9,329	-	11,363	-	3,668	-	34,523	-
Natural Increase*	Natural Increase	-11	‡	-52	0.0	75	0.0	114	0.0	81	0.0	-28	0.0	-38	0.0	-35	0.0
Births - Residence	Live Births, Total	11	‡	379	9.3	174	15.5	251	22.6	183	19.6	120	10.6	32	8.7	363	10.5
	Live Births, Male**	5	‡	191	18.7	84	29.8	132	45.5	102	38.8	54	20.7	17	‡	190	20.7
	Live Births, Female**	6	‡	188	18.4	90	32.4	119	44.7	81	39.7	66	21.5	15	‡	173	21.4
	Live Births, Out Of Wedlock	5	‡	108	285.0	56	321.8	191	761.0	103	562.8	32	266.7	10	‡	186	512.4
Deaths - Residence	Deaths (Excluding Fetal), Total	22	18.7	431	10.6	99	8.8	137	12.3	102	10.9	148	13.0	70	19.1	398	11.5
	Deaths (Excluding Fetal), Male**	8	‡	231	11.4	52	8.9	63	11.4	48	10.2	83	14.3	36	19.2	200	11.4
	Deaths (Excluding Fetal), Female**	14	‡	200	9.7	47	8.8	74	13.2	54	11.7	65	11.7	34	19.0	198	11.7
Infant Mortality & Fetal Death - Residence***	Infant Deaths (Under 1 Year)	-	-	-	-	-	-	-	-	5	‡	-	-	-	-	-	‡
	Neonatal (Under 28 Days)	-	-	-	-	-	-	-	-	†	‡	-	-	-	-	-	†
	Postneonatal (28 Days - 1 Year)	-	-	-	-	-	-	-	-	†	‡	-	-	-	-	-	†
	Fetal	-	-	-	-	†	‡	†	‡	†	‡	-	-	-	-	-	†
	Perinatal	-	-	-	-	†	‡	†	‡	5	‡	-	-	-	-	-	†
Leading Causes of Death - Residence****	(#) Malignant neoplasms	†	‡	111	271.9	27	240.8	20	179.8	16	‡	30	264.0	13	‡	79	228.8
	(#) Diseases of heart	5	‡	91	222.9	15	‡	30	269.7	12	‡	52	457.6	10	‡	97	281.0
	(#) Chronic lower respiratory	†	‡	31	75.9	†	‡	†	‡	†	‡	5	‡	†	‡	34	98.5
	(#) Accidents (unintentional injuries)	†	‡	19	‡	12	‡	11	‡	5	‡	10	‡	†	‡	12	‡
	(61#) Cerebrovascular diseases	†	‡	22	53.9	7	‡	6	‡	7	‡	6	‡	5	‡	20	57.9
	(48#) Alzheimer's disease	†	‡	9	‡	6	‡	†	‡	†	‡	†	‡	†	‡	13	‡
	(43#) Diabetes mellitus	†	‡	12	‡	-	-	6	‡	7	‡	†	‡	5	‡	9	‡
	(#) Intentional self-harm (suicide)	-	-	11	‡	†	‡	7	‡	6	‡	†	‡	†	‡	11	‡
	(#) Influenza and pneumonia	-	-	8	‡	†	‡	†	‡	9	‡	†	‡	†	‡	6	‡
	(#) Chronic liver disease and	-	-	8	‡	†	‡	15	‡	†	‡	†	‡	-	-	5	‡
Births - Occurrence	Live Births, Total	-	-	179	4.4	135	12.0	179	16.1	13	‡	43	3.8	-	-	453	13.1
Deaths - Occurrence	Deaths (Excluding Fetal), Total	19	‡	341	8.4	78	7.0	114	10.2	62	6.6	120	10.6	67	18.3	406	11.8
	Accidental	†	‡	12	‡	16	‡	6	‡	5	‡	9	‡	†	‡	17	‡
	Motor Vehicle	†	‡	†	‡	11	‡	†	‡	†	‡	†	‡	-	-	8	‡
	Other Accidental	†	‡	8	‡	5	‡	5	‡	†	‡	5	‡	†	‡	9	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	-	-	-	-	-	-	-	-	†	‡	-	-	-	-	†	‡
Marriages - Occurrence	Marriages Solumnized	6	‡	244	6.0	67	6.0	32	2.9	35	3.8	74	6.5	18	‡	213	6.2
	Licenses Issued	5	‡	198	4.9	82	7.3	31	2.8	36	3.9	69	6.1	19	‡	234	6.8
Marital Terminations - Occurrence	Marital Terminations	†	‡	133	3.3	32	2.9	7	‡	19	‡	34	3.0	8	‡	162	4.7

\* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero.\*\*The birth/death record of an infant with unknown sex is not included in this table.\*\*\* 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. Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/113causes.pdf>. Those marked with a "#" sign are rankable as leading causes. † 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, 2013**

Item	Stillwater		Sweet Grass		Teton		Toole		Treasure		Valley		Wheatland		Wibaux		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Population	9,318	-	3,669	-	6,065	-	5,138	-	700	-	7,630	-	2,134	-	1,121	-	
Natural Increase*	10	‡	-20	0.0	†	‡	6	‡	†	‡	-3	‡	8	‡	†	‡	
Births - Residence	Live Births, Total	101	10.8	30	8.2	78	12.9	61	11.9	8	‡	96	12.6	25	11.7	18	‡
	Live Births, Male**	52	21.3	18	‡	44	26.1	32	21.2	5	‡	50	25.0	15	‡	8	‡
	Live Births, Female**	49	22.1	12	‡	34	25.3	29	27.0	†	‡	46	25.3	10	‡	10	‡
	Live Births, Out Of Wedlock	22	217.8	†	‡	12	‡	17	‡	†	‡	38	395.8	7	‡	5	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	91	9.8	50	13.6	74	12.2	55	10.7	7	‡	99	13.0	17	‡	14	‡
	Deaths (Excluding Fetal), Male**	52	11.0	22	12.0	39	13.1	29	10.1	†	‡	55	14.3	11	‡	7	‡
	Deaths (Excluding Fetal), Female**	39	8.5	28	15.3	35	11.4	26	11.5	†	‡	44	11.6	6	‡	7	‡
Infant Mortality & Fetal Death - Residence***	Infant Deaths (Under 1 Year)	-	-	-	-	-	-	†	‡	-	-	-	-	-	-	-	-
	Neonatal (Under 28 Days)	-	-	-	-	-	-	†	‡	-	-	-	-	-	-	-	-
	Postneonatal (28 Days - 1 Year)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fetal	†	‡	-	-	-	-	†	‡	-	-	-	-	-	-	-	-
	Perinatal	†	‡	-	-	-	-	†	‡	-	-	-	-	-	-	-	-
Leading Causes of Death - Residence****	(#) Malignant neoplasms	14	‡	12	‡	13	‡	10	‡	†	‡	16	‡	†	‡	†	‡
	(#) Diseases of heart	30	322.0	13	‡	23	379.2	12	‡	†	‡	35	458.7	†	‡	†	‡
	(#) Chronic lower respiratory	†	‡	5	‡	11	‡	8	‡	†	‡	†	‡	-	-	-	-
	(#) Accidents (unintentional injuries)	6	‡	5	‡	†	‡	6	‡	-	-	8	‡	†	‡	-	-
	(61#) Cerebrovascular diseases	8	‡	†	‡	5	‡	†	‡	-	-	†	‡	-	-	-	-
	(48#) Alzheimer's disease	†	‡	†	‡	†	‡	-	-	-	-	†	‡	-	-	-	-
	(43#) Diabetes mellitus	†	‡	-	-	6	‡	†	‡	-	-	†	‡	†	‡	-	-
	(#) Intentional self-harm (suicide)	5	‡	-	-	†	‡	-	-	-	-	†	‡	-	-	-	-
	(#) Influenza and pneumonia	-	-	-	-	†	‡	-	-	-	-	†	‡	†	‡	†	‡
(#) Chronic liver disease and	-	-	-	-	†	‡	-	-	-	-	†	‡	-	-	-	-	
Births - Occurrence	Live Births, Total	†	‡	-	-	†	‡	24	4.7	-	-	151	19.8	-	-	-	-
Deaths - Occurrence	Deaths (Excluding Fetal), Total	76	8.2	39	10.6	64	10.6	45	8.8	†	‡	74	9.7	13	‡	16	‡
	Accidental	7	‡	†	‡	†	‡	†	‡	†	‡	5	‡	†	‡	-	-
	Motor Vehicle	†	‡	†	‡	†	‡	†	‡	†	‡	†	‡	†	‡	-	-
	Other Accidental	†	‡	†	‡	†	‡	†	‡	†	‡	†	‡	†	‡	-	-
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marriages - Occurrence	Marriages Solumnized	66	7.1	32	8.7	41	6.8	20	3.9	†	‡	36	4.7	9	‡	7	‡
	Licenses Issued	54	5.8	28	7.6	33	5.4	22	4.3	5	‡	34	4.5	7	‡	6	‡
Marital Terminations - Occurrence	Marital Terminations	-	-	9	‡	12	‡	10	‡	†	‡	16	‡	†	‡	†	‡

\* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero.\*\*The birth/death record of an infant with unknown sex is not included in this table.\*\*\* 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.

Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/113causes.pdf>. Those marked with a "#" sign are rankable as leading causes.

† 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, 2013**

Item		Yellowstone		Not Stated	
		Number	Rate	Number	Rate
Population	Population	154,162	-	-	-
Natural Increase*	Natural Increase	505	0.0	‡	‡
Births - Residence	Live Births, Total	1,930	12.5	†	‡
	Live Births, Male**	970	25.6	†	‡
	Live Births, Female**	960	24.5	-	-
	Live Births, Out Of Wedlock	741	383.9	†	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	1,425	9.2	†	‡
	Deaths (Excluding Fetal), Male**	721	9.5	-	-
	Deaths (Excluding Fetal), Female**	704	9.0	†	‡
Infant Mortality & Fetal Death - Residence***	Infant Deaths (Under 1 Year)	11	‡	-	-
	Neonatal (Under 28 Days)	6	‡	-	-
	Postneonatal (28 Days - 1 Year)	5	‡	-	-
	Fetal	6	‡	-	-
	Perinatal	12	‡	-	-
Leading Causes of Death - Residence****	(#) Malignant neoplasms	323	209.5	-	-
	(#) Diseases of heart	288	186.8	-	-
	(#) Chronic lower respiratory	96	62.3	-	-
	(#) Accidents (unintentional injuries)	51	33.1	-	-
	(61#) Cerebrovascular diseases	73	47.4	-	-
	(48#) Alzheimer's disease	73	47.4	-	-
	(43#) Diabetes mellitus	33	21.4	-	-
	(#) Intentional self-harm (suicide)	37	24.0	-	-
	(#) Influenza and pneumonia	33	21.4	-	-
(#) Chronic liver disease and	27	17.5	-	-	
Births - Occurrence	Live Births, Total	2,755	17.9	-	-
Deaths - Occurrence	Deaths (Excluding Fetal), Total	1,821	11.8	†	‡
	Accidental	84	0.5	-	-
	Motor Vehicle	34	0.2	-	-
	Other Accidental	50	0.3	-	-
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	14	‡	-	-
Marriages - Occurrence	Marriages Solumnized	896	5.8	-	-
	Licenses Issued	999	6.5	-	-
Marital Terminations - Occurrence	Marital Terminations	660	4.3	-	-

\* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero \*\*The birth/death record of an infant with unknown sex is not included in this table.\*\*\* 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.

Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/113causes.pdf>. Those marked with a "#" sign are rankable as leading causes.

† 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, 1990-2013**

Year		Age							Not Stat
		All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older		
2013	Live Births	Number	12,351	859	3,165	3,877	2,988	1,462	-
		Rate+	67.1	28.0	90.1	126.1	95.6	25.9	-
	Fetal Deaths	Number	54	†	7	20	15	9	-
		Rate+	0.3	‡	‡	0.7	‡	‡	-
	Induced Abortions	Number	1,622	227	536	389	265	205	-
		Rate+	8.8	7.4	15.3	12.7	8.5	3.6	-
2012	Live Births	Number	12,052	896	3,066	3,728	2,923	1,439	-
		Rate+	66.1	28.9	89.4	121.3	96.1	25.8	-
	Fetal Deaths	Number	57	8	17	15	9	8	-
		Rate+	0.3	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,802	270	624	429	262	217	-
		Rate+	9.9	8.7	18.2	14.0	8.6	3.9	-
2011	Live Births	Number	12,038	935	3,206	3,725	2,848	1,324	-
		Rate+	66.5	29.5	96.3	119.9	96.1	23.9	-
	Fetal Deaths	Number	61	11	14	18	8	10	-
		Rate+	0.3	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,875	304	654	433	270	214	-
		Rate+	10.4	9.6	19.6	13.9	9.1	3.9	-
2010	Live Births	Number	12,057	1,141	3,137	3,624	2,772	1,383	-
		Rate+	67.1	35.5	96.8	116.9	96.5	24.9	-
	Fetal Deaths	Number	52	10	11	12	13	6	-
		Rate+	0.3	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,892	308	675	443	244	222	-
		Rate+	10.5	9.6	20.8	14.3	8.5	4.0	-
2009	Live Births	Number	12,280	1,267	3,318	3,769	2,624	1,302	-
		Rate+	68.3	38.5	102.5	123.9	94.1	23.1	-
	Fetal Deaths	Number	57	7	10	14	15	11	-
		Rate+	0.3	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,946	363	659	471	241	212	-
		Rate+	10.8	11.0	20.4	15.5	8.6	3.8	-
2008	Live Births	Number	12,595	1,321	3,458	3,884	2,605	1,327	-
		Rate+	69.6	39.2	105.4	131.1	96.9	22.9	-
	Fetal Deaths	Number	39	9	†	5	6	15	-
		Rate+	0.2	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,915	370	688	427	240	190	-
		Rate+	10.6	11.0	21.0	14.4	8.9	3.3	-
2007	Live Births	Number	12,437	1,207	3,486	3,756	2,555	1,433	-
		Rate+	68.7	35.5	106.0	132.0	98.3	24.1	-
	Fetal Deaths	Number	38	6	†	12	7	9	-
		Rate+	0.2	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,977	374	732	423	224	224	-
		Rate+	10.9	11.0	22.3	14.9	8.6	3.8	-
2006	Live Births	Number	12,499	1,289	3,528	3,728	2,515	1,439	-
		Rate+	69.1	37.7	103.9	141.9	97.4	23.7	-
	Fetal Deaths	Number	49	6	9	13	10	11	-
		Rate+	0.3	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,959	385	732	413	212	217	-
		Rate+	10.8	11.3	21.6	15.7	8.2	3.6	-
2005	Live Births	Number	11,571	1,201	3,314	3,318	2,370	1,368	-
		Rate+	64.0	35.0	98.8	132.3	90.4	22.2	-
	Fetal Deaths	Number	54	†	18	17	8	10	-
		Rate+	0.3	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,980	428	691	385	263	213	-
		Rate+	10.9	12.5	20.6	15.4	10.0	3.5	-
2004	Live Births	Number	11,514	1,225	3,327	3,233	2,398	1,331	-
		Rate+	63.6	35.6	102.2	132.4	91.4	21.0	-
	Fetal Deaths	Number	40	†	8	11	10	7	-
		Rate+	0.2	‡	‡	‡	‡	‡	-

\* 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).  
+ Per 1,000 females in the designated age group. Female population aged 15-44 is used as the denominator for the total.  
- Frequency is zero and rate is not calculated.  
† 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, 1990-2013**

Year			Age						Not Stat
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	
2004	Induced Abortions	Number	2,088	420	733	446	230	259	-
		Rate+	11.5	12.2	22.5	18.3	8.8	4.1	-
2003	Live Births	Number	11,382	1,211	3,124	3,259	2,435	1,353	-
		Rate+	62.8	35.0	98.9	138.5	92.6	20.8	-
	Fetal Deaths	Number	55	7	17	13	9	9	-
		Rate+	0.3	†	†	†	†	†	-
	Induced Abortions	Number	1,975	432	677	412	227	227	-
		Rate+	10.9	12.5	21.4	17.5	8.6	3.5	-
2002	Live Births	Number	11,042	1,277	3,155	3,028	2,319	1,263	-
		Rate+	60.7	36.7	104.5	130.9	88.1	18.7	-
	Fetal Deaths	Number	51	†	17	11	13	6	-
		Rate+	0.3	†	†	†	†	†	-
	Induced Abortions	Number	2,052	456	689	381	271	255	-
		Rate+	11.3	13.1	22.8	16.5	10.3	3.8	-
2001	Live Births	Number	10,938	1,266	3,094	2,948	2,315	1,315	-
		Rate+	59.6	35.9	107.9	125.1	88.3	18.8	-
	Fetal Deaths	Number	41	7	11	8	9	6	-
		Rate+	0.2	†	†	†	†	†	-
	Induced Abortions	Number	2,075	480	702	355	265	273	-
		Rate+	11.3	13.6	24.5	15.1	10.1	3.9	-
2000	Live Births	Number	10,946	1,273	3,067	3,051	2,190	1,365	-
		Rate+	59.1	36.8	108.8	124.6	83.9	19.0	-
	Fetal Deaths	Number	55	9	17	13	10	6	-
		Rate+	0.3	†	†	†	†	†	-
	Induced Abortions	Number	2,117	490	740	370	253	264	-
		Rate+	11.4	14.1	26.2	15.1	9.7	3.7	-
1999	Live Births	Number	10,774	1,258	2,977	3,013	2,164	1,362	-
		Rate+	57.9	36.3	106.9	122.9	83.0	18.7	-
	Fetal Deaths	Number	62	†	17	22	12	7	-
		Rate+	0.3	†	†	0.9	†	†	-
	Induced Abortions	Number	2,137	549	659	407	244	278	-
		Rate+	11.5	15.8	23.7	16.6	9.4	3.8	-
1998	Live Births	Number	10,787	1,337	2,998	2,959	2,192	1,301	-
		Rate+	57.5	38.6	108.5	121.7	82.1	17.5	-
	Fetal Deaths	Number	75	13	14	24	9	15	-
		Rate+	0.4	†	†	1.0	†	†	-
	Induced Abortions	Number	2,156	498	710	418	247	283	-
		Rate+	11.5	14.4	25.7	17.2	9.2	3.8	-
1997	Live Births	Number	10,838	1,327	2,834	3,065	2,232	1,380	-
		Rate+	57.2	38.7	102.8	127.1	79.8	18.3	-
	Fetal Deaths	Number	49	6	20	12	†	8	-
		Rate+	0.3	†	0.7	†	†	†	-
	Induced Abortions	Number	2,314	578	705	443	281	307	-
		Rate+	12.2	16.8	25.6	18.4	10.1	4.1	-
1996	Live Births	Number	10,839	1,344	2,844	3,045	2,294	1,312	-
		Rate+	57.0	39.8	104.4	127.5	77.9	17.3	-
	Fetal Deaths	Number	58	10	9	13	12	14	-
		Rate+	0.3	†	†	†	†	†	-
	Induced Abortions	Number	2,307	563	700	442	319	283	-
		Rate+	12.1	16.7	25.7	18.5	10.8	3.7	-
1995	Live Births	Number	11,136	1,410	2,950	3,087	2,395	1,294	-
		Rate+	59.0	42.9	109.1	132.1	78.0	17.3	-
	Fetal Deaths	Number	66	11	7	17	21	10	-
		Rate+	0.3	†	†	†	0.7	†	-
	Induced Abortions	Number	2,244	587	680	394	293	290	-
		Rate+	11.9	17.8	25.2	16.9	9.5	3.9	-
1994	Live Births	Number	11,062	1,337	2,994	3,036	2,429	1,266	-
		Rate+	59.6	42.2	114.0	130.2	76.6	17.5	-

