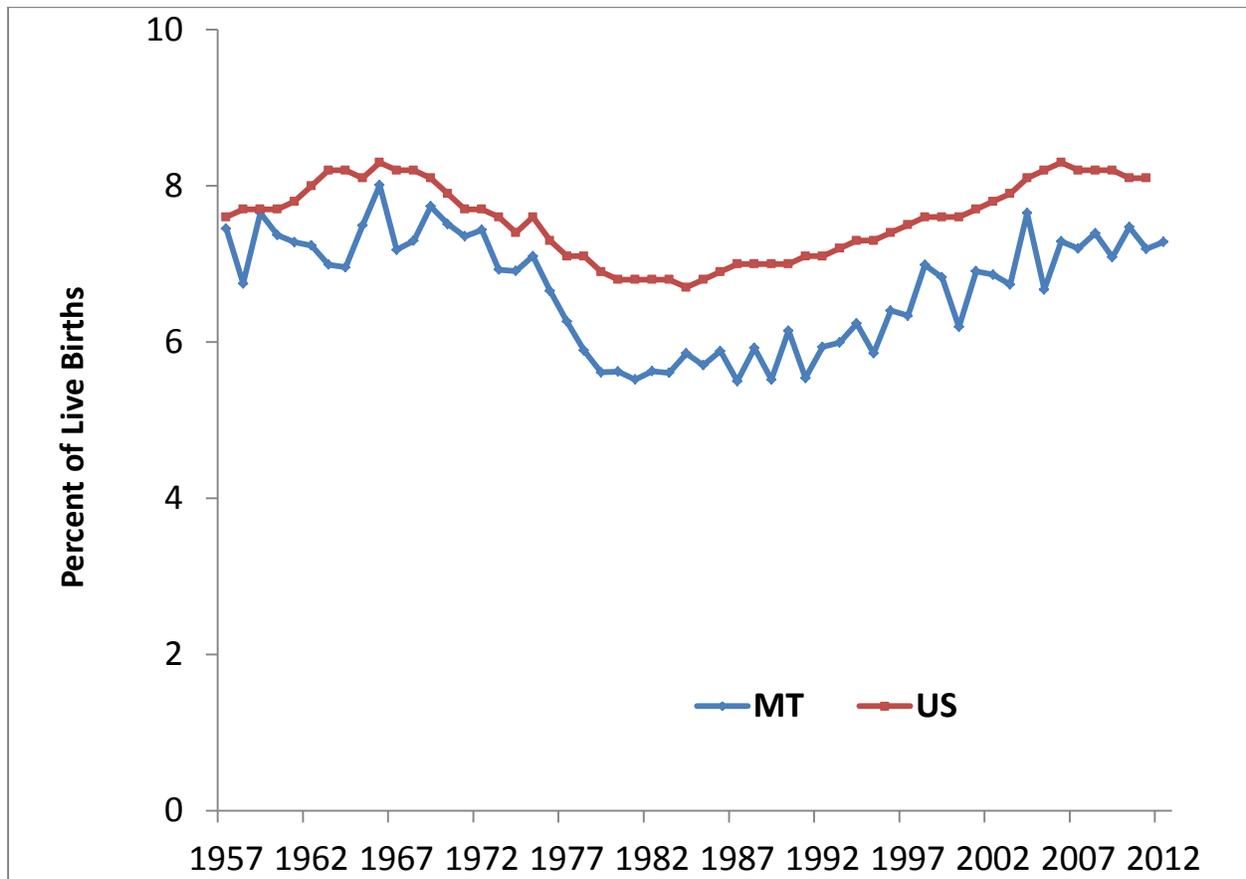


2012

Montana Vital Statistics

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

Low Birth Weight Montana and U.S. Residents

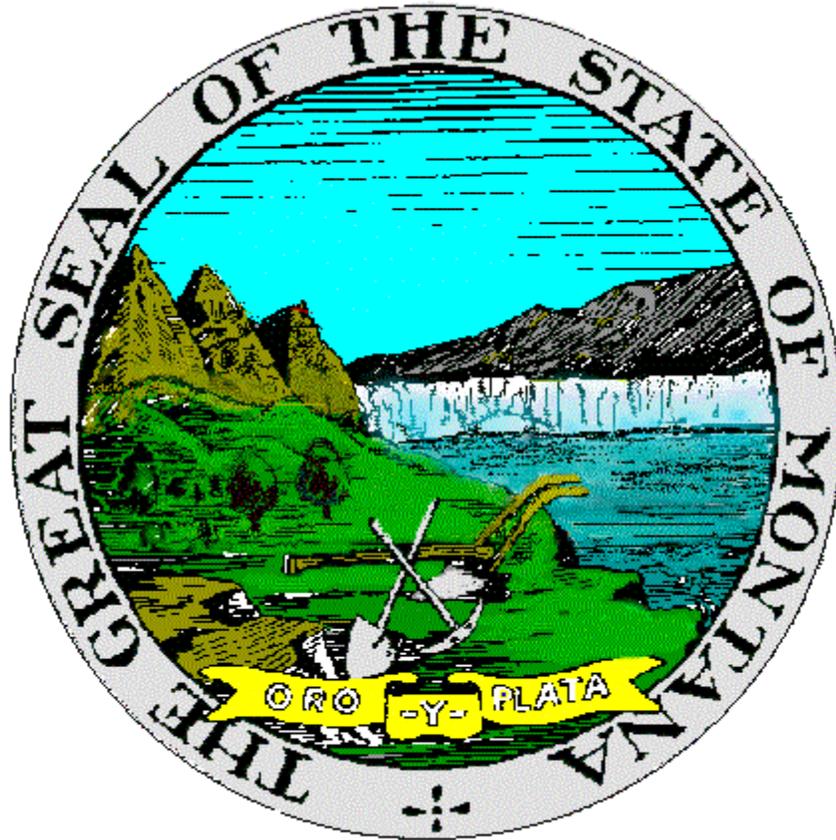


MONTANA VITAL STATISTICS SYSTEM

“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 (divorce) data and monitors these files for data quality.
- ✘ Builds and continues cooperative relationships with federal, state, and local agencies--including the National Center for Health Statistics--that collect, maintain, and use vital records and health statistics.
- ✘ Provides statistical data tabulations and analyses in support of health policy development, status assessment, and service assurance.



**The Honorable Steve Bullock
Governor of Montana**

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

November, 2013

PREPARED BY

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

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Bruce Schwartz, M.A., M.P.A.--Lead Vital Statistics Epidemiologist, for management of report preparation, the introduction, narrative sections, and final edit

Anna Walker. M.S., M.B.A.—Senior Vital Statistics Research Analyst, for table and graph preparation

ACKNOWLEDGMENTS

Karin Ferlicka, State Registrar, Office of Vital Statistics

Kathy Thompson, Data Acquisition Supervisor, Office of Vital Statistics

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), primarily using data collected through the Montana Vital Statistics System. 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 2012 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

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 Lead Vital Statistics Epidemiologist at OESS (444-1756, or bschwartz@mt.gov).

A general discussion of the sources and limitations of the data used, as well as the findings, with descriptive figures, appears in roughly the first half of this report. Vital statistics reference tables for 2012 make up the last half of the report. Where space permits, data for one or more prior years are provided for comparison. A “List of Reference Tables” (page 27), at roughly the halfway point in the report—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 [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 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, OVS staff checks all records and reports for accuracy and completeness and, when they are not acquired electronically, code them for data entry. Those data that are not received electronically are key-entered and records of all these events, regardless of how they are acquired, are maintained in the electronic files of Montana's vital statistics system.

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

NATALITY (birth records, 1989 to current data year)
Date, hour, and place of birth.
Age, race, 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.

MORTALITY (death records, 1989 to current data year)
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 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. the 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 three items are available for data years 2003 and forward only.

FETAL MORTALITY (1989 to current data year)
Date, hour, and place of delivery.
Age, race, 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 2012 received before July 15 of the following year. The number of records received after this latter date is small, and since the use of this "cut off" date is fairly consistent from year to year, the effect of omitted data on trends and patterns is likely to be minimal and use of the "cut off" balances timeliness of reporting with completeness of collection.

Geographic Allocation

Table titles or footnotes indicate whether events are shown by place of residence or place of occurrence. 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 deaths, the place of residence is the usual place where the decedent resided. For births and fetal deaths, the place of residence of the newborn or fetus is the usual place of the mother's residence. "Place" on Vital Records is specific to the time of the event documented, and does not necessarily indicate the place of exposure to disease or injury.

Residence data for births, deaths, and fetal deaths occurring outside Montana are available because of a cooperative, interstate transcript-exchange agreement. All states and Canadian provinces participate in this agreement under the auspices of the National Association for Public Health Statistics and Information Systems (NAPHSIS). Interstate data on induced abortions are available for only a few states and tables in this report reflect only induced abortions provided in

Montana, except those in **Table S-5**. The resident statistics in this table refer 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 causal and sequence of events leading to death. The certifier (attending 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 if tobacco use contributed to the death and, if the decedent was female, whether the decedent was pregnant within the preceding year.

In the case of a traumatic death (homicide, suicide, accident, or legal intervention), the certifier 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.

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

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

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

Marriage and Marital Termination

Data on national marriage and marital termination statistics are limited by differences in data collection and data availability at or below the state level. Marriage, marital termination and residency 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—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.

Race

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

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

The "Other" category is made up of all individuals not classified in the identified group(s) shown in any particular table. Those for whom race is not reported are therefore included in the "Other" category in all reference tables. According to the 2010 Census, about nine out of ten of Montanans (89.4%) considered

themselves to be white alone (i.e., indicating no other racial classification). About 6.3% considered themselves American Indian or Alaska Native (AI/AN) alone. Another 2.5% of the population considered themselves to be of two or more races. The remainder considered themselves to be of one of the remaining races—black (0.4%), Asian (0.6%), Native Hawaiian or Pacific Islander (0.1%), or some other race (0.6%)—alone. Thus, classifying persons of unknown race as "Other" may introduce an unknown, but probably slight, bias into statistics calculated from the data in these tables.

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

For all records other than divorce records, racial classifications shown in this report are based on a "bridged race" category, in which four racial groups—white, black, American Indian or Alaska native (AI/AN), and Asian and Pacific islander—are reported. Records for which only a single race is reported are assigned a bridged category according to the race provided. NCHS "bridges" those records for which two or more races are reported; a representative race is assigned using a probabilistic model described at this web site: http://www.cdc.gov/nchs/data/dvs/multiple_race_doc_u_5-10-04.pdf. Bridged race categories are intended for the calculation of population-based rates. For births and fetal deaths, the race of the infant or fetus is defined as the race of the mother.