\* 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).  
+ Per 1,000 females in the designated age group. Female population aged 15-44 is used as the denominator for the total.  
- Frequency is zero and rate is not calculated.  
† 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, 1990-2013**

Year			Age						Not Stat
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	
1994	Fetal Deaths	Number	51	6	11	13	13	8	-
		Rate+	0.3	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	2,310	592	711	386	342	279	-
		Rate+	12.5	18.7	27.1	16.6	10.8	3.8	-
1993	Live Births	Number	11,360	1,413	3,131	3,180	2,449	1,187	-
		Rate+	62.2	46.4	122.7	133.3	75.5	16.9	-
	Fetal Deaths	Number	73	9	20	21	13	10	-
		Rate+	0.4	‡	0.8	0.9	‡	‡	-
	Induced Abortions	Number	2,268	570	733	405	309	251	-
		Rate+	12.4	18.7	28.7	17.0	9.5	3.6	-
1992	Live Births	Number	11,468	1,368	3,096	3,336	2,519	1,149	-
		Rate+	64.0	46.8	125.7	134.7	76.4	17.0	-
	Fetal Deaths	Number	84	†	21	25	21	13	-
		Rate+	0.5	‡	0.9	1.0	0.6	‡	-
	Induced Abortions	Number	2,417	601	740	426	376	274	-
		Rate+	13.5	20.6	30.0	17.2	11.4	4.0	-
1991	Live Births	Number	11,497	1,331	3,197	3,379	2,456	1,134	-
		Rate+	64.7	47.5	133.4	129.1	73.3	17.2	-
	Fetal Deaths	Number	89	15	14	23	22	15	-
		Rate+	0.5	‡	‡	0.9	0.7	‡	-
	Induced Abortions	Number	2,376	600	767	443	325	241	-
		Rate+	13.4	21.4	32.0	16.9	9.7	3.7	-
1990	Live Births	Number	11,602	1,344	3,070	3,669	2,481	1,038	-
		Rate+	65.9	48.8	130.4	131.4	72.9	16.5	-
	Fetal Deaths	Number	78	6	19	21	15	17	-
		Rate+	0.4	‡	‡	0.8	‡	‡	-
	Induced Abortions	Number	2,570	705	754	505	356	250	-
		Rate+	14.6	25.6	32.0	18.1	10.5	4.0	-

\* 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).  
+ Per 1,000 females in the designated age group. Female population aged 15-44 is used as the denominator for the total.  
- Frequency is zero and rate is not calculated.  
† 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, 2001-2013**

County	Year												
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Montana Total</b>	906,961	911,667	919,630	930,009	940,102	952,692	964,706	976,415	983,982	990,527	997,600	1,005,494	1,015,165
Beaverhead	9,058	9,018	8,924	8,908	8,904	9,012	9,028	9,166	9,200	9,250	9,222	9,375	9,341
Big Horn	12,783	12,713	12,652	12,731	12,634	12,540	12,549	12,564	12,747	12,912	13,035	12,958	13,042
Blaine	6,748	6,769	6,699	6,571	6,592	6,536	6,472	6,401	6,445	6,484	6,559	6,657	6,604
Broadwater	4,438	4,478	4,562	4,711	4,775	4,958	5,089	5,261	5,496	5,640	5,734	5,769	5,692
Carbon	9,665	9,714	9,747	9,796	9,921	9,916	9,973	9,965	10,033	10,059	10,080	10,119	10,340
Carter	1,337	1,319	1,290	1,284	1,258	1,227	1,216	1,172	1,180	1,155	1,139	1,172	1,174
Cascade	80,055	79,848	79,633	80,198	80,041	79,984	80,099	80,529	80,680	81,501	81,758	81,784	82,384
Choteau	5,899	5,811	5,775	5,729	5,708	5,709	5,746	5,774	5,793	5,802	5,770	5,921	5,849
Custer	11,484	11,510	11,438	11,510	11,423	11,395	11,480	11,515	11,646	11,698	11,765	11,867	11,951
Daniels	1,999	1,912	1,881	1,804	1,782	1,748	1,702	1,704	1,732	1,742	1,767	1,777	1,791
Dawson	8,963	8,801	8,812	8,764	8,800	8,853	8,944	8,925	9,008	8,932	9,010	9,263	9,445
Deer Lodge	9,303	9,238	9,189	9,274	9,274	9,180	9,264	9,351	9,260	9,300	9,279	9,257	9,329
Fallon	2,741	2,725	2,769	2,773	2,712	2,722	2,768	2,807	2,882	2,890	2,940	3,039	3,079
Fergus	11,736	11,666	11,565	11,546	11,444	11,501	11,463	11,448	11,571	11,577	11,490	11,448	11,501
Flathead	76,171	77,583	79,643	81,247	83,320	85,759	88,245	90,260	90,910	90,891	91,153	91,660	93,068
Gallatin	70,120	71,824	74,504	77,124	80,310	83,984	86,620	88,932	89,187	89,587	91,336	92,665	94,720
Garfield	1,269	1,258	1,254	1,236	1,202	1,233	1,234	1,205	1,240	1,183	1,273	1,263	1,290
Glacier	13,098	13,101	13,168	13,388	13,264	13,250	13,179	13,109	13,266	13,441	13,552	13,643	13,739
Golden Valley	992	1,012	981	1,001	1,014	973	964	890	897	881	848	840	859
Granite	2,905	2,919	2,931	2,943	3,009	3,013	3,039	3,031	3,057	3,073	3,146	3,110	3,138
Hill	16,378	16,139	15,988	15,947	15,870	15,981	16,031	15,889	15,981	16,144	16,402	16,410	16,568
Jefferson	10,087	10,181	10,262	10,511	10,709	10,801	11,040	11,203	11,364	11,409	11,455	11,431	11,512
Judith Basin	2,266	2,246	2,201	2,196	2,161	2,146	2,083	2,071	2,076	2,062	2,030	2,029	2,016
Lake	26,810	26,814	27,117	27,634	28,023	28,283	28,235	28,515	28,668	28,787	29,030	29,025	29,017
Lewis & Clark	56,262	56,271	57,110	58,041	58,529	59,529	60,646	61,747	62,671	63,586	64,242	64,878	65,338
Liberty	2,163	2,144	2,212	2,263	2,266	2,216	2,236	2,225	2,283	2,354	2,382	2,398	2,369
Lincoln	18,646	18,669	18,861	18,991	19,180	19,228	19,440	19,541	19,657	19,683	19,601	19,504	19,460
McCone	1,874	1,828	1,797	1,781	1,778	1,765	1,767	1,720	1,705	1,734	1,713	1,692	1,709
Madison	6,856	6,935	6,894	6,999	7,211	7,343	7,560	7,674	7,674	7,685	7,693	7,745	7,712
Meagher	1,906	1,895	1,913	1,935	1,899	1,923	1,908	1,893	1,897	1,890	1,890	1,912	1,937
Mineral	3,839	3,837	3,936	3,985	4,133	4,211	4,156	4,177	4,200	4,211	4,247	4,163	4,275
Missoula	97,435	98,968	99,976	100,934	102,298	104,372	106,110	107,747	108,717	109,426	110,162	111,103	111,807
Musselshell	4,368	4,353	4,361	4,370	4,323	4,398	4,394	4,423	4,478	4,550	4,739	4,674	4,629
Park	15,651	15,676	15,539	15,509	15,629	15,690	15,828	15,896	15,738	15,586	15,508	15,592	15,682
Petroleum	490	506	506	519	492	495	470	481	488	492	489	509	506
Phillips	4,498	4,383	4,317	4,295	4,228	4,166	4,193	4,182	4,242	4,267	4,208	4,130	4,179
Pondera	6,360	6,285	6,228	6,140	6,148	6,172	6,169	6,117	6,109	6,168	6,186	6,155	6,211
Powder River	1,814	1,834	1,837	1,789	1,739	1,794	1,761	1,756	1,738	1,729	1,753	1,760	1,748
Powell	7,033	6,986	6,893	6,872	6,997	7,115	7,117	7,036	7,093	7,017	7,075	7,082	6,993
Prairie	1,208	1,173	1,168	1,153	1,098	1,098	1,083	1,123	1,139	1,189	1,156	1,157	1,179
Ravalli	36,683	37,308	38,184	38,739	39,012	39,555	40,023	40,223	39,956	40,323	40,388	40,626	40,823
Richland	9,424	9,286	9,195	9,096	9,207	9,267	9,356	9,430	9,679	9,739	10,142	10,817	11,214
Roosevelt	10,558	10,389	10,344	10,459	10,437	10,285	10,166	10,129	10,334	10,438	10,524	10,903	11,125
Rosebud	9,248	9,196	9,210	9,136	9,131	9,057	9,089	9,095	9,174	9,270	9,370	9,405	9,329
Sanders	10,489	10,466	10,554	10,895	11,002	11,178	11,364	11,433	11,471	11,396	11,377	11,392	11,363
Sheridan	3,952	3,825	3,697	3,683	3,573	3,507	3,469	3,385	3,387	3,374	3,439	3,576	3,668
Silver Bow	33,882	33,636	33,474	33,416	33,414	33,441	33,489	33,812	34,008	34,233	34,380	34,468	34,523
Stillwater	8,392	8,441	8,451	8,435	8,481	8,659	8,867	8,945	9,077	9,111	9,163	9,196	9,318
Sweet Grass	3,594	3,617	3,591	3,676	3,675	3,697	3,778	3,755	3,731	3,614	3,585	3,600	3,669
Teton	6,373	6,286	6,314	6,209	6,105	6,110	6,143	6,143	6,050	6,078	6,073	6,051	6,065
Toole	5,228	5,184	5,006	5,069	5,130	5,085	4,969	5,079	5,245	5,341	5,170	5,224	5,138
Treasure	836	793	784	799	766	759	748	754	720	718	719	733	700
Valley	7,587	7,512	7,427	7,422	7,367	7,272	7,332	7,415	7,349	7,367	7,476	7,504	7,630
Wheatland	2,174	2,193	2,131	2,113	2,086	2,035	2,080	2,151	2,158	2,158	2,138	2,100	2,134
Wibaux	1,032	1,028	1,020	1,019	995	984	1,014	986	1,030	1,006	986	1,056	1,121
Yellowstone	130,801	132,165	133,715	135,441	137,623	139,582	141,518	144,255	146,465	148,394	149,853	151,907	154,162

Source: National Center for Health Statistics. Bridged-race intercensal estimates of the July 1, 1990-July 1, 1999; July 1, 2000-July 1, 2009 Postcensal estimates of the resident population of the United States for July 1, 2010-July 1 2011 United States resident population by year, county, single-year of age, sex, bridged race, and Hispanic origin, prepared by the U.S. Census Bureau with support from the National Cancer Institute. Available on the Internet at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

**Table B-1**

**Frequency and Percent\* Distribution of Live Births  
by Infant's Sex, Plurality, and Parity  
Montana Residents, 2005-2013**

Item	2005		2006		2007		2008		2009		2010		2011		2012		2013	
	Number	Percent																
<b>Montana Total</b>	11,573	100.0%	12,499	100.0%	12,437	100.0%	12,595	100.0%	12,280	100.0%	12,058	100.0%	12,039	100.0%	12,052	100.0%	12,351	100.0%
<b>SEX</b>																		
<b>Male</b>	5,918	51.1%	6,444	51.5%	6,366	51.1%	6,463	51.3%	6,265	51.0%	6,124	50.7%	6,097	50.6%	6,159	51.1%	6,346	51.3%
<b>Female</b>	5,655	48.8%	6,055	48.4%	6,071	48.8%	6,132	48.6%	6,015	48.9%	5,933	49.2%	5,942	49.3%	5,893	48.8%	6,004	48.6%
<b>Unknown</b>	-	-	-	-	-	-	-	-	-	-	1	0.0%	-	-	-	-	1	0.0%
<b>PLURALITY</b>																		
<b>Single</b>	11,278	97.4%	12,092	96.7%	12,034	96.7%	12,203	96.8%	11,903	96.9%	11,691	96.9%	11,671	96.9%	11,664	96.7%	11,979	96.9%
<b>Twins</b>	286	2.4%	388	3.1%	397	3.1%	370	2.9%	369	3.0%	358	2.9%	358	2.9%	372	3.0%	359	2.9%
<b>Triplets Or More</b>	7	0.0%	16	0.1%	6	0.0%	15	0.1%	3	0.0%	7	0.0%	10	0.0%	16	0.1%	12	0.0%
<b>Not Stated</b>	2	0.0%	3	0.0%	-	-	7	0.0%	5	0.0%	2	0.0%	-	-	-	-	1	0.0%
<b>PARITY</b>																		
<b>First Birth</b>	4,524	39.0%	4,934	39.4%	4,952	39.8%	5,102	40.5%	4,906	39.9%	4,702	38.9%	4,616	38.3%	4,661	38.6%	4,647	37.6%
<b>Second Birth</b>	3,538	30.5%	3,724	29.7%	3,695	29.7%	3,858	30.6%	3,765	30.6%	3,771	31.2%	3,779	31.3%	3,666	30.4%	3,803	30.7%
<b>Third Birth</b>	1,995	17.2%	2,150	17.2%	2,115	17.0%	2,020	16.0%	2,047	16.6%	2,014	16.7%	2,004	16.6%	2,051	17.0%	2,145	17.3%
<b>Fourth Birth</b>	898	7.7%	984	7.8%	961	7.7%	892	7.0%	912	7.4%	865	7.1%	916	7.6%	959	7.9%	975	7.8%
<b>Fifth Birth</b>	349	3.0%	391	3.1%	378	3.0%	389	3.0%	339	2.7%	398	3.3%	409	3.3%	379	3.1%	430	3.4%
<b>Sixth Birth</b>	125	1.0%	164	1.3%	167	1.3%	139	1.1%	154	1.2%	140	1.1%	155	1.2%	176	1.4%	193	1.5%
<b>Seventh Birth</b>	63	0.5%	71	0.5%	79	0.6%	91	0.7%	66	0.5%	68	0.5%	72	0.5%	65	0.5%	78	0.6%
<b>Eighth Birth</b>	34	0.2%	33	0.2%	43	0.3%	29	0.2%	20	0.1%	40	0.3%	35	0.2%	43	0.3%	33	0.2%
<b>Ninth Or More</b>	33	0.2%	41	0.3%	40	0.3%	42	0.3%	38	0.3%	40	0.3%	43	0.3%	36	0.2%	42	0.3%
<b>Not Stated</b>	14	0.1%	7	0.0%	7	0.0%	33	0.2%	33	0.2%	20	0.1%	10	0.0%	16	0.1%	5	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 Occurrence, 1989-2013**

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

\*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 by Year  
Montana Residents, 1989-2013**

County	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
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 be 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\* by Year  
Montana Residents, 1989-2013**

Year	Total Number	27 or Fewer Weeks		28 - 31 Weeks		32 - 36 Weeks		37 - 39 Weeks		40 - 41 Weeks		42 or More Weeks		Not Stated	
		Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.
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 Pre-Natal Care Began\* by Year****Montana Residents, 1989-2013**

Year	Total	Not Stated	No Care	10th	9th	8th	7th	6th	5th	4th	3rd	2nd	1st
2013	12,351	135	120	30	128	279	330	451	711	1,519	4,821	3,531	296
2012	12,052	168	89	20	108	227	299	386	632	1,398	4,856	3,549	320
2011	12,039	132	108	18	98	180	254	387	733	1,395	4,866	3,545	323
2010	12,058	333	104	13	62	137	259	392	753	1,360	4,632	3,662	351
2009	12,280	1,251	86	17	90	163	262	362	655	1,333	4,417	3,322	322
2008	12,595	792	98	16	87	190	247	401	653	1,457	4,439	3,759	456
2007	12,437	285	75	-	37	96	157	262	430	882	2,945	5,768	1,500
2006	12,499	199	66	-	43	97	171	224	477	920	3,071	5,645	1,586
2005	11,573	135	72	-	32	62	134	230	433	859	2,907	5,348	1,361
2004	11,514	87	69	-	25	97	138	268	463	854	2,873	5,178	1,462
2003	11,384	54	56	-	33	91	123	221	424	811	2,866	5,269	1,436
2002	11,045	65	61	-	35	80	127	232	397	858	2,867	5,023	1,300
2001	10,947	47	71	-	24	94	144	229	460	863	2,686	5,027	1,302
2000	10,946	70	70	-	34	74	160	217	439	819	2,661	4,997	1,405
1999	10,778	40	72	-	22	89	139	229	404	778	2,605	4,876	1,524
1998	10,789	-	67	-	75	103	150	266	421	865	2,617	4,836	1,389
1997	10,838	-	92	-	95	94	180	216	425	836	2,581	4,704	1,615
1996	10,840	52	71	-	31	78	164	248	431	848	2,445	4,802	1,670
1995	11,136	35	75	-	63	104	153	269	444	949	2,567	4,736	1,741
1994	11,062	57	78	-	53	88	162	244	450	958	2,417	4,751	1,804
1993	11,362	63	68	-	31	121	202	314	472	1,000	2,677	4,718	1,696
1992	11,468	66	81	-	43	132	222	355	581	1,074	2,707	4,621	1,586
1991	11,498	87	86	-	46	143	221	363	590	1,105	2,776	4,555	1,526
1990	11,602	78	109	-	61	140	279	398	616	1,119	2,720	4,537	1,545
1989	11,667	83	103	-	50	148	267	361	625	1,090	2,848	4,626	1,466

\* 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 up to 358 Selected Underlying Causes  
Montana Residents, 2013**

Cause Of Death*	All Ages			Age In Years																			
				0 YR.		1 YR.		2-4		5-9		10-14		15-17		18-19		20-24		25-29		30-34	
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
<b>All Causes**</b>	9,452	4,863	4,589	44	21	5	1	3	3	6	2	6	2	15	9	23	6	58	32	65	21	62	36
<b>I. Certain infectious and parasitic diseases</b>	193	95	98	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	3	-
<b>Intestinal infectious diseases</b>	29	12	17	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Other intestinal infectious diseases</b>	16	7	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(7) Intestinal infections due to other specified organisms</b>	16	7	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(8) Diarrhea and gastroenteritis of infectious origin</b>	13	5	8	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Tuberculosis</b>	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(9) Respiratory tuberculosis</b>	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Zoonotic and other bacterial diseases</b>	115	50	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-
<b>(18) Septicemia</b>	109	48	61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-
<b>(19) Other zoonotic and bacterial diseases</b>	6	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Viral diseases</b>	39	26	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
<b>(32) Other and unspecified arthropod-borne viral and hemorrhagic fevers</b>	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(34) Zoster (herpes zoster)</b>	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(38) Viral hepatitis</b>	25	16	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Human immunodeficiency virus (HIV) disease</b>	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(39) Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic diseases</b>	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(40) Human immunodeficiency virus (HIV) disease resulting in malignant neoplasms</b>	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(41) Human immunodeficiency virus (HIV) disease resulting in other specified diseases</b>	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(43) Unspecified human immunodeficiency virus (HIV) disease</b>	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(44) All other and unspecified viral diseases</b>	7	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
<b>Other and unspecified infectious and parasitic diseases and their sequelae</b>	8	6	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
<b>(45) Mycoses</b>	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(55) All other and unspecified infectious and parasitic diseases and their sequelae</b>	7	5	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
<b>II. Neoplasms</b>	2,044	1,077	967	-	-	-	-	-	-	-	-	1	-	-	-	-	1	2	-	3	2	5	5
<b>Malignant neoplasms</b>	1,986	1,037	949	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	2	5	5	
<b>Malignant neoplasms of lip, oral cavity and pharynx</b>	30	23	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(57) Of tongue</b>	8	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(58) Of pharynx</b>	8	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(59) Of other and unspecified sites within the lip, oral cavity and pharynx</b>	14	12	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Malignant neoplasms of digestive organs</b>	475	276	199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1
<b>(60) Of esophagus</b>	48	37	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(61) Of stomach</b>	32	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
<b>(62) Of small intestine</b>	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Of colon, rectum and anus</b>	161	94	67	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
<b>(63) Colon</b>	116	67	49	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
<b>(64) Rectosigmoid junction and rectum</b>	41	25	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(65) Anus and anal canal</b>	4	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Of liver and intrahepatic bile ducts</b>	78	48	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-1  
Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes  
Montana Residents, 2013**

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.
<b>All Causes**</b>	64	45	89	52	139	77	214	135	306	199	411	253	429	289	497	410	530	458	676	650	1,221	1,888
<b>I. Certain infectious and parasitic diseases</b>	1	2	1	-	4	1	9	4	10	4	10	11	5	5	9	7	10	9	9	11	23	40
<b>Intestinal infectious diseases</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2	-	2	3	5	12
<b>Other intestinal infectious diseases</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	3	4	6
<b>(7) Intestinal infections due to other specified organisms</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	3	4	6
<b>(8) Diarrhea and gastroenteritis of infectious origin</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	1	-	1	6
<b>Tuberculosis</b>	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(9) Respiratory tuberculosis</b>	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Zoonotic and other bacterial diseases</b>	-	1	-	-	3	1	3	2	2	2	4	7	5	5	5	3	5	9	5	8	15	26
<b>(18) Septicemia</b>	-	1	-	-	3	1	3	2	2	2	3	7	5	5	5	3	5	9	5	7	14	23
<b>(19) Other zoonotic and bacterial diseases</b>	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1	3
<b>Viral diseases</b>	1	-	1	-	1	-	6	2	7	2	5	4	-	-	2	3	1	-	1	-	1	1
<b>(32) Other and unspecified arthropod-borne viral and hemorrhagic fevers</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
<b>(34) Zoster (herpes zoster)</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
<b>(38) Viral hepatitis</b>	-	-	1	-	1	-	4	2	4	2	4	3	-	-	2	2	-	-	-	-	-	-
<b>Human immunodeficiency virus (HIV) disease</b>	1	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(39) Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic diseases</b>	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(40) Human immunodeficiency virus (HIV) disease resulting in malignant neoplasms</b>	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(41) Human immunodeficiency virus (HIV) disease resulting in other specified diseases</b>	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(43) Unspecified human immunodeficiency virus (HIV) disease</b>	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>(44) All other and unspecified viral diseases</b>	-	-	-	-	-	-	-	-	2	-	1	1	-	-	-	1	-	-	-	-	-	1
<b>Other and unspecified infectious and parasitic diseases and their sequelae</b>	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	1	-	2	1
<b>(45) Mycoses</b>	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
<b>(55) All other and unspecified infectious and parasitic diseases and their sequelae</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	2	1	-
<b>II. Neoplasms</b>	2	5	10	8	13	22	32	43	96	62	126	115	145	108	160	143	152	133	149	146	181	174
<b>Malignant neoplasms</b>	2	5	9	8	13	22	30	42	95	61	124	115	143	106	156	140	146	130	139	143	170	169
<b>Malignant neoplasms of lip, oral cavity and pharynx</b>	-	-	-	-	1	1	1	-	4	1	6	-	3	1	5	1	1	-	-	-	2	3
<b>(57) Of tongue</b>	-	-	-	-	-	-	-	-	1	-	2	-	1	-	1	1	1	-	-	-	-	1
<b>(58) Of pharynx</b>	-	-	-	-	1	-	-	-	1	3	-	1	1	-	-	-	-	-	-	-	1	-
<b>(59) Of other and unspecified sites within the lip, oral cavity and pharynx</b>	-	-	-	-	1	-	1	-	3	-	1	-	1	-	4	-	-	-	-	-	1	2
<b>Malignant neoplasms of digestive organs</b>	-	-	2	1	3	7	15	7	31	15	45	27	39	19	42	28	37	26	27	27	33	41
<b>(60) Of esophagus</b>	-	-	-	1	1	-	2	-	2	2	10	2	5	3	3	1	5	-	4	2	5	-
<b>(61) Of stomach</b>	-	-	-	-	1	1	1	2	1	2	2	1	1	2	2	7	2	-	3	1	2	-
<b>(62) Of small intestine</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-
<b>Of colon, rectum and anus</b>	-	-	-	-	1	4	5	4	8	4	12	13	11	4	20	8	12	7	11	9	13	14
<b>(63) Colon</b>	-	-	-	-	1	1	4	4	5	3	5	9	8	4	11	6	11	3	9	8	12	11
<b>(64) Rectosigmoid junction and rectum</b>	-	-	-	-	3	1	-	3	1	5	4	3	-	9	2	1	3	2	1	1	1	2
<b>(65) Anus and anal canal</b>	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	1
<b>Of liver and intrahepatic bile ducts</b>	-	-	1	-	-	-	4	1	10	1	8	5	7	3	5	6	7	3	4	5	2	6

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-1  
Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes  
Montana Residents, 2013**

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.	
(66) Liver	50	35	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(67) Intrahepatic bile duct carcinoma	28	13	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(68) Of gallbladder and extrahepatic bile ducts	8	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(69) Of pancreas	138	72	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(70) Of other and ill-defined digestive organs	7	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of respiratory and intrathoracic organs	506	260	246	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-
(71) Of nasal cavity, middle ear and accessory sinuses	4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(72) Of larynx	9	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(73) Of trachea, bronchus and lung	490	250	240	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-
(74) Of thymus, heart, mediastinum and pleura	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(76) Malignant neoplasms of bone and articular cartilage	4	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Melanoma and other malignant neoplasms of skin	45	29	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(77) Malignant melanoma of skin	32	20	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(78) Other malignant neoplasms of skin	13	9	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of mesothelial and soft tissue	38	21	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(79) Mesothelioma	15	10	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(81) Of other mesothelial and soft tissue	23	11	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(82) Malignant neoplasm of breast	139	2	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Malignant neoplasms of female genital organs	108	-	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
(83) Of vulva and vagina	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(84) Of cervix uteri	19	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
(85) Of corpus uteri and uterus, part unspecified	36	-	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(86) Of ovary	49	-	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(87) Of other and unspecified female genital organs	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of male genital organs	115	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(89) Of prostate	114	114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(90) Of testis	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of urinary tract	110	87	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(92) Of kidney and renal pelvis	47	40	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(93) Of bladder	62	47	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(94) Of other and unspecified sites within the urinary tract	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(95) Malignant neoplasm of eye and adnexa	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of meninges, brain and other parts of central nervous system	52	26	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-
(96) Of brain	51	26	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-
(97) Of other parts of central nervous system	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(98) Malignant neoplasms of thyroid and other endocrine glands	9	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(99) Other malignant neoplasms of other and unspecified sites	160	81	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
Malignant neoplasms of lymphoid, hematopoietic and related tissue	194	110	84	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
(100) Hodgkin 's disease	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Of other lymphoid, hematopoietic and related tissue	59	33	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(101) Non-Hodgkin 's lymphoma	59	33	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(104) Multiple myeloma and malignant plasma cell neoplasms	53	31	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Leukemia	80	46	34	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-1**  
**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes**  
**Montana Residents, 2013**

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.
(66) Liver	-	-	-	-	-	-	3	-	9	1	8	3	3	1	4	2	4	3	2	4	2	1
(67) Intrahepatic bile duct carcinoma	-	-	1	-	-	-	1	1	1	-	-	2	4	2	1	4	3	-	2	1	-	5
(68) Of gallbladder and extrahepatic bile ducts	-	-	-	-	-	-	-	-	2	-	1	1	-	-	-	-	1	1	1	-	1	
(69) Of pancreas	-	-	1	-	1	2	3	1	9	3	13	4	13	8	10	11	6	12	7	7	8	18
(70) Of other and ill-defined digestive organs	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	4	-
Malignant neoplasms of respiratory and intrathoracic organs	-	-	2	3	2	1	7	6	26	13	30	24	42	35	42	52	37	42	39	38	30	32
(71) Of nasal cavity, middle ear and accessory sinuses	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	1	-	-	-	-	-
(72) Of larynx	-	-	-	-	-	-	-	-	1	1	-	1	1	1	1	-	1	1	-	1	-	1
(73) Of trachea, bronchus and lung	-	-	2	3	2	1	7	6	24	12	29	23	40	34	41	52	35	39	38	38	29	32
(74) Of thymus, heart, mediastinum and pleura	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	-	-
(76) Malignant neoplasms of bone and articular cartilage	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	1	-	-	-	-
Melanoma and other malignant neoplasms of skin	-	-	-	-	-	-	-	-	6	-	4	1	4	1	4	2	3	1	3	6	5	5
(77) Malignant melanoma of skin	-	-	-	-	-	-	-	-	5	-	3	1	2	1	2	2	3	1	2	4	3	3
(78) Other malignant neoplasms of skin	-	-	-	-	-	-	-	-	1	-	1	-	2	-	2	-	-	-	1	2	2	2
Malignant neoplasms of mesothelial and soft tissue	1	1	-	-	1	-	-	-	-	-	5	2	2	1	2	1	5	5	3	3	1	4
(79) Mesothelioma	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2	-	3	3	2	1	1	-
(81) Of other mesothelial and soft tissue	1	1	-	-	1	-	-	-	-	-	4	2	1	-	-	1	2	2	1	2	-	4
(82) Malignant neoplasm of breast	-	2	-	1	-	5	-	9	-	12	1	19	-	16	-	18	-	9	-	18	1	27
Malignant neoplasms of female genital organs	-	1	-	2	-	3	-	10	-	9	-	21	-	10	-	12	-	10	-	16	-	11
(83) Of vulva and vagina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-
(84) Of cervix uteri	-	-	-	1	-	3	-	2	-	1	-	2	-	1	-	3	-	1	-	1	-	1
(85) Of corpus uteri and uterus, part unspecified	-	-	-	1	-	-	-	2	-	1	-	8	-	4	-	7	-	4	-	6	-	3
(86) Of ovary	-	1	-	-	-	-	-	4	-	7	-	11	-	5	-	2	-	4	-	8	-	7
(87) Of other and unspecified female genital organs	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of male genital organs	-	-	-	-	-	1	-	3	-	9	-	5	-	13	-	14	-	24	-	46	-	-
(89) Of prostate	-	-	-	-	-	1	-	2	-	9	-	5	-	13	-	14	-	24	-	46	-	-
(90) Of testis	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of urinary tract	-	1	-	-	3	-	1	2	7	-	10	2	12	3	13	3	11	3	12	4	18	5
(92) Of kidney and renal pelvis	-	-	-	-	1	-	1	-	4	-	6	-	7	-	9	2	4	2	2	2	6	1
(93) Of bladder	-	1	-	-	2	-	2	3	-	4	2	5	3	4	1	7	1	10	2	12	3	-
(94) Of other and unspecified sites within the urinary tract	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(95) Malignant neoplasm of eye and adnexa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Malignant neoplasms of meninges, brain and other parts of central nervous system	-	-	1	-	1	1	1	1	3	3	5	5	5	3	4	3	2	3	-	2	3	3
(96) Of brain	-	-	1	-	1	1	1	1	3	3	5	5	5	3	4	2	2	3	-	2	3	3
(97) Of other parts of central nervous system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
(98) Malignant neoplasms of thyroid and other endocrine glands	-	-	1	-	-	-	-	1	1	-	-	1	-	-	1	1	1	1	-	-	-	1
(99) Other malignant neoplasms of other and unspecified sites	1	-	2	1	1	2	3	5	5	3	4	8	15	13	16	9	8	11	10	9	14	18
Malignant neoplasms of lymphoid, hematopoietic and related tissue	-	-	1	-	1	2	1	1	9	4	5	6	15	4	14	10	27	17	20	20	17	19
(100) Hodgkin 's disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
Of other lymphoid, hematopoietic and related tissue	-	-	-	-	1	1	1	-	1	1	1	1	-	2	3	8	11	4	8	5	7	4
(101) Non-Hodgkin 's lymphoma	-	-	-	-	1	1	1	-	1	1	1	1	-	2	3	8	11	4	8	5	7	4
(104) Multiple myeloma and malignant plasma cell neoplasms	-	-	-	-	-	-	-	3	2	1	2	9	-	5	2	8	4	3	4	2	8	7
Leukemia	-	-	1	-	1	-	1	5	1	3	3	6	2	6	-	8	7	9	11	8	7	7

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-1  
Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes  
Montana Residents, 2013**

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.	
(105) Lymphoid leukemia	27	17	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(106) Myeloid leukemia	31	17	14	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
(107) Monocytic leukemia	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(108) Other and unspecified leukemia	21	12	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benign neoplasms	10	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(111) Of female genital organs	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(112) Of eye, brain and other parts of central nervous system	4	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(113) Of other and unspecified sites	5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(114) Neoplasms of uncertain or unknown behavior of specified sites	46	33	13	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
(115) Neoplasm of uncertain or unknown behavior of unspecified sites	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
III. Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	36	18	18	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anemias	20	7	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(116) Nutritional anemias	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(118) Aplastic anemias	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(119) Acute posthemorrhagic and other anemias	16	5	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(120) Coagulation defects, purpura and other hemorrhagic conditions	7	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(121) Other diseases of blood and blood-forming organs	4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(122) Certain disorders involving the immune mechanism	5	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IV. Endocrine, nutritional and metabolic diseases	369	202	167	-	1	-	-	-	-	-	-	-	-	-	-	-	3	1	2	-	2	2
Endocrine diseases	257	143	114	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	2	-	-	1
(123) Disorders of thyroid gland	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(124) Diabetes mellitus	252	142	110	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	1	-	-	1
(125) Disorders of pituitary gland	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(126) Disorders of adrenal glands	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutritional diseases	36	16	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Malnutrition	17	5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(130) Other and unspecified malnutrition	17	5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(131) Other nutritional deficiencies	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(132) Obesity and other hyperalimentation	18	11	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Metabolic disorders	76	43	33	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(134) Volume depletion, disorders of fluid, electrolyte and acid-base balance	19	7	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(135) Other metabolic disorders	57	36	21	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
V. Mental and behavioral disorders	686	268	418	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	3	-
(136) Organic dementia	581	197	384	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(137) Other and unspecified organic mental disorders	8	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mental and behavioral disorders due to psychoactive substance use	86	63	23	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	-
(138) Mental and behavioral disorders due to use of alcohol	67	52	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
(139) Mental and behavioral disorders due to other psychoactive substance use	19	11	8	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
(140) Schizophrenia, schizotypal and delusional disorders	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(141) Mood (affective) disorders	5	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-1**  
**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes**  
**Montana Residents, 2013**