Marital Status

The mother's marital status is designated "Married" on the birth record if the mother is reported on the

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

Marital status categories on death records are "Never married," "Married," "Married but Separated," "Widowed," "Divorced," or "Unknown," as described by the informant. Categories of marital status on the abortion report are the same, except that two categories are combined into the single category "Married or Separated." The "Divorced" designation on such records includes both marital dissolutions (formerly called divorces) and invalid marriages (formerly called annulments).

Limitations of Small Numbers

The occurrence of vital events is subject to chance variation. For example, a birth at 11:59 P.M. on December 31 would be counted in one year. If the infant had been born two minutes later at 12:01 A.M., the birth would be counted in the following year. This phenomenon is not of great importance for states or counties with large populations, since the relative number of births would not be greatly affected by one event. For Montana counties, with relatively small populations, the occurrence of an event, particularly a rare event, in one year rather than the next could change the pattern of events and might lead to mistaken conclusions about trends in the county's vital event rate.

Rates or trends based on small numbers, perhaps less than 100, must be interpreted with caution. For this reason, small frequencies are often withheld in this report. Similarly, percentages or population-based rates calculated from small totals can also be misleading. For this reason, rates and percentages calculated from fewer than 20 events are not shown. In order to prevent identification of individuals and their protected health information, this report suppresses counts of smaller than five in a table cell.

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

Data Tabulation and Presentation

Geographic Tabulation

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

Use of Rates and Ratios

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

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

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.

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

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

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

Age-Adjusted Death Rate - an index number that represents the death rate that would occur if the observed age-specific death rates were present in a population with a proportional age distribution identical to that of a standard population. It is derived from several 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^{th} age group in the standard population

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

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

$$\text{Age specific death rate} = \frac{\text{Number of deaths in the age group}}{\text{Midyear population of the age group}} \times 100,000$$

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 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 Birthweight - the birthweight 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, expressed as a number per thousand women in that population. The population at risk of experiencing a birth is all fertile women, 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.

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

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

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

Mean - the arithmetic mean, obtained by dividing the sum of individual values or scores by the number

of values or scores observed. For example, the mean age for six persons aged 9, 10, 12, 13, 13, and 16 is 73 divided by 6, or 12.2 years.

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

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

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

Neonatal Death - a death occurring within the first 27 days of life.

Neoplasm - a new, abnormal, malignant, or benign growth of tissue that is uncontrolled and progressive. 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:

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

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

Percentile - (as in xxth percentile) a statistic used to describe the dispersion of a set of values. One-quarter of the values in a set are less than or equal to the value of the 25th percentile (or 1st quartile); one-half are less than or equal to the 50th percentile (or median); etc. The 25th and 75th percentiles are found by counting out to the first quarter and third quarter of the sorted values, respectively. When this count lands between two values in the list, averages (means) can be taken, although any number between the two would

suffice. For the example under the definition of Mean, the 25th percentile is 11 and the 75th percentile is 13.

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 number of fetal deaths plus 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 this 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.

Puerperium - the condition of the mother immediately following childbirth.

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 birth rate per 1,000 population is the number of births to Montana resident women for every 1,000 men, women, and children in the Montana population over the course of one year.

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 unlikely to have happened to the same woman in a single year. Also, the total number of women is not part of the calculation; the denominator for the calculation is live births, one of the events.

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

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

where μ = the mean of the set of N values

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

Subject Population - see At-Risk Population.

Very Low Birthweight - the birthweight 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.

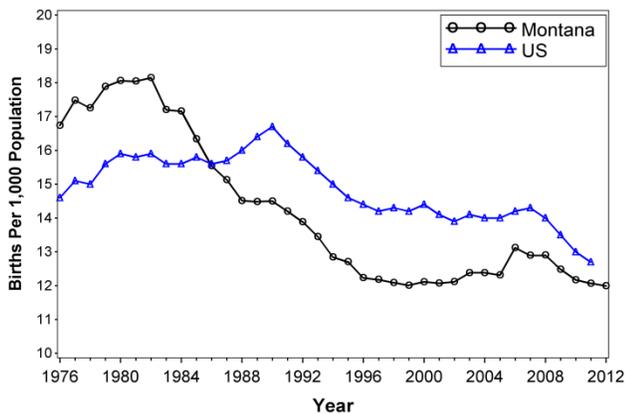
NATALITY

There were 12,052 babies born to Montana residents in 2012. **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 long-term decline from the early 1980s to 1999. However, the rate of births to Montana residents leveled off somewhat and even began to increase a bit in the mid-2000s. The rate climbed to 13.1 per 1,000 residents in 2006 and declined steadily to a 2012 rate of 12.0 per 1,000 residents (**Figure 1**).

Figure 1

**Resident Birth Rates
Montana and the United States, 1976-2012**



While the Montana rate exceeded the U.S. rate from the 1970s to the mid-1980s, it began to decline in the early 1980's, fell below the U.S. rate in the mid-1980s, and has been the lower of the two since. Data for 2011, the last year for which final national statistics are available, show that twelve states had lower birth rates than Montana's. Only one of those states was west of the Mississippi River.

Fertility

The fertility rate, calculated as the number of births per 1,000 females of childbearing age (assumed to be ages 15-44, inclusive), is sometimes considered more useful than the birth rate for many analytic purposes because it is specific with regard to sex and age of the "at-risk"

population. The fertility rate of white mothers of all ages has remained relatively constant over the past two decades (**Figure 2**). However, the fertility rate of white mothers aged 18-19 declined 39.5%, from 70.4 in 1990 to 42.6 in 2012. While the fertility rates of American Indian teens are substantially greater than those for white teens, the fertility rate of American Indian mothers aged 18-19 declined 50.3% from 277.4 in 1990 to 138.0 in 2012 (**Figure 3**).

Figure 2

**Fertility Rates for White Mothers
Montana Teens and Mothers of All Ages, 1992-2012**

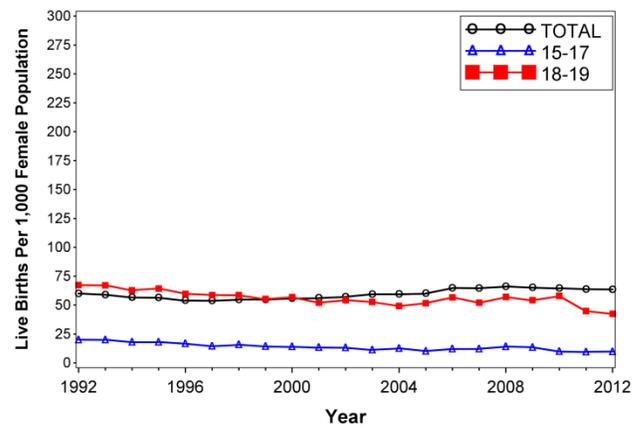
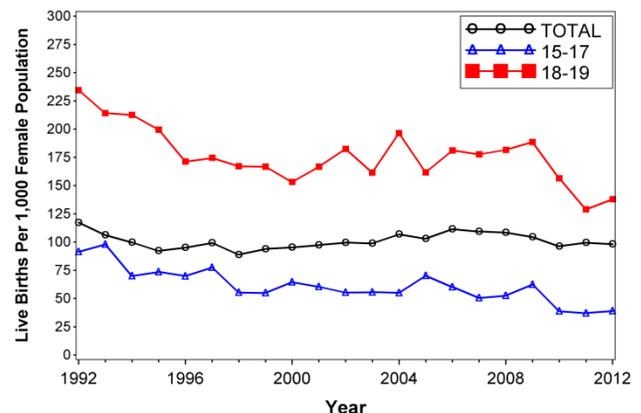


Figure 3

**Fertility Rates for American Indian Mothers
Montana Teens and Mothers of All Ages, 1992-2012**



In 2012, the fertility rate for Montana's white mothers of all ages was 63.6. The rate for white mothers between 15 and 17 was 9.9, and the rate for white mothers between the ages of 18 and 19 was, as stated above, 42.6. Fertility rates for American Indians were substantially higher in these age groups—98.3 (all ages), 38.9 (15-17), and 138.0 (18-19). Although teen

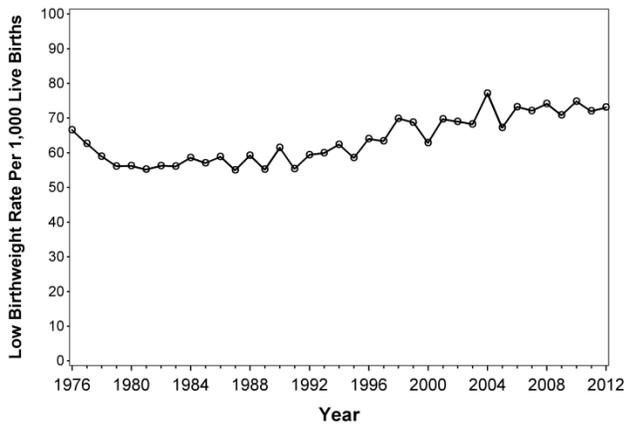
fertility rates (15-19) for both of these racial categories are declining, they are declining more rapidly for American Indians (48.2%) than for whites (41.0%). The fertility rate for whites aged 20 and older has increased 9.5% since 1990, while it has decreased 15.5% for American Indians.

Low Birth Weight

The rate of low birth weight births (less than 2,500 grams, or about five pounds, eight ounces) in Montana fell substantially during the latter 1970s, but has been increasing ever since (Figure 4). The rate was 72.5 per thousand live births in 1975 and 71.9 in 2011—a nearly identical rate, despite considerable change in the intervening years. Even though low birth weight has been identified by NCHS as one of the best predictors of infant death, this relationship does not seem to be the case in Montana—or at least, is much more complex than a simple correlation. While the low birth weight rates trend upward (Figure 4), rates of infant and perinatal death are falling for Montana residents (Figure 9). For further reference, Table B-3 shows the annual frequency of birth by birth weight category.

Figure 4

Rate of Low Birth Weight Births
Montana Residents, 1976-2012



Mother’s Age, Race, And Marital Status

Of those Montanan mothers giving birth in 2012, slightly more than half (56.4%) were between 20 and 29 years of age (Table S-5). American Indian births comprised 12.2% of all births, and 86.0% births were to white mothers (Table S-3). Either of these races shown may include women of Hispanic origin.

The proportion of unwed mothers has steadily increased over the past two decades (Figure 5). Births to unmarried mothers represented 23.7% of Montana’s resident births in 1990 and 36.0% in 2012. By comparison, unmarried mothers in the U.S. accounted for 40.7% in 2011, 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 at least four decades.