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.
(105) Lymphoid leukemia	-	-	1	-	-	-	-	-	2	-	-	1	1	-	3	-	2	1	3	4	5	4
(106) Myeloid leukemia	-	-	-	-	-	1	-	-	3	1	2	2	5	-	-	-	2	4	3	4	2	1
(107) Monocytic leukemia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(108) Other and unspecified leukemia	-	-	-	-	-	-	-	1	-	-	1	-	-	2	3	-	4	2	3	2	1	2
Benign neoplasms	-	-	1	-	-	-	1	1	-	1	-	-	-	-	-	1	2	1	1	-	-	1
(111) Of female genital organs	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(112) Of eye, brain and other parts of central nervous system	-	-	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1
(113) Of other and unspecified sites	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	1	1	-	-	-	-
(114) Neoplasms of uncertain or unknown behavior of specified sites	-	-	-	-	-	-	-	-	1	-	2	-	2	2	4	2	4	2	9	3	10	4
(115) Neoplasm of uncertain or unknown behavior of unspecified sites	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
III. Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	1	-	-	-	-	1	-	-	1	-	1	1	1	1	2	2	1	2	4	2	6	9
Anemias	1	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	2	2	1	3	8	-
(116) Nutritional anemias	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(118) Aplastic anemias	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	1
(119) Acute posthemorrhagic and other anemias	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	2	1	2	7	-
(120) Coagulation defects, purpura and other hemorrhagic conditions	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	1	1	-	-	-	3	-
(121) Other diseases of blood and blood-forming organs	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	2	-	-	-
(122) Certain disorders involving the immune mechanism	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	1
IV. Endocrine, nutritional and metabolic diseases	7	-	5	3	5	1	9	3	17	13	19	13	19	18	23	25	19	17	24	25	48	45
Endocrine diseases	5	-	3	3	4	1	6	2	10	8	10	11	13	13	19	14	16	12	16	18	36	30
(123) Disorders of thyroid gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
(124) Diabetes mellitus	5	-	3	2	4	1	6	2	10	8	10	10	13	13	19	13	16	12	16	18	36	29
(125) Disorders of pituitary gland	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(126) Disorders of adrenal glands	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Nutritional diseases	1	-	1	-	-	-	2	1	4	3	2	-	1	2	-	3	-	2	2	2	2	6
Malnutrition	-	-	-	-	-	-	-	-	1	1	1	-	-	1	-	1	-	2	2	1	1	6
(130) Other and unspecified malnutrition	-	-	-	-	-	-	-	-	1	1	1	-	-	1	-	1	-	2	2	1	1	6
(131) Other nutritional deficiencies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
(132) Obesity and other hyperalimentation	1	-	1	-	-	-	2	1	3	2	1	-	1	1	-	1	-	-	-	1	1	-
Metabolic disorders	1	-	1	-	1	-	1	-	3	2	7	2	5	3	4	8	3	3	6	5	10	9
(134) Volume depletion, disorders of fluid, electrolyte and acid-base balance	-	-	-	-	-	-	-	-	1	-	1	-	-	1	1	2	-	2	1	2	3	5
(135) Other metabolic disorders	1	-	1	-	1	-	1	-	2	2	6	2	5	2	3	6	3	1	5	3	7	4
V. Mental and behavioral disorders	2	1	5	2	7	2	12	2	13	5	10	6	9	5	10	12	17	31	37	69	140	283
(136) Organic dementia	-	-	-	-	-	-	-	-	-	-	1	2	4	3	8	8	11	27	36	66	135	278
(137) Other and unspecified organic mental disorders	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	2	-	-	1	2	1	-
Mental and behavioral disorders due to psychoactive substance use	2	1	5	2	7	2	12	2	13	3	9	4	3	2	2	2	4	2	1	2	1	1
(138) Mental and behavioral disorders due to use of alcohol	-	1	4	2	5	-	11	1	12	2	9	3	2	1	2	2	4	1	1	1	-	1
(139) Mental and behavioral disorders due to other psychoactive substance use	2	-	1	-	2	2	1	1	1	1	-	1	1	1	-	-	-	1	-	1	1	-
(140) Schizophrenia, schizotypal and delusional disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
(141) Mood (affective) disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2

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**Table D-1  
Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes  
Montana Residents, 2013**

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.	
(142) Neurotic, stress-related and somatoform disorders	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(143) Mental retardation	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>VI. Diseases of the nervous system</b>	<b>545</b>	<b>237</b>	<b>308</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>
(145) Meningitis	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(146) Other inflammatory diseases of central nervous system	5	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(147) Parkinson 's disease	100	63	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(148) Alzheimer 's disease	265	91	174	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(149) Multiple sclerosis	30	10	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(150) Epilepsy	9	3	6	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-
(151) Transient cerebral ischemic attacks and related syndromes	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(152) Infantile cerebral palsy	6	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
(153) All other diseases of nervous system	126	64	62	-	1	-	-	-	1	-	-	-	2	-	-	-	-	-	-	1	1	-
<b>IX. Diseases of the circulatory system</b>	<b>2,646</b>	<b>1,410</b>	<b>1,236</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>5</b>	<b>3</b>
Acute rheumatic fever and chronic rheumatic heart diseases	13	4	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Chronic rheumatic heart diseases	13	4	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(157) Rheumatic mitral valve diseases	7	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(158) Rheumatic aortic valve diseases	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(159) Disorders of both mitral and aortic valves	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(160) Other chronic rheumatic heart diseases	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hypertensive diseases	159	79	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(161) Essential (primary) hypertension	44	18	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(162) Hypertensive heart disease	80	42	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(163) Hypertensive renal disease and secondary hypertension	26	16	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(164) Hypertensive heart and renal disease	9	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ischemic heart diseases	1,109	708	401	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1
(165) Acute myocardial infarction	208	125	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(166) Other acute ischemic heart diseases	8	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other forms of chronic ischemic heart disease	893	579	314	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1
(167) Atherosclerotic cardiovascular disease, so described	450	316	134	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
(168) All other forms of chronic ischemic heart disease	443	263	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Other heart diseases	765	342	423	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1
Pulmonary heart disease and diseases of pulmonary circulation	64	27	37	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(169) Pulmonary embolism	30	18	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(170) Other pulmonary heart disease and diseases of pulmonary circulation	34	9	25	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other non-pulmonary forms of heart disease	701	315	386	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
(171) Acute and subacute endocarditis	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(172) Diseases of pericardium and acute myocarditis	4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other diseases of endocardium	116	47	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(173) Nonrheumatic mitral valve disorders	11	3	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(174) Nonrheumatic aortic valve disorders	74	32	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(175) All other diseases of endocardium	31	12	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(176) Cardiomyopathy	53	34	19	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(177) Conduction disorders and cardiac dysrhythmias	161	72	89	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Heart failure	311	131	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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**Table D-1  
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Montana Residents, 2013**

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.
(142) Neurotic, stress-related and somatoform disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(143) Mental retardation	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-
<b>VI. Diseases of the nervous system</b>	1	2	3	1	4	6	2	9	7	10	7	6	14	11	26	21	40	31	48	48	79	157
(145) Meningitis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(146) Other inflammatory diseases of central nervous system	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	1	1
(147) Parkinson 's disease	-	-	-	-	-	-	-	-	-	-	-	-	2	-	8	2	14	8	20	9	19	18
(148) Alzheimer 's disease	-	-	-	-	-	-	-	-	-	-	1	3	1	4	8	12	14	23	26	49	124	
(149) Multiple sclerosis	-	-	-	-	-	-	1	4	2	3	2	-	4	1	3	-	1	1	4	1	3	
(150) Epilepsy	-	-	-	-	1	1	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(151) Transient cerebral ischemic attacks and related syndromes	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1
(152) Infantile cerebral palsy	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(153) All other diseases of nervous system	1	1	3	-	4	5	1	4	3	7	4	3	8	5	12	8	13	7	3	9	9	10
<b>IX. Diseases of the circulatory system</b>	5	-	15	5	37	7	56	20	81	35	124	42	134	60	151	89	167	116	215	167	412	692
Acute rheumatic fever and chronic rheumatic heart diseases	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	2	-	1	-	2	2	2
Chronic rheumatic heart diseases	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	2	-	1	-	2	2	2
(157) Rheumatic mitral valve diseases	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	1	1	2
(158) Rheumatic aortic valve diseases	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
(159) Disorders of both mitral and aortic valves	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(160) Other chronic rheumatic heart diseases	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	-	1	-	-
Hypertensive diseases	-	-	-	1	8	2	4	1	9	2	8	2	8	2	5	5	5	10	8	2	24	53
(161) Essential (primary) hypertension	-	-	-	1	1	-	-	-	-	-	3	-	1	-	2	2	1	5	2	-	8	18
(162) Hypertensive heart disease	-	-	-	-	6	2	3	-	7	2	5	2	7	2	3	3	3	4	2	1	6	22
(163) Hypertensive renal disease and secondary hypertension	-	-	-	-	1	-	1	1	2	-	-	-	-	-	-	-	1	1	4	-	7	8
(164) Hypertensive heart and renal disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	5
Ischemic heart diseases	3	-	11	2	15	3	35	8	55	22	85	24	85	34	95	42	74	31	93	46	155	188
(165) Acute myocardial infarction	1	-	3	-	7	1	6	1	8	7	20	3	9	7	18	10	16	5	15	13	22	36
(166) Other acute ischemic heart diseases	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	-	1	1	1	1	1
Other forms of chronic ischemic heart disease	2	-	8	2	8	2	29	7	46	15	64	21	76	27	77	31	58	25	77	32	132	151
(167) Atherosclerotic cardiovascular disease, so described	-	-	5	1	6	1	24	4	33	7	47	12	53	17	39	17	28	13	35	16	45	45
(168) All other forms of chronic ischemic heart disease	2	-	3	1	2	1	5	3	13	8	17	9	23	10	38	14	30	12	42	16	87	106
Other heart diseases	-	-	3	1	5	1	10	5	6	6	17	5	24	15	26	19	47	39	61	61	140	270
Pulmonary heart disease and diseases of pulmonary circulation	-	-	1	-	3	-	1	1	2	1	3	-	2	2	4	5	2	10	4	5	4	12
(169) Pulmonary embolism	-	-	1	-	3	-	-	1	2	-	2	-	1	-	4	2	1	1	2	2	2	5
(170) Other pulmonary heart disease and diseases of pulmonary circulation	-	-	-	-	-	-	1	-	-	1	1	-	1	2	-	3	1	9	2	3	2	7
Other non-pulmonary forms of heart disease	-	-	2	1	2	1	9	4	4	5	14	5	22	13	22	14	45	29	57	56	136	258
(171) Acute and subacute endocarditis	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
(172) Diseases of pericardium and acute myocarditis	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-
Other diseases of endocardium	-	-	-	-	-	-	-	1	-	-	-	2	6	1	1	2	8	7	11	10	21	46
(173) Nonrheumatic mitral valve disorders	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	2	6
(174) Nonrheumatic aortic valve disorders	-	-	-	-	-	-	-	-	-	-	-	1	4	-	-	1	6	4	8	5	14	31
(175) All other diseases of endocardium	-	-	-	-	-	-	-	-	-	-	-	1	2	1	1	1	2	3	2	4	5	9
(176) Cardiomyopathy	-	-	-	1	-	-	1	1	2	1	1	1	3	1	5	-	8	3	7	-	6	11
(177) Conduction disorders and cardiac dysrhythmias	-	-	2	-	-	-	3	1	1	1	2	-	4	3	7	4	8	9	7	13	37	58
Heart failure	-	-	-	-	-	1	4	-	-	3	7	2	6	4	7	4	17	9	28	31	62	126

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Montana Residents, 2013**

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.	
(178) Congestive heart failure	267	112	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(179) Other and unspecified heart failure	44	19	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(180) Myocarditis, unspecified and myocardial degeneration	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(181) All other and ill-defined forms of heart disease	53	28	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cerebrovascular diseases	478	203	275	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1	1
(182) Subarachnoid hemorrhage	12	5	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(183) Intracerebral and other intracranial hemorrhage	101	52	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(184) Cerebral infarction	20	9	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(185) Stroke, not specified as hemorrhage or infarction	249	91	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(186) Other cerebrovascular diseases and their sequelae	96	46	50	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
Diseases of arteries, arterioles and capillaries	102	61	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(187) Atherosclerosis	19	16	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(188) Aortic aneurysm and dissection	41	23	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(189) Other diseases of arteries, arterioles and capillaries	42	22	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other disorders of circulatory system	20	13	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
(190) Phlebitis, thrombophlebitis, venous embolism and thrombosis	14	11	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(191) All other and unspecified disorders of circulatory system	6	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
X. Diseases of the respiratory system	1,055	516	539	2	2	1	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-
Acute upper respiratory infections	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(194) Other and unspecified acute upper respiratory infections	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Other diseases of the respiratory system	1,052	514	538	2	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-
(195) Influenza	34	14	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pneumonia	172	89	83	2	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
(196) Viral pneumonia, not elsewhere classified	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(197) Bacterial pneumonia	6	4	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(198) Pneumonia due to other or unspecified organisms	165	85	80	2	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Other acute lower respiratory infections	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(199) Acute bronchitis and bronchiolitis	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(200) Other and unspecified acute lower respiratory infection	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(201) Other diseases of upper respiratory tract	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chronic lower respiratory diseases	642	292	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Bronchitis, chronic and unspecified, emphysema and asthma	638	292	346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(202) Bronchitis, not specified as acute or chronic	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(203) Chronic bronchitis	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(204) Emphysema	32	8	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(205) Other chronic obstructive pulmonary disease	588	280	308	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(206) Asthma	16	3	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(207) Bronchiectasis	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lung diseases due to external agents	79	50	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(208) Pneumoconioses and chemical effects	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pneumonitis due to solids and liquids	71	42	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(209) Pneumonitis due to food and vomit	71	42	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(212) Suppurative and necrotic conditions of lower respiratory tract	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

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**Table D-1**  
**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes**  
**Montana Residents, 2013**

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.
(178) Congestive heart failure	-	-	-	-	-	-	3	-	-	3	7	2	4	3	7	3	17	7	24	27	50	110
(179) Other and unspecified heart failure	-	-	-	-	-	1	1	-	-	-	-	-	2	1	-	1	-	2	4	4	12	16
(180) Myocarditis, unspecified and myocardial degeneration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(181) All other and ill-defined forms of heart disease	-	-	-	-	1	-	1	-	1	-	4	-	3	3	2	4	4	-	4	1	8	17
<b>Cerebrovascular diseases</b>	1	-	1	-	5	1	5	4	4	4	10	9	14	7	18	19	26	28	41	46	74	156
(182) Subarachnoid hemorrhage	-	-	-	-	1	-	-	1	-	1	-	1	2	-	1	1	-	-	-	3	1	-
(183) Intracerebral and other intracranial hemorrhage	-	-	-	-	2	-	2	1	2	2	3	2	5	1	6	7	4	4	11	9	16	23
(184) Cerebral infarction	-	-	-	-	-	-	1	1	-	-	1	-	1	-	1	-	2	3	1	1	1	6
(185) Stroke, not specified as hemorrhage or infarction	1	-	-	-	1	1	-	1	-	-	3	3	3	6	7	6	17	18	21	24	38	98
(186) Other cerebrovascular diseases and their sequelae	-	-	1	-	1	-	2	-	2	1	3	3	3	-	3	5	3	3	8	9	18	29
<b>Diseases of arteries, arterioles and capillaries</b>	-	-	-	1	1	-	-	1	6	-	3	1	2	2	7	2	14	5	11	7	16	22
(187) Atherosclerosis	-	-	-	-	1	-	-	-	-	-	1	1	1	-	3	-	4	1	3	-	3	1
(188) Aortic aneurysm and dissection	-	-	-	1	-	-	-	-	3	-	2	-	-	-	3	1	5	3	1	5	8	8
(189) Other diseases of arteries, arterioles and capillaries	-	-	-	-	-	-	-	1	3	-	-	-	1	2	1	1	5	1	7	2	5	13
<b>Other disorders of circulatory system</b>	1	-	-	-	3	-	2	1	1	-	1	-	-	-	-	-	1	2	1	3	1	1
(190) Phlebitis, thrombophlebitis, venous embolism and thrombosis	1	-	-	-	3	-	2	1	1	-	1	-	-	-	-	-	1	-	-	2	1	-
(191) All other and unspecified disorders of circulatory system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	-	1
<b>X. Diseases of the respiratory system</b>	-	3	1	2	5	2	4	10	16	15	35	19	53	46	71	70	70	66	95	105	160	199
<b>Acute upper respiratory infections</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
(194) Other and unspecified acute upper respiratory infections	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
<b>Other diseases of the respiratory system</b>	-	3	1	2	5	2	4	10	16	15	35	19	53	46	71	70	70	66	95	105	159	198
(195) Influenza	-	-	-	-	-	-	-	1	-	-	2	1	-	1	1	-	2	4	3	2	6	11
<b>Pneumonia</b>	-	2	-	-	1	1	1	1	4	2	5	1	8	4	6	5	7	6	14	13	39	46
(196) Viral pneumonia, not elsewhere classified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(197) Bacterial pneumonia	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	-	-	-	-	-	-	1
(198) Pneumonia due to other or unspecified organisms	-	2	-	-	1	1	1	1	4	2	4	1	7	4	4	5	7	6	14	13	39	45
<b>Other acute lower respiratory infections</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
(199) Acute bronchitis and bronchiolitis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(200) Other and unspecified acute lower respiratory infection	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(201) Other diseases of upper respiratory tract	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-
<b>Chronic lower respiratory diseases</b>	-	1	-	2	3	1	2	5	9	9	24	14	30	37	48	58	50	52	53	71	72	100
<b>Bronchitis, chronic and unspecified, emphysema and asthma</b>	-	1	-	2	3	1	2	5	9	9	24	14	30	37	48	57	50	51	53	70	72	99
(202) Bronchitis, not specified as acute or chronic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
(203) Chronic bronchitis	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
(204) Emphysema	-	-	-	-	-	-	1	-	1	2	3	1	2	-	6	2	3	2	5	1	3	-
(205) Other chronic obstructive pulmonary disease	-	-	-	-	3	-	2	4	9	6	22	10	29	35	47	51	47	47	51	64	70	91
(206) Asthma	-	1	-	2	-	1	-	-	-	1	-	1	-	-	-	1	1	-	1	1	5	-
(207) Bronchiectasis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-
<b>Lung diseases due to external agents</b>	-	-	1	-	-	-	1	3	3	-	1	3	2	1	6	1	4	-	12	5	20	16
(208) Pneumoconioses and chemical effects	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	1	-	4	-
<b>Pneumonitis due to solids and liquids</b>	-	-	1	-	-	-	1	3	3	-	1	3	1	1	6	1	2	-	11	5	16	16
(209) Pneumonitis due to food and vomit	-	-	1	-	-	-	1	3	3	-	1	3	1	1	6	1	2	-	11	5	16	16
(212) Suppurative and necrotic conditions of lower respiratory tract	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-