Figure 5

Percent of Births to Unmarried Mothers
Montana and United States Residents, 1992-2012

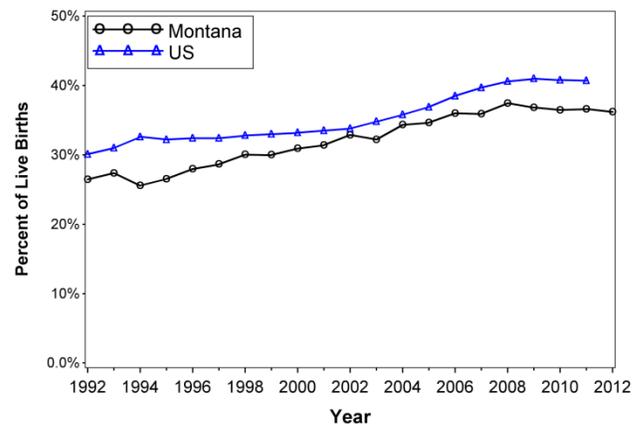


Table S-4 shows the frequency of birth by marital status of the mother for each of Montana’s counties in 2012.

Unreported Pregnancy Outcomes

Table S-5 summarizes pregnancy outcomes reported to DPHHS for Montanans. Those outcomes are live births, fetal deaths where the weight of the fetus meets legal reporting criteria (weight of 350 grams or more or, if the weight is unknown, 20 or more weeks of completed gestation), and induced abortions provided within Montana’s borders. It is important to bear in mind that unreported outcomes, miscarriages that do not meet reporting criteria and induced abortions performed on Montanans outside Montana, are unknown to us. 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.

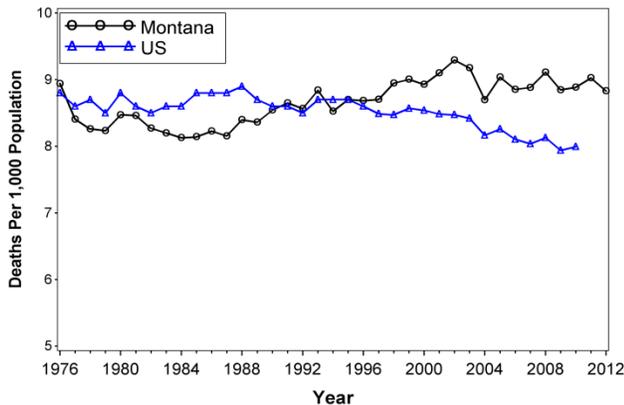
MORTALITY

Montana's crude death rate, while somewhat unstable, has been rising slightly since the mid-1980s (**Figure 6**). Conversely, the U.S. rate has been on a long-term decline since 1988. Montana's annual death rate followed the national trend fairly closely for several years, but there have been notable differences since the early 1980s. Both rates declined in the seventies through the early eighties but then began to increase, although at somewhat different rates, through the late eighties and into the early nineties. Since the mid-nineties, the U.S. rate has been decreasing while the Montana rate has continued to increase.

Montana's crude annual resident mortality rate in 2012 was 8.8 per 1,000 estimated midyear population. There were 8,876 Montana residents who died in that year and their median age at death was 78 years. Of these people, 4,603 were males and 4,273 were females (**Tables S-1, S-4, and D-1**).

Figure 6

**Resident Crude Death Rates
Montana and United States Residents, 1976-2012**



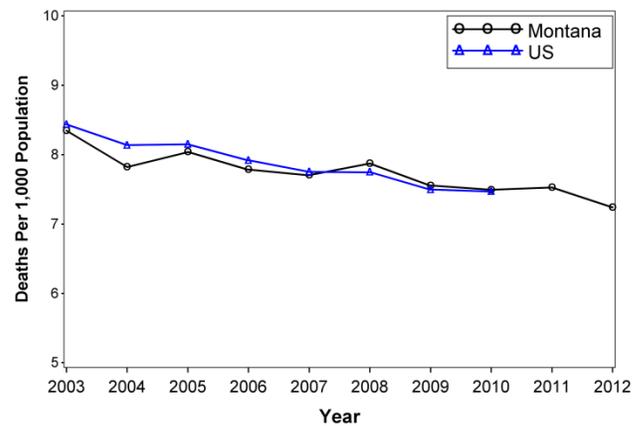
The rate of death is closely related to the age structure of the resident population. It is therefore useful to adjust this rate for differences in the age distributions of populations when comparing death rates between those populations. (See the definition of "age adjusted death rate" in the Definitions 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.

It is notable that while Montana's crude death rate (reflecting the absolute risk of death among the resident population) has been generally stable, the age-adjusted rate (which reflects relative risk by adjusting for the age of the population and the age of its decedents) has been generally declining over the ten years profiled (**Figure 7**). It is also notable that the age-adjusted rate for Montana was somewhat lower than the U.S. rate for many of those years.

Figure 7

**Age-Adjusted Death Rates*
Montana and United States Residents, 2003-2012**



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

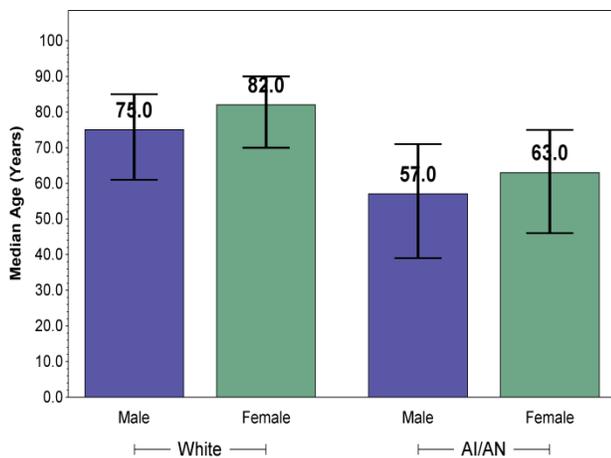
Whites typically died at an older age than American Indians (**Figure 8**). The age at death for whites was several years greater than that for American Indians at every quartile (25th percentile, median, and 75th percentile). Particularly striking is the fact that the median age at death for American Indians is about three-quarters that for whites (**Table D-9**); the age at the first quartile (the youngest quarter of the population) for American Indians was only about two-thirds that for whites.

There was greater variability in the age at death for the American Indian population than for the white population. The standard deviation, which measures the distribution around the mean, was greater for the

American Indians compared to whites. Thus, a larger proportion of American Indians died at younger-than-average or older-than-average ages.

In general, female decedents were older than male decedents at the time of death; the mean and median ages at death were greater for women than for men, regardless of race.

Figure 8
Median Age at Death,
25th and 75th Percentiles,
Montana Residents, 2008-2012



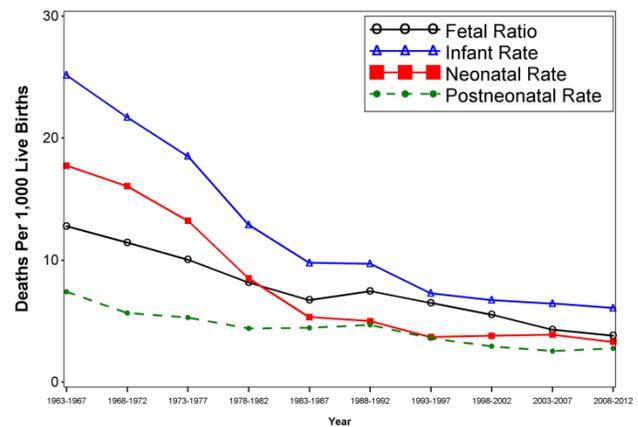
*The *median* is the midpoint of a sorted list of all individual ages. The whisker bars indicate the 25th percentile (lower) and 75th percentile (upper) of ages. One quarter of the decedents died at or under the age at the 25th percentile; half at or under the age at the *median* (or 50th percentile) etc.

Fetal, Infant, and Maternal Deaths

There was a substantial decline in the five-year infant death rate during the last half century (**Figure 9**). This rate, the number of infant deaths per 1,000 live births in a five-year period, decreased by about three-quarters in the period shown. 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, 1963-2012



Sudden infant death syndrome (SIDS), certain conditions originating in the perinatal period, and congenital malformations, deformations, and chromosomal anomalies caused about two-thirds of all infant deaths in 2012 (**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 2012. There were 57 resident fetal deaths and 71 resident infant deaths in Montana in 2012.

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/vitals/tats/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/vitals/tats/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/vitals/tats/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 that will likely affect the risk of mortality. Crude cause-specific rates express the frequency of mortality from a certain underlying cause of death as a proportion of the resident population. They express the risk (average chance) of dying from the specific cause of death cited. They are useful in making comparisons, within a single resident population, of the mortality risks associated with different causes. However, their use for comparisons between populations—the Montana resident population in different years, for instance—is limited.

In the past, the resident population of Montana (and of the nation) was considerably younger than it is now; younger residents represented a smaller percentage of the population in the early years of the 21st Century than they did even a few decades before. Because the resident populations of Montana in different years had different age compositions and contained many different individuals, they can be considered different populations. In such cases, age-adjustment is helpful for a more meaningful comparison of mortality rates in the same geographic area at different times.

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 “adjust” for differences in the age compositions of resident populations in different years by applying observed (i.e. actual) 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 merely to an aging population or whether some other factors are involved.

For instance, one can compare the Montana age-adjusted death rates for heart disease in different years in order to identify any trends in mortality. It is inappropriate, however, to compare the age-adjusted rate for heart disease to that for cancer within any given year, or from one year to another. Crude rates are the appropriate tool for such a job.

While it is tempting to be concerned with the numerical value of the age-adjusted rate, this is also inappropriate because of the sensitivity of the rate’s quantitative value to the somewhat arbitrary choice of a standard population.