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Montana Residents, 2013**

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.	
(213) Pleural effusion and plaque	6	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(214) All other diseases of respiratory system	114	64	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XI. Diseases of the digestive system	419	210	209	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	1	-	3	1
Diseases of other parts of digestive system	419	210	209	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	1	-	3	1
(216) Diseases of esophagus	12	3	9	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Peptic ulcer	14	9	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(217) Gastric ulcer	4	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(218) Duodenal ulcer	7	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(219) Peptic ulcer, site unspecified	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(221) Gastritis and duodenitis	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(222) Dyspepsia and other diseases of stomach and duodenum	4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(223) Diseases of appendix	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(224) Hernia	7	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(225) Crohn 's disease and ulcerative colitis	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(226) Vascular disorders and obstruction of intestine without hernia	62	25	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(227) Diverticular disease of intestine	10	3	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(228) Other diseases of intestines and peritoneum	20	6	14	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
(229) Diseases of peritoneum	8	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diseases of liver	205	115	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1
(230) Alcoholic liver disease	116	71	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
(232) Fibrosis and cirrhosis of liver	34	14	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(233) Other diseases of liver	55	30	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(234) Cholelithiasis and other disorders of gallbladder	9	7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disorders of biliary tract and pancreas	23	13	10	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
(235) Pancreatitis	13	7	6	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
(236) Other disorders of biliary tract and pancreas	10	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(237) All other diseases of digestive system	41	17	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XII. Diseases of the skin and subcutaneous tissue	15	9	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(238) Infections of skin and subcutaneous tissue	8	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(239) Other and unspecified diseases of skin and subcutaneous tissue	7	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XIII. Diseases of the musculoskeletal system and connective tissue	77	30	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(240) Rheumatoid arthritis and related inflammatory polyarthropathies	19	7	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(241) Systemic lupus erythematosus	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(242) Other arthropathies and related disorders	20	6	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(243) Dorsopathies	6	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(244) Soft tissue disorders	5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue	23	11	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(245) Osteoporosis	11	2	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(246) Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue	12	9	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XIV. Diseases of the genitourinary system	190	84	106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-

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	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
(213) Pleural effusion and plaque	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1
(214) All other diseases of respiratory system	-	-	-	-	-	-	-	-	-	4	3	-	12	3	10	6	7	4	13	11	19	22
<b>XI. Diseases of the digestive system</b>	4	5	8	8	12	11	23	16	20	17	32	14	16	14	13	12	15	25	19	30	41	56
Diseases of other parts of digestive system	4	5	8	8	12	11	23	16	20	17	32	14	16	14	13	12	15	25	19	30	41	56
(216) Diseases of esophagus	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	1	3	1	3
Peptic ulcer	-	-	-	-	-	-	-	2	-	-	1	-	-	1	1	-	-	-	1	1	6	1
(217) Gastric ulcer	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-
(218) Duodenal ulcer	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	4	-
(219) Peptic ulcer, site unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1
(221) Gastritis and duodenitis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(222) Dyspepsia and other diseases of stomach and duodenum	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	1	-	-	-	-	1
(223) Diseases of appendix	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
(224) Hernia	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	-	-	1	3
(225) Crohn 's disease and ulcerative colitis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
(226) Vascular disorders and obstruction of intestine without hernia	-	-	-	-	-	-	-	-	2	-	4	2	2	3	-	2	3	4	3	8	11	18
(227) Diverticular disease of intestine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	1	-	-	-	4
(228) Other diseases of intestines and peritoneum	-	-	-	-	-	-	-	-	-	-	1	2	-	-	1	2	-	1	-	5	3	4
(229) Diseases of peritoneum	-	-	1	-	-	-	-	-	1	-	1	1	-	1	-	-	-	1	1	-	-	1
Diseases of liver	3	5	6	7	12	10	21	13	14	15	21	8	12	5	8	5	6	11	5	8	4	2
(230) Alcoholic liver disease	2	4	4	6	10	7	15	9	11	8	14	6	4	3	5	2	3	-	-	-	-	-
(232) Fibrosis and cirrhosis of liver	1	-	1	-	1	2	2	1	3	3	1	4	1	1	2	-	4	1	6	-	-	-
(233) Other diseases of liver	-	1	1	1	2	2	4	2	2	4	4	1	4	1	2	1	3	7	4	2	4	2
(234) Cholelithiasis and other disorders of gallbladder	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	1	5	-
Disorders of biliary tract and pancreas	1	-	1	1	-	1	1	1	1	-	2	-	-	1	1	1	-	1	3	2	1	2
(235) Pancreatitis	1	-	1	-	-	1	-	1	-	-	1	-	-	-	1	1	-	-	1	1	-	2
(236) Other disorders of biliary tract and pancreas	-	-	-	1	-	-	1	-	1	-	1	-	1	-	1	-	-	1	2	1	1	-
(237) All other diseases of digestive system	-	-	-	-	-	-	1	-	-	2	2	-	2	1	1	1	1	2	3	2	7	16
<b>XII. Diseases of the skin and subcutaneous tissue</b>	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	3	2	2	1	3	2
(238) Infections of skin and subcutaneous tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	1	2	2
(239) Other and unspecified diseases of skin and subcutaneous tissue	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	1	2	1	-	1	-
<b>XIII. Diseases of the musculoskeletal system and connective tissue</b>	-	-	-	-	-	2	-	-	-	2	2	4	1	4	2	6	4	3	10	7	11	18
(240) Rheumatoid arthritis and related inflammatory polyarthropathies	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	2	1	-	3	4	2	3
(241) Systemic lupus erythematosus	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	1
(242) Other arthropathies and related disorders	-	-	-	-	-	1	-	-	-	-	2	-	-	1	4	-	3	4	1	1	2	-
(243) Dorsopathies	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	1	1	-	1
(244) Soft tissue disorders	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	2	-	-	-	1	-
Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	1	7	11
(245) Osteoporosis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	9
(246) Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	1	5	2
<b>XIV. Diseases of the genitourinary system</b>	1	-	1	1	-	2	2	2	3	6	3	4	8	7	6	6	6	11	16	15	38	51

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-1  
Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes  
Montana Residents, 2013**

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.		
Diseases of urinary system	187	81	106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Glomerular and renal tubulo-interstitial diseases	6	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glomerular diseases	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(248) Nephrotic syndrome	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(249) Other and unspecified glomerular diseases	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(250) Renal tubulo-interstitial diseases	4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(251) Renal failure	128	58	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(252) Urolithiasis	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(253) Other and unspecified disorders of kidney	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(254) Urinary tract infection, site not specified	40	12	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(255) Other diseases of urinary system	9	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diseases of male genital organs	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(256) Hyperplasia of prostate	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(257) Other diseases of male genital organs	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XV. Pregnancy, childbirth and the puerperium	6	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2
Other direct obstetric deaths	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
(266) Eclampsia and pre-eclampsia	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(270) All other direct obstetric causes	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
(271) Obstetric death of unspecified cause	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(272) Other deaths related to pregnancy, childbirth and the puerperium	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVI. Certain conditions originating in the perinatal period	23	20	3	20	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(274) Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	8	6	2	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(275) Disorders related to short gestation and low birth weight, not elsewhere classified	5	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(278) Respiratory distress of newborn	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(279) Other respiratory conditions originating in the perinatal period	5	4	1	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(280) Infections specific to the perinatal period	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(281) Other and unspecified conditions originating in the perinatal period	3	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVII. Congenital malformations, deformations and chromosomal abnormalities	33	16	17	7	6	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
(282) Anencephaly and similar malformations	2	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(283) Spina bifida	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
(284) All other congenital malformations of nervous system	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(285) Congenital malformations of heart	6	2	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(286) Other congenital malformations of circulatory system	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(287) Congenital malformations of respiratory system	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(288) Other congenital malformations and deformations	11	6	5	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(289) Down 's syndrome	8	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(290) All other chromosomal abnormalities, not elsewhere classified	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVIII. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	196	84	112	9	6	-	1	1	-	2	1	-	-	-	-	1	1	1	2	3	-	4	-
(291) Senility	45	17	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-1  
Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes  
Montana Residents, 2013**

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.
Diseases of urinary system	1	-	-	1	-	2	2	2	3	6	3	4	7	7	6	6	6	11	16	15	37	51
Glomerular and renal tubulo-interstitial diseases	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	2	1
Glomerular diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
(248) Nephrotic syndrome	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(249) Other and unspecified glomerular diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
(250) Renal tubulo-interstitial diseases	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2	-
(251) Renal failure	1	-	-	1	-	2	1	2	2	4	2	2	6	4	4	3	6	7	11	12	25	32
(252) Urolithiasis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
(253) Other and unspecified disorders of kidney	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
(254) Urinary tract infection, site not specified	-	-	-	-	-	-	1	-	-	1	-	2	1	3	-	3	-	3	3	3	7	13
(255) Other diseases of urinary system	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	2	-	2	3
Diseases of male genital organs	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-
(256) Hyperplasia of prostate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(257) Other diseases of male genital organs	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
XV. Pregnancy, childbirth and the puerperium	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other direct obstetric deaths	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(266) Eclampsia and pre-eclampsia	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(270) All other direct obstetric causes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(271) Obstetric death of unspecified cause	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(272) Other deaths related to pregnancy, childbirth and the puerperium	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVI. Certain conditions originating in the perinatal period	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(274) Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(275) Disorders related to short gestation and low birth weight, not elsewhere classified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(278) Respiratory distress of newborn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(279) Other respiratory conditions originating in the perinatal period	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(280) Infections specific to the perinatal period	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(281) Other and unspecified conditions originating in the perinatal period	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVII. Congenital malformations, deformations and chromosomal abnormalities	2	-	-	-	-	-	1	-	2	3	1	2	-	-	-	3	-	-	-	-	1	2
(282) Anencephaly and similar malformations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(283) Spina bifida	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(284) All other congenital malformations of nervous system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(285) Congenital malformations of heart	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	-	-	-	-	-	1
(286) Other congenital malformations of circulatory system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(287) Congenital malformations of respiratory system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(288) Other congenital malformations and deformations	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1
(289) Down 's syndrome	-	-	-	-	-	-	1	-	1	3	1	2	-	-	-	-	-	-	-	-	-	-
(290) All other chromosomal abnormalities, not elsewhere classified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVIII. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1	2	1	-	4	1	4	2	4	-	2	2	2	2	6	1	1	6	12	9	26	76
(291) Senility	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	14	28

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-1  
Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes  
Montana Residents, 2013**

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.		
Ill-defined and unknown causes of mortality	77	44	33	9	6	-	1	1	-	2	1	-	-	-	-	-	1	1	2	3	-	4	-
(292) Sudden infant death syndrome	11	8	3	8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(293) Other ill-defined and unknown causes of mortality	66	36	30	1	3	-	1	1	-	2	1	-	-	-	-	-	1	1	2	3	-	4	-
(294) All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	74	23	51	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
XX. External causes of mortality	919	587	332	1	1	3	-	2	2	3	1	3	2	11	8	21	4	45	25	52	16	35	20
Accidents (unintentional injuries)	595	351	244	-	-	2	-	2	2	3	1	2	-	5	4	13	1	25	18	26	9	20	11
Transport accidents	233	154	79	-	-	-	-	-	1	2	1	1	-	4	4	11	1	16	17	17	6	13	5
Motor vehicle accidents	219	144	75	-	-	-	-	-	1	2	1	1	-	4	4	11	1	16	15	15	6	12	4
(296) Pedestrian involved in collision with motor vehicle	15	12	3	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	1	-	1	-	-
(297) Pedalcyclist involved in collision with motor vehicle	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(298) Motorcyclist involved in any accident except collision with railway train	31	27	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	-	4	-
Motor vehicle accident involving collision with railway train	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(300) Other motor vehicle accident involving collision with railway train	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(301) Occupant of motor vehicle involved in collision with other (non-motorized) road vehicle, streetcar, animal or pedestrian	27	17	10	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	3	4	1	1	2
(302) Occupant of car, pickup truck or van involved in collision with other motor vehicle	48	21	27	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	5	2	2	2	-
(304) Occupant of motor vehicle involved in noncollision accident	47	28	19	-	-	-	-	-	-	-	1	1	-	1	1	4	-	5	5	4	2	1	1
(305) Occupant of special-use motor vehicle involved in any accident	12	10	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
(306) Other and unspecified motor vehicle accidents	37	27	10	-	-	-	-	-	1	-	-	-	-	2	-	3	1	3	2	2	1	4	1
(308) Other and unspecified land transport accidents	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
(309) Water transport accidents	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(310) Air and space transport accidents	6	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
(311) Other and unspecified transport accidents and their sequelae	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-
Falls	151	72	79	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-
(312) Fall on same level	70	29	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(313) Fall from one level to another	25	17	8	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
(314) Unspecified fall	56	26	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(315) Accidental discharge of firearms	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
(317) Accidental drowning and submersion	19	14	5	-	-	-	-	2	1	-	-	1	-	1	-	-	-	3	-	-	1	-	-
(318) Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract	16	10	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(319) Other accidental and unspecified threats to breathing	13	6	7	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-
(322) Accidental exposure to smoke, fire and flames	11	8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accidental poisoning and exposure to noxious substances	88	50	38	-	-	2	-	-	-	-	-	-	-	-	-	1	-	2	1	5	2	4	6
(327) Accidental poisoning by and exposure to drugs and other biological substances	76	40	36	-	-	2	-	-	-	-	-	-	-	-	-	1	-	2	1	5	2	3	5
(328) Accidental poisoning by and exposure to other and unspecified solid or liquid substances	7	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
(329) Accidental poisoning by and exposure to other gases and vapors	5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-1  
Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes  
Montana Residents, 2013**

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-defined and unknown causes of mortality	-	2	1	-	4	-	4	2	2	-	2	1	2	1	3	1	1	1	3	1	2	13
(292) Sudden infant death syndrome	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(293) Other ill-defined and unknown causes of mortality	-	2	1	-	4	-	4	2	2	-	2	1	2	1	3	1	1	1	3	1	2	13
(294) All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1	-	-	-	-	1	-	-	2	-	-	1	-	1	3	-	-	5	6	8	10	35
XX. External causes of mortality	37	23	39	21	48	19	60	24	36	26	39	14	21	8	18	13	25	6	36	15	52	84
Accidents (unintentional injuries)	20	17	13	14	30	10	31	18	16	16	25	10	14	5	7	9	20	5	29	11	48	83
Transport accidents	9	6	6	9	11	4	18	5	4	5	13	5	9	3	4	3	6	1	3	2	7	1
Motor vehicle accidents	6	5	6	9	11	4	16	5	4	5	13	5	9	3	4	3	5	1	2	2	7	1
(296) Pedestrian involved in collision with motor vehicle	1	1	1	-	1	1	1	1	-	-	-	-	1	-	1	-	-	-	1	-	-	-
(297) Pedalcyclist involved in collision with motor vehicle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(298) Motorcyclist involved in any accident except collision with railway train	-	-	3	1	6	2	3	-	1	-	6	-	-	1	-	-	-	-	-	-	-	-
Motor vehicle accident involving collision with railway train	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(300) Other motor vehicle accident involving collision with railway train	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(301) Occupant of motor vehicle involved in collision with other (non-motorized) road vehicle, streetcar, animal or pedestrian	-	-	-	2	-	-	4	-	1	-	1	-	-	-	-	1	-	-	1	1	-	-
(302) Occupant of car, pickup truck or van involved in collision with other motor vehicle	1	1	1	2	-	-	4	2	-	4	-	2	3	1	3	3	1	1	-	1	3	1
(304) Occupant of motor vehicle involved in noncollision accident	3	2	-	3	2	-	2	2	2	1	-	1	2	-	-	-	-	-	-	-	1	-
(305) Occupant of special-use motor vehicle involved in any accident	-	-	1	-	-	1	1	-	-	-	2	1	1	-	-	-	1	-	-	-	1	-
(306) Other and unspecified motor vehicle accidents	1	1	-	1	1	-	1	-	-	-	4	1	2	1	-	-	2	-	1	-	1	-
(308) Other and unspecified land transport accidents	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(309) Water transport accidents	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(310) Air and space transport accidents	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(311) Other and unspecified transport accidents and their sequelae	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Falls	2	1	1	-	4	-	2	-	4	2	3	2	3	1	1	2	10	3	17	7	22	61
(312) Fall on same level	-	-	-	-	2	-	-	-	2	1	-	2	-	1	-	1	2	3	11	5	11	28
(313) Fall from one level to another	2	1	1	-	2	-	2	-	1	-	1	-	2	-	-	-	1	-	2	1	2	6
(314) Unspecified fall	-	-	-	-	-	-	-	-	1	1	2	-	1	-	1	1	7	-	4	1	9	27
(315) Accidental discharge of firearms	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(317) Accidental drowning and submersion	-	1	1	-	-	-	2	-	2	1	1	1	1	-	-	-	-	-	-	-	-	-
(318) Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	1	2	-	2	-	4	3
(319) Other accidental and unspecified threats to breathing	-	3	-	-	-	2	1	2	-	-	1	-	-	-	-	-	-	-	-	-	1	-
(322) Accidental exposure to smoke, fire and flames	1	-	1	-	2	-	-	-	-	2	-	-	-	-	1	1	-	-	2	-	1	-
Accidental poisoning and exposure to noxious substances	6	6	3	5	10	2	5	10	5	4	3	1	-	-	-	-	-	2	-	2	1	
(327) Accidental poisoning by and exposure to drugs and other biological substances	5	6	3	5	8	2	5	10	5	4	-	1	-	-	-	-	-	-	1	-	-	-
(328) Accidental poisoning by and exposure to other and unspecified solid or liquid substances	1	-	-	-	1	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
(329) Accidental poisoning by and exposure to other gases and vapors	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-1  
Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes  
Montana Residents, 2013**