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/vitals/tats/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, 2003-2012

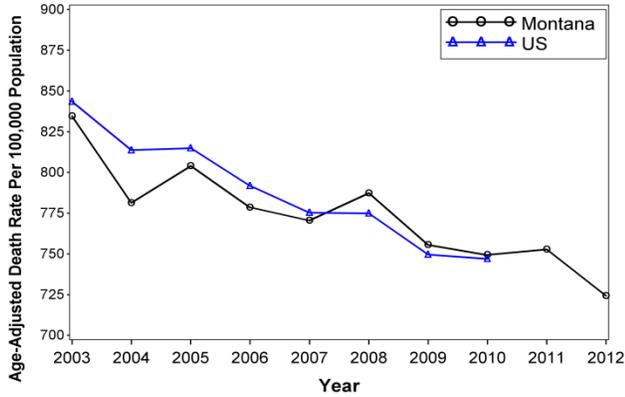


Figure 11
Age-Specific Death Rates for
All Causes
Montana Residents, 2012

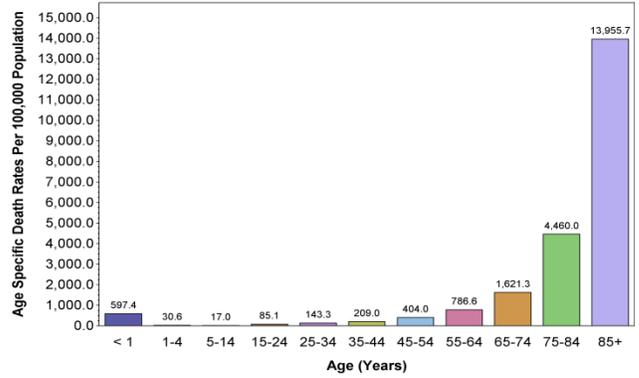


Figure 12
Age-Adjusted Death Rates for
Diseases of Heart
Montana and U.S. Residents, 2003-2012

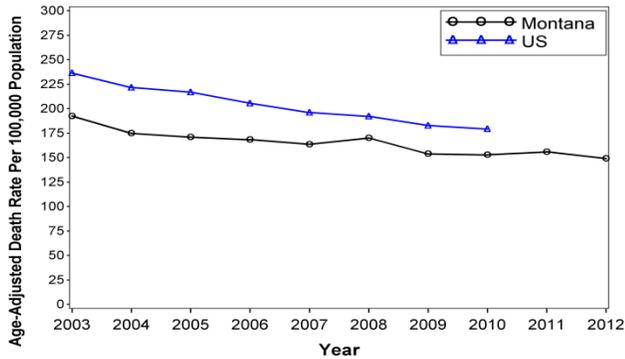


Figure 13
Age-Specific Death Rates for
Diseases of Heart
Montana Residents, 2012

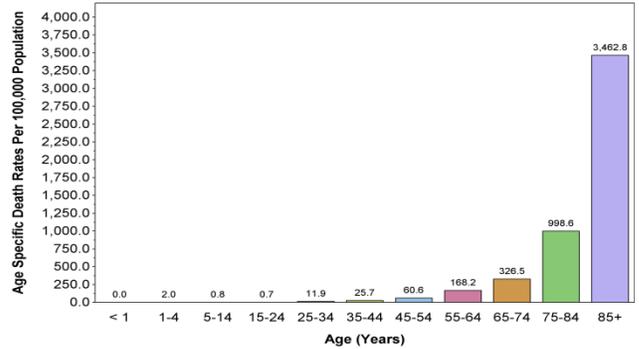


Figure 14
Age-Adjusted Death Rates for
Malignant Neoplasms (Cancer)
Montana and U.S. Residents, 2003-2012

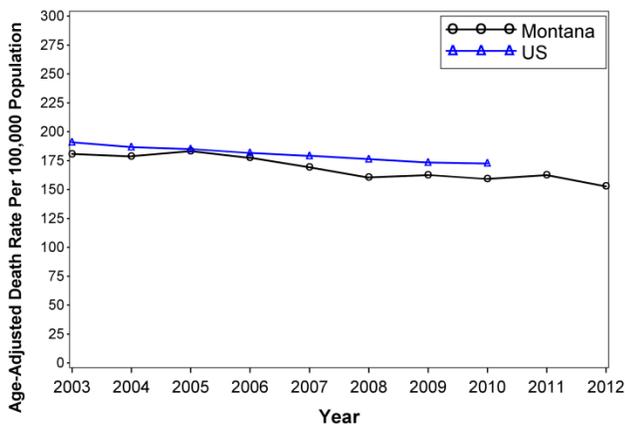


Figure 15
Age-Specific Death Rates for
Malignant Neoplasms (Cancer)
Montana Residents, 2012

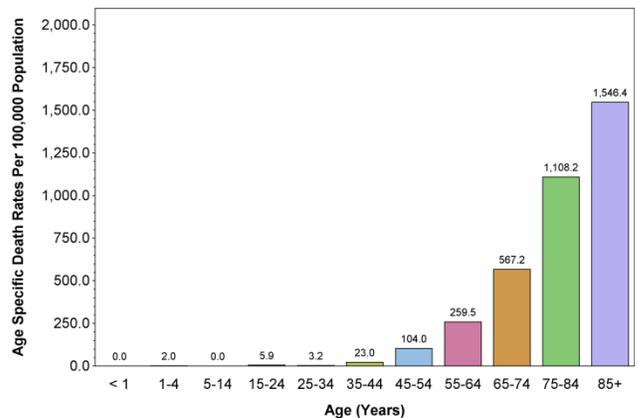


Figure 16
Age-Adjusted Death Rates for
Cerebrovascular Diseases
Montana and U.S. Residents, 2003-2012

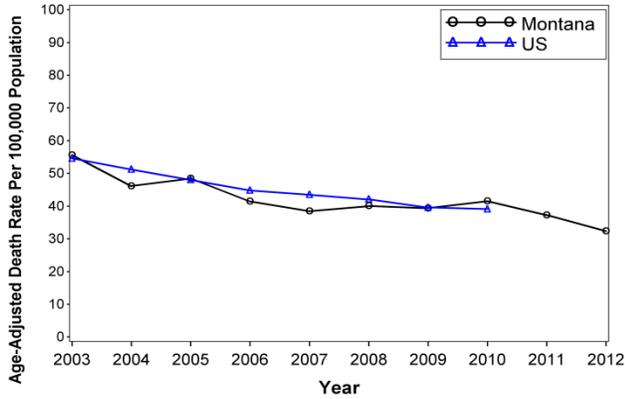


Figure 17
Age-Specific Death Rates for
Cerebrovascular Diseases
Montana Residents, 2012

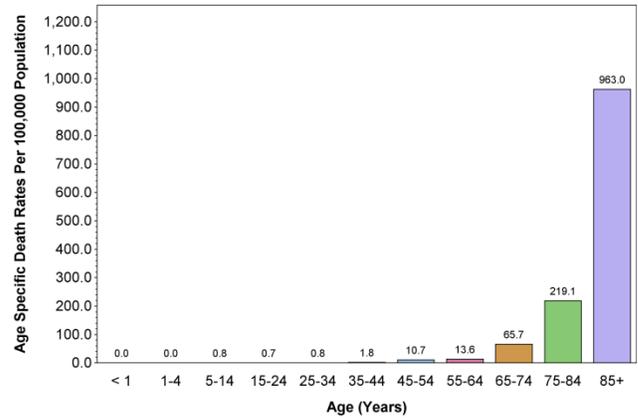


Figure 18
Age-Adjusted Death Rates for
Chronic Lower Respiratory Diseases
Montana and U.S. Residents, 2003-2012

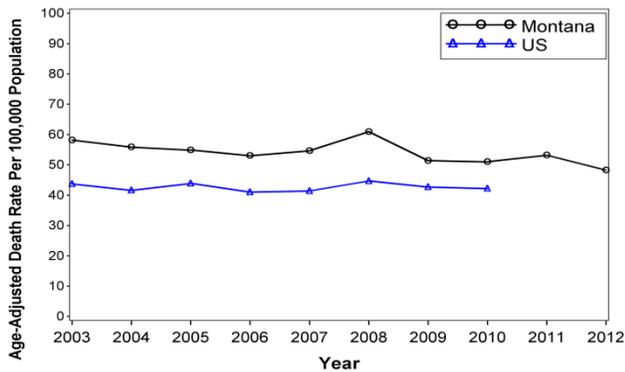


Figure 19
Age-Specific Death Rates for
Chronic Lower Respiratory Diseases
Montana Residents, 2012

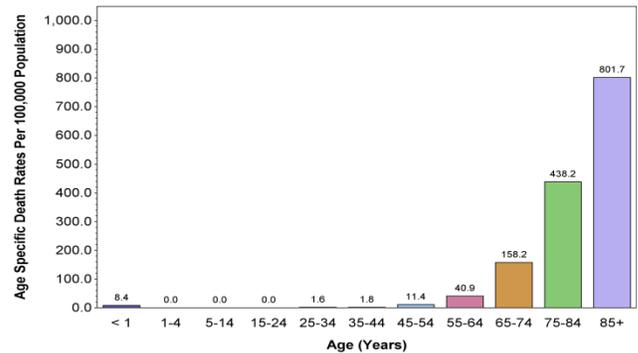


Figure 20
Age-Adjusted Death Rates for
Accidents (Unintentional Injuries)
Montana and U.S. Residents, 2003-2012

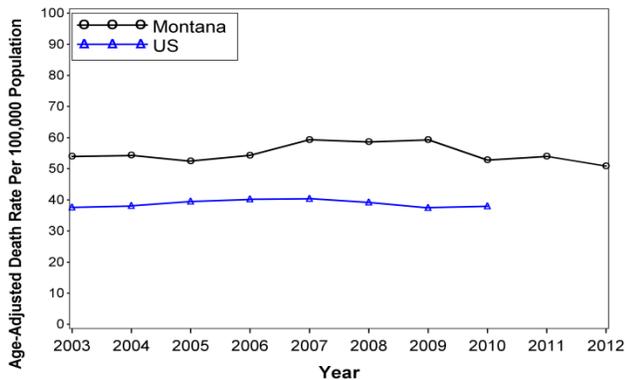


Figure 21
Age-Specific Death Rates for
Accidents (Unintentional Injuries)
Montana Residents, 2012