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.		
(330) All other and unspecified accidents and their sequelae	60	33	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	1	-
Intentional self-harm (suicide)	238	177	61	-	-	-	-	-	-	-	-	1	2	4	4	7	3	16	5	18	4	13	7
(331) Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances	28	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	3
(332) Intentional self-poisoning (suicide) by and exposure to other and unspecified solid or liquid substances and their vapors	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(333) Intentional self-poisoning (suicide) by and exposure to other gases and vapors	9	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
(334) Intentional self-harm (suicide) by hanging, strangulation and suffocation	47	35	12	-	-	-	-	-	-	-	-	1	1	1	1	3	4	1	9	1	3	2	-
(335) Intentional self-harm (suicide) by discharge of firearms	144	116	28	-	-	-	-	-	-	-	-	1	1	3	3	6	-	10	3	7	2	8	2
(337) Intentional self-harm (suicide) by all other and unspecified means and their sequelae	9	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Assault (homicide)	32	24	8	1	1	-	-	-	-	-	-	-	-	1	-	-	-	3	1	6	2	-	1
(339) Assault (homicide) by hanging, strangulation and suffocation	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(340) Assault (homicide) by discharge of firearms	13	11	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	1	-	-
(341) Assault (homicide) by sharp object	5	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
(343) Assault (homicide) by bodily force	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(346) Assault (homicide) by all other and unspecified means and their sequelae	12	8	4	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	4	1	-	1
Event of undetermined intent	35	22	13	-	-	1	-	-	-	-	-	-	-	1	-	1	-	1	1	-	1	1	1
(347) Poisoning by and exposure to drugs and biological substances, undetermined intent	26	14	12	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	1
(349) Poisoning by and exposure to other gases and vapors, undetermined intent	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(352) All other and unspecified events of undetermined intent and their sequelae	8	7	1	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-
Legal intervention	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-
(354) Other legal intervention and their sequelae	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-
Complications of medical and surgical care	12	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(356) Drugs, medicaments and biological substances causing adverse effects in therapeutic use, and their sequelae	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(358) Other complications of medical and surgical care and their sequelae	9	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-1  
Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes  
Montana Residents, 2013**

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.
(330) All other and unspecified accidents and their sequelae	1	-	1	-	2	2	3	1	1	2	3	-	1	-	1	2	2	1	3	2	11	17
Intentional self-harm (suicide)	11	4	18	4	10	8	20	3	17	8	12	4	6	1	9	1	4	-	7	3	4	-
(331) Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances	2	1	2	2	3	1	3	1	-	3	1	1	-	-	-	-	-	-	2	-	-	-
(332) Intentional self-poisoning (suicide) by and exposure to other and unspecified solid or liquid substances and their vapors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(333) Intentional self-poisoning (suicide) by and exposure to other gases and vapors	1	-	1	-	-	1	-	1	-	1	-	-	-	-	2	-	-	-	-	-	-	-
(334) Intentional self-harm (suicide) by hanging, strangulation and suffocation	2	2	2	-	3	-	5	-	3	1	-	-	-	-	-	-	-	1	-	1	-	
(335) Intentional self-harm (suicide) by discharge of firearms	6	1	12	2	4	5	11	1	11	3	11	3	6	1	7	-	4	-	6	1	3	-
(337) Intentional self-harm (suicide) by all other and unspecified means and their sequelae	-	-	1	-	-	1	1	-	3	-	-	-	-	-	-	1	-	-	-	-	-	-
Assault (homicide)	4	-	3	1	4	-	2	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
(339) Assault (homicide) by hanging, strangulation and suffocation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(340) Assault (homicide) by discharge of firearms	2	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(341) Assault (homicide) by sharp object	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
(343) Assault (homicide) by bodily force	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(346) Assault (homicide) by all other and unspecified means and their sequelae	1	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Event of undetermined intent	1	2	3	2	3	1	7	3	2	1	-	-	-	1	1	-	-	-	-	-	-	-
(347) Poisoning by and exposure to drugs and biological substances, undetermined intent	-	2	3	2	3	1	4	3	1	1	-	-	-	-	-	-	-	-	-	-	-	-
(349) Poisoning by and exposure to other gases and vapors, undetermined intent	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(352) All other and unspecified events of undetermined intent and their sequelae	1	-	-	-	-	-	2	-	1	-	-	-	-	1	1	-	-	-	-	-	-	-
Legal intervention	-	-	1	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
(354) Other legal intervention and their sequelae	-	-	1	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Complications of medical and surgical care	1	-	1	-	-	-	-	-	1	1	-	-	1	1	1	2	1	-	-	1	-	1
(356) Drugs, medicaments and biological substances causing adverse effects in therapeutic use, and their sequelae	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	1	-	-
(358) Other complications of medical and surgical care and their sequelae	1	-	1	-	-	-	-	-	1	1	-	-	-	-	1	2	1	-	-	-	-	1

\* Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/358causes.pdf>

\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-2**  
**Frequency of Death by Sex, Race\*, and up to 113 Selected Underlying Causes and Enterocolitis due to Clostridium Difficile\*\***  
**Montana Residents, 2013**

Cause of Death**	Total***				Male				Female			
	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other
All Causes	9,452	8,867	529	56	4,863	4,542	289	32	4,589	4,325	240	24
(3) Certain other intestinal infections	29	28	1	-	12	11	1	-	17	17	-	-
(#) Tuberculosis	2	1	1	-	1	1	-	-	1	-	1	-
(4) Respiratory tuberculosis	2	1	1	-	1	1	-	-	1	-	1	-
(9#) Septicemia	109	98	10	1	48	44	4	-	61	54	6	1
(14#) Viral hepatitis	25	21	4	-	16	12	4	-	9	9	-	-
(15#) Human immunodeficiency virus (HIV) disease	4	4	-	-	4	4	-	-	-	-	-	-
(17) Other and unspecified infectious and parasitic diseases and their sequelae	24	22	2	-	14	13	1	-	10	9	1	-
(#) Malignant neoplasms	1,986	1,904	71	11	1,037	988	43	6	949	916	28	5
(18) Malignant neoplasms of lip, oral cavity and pharynx	30	30	-	-	23	23	-	-	7	7	-	-
(19) Malignant neoplasm of esophagus	48	47	-	1	37	36	-	1	11	11	-	-
(20) Malignant neoplasm of stomach	32	28	3	1	16	14	2	-	16	14	1	1
(21) Malignant neoplasms of colon, rectum and anus	161	154	5	2	94	90	3	1	67	64	2	1
(22) Malignant neoplasms of liver and intrahepatic bile ducts	78	68	9	1	48	39	8	1	30	29	1	-
(23) Malignant neoplasm of pancreas	138	134	3	1	72	68	3	1	66	66	-	-
(24) Malignant neoplasm of larynx	9	8	1	-	5	5	-	-	4	3	1	-
(25) Malignant neoplasms of trachea, bronchus and lung	490	466	21	3	250	239	9	2	240	227	12	1
(26) Malignant melanoma of skin	32	32	-	-	20	20	-	-	12	12	-	-
(27) Malignant neoplasm of breast	139	137	2	-	2	2	-	-	137	135	2	-
(28) Malignant neoplasm of cervix uteri	19	16	2	1	-	-	-	-	19	16	2	1
(29) Malignant neoplasms of corpus uteri and uterus, part unspecified	36	35	1	-	-	-	-	-	36	35	1	-
(30) Malignant neoplasm of ovary	49	49	-	-	-	-	-	-	49	49	-	-
(31) Malignant neoplasm of prostate	114	110	4	-	114	110	4	-	-	-	-	-
(32) Malignant neoplasms of kidney and renal pelvis	47	43	4	-	40	37	3	-	7	6	1	-
(33) Malignant neoplasm of bladder	62	61	1	-	47	47	-	-	15	14	1	-
(34) Malignant neoplasms of meninges, brain and other parts of central nervous system	52	52	-	-	26	26	-	-	26	26	-	-
Malignant neoplasms of lymphoid, hematopoietic and related tissue	194	190	4	-	110	106	4	-	84	84	-	-
(35) Hodgkin's disease	2	2	-	-	-	-	-	-	2	2	-	-
(36) Non-Hodgkin's lymphoma	59	57	2	-	33	31	2	-	26	26	-	-
(37) Leukemia	80	79	1	-	46	45	1	-	34	34	-	-
(38) Multiple myeloma and immunoproliferative neoplasms	53	52	1	-	31	30	1	-	22	22	-	-
(40) All other and unspecified malignant neoplasms	256	244	11	1	133	126	7	-	123	118	4	1
(41#) In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	58	57	1	-	40	39	1	-	18	18	-	-
(42#) Anemias	20	16	3	1	7	6	1	-	13	10	2	1
(43#) Diabetes mellitus	252	198	51	3	142	112	28	2	110	86	23	1
(#) Nutritional deficiencies	18	17	1	-	5	4	1	-	13	13	-	-
(44) Malnutrition	17	16	1	-	5	4	1	-	12	12	-	-
(45) Other nutritional deficiencies	1	1	-	-	-	-	-	-	1	1	-	-
(46#) Meningitis	1	-	1	-	1	-	1	-	-	-	-	-
(47#) Parkinson's disease	100	97	1	2	63	62	1	-	37	35	-	2
(48#) Alzheimer's disease	265	261	3	1	91	91	-	-	174	170	3	1
Major cardiovascular diseases	2,626	2,506	109	11	1,397	1,322	67	8	1,229	1,184	42	3
(#) Diseases of heart	1,976	1,879	86	11	1,099	1,035	56	8	877	844	30	3
(49) Acute rheumatic fever and chronic rheumatic heart diseases	13	12	-	1	4	4	-	-	9	8	-	1
(50) Hypertensive heart disease	80	75	4	1	42	37	4	1	38	38	-	-
(51) Hypertensive heart and renal disease	9	9	-	-	3	3	-	-	6	6	-	-
Ischemic heart diseases	1,109	1,036	65	8	708	656	46	6	401	380	19	2

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

\*\*Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/113causes.pdf>. Those marked with a "#" sign are rankable as leading causes.

+ American Indian or Alaska Native.

\*\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-2**  
**Frequency of Death by Sex, Race\*, and up to 113 Selected Underlying Causes and Enterocolitis due to Clostridium Difficile\*\***  
**Montana Residents, 2013**

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	208	193	15	-	125	117	8	-	83	76	7	-
(53) Other acute ischemic heart diseases	8	7	1	-	4	3	1	-	4	4	-	-
Other forms of chronic ischemic heart disease	893	836	49	8	579	536	37	6	314	300	12	2
(54) Atherosclerotic cardiovascular disease, so described	450	410	33	7	316	282	28	6	134	128	5	1
(55) All other forms of chronic ischemic heart disease	443	426	16	1	263	254	9	-	180	172	7	1
Other heart diseases	765	747	17	1	342	335	6	1	423	412	11	-
(56) Acute and subacute endocarditis	2	2	-	-	-	-	-	-	2	2	-	-
(57) Diseases of pericardium and acute myocarditis	4	4	-	-	3	3	-	-	1	1	-	-
(58) Heart failure	311	300	10	1	131	127	3	1	180	173	7	-
(59) All other forms of heart disease	448	441	7	-	208	205	3	-	240	236	4	-
(60#) Essential hypertension and hypertensive renal disease	70	65	5	-	34	31	3	-	36	34	2	-
(61#) Cerebrovascular diseases	478	463	15	-	203	197	6	-	275	266	9	-
(62#) Atherosclerosis	19	18	1	-	16	15	1	-	3	3	-	-
Other diseases of circulatory system	83	81	2	-	45	44	1	-	38	37	1	-
(63#) Aortic aneurysm and dissection	41	41	-	-	23	23	-	-	18	18	-	-
(64) Other diseases of arteries, arterioles and capillaries	42	40	2	-	22	21	1	-	20	19	1	-
(65) Other disorders of circulatory system	20	19	1	-	13	12	1	-	7	7	-	-
(#) Influenza and pneumonia	206	193	13	-	103	97	6	-	103	96	7	-
(66) Influenza	34	33	1	-	14	14	-	-	20	19	1	-
(67) Pneumonia	172	160	12	-	89	83	6	-	83	77	6	-
Other acute lower respiratory infections	2	2	-	-	-	-	-	-	2	2	-	-
(68#) Acute bronchitis and bronchiolitis	1	1	-	-	-	-	-	-	1	1	-	-
(69) Other and unspecified acute lower respiratory infection	1	1	-	-	-	-	-	-	1	1	-	-
(#) Chronic lower respiratory diseases	642	622	16	4	292	286	3	3	350	336	13	1
(70) Bronchitis, chronic and unspecified	2	2	-	-	1	1	-	-	1	1	-	-
(71) Emphysema	32	31	-	1	8	8	-	-	24	23	-	1
(72) Asthma	16	15	1	-	3	3	-	-	13	12	1	-
(73) Other chronic lower respiratory diseases	592	574	15	3	280	274	3	3	312	300	12	-
(74#) Pneumoconioses and chemical effects	8	8	-	-	8	8	-	-	-	-	-	-
(75#) Pneumonitis due to solids and liquids	71	65	6	-	42	38	4	-	29	27	2	-
(76) Other diseases of respiratory system	126	122	4	-	71	68	3	-	55	54	1	-
(77#) Peptic ulcer	14	13	1	-	9	9	-	-	5	4	1	-
(78#) Diseases of appendix	2	2	-	-	2	2	-	-	-	-	-	-
(79#) Hernia	7	7	-	-	3	3	-	-	4	4	-	-
(#) Chronic liver disease and cirrhosis	150	110	39	1	85	67	18	-	65	43	21	1
(80) Alcoholic liver disease	116	82	34	-	71	54	17	-	45	28	17	-
(81) Other chronic liver disease and cirrhosis	34	28	5	1	14	13	1	-	20	15	4	1
(82#) Cholelithiasis and other disorders of gallbladder	9	9	-	-	7	7	-	-	2	2	-	-
(#) Nephritis, nephrotic syndrome and nephrosis	131	122	7	2	59	55	2	2	72	67	5	-
(83) Acute and rapidly progressive nephritic and nephrotic syndrome	1	1	-	-	-	-	-	-	1	1	-	-
(84) Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified	1	1	-	-	1	1	-	-	-	-	-	-
(85) Renal failure	128	119	7	2	58	54	2	2	70	65	5	-
(86) Other disorders of kidney	1	1	-	-	-	-	-	-	1	1	-	-
(88#) Hyperplasia of prostate	1	1	-	-	1	1	-	-	-	-	-	-
(#) Pregnancy, childbirth and the puerperium	6	2	4	-	-	-	-	-	6	2	4	-
(91) Other complications of pregnancy childbirth and the puerperium	6	2	4	-	-	-	-	-	6	2	4	-

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

\*\*Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/113causes.pdf>. Those marked with a "#" sign are rankable as leading causes.

+ American Indian or Alaska Native.