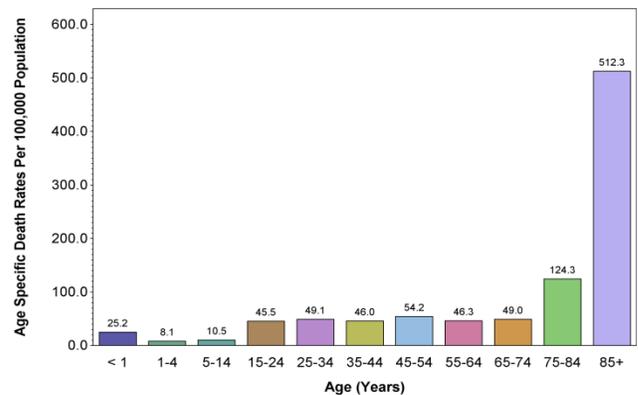


Figure 22

**Age-Adjusted Death Rates for Motor Vehicle Accidents
Montana and the U.S. Residents, 2003-2012**

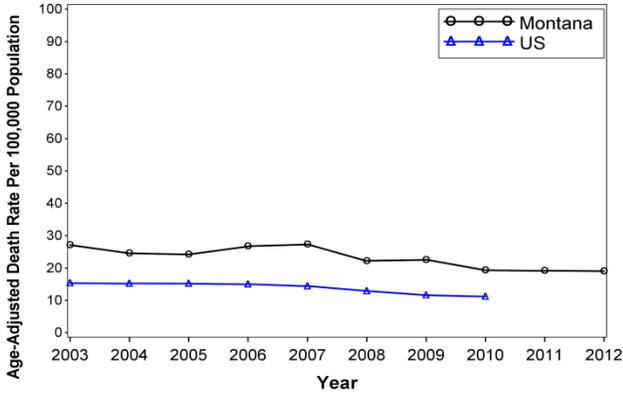


Figure 24

**Age-Adjusted Death Rates for Non-Motor-Vehicle Accidents
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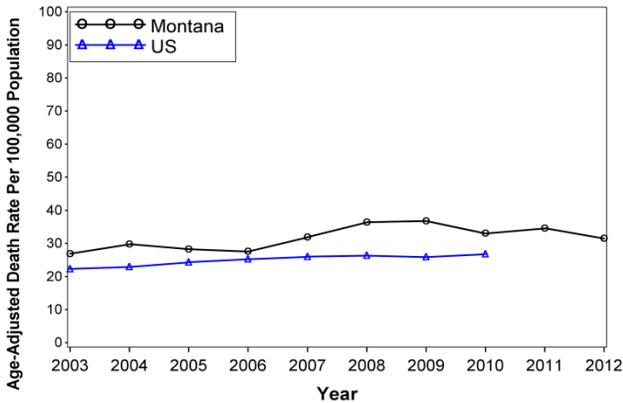


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**Age-Adjusted Death Rates for Influenza and Pneumonia
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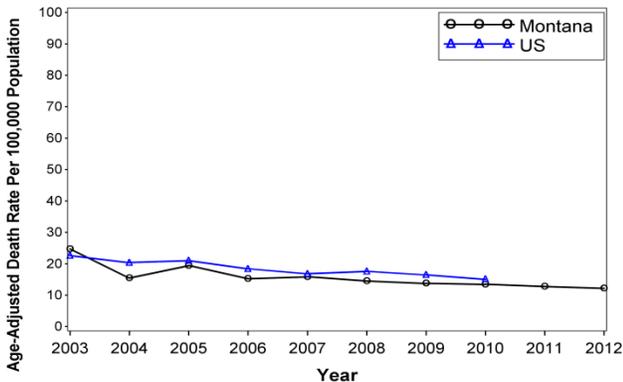


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**Age-Specific Death Rates for Motor Vehicle Accidents
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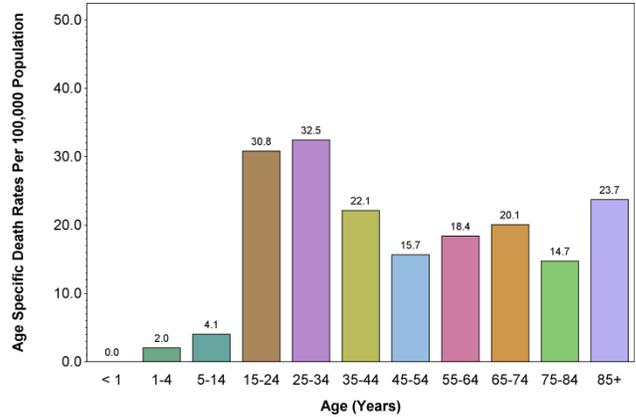


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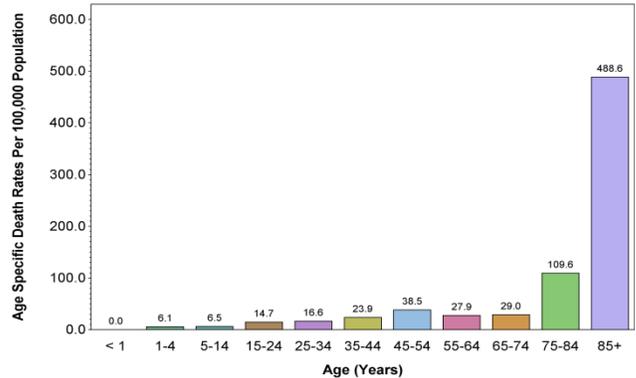


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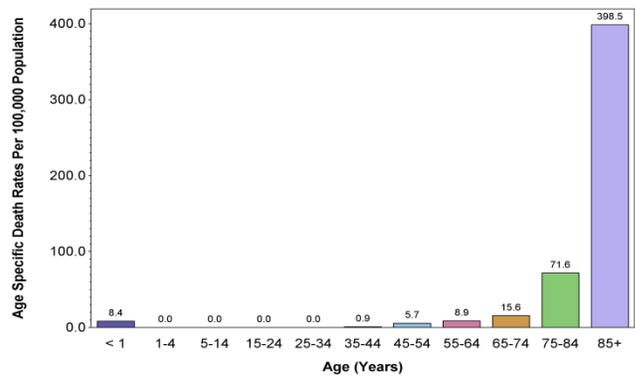


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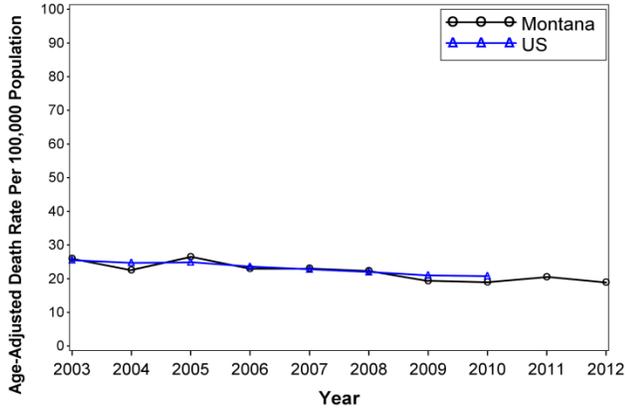


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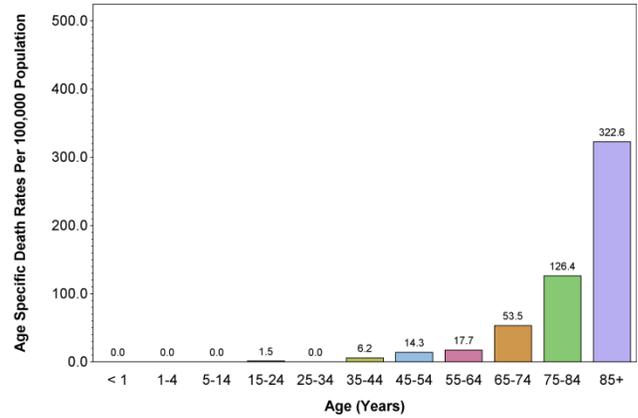


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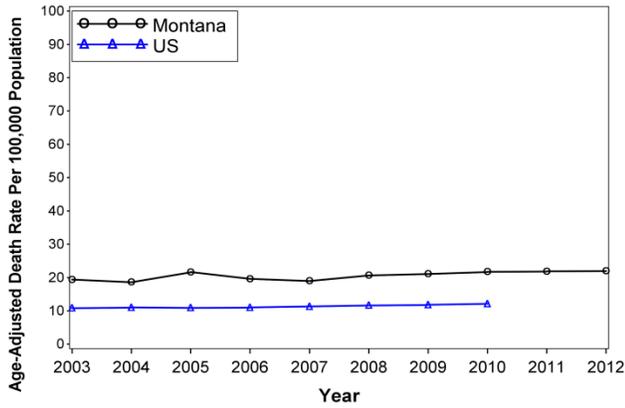


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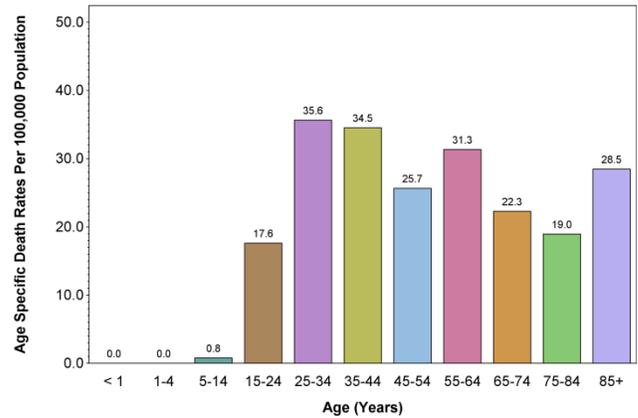


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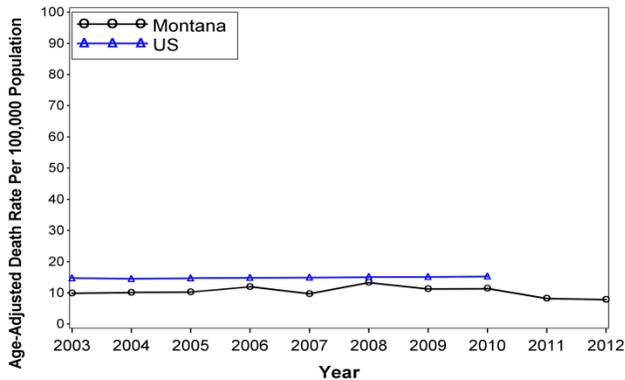


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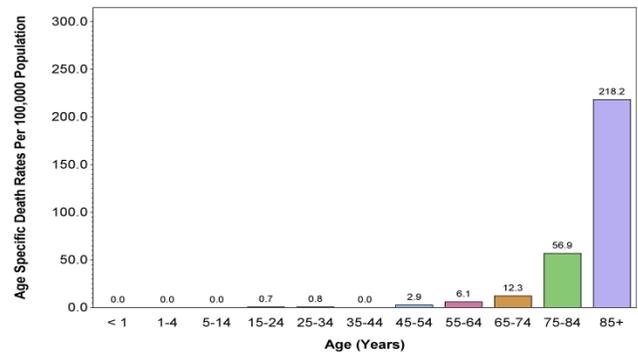


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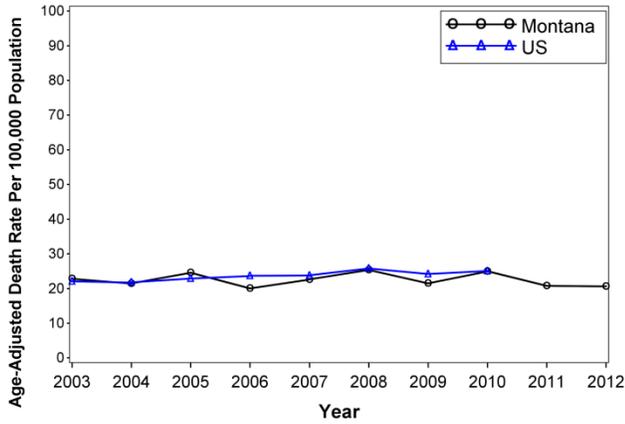


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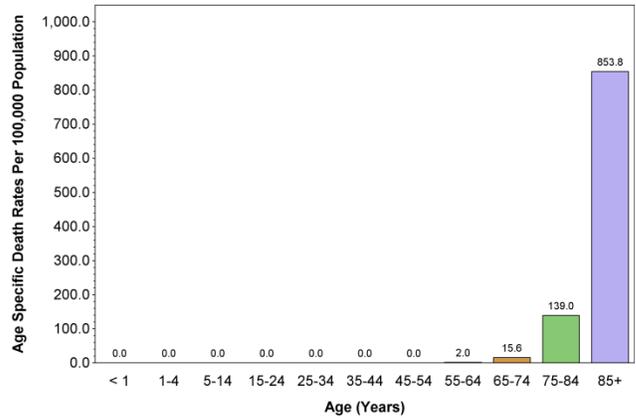


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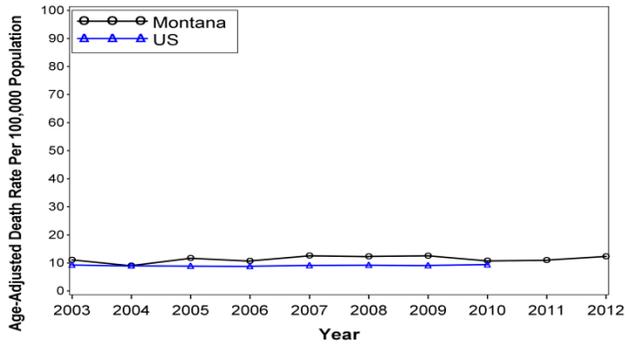


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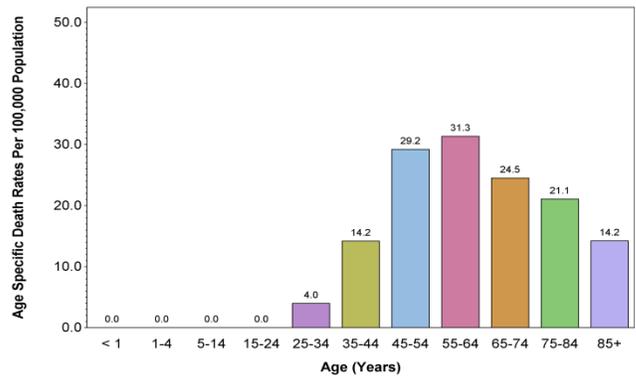


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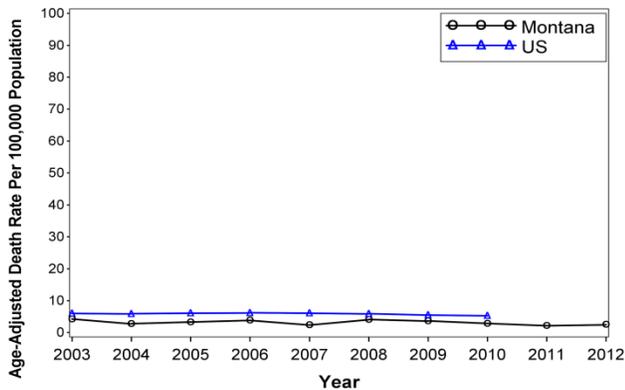
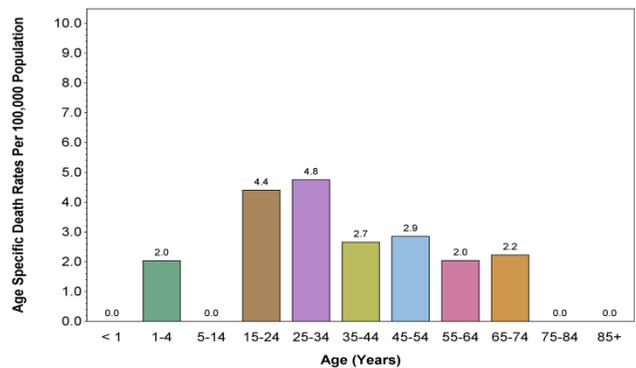


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In all years displayed, Montana's overall (i.e. all-cause) age-adjusted death rates (**Figure 10**) are below or just slightly above those for the U.S. and both have declined over time. Both sets of rates trend in the same direction, but the state's 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 below those for the U.S. for many of the chronic diseases displayed; Montana's rates for heart disease (**Figure 12**) 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) 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**). Montana's rate for influenza and pneumonia also compares favorably to the U.S. rate (**Figure 26**), with the Montana rate being the higher of the two in only one year.

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 downwards, but the rate remains nearly twice as high as 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 is often nearly twice the U.S. rate for the period shown. Montana's homicide rate is neither increasing nor decreasing (**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, congenital malformations and—most strikingly—the traumatic causes of death (suicide, homicide, and accident). Three and three quarters as many males as females committed suicide in this five-year period. More than twice as many males as females died of homicide. About three quarters more males than females died of accident. Of suicide victims, about four-fifths were males

On the other hand, more females than males died of influenza and pneumonia. 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, 2008-2012.

Cause of Death	All Races		White		AI/AN		Other Or Unknown	
	Male	Female	Male	Female	Male	Female	Male	Female
All Causes	22,699	21,586	21,249	20,359	1,337	1,128	113	99
HIV Infection	22	5	19	4	2	1	1	-
Cancer	5,119	4,474	4,904	4,251	199	199	16	24
Diabetes	629	556	558	484	65	69	6	3
Alzheimer's Disease	446	924	434	911	9	11	3	2
Heart Disease	5,249	4,169	4,992	3,988	234	162	23	19
Cerebrovascular Disease	905	1,370	862	1,325	35	39	8	6
Atherosclerosis	55	53	52	51	2	2	1	-
Influenza And Pneumonia	385	438	364	406	19	31	2	1
Chronic Lower Respiratory Diseases	1,549	1,575	1,495	1,523	49	52	5	-
Chronic Liver Disease And Cirrhosis	410	257	321	172	87	83	2	2
Nephritis, Nephrotic Syndrome & Nephrosis	276	335	261	307	14	27	1	1
Congenital Malformations & Chromosomal Anomalies	100	78	88	63	11	15	1	-
Conditions Originating In Perinatal Period	69	65	52	56	15	8	2	1
Sudden Infant Death Syndrome	31	32	22	27	8	4	1	1
Accidents	1,818	1,054	1,583	927	223	117	12	10
Motor Vehicle Accidents	693	326	589	261	98	59	6	6
Non-Motor Vehicle Accidents	1,125	728	994	666	125	58	6	4
Suicide	868	231	791	200	72	25	5	6
Homicide	100	47	71	39	28	8	1	-
Other Causes	4,668	5,923	4,380	5,625	265	275	23	23

As mentioned in the Technical Overview of this report, the Montana death certificate, since 2003, records race in greater detail than in the past. 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 mortality reference tables. This different manner of counting deaths by race could very possibly alter the outcome of age-specific or cause-specific mortality ratios calculated for the various races and affect apparent racial disparities.

Accidents caused a greater proportion of the deaths among the young than the old. They accounted for about a fifth of the deaths of those 14 years of age or younger, about half of the deaths of those between the ages of 15 and 24, and about two fifths of those between the ages of 25 and 34 years. By contrast, accidents accounted for less than 5% 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 fewer than 1% of decedents 65 years of age or over.

In the period 2008-2012, 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 the ages 45 to 84 years, accounting for about half of the deaths in that age group. However, for the age categories 85 and older, heart disease accounted for about a quarter of the deaths, with cancer causing 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 of its counties in **Table S-4**.

Table 3. Frequency of Death by Selected Leading Causes of Death and Age, Montana Residents, 2008-2012.

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	44,285	370	85	128	632	823	1,180	3,033	5,326	7,262	10,976	14,470
HIV Infection	27	-	-	-	-	-	1	4	18	2	1	1
Cancer	9,593	1	6	15	31	43	126	723	1,787	2,522	2,661	1,678
Diabetes	1,185	1	-	-	4	8	30	98	156	258	305	325
Alzheimer's Disease	1,370	-	-	-	-	-	-	1	10	74	378	907
Heart Disease	9,418	4	6	2	10	43	120	532	1,128	1,481	2,427	3,665
Cerebrovascular Disease	2,275	2	-	1	2	6	21	62	129	300	655	1,097
Atherosclerosis	108	-	-	-	-	-	-	3	14	10	28	53
Influenza And Pneumonia	823	3	1	2	1	6	6	47	64	83	176	434
Chronic Lower Respiratory Diseases	3,124	1	-	-	2	4	7	82	269	750	1,148	861
Chronic Liver Disease And Cirrhosis	667	-	-	-	2	26	76	201	194	111	47	10
Nephritis, Nephrotic Syndrome & Nephrosis	611	-	2	-	1	3	8	19	32	72	195	279
Congenital Malformations & Chromosomal Anomalies	178	88	8	2	5	6	11	11	24	9	7	7
Conditions Originating In Perinatal Period	134	131	1	1	-	-	1	-	-	-	-	-
Sudden Infant Death Syndrome	63	63	-	-	-	-	-	-	-	-	-	-
Accidents	2,872	11	32	73	338	327	331	411	301	244	309	495
Motor Vehicle Accidents	1,019	1	9	44	231	190	135	139	116	83	44	27
Non-Motor Vehicle Accidents	1,853	10	23	29	107	137	196	272	185	161	265	468
Suicide	1,099	-	-	11	147	192	161	206	209	86	54	33
Homicide	147	2	4	4	32	25	23	34	12	7	3	1
Other Causes	10,591	63	25	17	57	133	255	585	995	1,254	2,582	4,625