\*\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-2**  
**Frequency of Death by Sex, Race\*, and up to 113 Selected Underlying Causes and Enterocolitis due to Clostridium Difficile\*\***  
**Montana Residents, 2013**

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	23	18	5	-	20	17	3	-	3	1	2	-
(93#) Congenital malformations deformations and chromosomal abnormalities	33	30	3	-	16	13	3	-	17	17	-	-
(94) Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	196	178	16	2	84	75	8	1	112	103	8	1
(95) All other diseases (Residual)	1,367	1,294	66	7	583	550	29	4	784	744	37	3
(#) Accidents (unintentional injuries)	595	535	56	4	351	317	32	2	244	218	24	2
Transport accidents	233	198	33	2	154	136	17	1	79	62	16	1
(96) Motor vehicle accidents	219	186	32	1	144	126	17	1	75	60	15	-
(97) Other land transport accidents	3	2	-	1	2	2	-	-	1	-	-	1
(98) Water, air and space, and other and unspecified transport accidents and their sequelae	10	9	1	-	7	7	-	-	3	2	1	-
Nontransport accidents	362	337	23	2	197	181	15	1	165	156	8	1
(99) Falls	151	149	1	1	72	70	1	1	79	79	-	-
(100) Accidental discharge of firearms	4	3	1	-	4	3	1	-	-	-	-	-
(101) Accidental drowning and submersion	19	17	2	-	14	12	2	-	5	5	-	-
(102) Accidental exposure to smoke, fire and flames	11	8	3	-	8	6	2	-	3	2	1	-
(103) Accidental poisoning and exposure to noxious substances	88	77	10	1	50	46	4	-	38	31	6	1
(104) Other and unspecified nontransport accidents and their sequelae	89	83	6	-	49	44	5	-	40	39	1	-
(#) Intentional self-harm (suicide)	238	210	23	5	177	158	16	3	61	52	7	2
(105) Intentional self-harm (suicide) by discharge of firearms	144	135	6	3	116	109	4	3	28	26	2	-
(106) Intentional self-harm (suicide) by other and unspecified means and their sequelae	94	75	17	2	61	49	12	-	33	26	5	2
(#) Assault (homicide)	32	27	4	1	24	19	4	1	8	8	-	-
(107) Assault (homicide) by discharge of firearms	13	13	-	-	11	11	-	-	2	2	-	-
(108) Assault (homicide) by other and unspecified means and their sequelae	19	14	4	1	13	8	4	1	6	6	-	-
(109#) Legal intervention	7	7	-	-	7	7	-	-	-	-	-	-
Events of undetermined intent	35	29	6	-	22	18	4	-	13	11	2	-
(111) Other and unspecified events of undetermined intent and their sequelae	35	29	6	-	22	18	4	-	13	11	2	-
(113#) Complications of medical and surgical care	12	12	-	-	6	6	-	-	6	6	-	-
(#) Enterocolitis due to Clostridium difficile	15	14	1	-	6	5	1	-	9	9	-	-

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

\*\*Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphhs.mt.gov/statisticalinformation/vitalstats/appendix/113causes.pdf>. Those marked with a "#" sign are rankable as leading causes.

+ American Indian or Alaska Native.

\*\*\*The death record of an infant with unknown sex is not included in this table.

**Table D-3**  
**Frequency and Rate of Death from Selected Underlying Causes by Year**  
**Montana Residents, 1953 - 2013**

Year Of Death	Accidents - Motor		Accidents - Other		Accidents - Total		Alcoholism		Cancer		Diabetes		Heart Disease		Homicide		Nephritis		Pneumonia		Suicide	
	Num.	Rate+	Num.	Rate+	Num.	Rate+	Num.	Rate+	Num.	Rate+	Num.	Rate+	Num.	Rate+	Num.	Rate+	Num.	Rate+	Num.	Rate+	Num.	Rate+
2013	219	21.5	375	36.9	594	58.5	68	6.6	1,986	195.6	252	24.8	1,976	194.6	32	3.1	131	12.9	172	16.9	238	23.4
2012	195	19.3	356	35.4	551	54.7	54	5.3	1,927	191.6	231	22.9	1,876	186.5	25	2.4	99	9.8	143	14.2	226	22.4
2011	194	19.4	383	38.3	577	57.8	46	4.6	1,991	199.5	246	24.6	1,907	191.1	21	2.1	96	9.6	149	14.9	225	22.5
2010	192	19.3	353	35.6	545	55.0	44	4.4	1,912	193.0	226	22.8	1,842	185.9	29	2.9	134	13.5	168	16.9	227	22.9
2009	222	22.5	388	39.4	610	61.9	49	4.9	1,909	194.0	228	23.1	1,825	185.4	33	3.3	129	13.1	158	16.0	218	22.1
2008	216	22.1	373	38.2	589	60.3	49	5.0	1,854	189.8	254	26.0	1,968	201.5	39	3.9	153	15.6	165	16.8	203	20.7
2007	267	27.6	336	34.8	603	62.5	36	3.7	1,906	197.5	258	26.7	1,860	192.8	23	2.3	109	11.2	175	18.1	192	19.9
2006	261	27.3	284	29.8	545	57.2	63	6.6	1,940	203.6	251	26.3	1,857	194.9	35	3.6	132	13.8	164	17.2	188	19.7
2005	233	24.7	284	30.2	517	54.9	39	4.1	1,947	207.1	283	30.1	1,842	195.9	32	3.4	109	11.5	186	19.7	205	21.8
2004	235	25.2	292	31.3	527	56.6	32	3.4	1,858	199.7	236	25.3	1,835	197.3	25	2.6	107	11.5	161	17.3	173	18.6
2003	254	27.6	257	27.9	511	55.5	39	4.2	1,838	199.8	263	28.5	1,974	214.6	37	4.0	101	10.9	238	25.8	179	19.4
2002	250	27.4	273	29.9	523	57.3	30	3.2	1,901	208.5	211	23.1	1,931	211.8	23	2.5	104	11.4	247	27.0	182	19.9
2001	209	23.0	259	28.5	468	51.6	35	3.8	1,952	215.2	229	25.2	1,962	216.3	31	3.4	127	14.0	191	21.0	174	19.1
2000	228	25.2	256	28.3	484	53.5	29	3.2	1,861	205.9	226	25.0	1,985	219.6	35	3.8	115	12.7	192	21.2	157	17.3
1999	191	21.6	270	30.5	461	52.2	22	2.4	1,845	208.9	243	27.5	2,034	230.4	32	3.6	93	10.5	213	24.1	161	18.2
1998	219	24.5	244	27.3	463	51.8	34	3.8	1,816	203.4	196	21.9	2,001	224.2	26	2.9	90	10.0	311	34.8	156	17.1
1997	230	25.8	213	23.9	443	49.7	18	±	1,779	199.9	169	18.9	2,097	235.6	37	4.1	98	11.0	299	33.6	179	20.4
1996	191	21.7	205	23.3	396	45.0	23	2.6	1,762	200.3	187	21.2	2,131	242.3	37	4.2	81	9.2	238	27.0	174	19.6
1995	191	21.7	183	20.8	374	42.6	21	2.3	1,765	201.3	210	23.9	2,003	228.5	45	5.1	56	6.3	313	35.7	197	22.4
1994	192	22.2	199	23.1	391	45.3	31	3.5	1,740	202.0	215	24.9	1,907	221.4	34	3.9	76	8.8	276	32.0	159	18.4
1993	182	21.5	193	22.8	375	44.3	26	3.0	1,738	205.7	191	22.6	2,110	249.7	39	4.6	59	6.9	249	29.4	154	18.2
1992	182	22.0	217	26.2	399	48.3	29	3.5	1,710	207.0	164	19.8	1,904	230.5	35	4.2	56	6.7	259	31.3	151	18.2
1991	183	22.6	201	24.8	384	47.4	19	±	1,656	204.5	181	22.3	1,944	240.0	36	4.4	51	6.2	245	30.2	167	20.6
1990	210	26.2	188	23.4	398	49.7	21	2.6	1,630	203.6	154	19.2	1,947	243.3	35	4.3	48	5.9	213	26.6	167	20.8
1989	171	21.2	189	23.4	360	44.6	16	±	1,593	197.7	170	21.1	2,019	250.6	32	3.9	47	5.8	224	27.8	159	19.7
1988	200	24.8	168	20.8	368	45.7	22	2.7	1,561	193.9	154	19.1	2,057	255.5	35	4.3	60	7.4	219	27.2	153	19.0
1987	223	27.5	193	23.8	416	51.4	22	2.7	1,516	187.3	116	14.3	2,109	260.6	39	4.8	60	7.4	192	23.7	159	19.6
1986	228	27.8	175	21.3	403	49.2	27	3.2	1,475	180.0	109	13.3	2,196	268.1	41	5.0	40	4.8	205	25.0	181	22.1
1985	210	25.4	207	25.0	417	50.4	20	2.4	1,445	174.9	123	14.8	2,201	266.4	49	5.9	58	7.0	211	25.5	144	17.4
1984	233	28.2	207	25.1	440	53.3	18	±	1,467	178.0	113	13.7	2,270	275.4	37	4.4	57	6.9	204	24.7	137	16.6
1983	267	32.6	249	30.4	516	63.1	16	±	1,350	165.2	103	12.6	2,241	274.2	33	4.0	62	7.5	219	26.8	143	17.5
1982	236	29.4	235	29.3	471	58.8	30	3.7	1,384	172.7	115	14.3	2,236	279.1	36	4.4	57	7.1	196	24.4	126	15.7
1981	308	38.8	245	30.8	553	69.7	32	4.0	1,343	169.3	95	11.9	2,279	287.3	47	5.9	70	8.8	171	21.5	137	17.2
1980	311	39.5	259	32.9	570	72.4	25	3.1	1,291	164.1	103	13.0	2,332	296.4	40	5.0	43	5.4	169	21.4	116	14.7
1979	313	39.8	283	36.0	596	75.8	22	2.7	1,240	157.7	94	11.9	2,302	292.8	39	4.9	46	5.8	143	18.1	123	15.6
1978	276	35.1	282	35.9	558	71.0	23	2.9	1,233	157.0	114	14.5	2,169	276.3	40	5.0	20	2.5	199	25.3	122	15.5
1977	302	39.6	272	35.7	574	75.4	25	3.2	1,184	155.5	89	11.6	2,149	282.3	53	6.9	24	3.1	144	18.9	143	18.7
1976	291	38.6	288	38.2	579	76.8	23	3.0	1,191	158.1	100	13.2	2,178	289.2	38	5.0	17	±	207	27.4	129	17.1
1975	282	37.7	302	40.3	584	78.0	28	3.7	1,105	147.7	122	16.3	2,178	291.1	42	5.6	19	±	185	24.7	112	14.9
1974	272	37.0	287	39.0	559	76.0	14	±	1,130	153.7	103	14.0	2,202	299.5	44	5.9	20	2.7	192	26.1	122	16.5
1973	324	44.9	287	39.8	611	84.7	20	2.7	1,061	147.1	126	17.4	2,300	319.0	46	6.3	27	3.7	236	32.7	108	14.9
1972	360	50.0	275	38.2	635	88.3	17	±	1,122	156.0	135	18.7	2,294	319.0	32	4.4	17	±	220	30.5	87	12.1
1971	310	43.6	299	42.1	609	85.7	19	±	1,051	148.0	120	16.9	2,339	329.4	43	6.0	19	±	210	29.5	117	16.4
1970	290	41.7	281	40.4	571	82.2	25	3.6	1,059	152.5	111	15.9	2,229	320.9	30	4.3	26	3.7	213	30.6	79	11.3
1969	329	47.4	306	44.0	635	91.4	10	±	1,041	150.0	117	16.8	2,297	330.9	31	4.4	21	3.0	201	28.9	91	13.1
1968	262	37.8	273	39.3	535	77.2	29	4.1	1,080	155.8	119	17.1	2,223	320.7	25	3.6	20	2.8	213	30.7	97	13.9
1967	318	45.3	289	41.2	607	86.5	12	±	1,001	142.7	143	20.3	2,297	327.6	31	4.4	38	5.4	196	27.9	100	14.2
1966	265	37.7	295	42.0	560	79.7	24	3.4	969	138.0	106	15.0	2,415	344.0	23	3.2	42	5.9	230	32.7	96	13.6
1965	268	37.9	323	45.7	591	83.7	14	±	933	132.1	114	16.1	2,297	325.3	20	2.8	35	4.9	198	28.0	94	13.3
1964	250	35.4	398	56.4	648	91.9	13	±	986	139.8	139	19.7	2,368	335.8	30	4.2	45	6.3	226	32.0	80	11.3
1963	218	30.8	299	42.2	517	73.1	12	±	896	126.7	125	17.6	2,340	330.9	22	3.1	42	5.9	218	30.8	115	16.2
1962	232	32.7	318	44.8	550	77.5	19	±	911	128.4	121	17.0	2,204	310.8	21	2.9	63	8.8	195	27.5	110	15.5
1961	270	39.5	248	36.3	518	75.9	18	±	965	141.4	117	17.1	2,269	332.6	21	3.0	41	6.0	219	32.1	96	14.0
1960	226	33.4	284	42.0	510	75.5	13	±	958	141.9	102	15.1	2,332	345.6	25	3.7	51	7.5	227	33.6	107	15.8
1959	258	38.5	307	45.8	565	84.4	15	±	920	137.5	123	18.3	2,382	356.0	29	4.3	58	8.6	231	34.5	97	14.4
1958	206	30.9	291	43.6	497	74.6	18	±	859	128.9	109	16.3	2,244	336.9	17	±	53	7.9	260	39.0	101	15.1
1957	219	32.8	322	48.2	541	81.1	20	2.9	877	131.4	118	17.6	2,290	343.3	23	3.4	71	10.6	249	37.3	105	15.7
1956	265	40.3	309	47.1	574	87.5	22	3.3	932	142.0	98	14.9	2,165	330.0	32	4.8	83	12.6	211	32.1	98	14.9
1955	239	37.5	310	48.7	549	86.3	28	4.4	829	130.3	108	16.9	2,116	332.7	21	3.3	94	14.7	155	24.3	79	12.4
1954	219	35.0	312	50.0	531	85.0	19	±	868	139.1	95	15.2	2,128	341.0	29</							

**Table D-4**

**Frequency and Rate of Death from Selected Communicable Diseases by Year\*  
Montana, 1930 - 2013**

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‡
2013	-	‡	-	‡	33	3.2	-	‡	-	‡	-	‡	-	‡	2	‡	-	‡	-	‡
2012	-	‡	-	‡	12	‡	-	‡	-	‡	3	‡	-	‡	1	‡	-	‡	-	‡
2011	-	‡	-	‡	6	‡	-	‡	-	‡	-	‡	-	‡	-	‡	-	‡	-	‡
2010	-	‡	-	‡	-	‡	-	‡	-	‡	2	‡	-	‡	-	‡	-	‡	-	‡
2009	-	‡	-	‡	6	‡	-	‡	-	‡	3	‡	-	‡	-	‡	-	‡	-	‡
2008	-	‡	-	‡	3	‡	-	‡	2	‡	7	‡	-	‡	5	‡	-	‡	-	‡
2007	-	‡	-	‡	5	‡	-	‡	-	‡	2	‡	-	‡	1	‡	-	‡	-	‡
2006	-	‡	-	‡	6	‡	-	‡	-	‡	5	‡	-	‡	1	‡	-	‡	-	‡
2005	-	‡	-	‡	26	2.7	-	‡	-	‡	-	‡	-	‡	3	‡	-	‡	-	‡
2004	-	‡	-	‡	4	‡	-	‡	-	‡	2	‡	-	‡	-	‡	-	‡	-	‡
2003	-	‡	-	‡	18	‡	-	‡	-	‡	2	‡	-	‡	1	‡	-	‡	-	‡
2002	-	‡	-	‡	7	‡	-	‡	-	‡	1	‡	-	‡	-	‡	-	‡	-	‡
2001	-	‡	-	‡	3	‡	-	‡	2	‡	1	‡	-	‡	3	‡	-	‡	-	‡
2000	-	‡	-	‡	10	‡	-	‡	-	‡	1	‡	-	‡	4	‡	-	‡	-	‡
1999	-	‡	-	‡	35	3.8	-	‡	1	‡	-	‡	-	‡	3	‡	-	‡	-	‡
1998	-	‡	-	‡	60	6.7	-	‡	-	‡	1	‡	-	‡	4	‡	-	‡	-	‡
1997	-	‡	-	‡	-	‡	-	‡	-	‡	-	‡	-	‡	-	‡	-	‡	-	‡
1996	-	‡	-	‡	11	‡	-	‡	2	‡	2	‡	-	‡	1	‡	-	‡	-	‡
1995	-	‡	-	‡	6	‡	-	‡	1	‡	2	‡	-	‡	2	‡	-	‡	-	‡
1994	-	‡	-	‡	15	‡	-	‡	1	‡	-	‡	-	‡	6	‡	-	‡	-	‡
1993	-	‡	-	‡	13	‡	-	‡	-	‡	-	‡	-	‡	2	‡	-	‡	-	‡
1992	-	‡	-	‡	7	‡	-	‡	-	‡	1	‡	-	‡	4	‡	-	‡	-	‡
1991	-	‡	-	‡	7	‡	-	‡	-	‡	1	‡	-	‡	4	‡	-	‡	-	‡
1990	-	‡	-	‡	15	‡	-	‡	2	‡	-	‡	-	‡	2	‡	-	‡	-	‡
1989	-	‡	-	‡	19	‡	-	‡	-	‡	2	‡	-	‡	5	‡	-	‡	-	‡
1988	-	‡	-	‡	21	2.6	-	‡	-	‡	1	‡	-	‡	2	‡	-	‡	-	‡
1987	-	‡	-	‡	9	‡	-	‡	-	‡	-	‡	-	‡	4	‡	-	‡	-	‡
1986	-	‡	-	‡	24	2.9	-	‡	-	‡	-	‡	-	‡	5	‡	-	‡	-	‡
1985	-	‡	-	‡	24	2.9	-	‡	3	‡	-	‡	-	‡	5	‡	-	‡	-	‡
1984	-	‡	-	‡	19	‡	-	‡	-	‡	2	‡	-	‡	10	‡	-	‡	-	‡
1983	-	‡	-	‡	26	3.1	-	‡	1	‡	1	‡	-	‡	1	‡	-	‡	-	‡
1982	-	‡	-	‡	8	‡	-	‡	1	‡	-	‡	-	‡	7	‡	-	‡	-	‡
1981	1	‡	-	‡	10	‡	-	‡	1	‡	-	‡	-	‡	7	‡	-	‡	-	‡
1980	-	‡	-	‡	24	3.0	-	‡	-	‡	-	‡	-	‡	6	‡	-	‡	-	‡
1979	-	‡	-	‡	4	‡	-	‡	4	‡	-	‡	-	‡	5	‡	-	‡	-	‡
1978	-	‡	-	‡	19	‡	-	‡	2	‡	1	‡	-	‡	11	‡	-	‡	-	‡
1977	-	‡	-	‡	9	‡	-	‡	2	‡	-	‡	-	‡	4	‡	-	‡	-	‡
1976	-	‡	-	‡	95	12.6	-	‡	-	‡	-	‡	-	‡	9	‡	-	‡	-	‡

\*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.