Years of Potential Life Lost

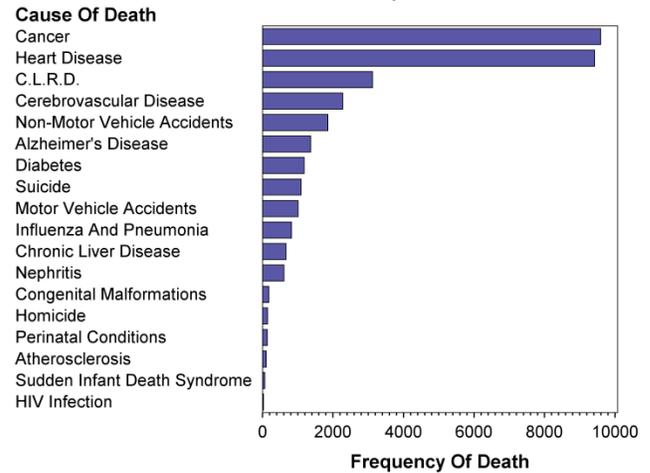
The traditional approach to cause of death analysis relies on frequency of death. This perspective emphasizes causes of death that affect the elderly, simply because of the larger number of such deaths. Years of potential life lost (YPLL) is an alternative measure that highlights premature, preventable, 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 2012 were cancer (21.7% of all resident deaths), heart disease (21.1%), chronic lower respiratory diseases (6.8%), accidents (6.2%) cerebrovascular disease (4.6%) Alzheimer’s disease (3.0%), suicide (2.5%), diabetes (2.6%), influenza and pneumonia (1.7%), 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 2008-2012 (Figure 40). While the numbers who died of

Figure 40

FREQUENCY OF DEATH BY CAUSE OF DEATH MONTANA RESIDENTS, 2008-2012



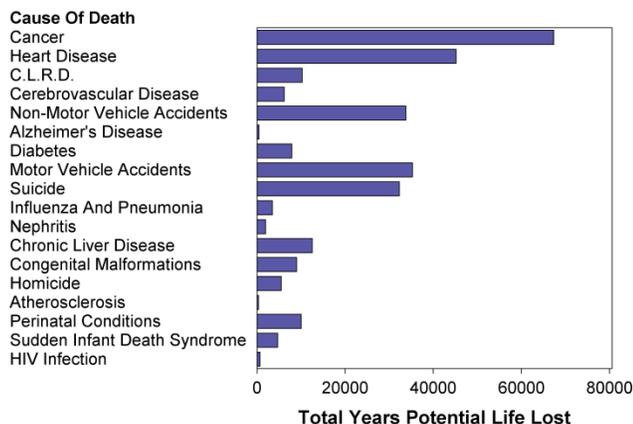
these causes are larger than those for the single year of 2012, the proportions and rankings for the causes are remarkably similar. Cancer and heart disease clearly outpace the other specified causes, with each accounting for a little more than a fifth of all decedents. Accidents, C.L.R.D., and cerebrovascular disease are usually in the five to seven percent range,

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, 2008-2012



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.

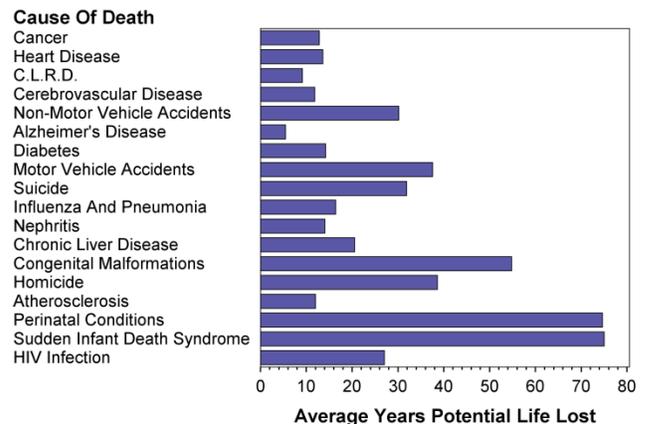
The YPLL-75 perspective re-orders the ranking of the leading causes of death, thus highlighting areas the CDC has said "provide the greatest potential for health improvement" (Morbidity and Mortality Weekly Report, June 20, 1997). Frequency of accidental

(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 first in terms of total YPLL-75, indicating 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.

Figure 42

Average Years of Potential Life Lost Before Age 75
By Cause of Death
Montana Residents, 2008-2012



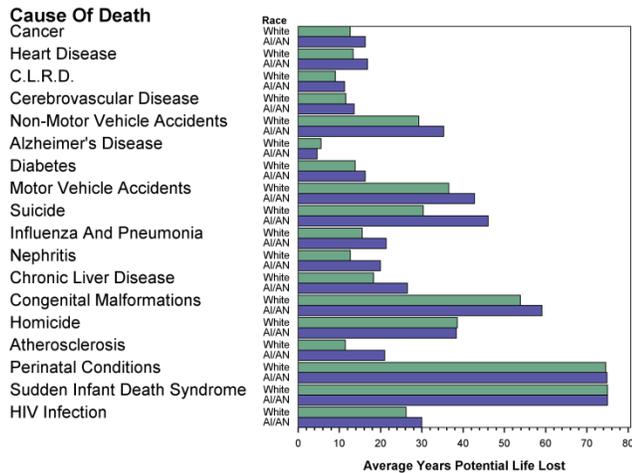
The category sudden infant death syndrome (SIDS), a cause of death diagnosis reserved for infants alone, showed the greatest average loss to an individual (the full 75 years lost.) This was followed closely by conditions originating in the perinatal period, and congenital anomalies, causes which claim 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 20 years shorter than whites. Some of the more notable causes of death affecting American Indians in this way include suicide (22 years), influenza and pneumonia (20 years), atherosclerosis (19.5 years), accidents (19 years), nephritis (16 years), cerebrovascular disease (15), diabetes (13 years), and heart disease (13 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.

Figure 43

**Average Years of Potential Life Lost Before Age 75
By Cause of Death and Race
Montana Residents, 2008-2012**



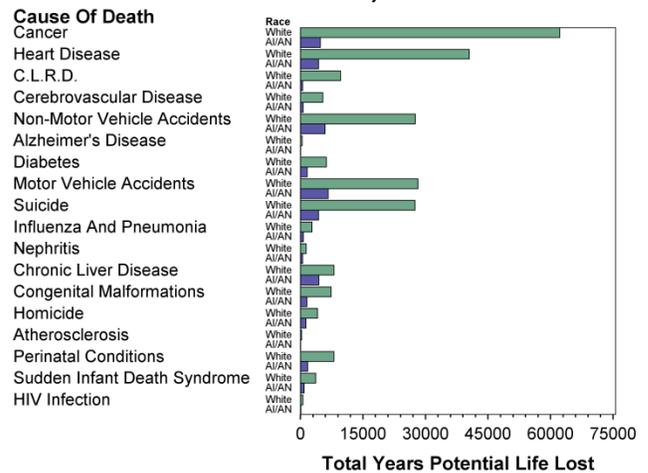
Note: green bars indicate White; blue bars indicate American Indian/Alaska Native

Conversely, 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, (21.1% of total YPLL), accidents (19.0%), heart disease (13.7%), suicide (9.3%), C.L.R.D. (3.3%), and chronic liver disease and cirrhosis (2.7%) are the causes of death impacting the white population most, while accidents (25.1%), cancer (9.5%), chronic liver disease and cirrhosis (8.8%), suicide (8.7%), heart disease (8.7%), and certain conditions originating in the perinatal period (3.4%) impact the American Indian population most. While five of these six causes are

identical, 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, 2008-2012**



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 2,031 induced abortions performed in Montana in 2012. Of those, 1,802 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, and continuing on to the early eighties, the ratio of such abortions performed in Montana to the number of live-born babies delivered in the state increased rapidly; the ratio was 129.9 in 1975 and rose to a peak of 295.6 in 1983 (Figure 45). The trend fell and rose to a near-peak (295.2) in 1990. From 1990 to the present, it has generally trended downward, varying unpredictably in some years. The ratio was 168.3 in 2012, 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.

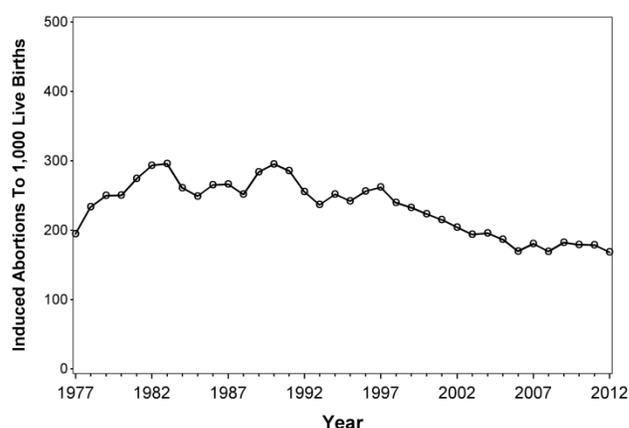
Table S-5 shows the frequency of induced abortions—as well as that of live births and fetal deaths, the other pregnancy outcomes reported to the Department—by age and county of residence. The frequency of induced abortion in this table is for Montana residents receiving the procedure in Montana.

In 2012, there were no patient deaths in Montana attributable to the procedure of induced abortion. This has been the case in Montana since 1974, when abortion reporting began.

Of the 2,147 induced abortion procedures performed in Montana in 2011, seven resulted in reported complications. Five patients had retained products, with one of those patients also requiring the additional procedure of suction curettage. Two medical (drug-induced) abortions failed and resulted in continued pregnancy.