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

Groupings of specific causes of death into more broad categories may vary after such revisions because of coding changes alone.

Details are provided by the World Health Organization at <http://www.who.int/classifications/icd/en/>.

‡ 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 Diseases by Year\*  
Montana, 1930 - 2013**

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‡
1975	-	‡	-	‡	17	‡	-	‡	-	‡	1	‡	1	‡	13	‡	-	‡	-	‡
1974	-	‡	-	‡	11	‡	-	‡	1	‡	1	‡	-	‡	17	‡	-	‡	-	‡
1973	-	‡	-	‡	43	5.9	-	‡	2	‡	-	‡	-	‡	13	‡	-	‡	-	‡
1972	-	‡	-	‡	15	‡	-	‡	2	‡	-	‡	-	‡	11	‡	-	‡	-	‡
1971	-	‡	-	‡	9	‡	2	‡	2	‡	1	‡	-	‡	1	‡	-	‡	1	‡
1965	-	‡	-	‡	5	‡	-	‡	3	‡	-	‡	-	‡	22	3.1	-	‡	-	‡
1960	-	‡	-	‡	37	5.4	1	‡	3	‡	7	‡	1	‡	31	4.5	-	‡	1	‡
1955	-	‡	1	‡	12	‡	4	‡	5	‡	8	‡	-	‡	50	7.8	-	‡	1	‡
1950	-	‡	2	‡	23	3.8	-	‡	1	‡	3	‡	1	‡	114	19.2	-	‡	10	‡
1945	1	‡	4	‡	47	9.3	1	‡	3	‡	10	‡	1	‡	171	33.8	2	‡	2	‡
1940	2	‡	6	‡	77	13.7	5	‡	6	‡	7	‡	7	‡	231	41.2	3	‡	5	‡
1935	3	‡	14	‡	173	31.5	49	8.9	15	‡	1	‡	21	3.8	257	46.8	12	‡	22	4.0
1930	7	‡	4	‡	102	18.9	12	‡	22	4.0	6	‡	9	‡	337	62.6	16	‡	16	‡

\*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.

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

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‡ 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 - 2013**

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
2013	1,037	949	114	2	137	250	240	94	67	47	15	36	28	49	72	66	19	425	292		
2012	1,024	903	101	1	133	262	231	92	81	44	18	25	46	40	54	46	58	10	432	253	
2011	1,073	918	104	2	134	324	253	89	71	46	11	24	45	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	-	116	290	272	74	87	38	16	23	35	41	55	60	47	9	372	256	
2006	1,023	917	129	-	111	287	237	100	104	30	9	28	41	31	50	66	62	10	370	275	
2005	1,020	927	129	-	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	-	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	-	116	264	212	100	80	32	13	18	58	40	54	44	37	11	309	240	
1996	942	820	125	-	143	291	194	95	86	20	9	20	39	47	41	38	42	13	334	225	
1995	918	847	125	-	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	-	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	-	151	267	140	92	88	25	17	28	30	42	35	33	50	11	286	205	
1989	880	713	150	-	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	-	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	-	125	207	92	84	84	21	15	13	25	31	40	36	29	9	230	193	
1980	743	548	91	-	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	-	90	207	60	82	66	28	7	16	28	13	35	42	34	13	209	173	
1976	684	507	92	-	107	197	58	90	70	24	13	18	30	17	29	31	35	9	220	151	
1975	629	476	74	-	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	-	85	172	37	67	87	19	8	9	19	21	25	30	42	15	187	152	
1972	637	485	79	-	92	164	44	85	69	25	7	16	17	20	25	37	34	16	230	162	

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 at <http://www.who.int/classifications/icd/en/>.

**Table D-5**

**Frequency of Death from Selected Cancers  
by Sex of Decedent and Year of Death  
Montana Residents, 1960 - 2013**

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
1971	643	408	70	3	88	177	35	78	58	35	8	11	15	23	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	-	93	158	28	83	71	26	7	15	34	23	19	39	23	13	213	130	
1968	604	476	66	-	96	150	23	64	59	38	4	18	33	16	38	46	31	22	207	169	
1967	549	452	66	-	98	121	26	81	63	26	6	19	20	17	37	39	18	28	196	140	
1966	571	398	59	-	87	125	16	65	63	23	5	23	26	18	24	45	16	15	228	131	
1965	546	387	71	-	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	-	84	109	12	64	54	15	3	14	26	14	28	44	22	21	205	131	
1961	524	441	62	-	98	115	23	78	76	20	7	17	22	14	27	30	21	27	197	131	
1960	557	401	78	-	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 at <http://www.who.int/classifications/icd/en/>.

Table D-6

**Frequency of Infant Death by Age and up to 130 Selected Underlying Causes  
Montana Residents, 2013**

Cause Of Death	Total	0 To 7 Days	8 To 27 Days	28 Days To One Year
All Causes	66	29	7	30
Certain infectious and parasitic diseases	2	-	-	2
(2#) Diarrhea and gastroenteritis of infectious origin	2	-	-	2
(#) Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	1	-	-	1
(27) Certain disorders involving the immune mechanism	1	-	-	1
Endocrine, nutritional and metabolic diseases	1	-	1	-
(32) All other endocrine, nutritional and metabolic diseases	1	-	1	-
Diseases of the nervous system	2	-	-	2
(33#) Meningitis	1	-	-	1
(36#) Anoxic brain damage, not elsewhere classified	1	-	-	1
(#) Diseases of the circulatory system	1	-	1	-
(39) Pulmonary heart disease and diseases of pulmonary circulation	1	-	1	-
Diseases of the respiratory system	4	-	-	4
(#) Influenza and pneumonia	4	-	-	4
(47) Pneumonia	4	-	-	4
Certain conditions originating in the perinatal period	23	18	4	1
Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	8	8	-	-
(59#) Newborn affected by other maternal conditions which may be unrelated to present pregnancy	1	1	-	-
# Newborn affected by maternal complications of pregnancy	12	12	-	-
(60) Newborn affected by incompetent cervix	2	2	-	-
(61) Newborn affected by premature rupture of membranes	3	3	-	-
(63) Newborn affected by other maternal complications of pregnancy	1	1	-	-
(69#) Newborn affected by noxious influences transmitted via placenta or breast milk	1	1	-	-
Disorders related to length of gestation and fetal malnutrition	5	5	-	-
(#) Disorders related to short gestation and low birth weight, not elsewhere classified	5	5	-	-
(71) Extremely low birth weight or extreme immaturity	2	2	-	-
(72) Other low birth weight or preterm	3	3	-	-
(77#) Respiratory distress of newborn	1	-	1	-
Other respiratory conditions originating in the perinatal period	5	3	1	1
(79#) Neonatal aspiration syndromes	3	2	-	1
(83#) Atelectasis	1	1	-	-
Infections specific to the perinatal period	1	1	-	-
(85#) Bacterial sepsis of newborn	1	1	-	-
(93#) Necrotizing enterocolitis of newborn	1	-	1	-
(95) Other perinatal conditions	2	1	1	-
(#) Congenital malformations, deformations and chromosomal abnormalities	14	9	-	5
(96) Anencephaly and similar malformations	2	2	-	-
(100) Congenital malformations of heart	2	-	-	2
(101) Other congenital malformations of circulatory system	1	-	-	1
(102) Congenital malformations of respiratory system	1	1	-	-
(104) Congenital malformations of genitourinary system	1	1	-	-
(105) Congenital malformations and deformations of musculoskeletal system, limbs and integument	4	2	-	2
(107) Edward's syndrome	2	2	-	-
(108) Patau's syndrome	1	1	-	-
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	15	1	1	13
(111#) Sudden infant death syndrome	11	-	-	11
(112) Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	4	1	1	2
(113) All other diseases (Residual)	1	1	-	-
External causes of mortality	2	-	-	2
(#) Assault (homicide)	2	-	-	2

Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphs.mt.gov/statisticalinformation/vitalstats/appendix/130causesinfantdeath.pdf>. Those marked with a "#" sign are rankable as leading causes.

**Table D-6**

**Frequency of Infant Death by Age and up to 130 Selected Underlying Causes  
Montana Residents, 2013**

Cause Of Death	Total	0 To 7 Days	8 To 27 Days	28 Days To One Year
(125) Assault (homicide) by hanging, strangulation and suffocation	1	-	-	1
(128) Assault (homicide) by other and unspecified means	1	-	-	1

**Table D-7**

**Frequency of Infant Death by Age in Days and Five-Year Infant Mortality Rate  
Montana Rates, 1989- 2013**

Year	Births	0-7 Days	8-27 Days	28 Days To One Year	Infant Deaths	Infant Death Rate+
2009-2013	60,780	165	43	138	349	5.7
2004-2008	60,618	158	40	166	367	6.1
1999-2003	55,100	175	37	149	364	6.6
1994-1998	54,665	180	34	175	392	7.2
1989-1993	57,597	194	47	247	490	8.5

+ Per 1,000 live births

\*\* Infant death rate 95% confidence interval upper and lower bounds.

**Table D-8**

**Frequency of Maternal and Late Maternal Deaths\* by Year  
Montana Residents, 2004-2013**

	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004
<b>Total, all Maternal and Late Maternal Causes</b>	6	2	6	2	5	2	4	2	6	9
<b>Maternal causes (A34,O00-O95,O98-O99)</b>	4	-	4	1	5	1	2	-	1	2
Pregnancy with abortive outcome (O00-O07)	-	-	-	-	-	-	-	-	-	-
Ectopic pregnancy (O00)	-	-	-	-	-	-	-	-	-	-
Spontaneous abortion (O03)	-	-	-	-	-	-	-	-	-	-
Medical abortion (O04)	-	-	-	-	-	-	-	-	-	-
Other abortion (O05)	-	-	-	-	-	-	-	-	-	-
Other and unspecified pregnancy with abortive outcome (O01-O02,O06-O07)	-	-	-	-	-	-	-	-	-	-
Other direct obstetric causes (A34,O10-O92)	3	-	2	-	1	1	1	-	-	2
Eclampsia and pre-eclampsia (O11,O13-O16)	1	-	1	-	1	-	1	-	-	-
Hemorrhage of pregnancy and childbirth and placenta previa (O20,O44-O46,O67,O72)	-	-	-	-	-	-	-	-	-	1
Complications predominately related to the puerperium (A34,O85-O92)	-	-	1	-	-	-	-	-	-	-
Obstetrical tetanus (A34)	-	-	-	-	-	-	-	-	-	-
Obstetric embolism (O88)	-	-	-	-	-	-	-	-	-	-
Other complications predominately related to the puerperium O85-O87,O89-O92)	-	-	1	-	-	-	-	-	-	-
All other direct obstetric causes (O10,O12,O21-O43,O47-O66,O68-O71,O73-O75)	2	-	-	-	-	1	-	-	-	1
Obstetric death of unspecified cause (O95)	1	-	-	1	-	-	-	-	-	-
Indirect obstetric causes (O98-O99)	-	-	2	-	4	-	1	-	1	-
<b>Maternal causes more than 42 days after delivery or termination of pregnancy (O96-O97)</b>	2	2	2	1	-	1	2	2	5	7
Death from any obstetric cause occurring more than 42 days but less than one year after delivery (O96)	2	2	2	1	-	1	2	2	5	7
Death from sequelae of direct obstetric causes (O97)	-	-	-	-	-	-	-	-	-	-

\* 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, 2009-2013**

Cause of death	Decedents younger than 75 years of age					Decedents of all ages							
	Average YPLL			Number of decedents younger than 75	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	18.3	17.4	26.0	19,154	351,103	-	73.5	78	79	60	114	18.6	44,841
HIV Infection	26.4	26.1	30.0	21	555	33	50.2	50.5	50.5	45	84	11.6	22
Cancer	12.7	12.5	15.9	5,365	68,222	-	71.7	73	73	66	103	13.3	9,725
Diabetes	14.2	13.9	15.4	545	7,735	20	73.9	76	78	68	102	15.0	1,183
Alzheimer's Disease	5.5	5.5	6.5	82	454	54	86.8	88	88	83	103	7.3	1,342
Heart Disease	13.3	13.0	16.4	3,344	44,497	-	77.7	81	82	68	106	14.2	9,426
Cerebrovascular Disease	12.3	12.1	13.5	524	6,458	-	81.1	84	84	71	105	12.7	2,289
Atherosclerosis	12.4	11.6	18.3	22	273	48	80.9	83	84	59.5	105	13.1	89
Influenza And Pneumonia	16.5	15.4	22.5	231	3,802	-	80.2	85	86	67	108	16.3	861
Chronic Lower Respiratory Diseases	9.0	8.9	10.6	1,133	10,158	-	77.3	79	79	73	104	10.8	3,076
Chronic Liver Disease And Cirrhosis	20.4	18.3	26.2	625	12,740	21	56.6	56	58	49	92	12.0	681
Nephritis, Nephrotic Syndrome & Nephrosis	14.2	13.0	21.3	144	2,048	1	79.9	83	83	69	104	13.8	589
Congenital Malformations & Chromosomal Anomalies	53.5	52.1	62.7	160	8,567	-	27.4	2	15	-	96	31.7	176
Conditions Originating In Perinatal Period	74.6	74.5	74.9	129	9,624	-	0.4	-	-	-	43	3.8	129
Sudden Infant Death Syndrome	75.0	75.0	75.0	63	4,725	-	0.0	-	-	-	-	0.0	63
Accidents	33.3	32.2	38.5	2,023	67,306	-	55.2	54	57	36.5	109	25.9	2,878
Motor Vehicle Accidents	37.0	35.8	42.3	947	34,992	1	41.3	38	41	30	95	20.8	1,022
Non-Motor Vehicle Accidents	30.0	29.1	34.6	1,076	32,314	-	62.8	65	70	45	109	25.3	1,855
Suicide	31.8	30.2	45.3	1,048	33,321	12	46.2	47	49	26	99	18.6	1,134
Homicide	39.4	38.6	43.5	136	5,358	-	36.9	37	40	32	84	17.9	140
Other Causes	18.3	17.4	24.3	3,559	65,260	-	77.4	83	83	60	114	17.6	11,038

\*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  
Montana Residents, 2013**

Cause Of Death	All Gestational Ages	Less Than 23 Weeks	23 To 33 Weeks	34 Weeks Or More	Not Stated
All Causes	54	11	24	17	2
Certain conditions originating in the perinatal period	47	9	21	16	1
(#) Fetus affected by maternal conditions that may be unrelated to present pregnancy	8	1	6	-	1
(17) Fetus affected by maternal hypertensive disorders	3	-	3	-	-
(18) Fetus affected by maternal renal and urinary tract diseases	1	-	-	-	1
(20) Fetus affected by other maternal circulatory and respiratory diseases	1	-	1	-	-
(22) Fetus affected by maternal injury	1	-	1	-	-
(24) Fetus affected by other medical procedures and maternal conditions	1	-	1	-	-
(25) Fetus affected by unspecified maternal condition	1	1	-	-	-
(#) Fetus affected by maternal complications of pregnancy	4	1	2	1	-
(26) Fetus affected by incompetent cervix	1	-	1	-	-
(27) Fetus affected by premature rupture of membranes	3	1	1	1	-
(#) Fetus affected by complications of placenta, cord and membranes	17	3	8	6	-
(36) Fetus affected by other forms of placental separation and hemorrhage	4	2	1	1	-
(37) Fetus affected by other and unspecified morphological and functional abnormalities of placenta	3	-	2	1	-
(38) Fetus affected by placental transfusion syndromes	1	1	-	-	-
(40) Fetus affected by other compression of umbilical cord	7	-	3	4	-
(41) Fetus affected by other and unspecified conditions of umbilical cord	1	-	1	-	-
(42) Fetus affected by chorioamnionitis	1	-	1	-	-
(#) Fetus affected by other complications of labor and delivery	1	-	1	-	-
(51) Fetus affected by other and unspecified complications of labor and delivery	1	-	1	-	-
(52#) Fetus affected by noxious influences transmitted via placenta	1	-	1	-	-
(#) Disorders related to short gestation and low birth weight, not elsewhere classified	2	2	-	-	-
(54) Extremely low birth weight or extreme immaturity	1	1	-	-	-
(55) Other low birth weight and preterm	1	1	-	-	-
(#) Intrauterine hypoxia and birth asphyxia	1	-	1	-	-
(77#) Fetal hemorrhage	1	1	-	-	-
Transitory endocrine and metabolic disorders specific to fetus	2	-	1	1	-
(84#) Syndrome of infant of a diabetic mother and neonatal diabetes mellitus	1	-	1	-	-
(85) Other transitory endocrine and metabolic disorders specific to fetus	1	-	-	1	-
Other conditions originating in the perinatal period	10	1	1	8	-
(87#) Hydrops fetalis not due to hemolytic disease	1	1	-	-	-
(88#) Fetal death of unspecified cause	9	-	1	8	-
(#) Congenital malformations, deformations and chromosomal abnormalities	7	2	3	1	1
(103) Congenital malformations of heart	1	-	1	-	-
Congenital malformations of urinary system	1	-	1	-	-
(109) Renal agenesis and other reduction defects of kidney	1	-	1	-	-
Other congenital malformations	3	2	-	-	1
(114) Multiple congenital malformations, not elsewhere classified	1	1	-	-	-
(115) All other congenital malformations	2	1	-	-	1

**Table F-1**

**Frequency of Fetal Death by Completed Weeks of Gestation and up to 124 Selected Underlying Causes  
Montana Residents, 2013**

Cause Of Death	All Gestational Ages	Less Than 23 Weeks	23 To 33 Weeks	34 Weeks Or More	Not Stated
Chromosomal abnormalities, not elsewhere classified	2	-	1	1	-
(118) Patau's syndrome	2	-	1	1	-