Figure 45

**Ratio of Induced Abortions to Live Births
Montana Occurrences, 1977-2012**



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D-6	Frequency of Infant Death by Age and up to 130 Selected Underlying Causes – Montana Residents, 2012
D-7	Frequency of Infant Death by Age in Days and Five-Year Infant Mortality Rate – Montana Residents, 1991-2012
D-8	Frequency of Maternal and Late Maternal Deaths by Year – Montana Residents, 2003-2012
D-9	Age at Death and Years of Potential Life Lost Before Age 75 by Cause of Death – Central Tendency and Dispersion – Montana Residents, 2007-2012
F-1	Frequency of Fetal Death by Completed Weeks of Gestation and up to 124 Selected Underlying Causes – Montana Residents, 2012

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, 1910-2012

Year	Estimated Midyear	Deaths ¹		Live Births ¹		Fetal Deaths ¹		Infant Deaths ¹		Maternal Deaths ¹		Marriages ²		Marital Terminations ²		Induced Abortions ²	
		Number	Rate+	Number	Rate+	Number	Ratio**	Number	Rate**	Number	Rate++	Number	Rate+	Number	Rate+	Number	Ratio**
2012	1,005,141	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	997,667	9,005	9.0	12,039	12.1	62	5.1	69	5.7	4	33.2	7,754	7.8	3,091	3.1	2,147	178.7
2010	990,735	8,803	8.9	12,058	12.2	52	4.3	71	5.9	1	8.3	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	40.7	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	7.9	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	16.1	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	8.6	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	17.4	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	17.6	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	18.3	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	9.1	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	9.3	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	9.2	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	8.7	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	8.6	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	12,228	15.5	95	7.5	122	9.6	2	15.7	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	7.1	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	28.5	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	6.9	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	14.1	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	28.5	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	22.1	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	7.5	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	24.9	7,331	9.8	4,286	5.7	1,535	129.9
1974	735,000	6,552	8.9	12,273	16.7	125	10.2	202	16.5	1	8.1	7,741	10.5	3,940	5.4	N/A	-
1973	721,000	6,870	9.5	11,392	15.8	105	9.2	222	19.5	-	-	7,751	10.8	3,772	5.2	N/A	-
1972	719,000	6,896	9.6	11,444	15.9	129	11.3	225	19.7	4	35.0	7,674	10.7	3,609	5.0	N/A	-
1971	710,000	6,860	9.7	12,347	17.4	127	10.3	267	21.6	-	-	7,128	10.0	3,366	4.7	N/A	-
1970	694,409	6,597	9.5	12,622	18.2	140	11.1	272	21.5	3	23.8	6,919	10.0	3,047	4.4	N/A	-
1965	706,000	6,578	9.3	13,641	19.3	177	13.0	338	24.8	2	14.7	4,688	6.6	2,002	2.8	N/A	-
1960	674,767	6,525	9.7	17,448	25.9	190	10.9	435	24.9	5	28.7	5,883	8.7	2,003	3.0	N/A	-
1955	636,000	6,115	9.6	17,454	27.4	221	12.7	433	24.8	5	28.6	6,514	10.2	1,909	3.0	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	-
1945	504,600	5,414	10.7	10,601	21.0	184	17.4	363	34.2	17	160.4	8,147	16.1	2,380	4.7	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	-
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	-
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	-
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	-
1920	548,339	5,289	9.6	11,862	21.6	N/A	-	862	72.7	104	876.7	N/A	-	N/A	-	N/A	-
1915	468,067	5,072	10.8	11,132	23.8	N/A	-	816	73.3	91	817.5	N/A	-	N/A	-	N/A	-
1910	376,053	3,999	10.6	6,124	16.3	N/A	-	714	116.6	62	12.4	N/A	-	N/A	-	N/A	-

*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.

²Data 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, 2012**

County	Deaths		Live Births		Fetal Deaths		Infant Deaths		Maternal Deaths	
	Occ.	Res.	Occ.	Res.	Occ.	Res.	Occ.	Res.	Occ.	Res.
Montana Total	8,990	8,876	12,071	12,052	57	57	60	71	-	-
Beaverhead	86	79	92	92	**	**	-	-	-	-
Big Horn	76	134	56	245	**	**	-	-	-	-
Blaine	39	62	**	113	-	**	-	**	-	-
Broadwater	31	56	-	56	-	-	-	**	-	-
Carbon	70	93	**	76	-	**	-	-	-	-
Carter	12	16	-	6	-	-	**	**	-	-
Cascade	914	783	1,514	1,153	6	5	14	7	-	-
Choteau	50	59	**	42	-	-	**	**	-	-
Custer	141	140	254	162	**	-	**	**	-	-
Daniels	14	13	-	14	-	-	-	**	-	-
Dawson	91	101	89	99	**	**	-	-	-	-
Deer Lodge	103	133	50	63	-	-	**	-	-	-
Fallon	32	35	**	46	-	**	-	-	-	-
Fergus	145	151	97	119	-	-	-	-	-	-
Flathead	842	772	1,157	1,064	5	5	**	**	-	-
Gallatin	491	479	1,241	1,117	**	**	**	**	-	-
Garfield	10	14	-	14	-	-	-	-	-	-
Glacier	86	132	165	247	-	-	**	**	-	-
Golden Valley	**	13	-	7	-	-	-	-	-	-
Granite	30	35	-	12	-	-	-	-	-	-
Hill	135	154	404	299	6	**	-	-	-	-
Jefferson	65	101	-	84	-	-	-	-	-	-
Judith Basin	6	18	**	18	-	-	-	-	-	-
Lake	203	254	305	383	**	**	**	**	-	-
Lewis & Clark	551	508	761	732	**	**	-	5	-	-
Liberty	18	20	-	18	-	-	-	-	-	-
Lincoln	201	237	139	186	-	-	**	**	-	-
McCone	15	13	-	11	-	-	-	-	-	-
Madison	87	83	**	58	-	-	-	-	-	-
Meagher	21	28	-	20	-	-	-	-	-	-
Mineral	47	50	**	50	-	-	-	-	-	-
Missoula	962	757	1,588	1,189	6	5	**	**	1,189	-
Musselshell	43	49	**	44	-	-	-	-	-	-
Park	127	136	105	144	-	-	**	**	-	-
Petroleum	**	5	-	**	-	-	-	-	-	-
Phillips	40	54	**	45	-	**	-	-	-	-
Pondera	59	70	44	64	-	-	-	-	-	-
Powder River	14	18	-	14	-	-	-	-	-	-
Powell	59	67	-	47	-	-	-	-	-	-
Prairie	16	20	**	14	-	-	-	-	-	-
Ravalli	303	390	197	383	**	**	**	-	-	-
Richland	104	108	148	146	-	-	**	**	-	-
Roosevelt	74	106	148	224	**	**	**	**	-	-
Rosebud	53	71	19	168	-	**	-	-	-	-
Sanders	100	112	47	88	-	-	-	**	-	-
Sheridan	40	47	**	43	-	-	-	**	-	-
Silver Bow	405	394	458	392	5	5	**	**	-	-
Stillwater	66	82	**	75	-	**	-	-	-	-
Sweet Grass	31	32	-	35	-	-	-	-	-	-
Teton	48	59	**	77	-	-	-	**	-	-
Toole	40	46	34	51	-	-	**	-	-	-
Treasure	**	5	-	9	-	-	-	-	-	-
Valley	68	85	128	79	**	**	-	-	-	-
Wheatland	27	29	-	22	-	-	-	-	-	-
Wibaux	18	13	**	11	-	-	-	-	-	-
Yellowstone	1,671	1,353	2,815	2,075	12	6	18	16	-	-
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 - 2012**

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
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, 2012

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	1,005,141	-	9,346	-	13,061	-	6,683	-	5,756	-	10,127	-	1,177	-	81,723	-
Natural Increase*	Natural Increase	3,176	3.2	13	‡	111	0.0	51	0.0	‡	‡	-17	‡	-10	‡	370	0.0
Births - Residence	Live Births, Total	12,052	12.0	92	9.8	245	18.8	113	16.9	56	9.7	76	7.5	6	‡	1,153	14.1
	Live Births, Male	6,159	12.2	44	19.2	127	37.8	49	34.0	29	19.0	39	14.9	†	‡	620	28.1
	Live Births, Female	5,893	11.8	48	20.2	118	37.2	64	33.6	27	19.9	37	15.1	†	‡	533	28.3
	Live Births, Out Of Wedlock	4,337	359.9	27	293.5	168	685.7	60	531.0	19	‡	29	381.6	†	‡	410	355.6
Deaths - Residence	Deaths (Excluding Fetal), Total	8,876	8.8	79	8.5	134	10.3	62	9.3	56	9.7	93	9.2	16	‡	783	9.6
	Deaths (Excluding Fetal), Male	4,603	9.1	46	9.6	75	11.6	32	9.6	25	8.5	57	11.2	9	‡	386	9.4
	Deaths (Excluding Fetal), Female	4,273	8.5	33	7.2	59	9.0	30	8.9	31	11.0	36	7.2	7	‡	397	9.8
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)	71	5.9	-	-	-	-	†	‡	†	‡	-	-	†	‡	7	‡
	Neonatal (Under 28 Days)	41	3.4	-	-	-	-	†	‡	†	‡	-	-	-	-	†	‡
	Postneonatal (28 Days - 1 Year)	30	2.5	-	-	-	-	-	-	-	-	-	-	†	‡	†	‡
	Fetal	57	4.7	†	‡	†	‡	†	‡	-	-	†	‡	-	-	5	‡
	Perinatal	98	8.1	†	‡	†	‡	†	‡	†	‡	†	‡	-	-	9	‡
Leading Causes of Death - Residence***	(#) Malignant neoplasms	1,927	191.7	19	‡	16	‡	15	‡	13	‡	23	227.1	†	‡	186	227.6
	(#) Diseases of heart	1,876	186.6	19	‡	23	176.1	12	‡	16	‡	14	‡	†	‡	151	184.8
	(#) Chronic lower respiratory	600	59.7	7	‡	6	‡	5	‡	†	‡	6	‡	†	‡	54	66.1
	(#) Accidents (unintentional injuries)	551	54.8	6	‡	16	‡	5	‡	5	‡	9	‡	†	‡	49	60.0
	(61#) Cerebrovascular diseases	406	40.4	†	‡	7	‡	†	‡	†	‡	†	‡	†	‡	37	45.3
	(48#) Alzheimer's disease	263	26.2	-	-	-	-	-	-	†	‡	†	‡	-	-	42	51.4
	(43#) Diabetes mellitus	231	23.0	-	-	7	‡	†	‡	†	‡	†	‡	†	‡	25	30.6
	(#) Intentional self-harm (suicide)	226	22.5	†	‡	†	‡	†	‡	†	‡	†	‡	-	-	23	28.1
	(#) Influenza and pneumonia	155	15.4	-	-	†	‡	†	‡	†	‡	†	‡	-	-	6	‡
	(#) Chronic liver disease and	143	14.2	†	‡	9	‡	-	-	-	-	-	-	†	‡	7	‡
Births - Occurrence	Live Births, Total	12,071	12.0	92	9.8	56	4.3	†	‡	-	-	†	‡	-	-	1,514	18.5
Deaths - Occurrence	Deaths (Excluding Fetal), Total	8,990	8.9	86	9.2	76	5.8	39	5.8	31	5.4	70	6.9	12	‡	914	11.2
	Accidental	595	59.2	8	‡	11	‡	†	‡	†	‡	11	‡	†	‡	51	0.6
	Motor Vehicle	220	21.9	†	‡	9	‡	†	‡	†	‡	7	‡	†	‡	9	‡
	Other Accidental	375	37.3	5	‡	†	‡	†	‡	†	‡	†	‡	†	‡	42	0.5
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	60	5.0	-	-	-	-	-	-	-	-	-	-	†	‡	14	‡
Marriages - Occurrence	Marriages Solumnized	7,850	7.8	69	7.4	67	5.1	29	4.3	53	9.2	171	16.9	10	‡	629	7.7
	Licenses Issued	7,850	7.8	67	7.2	72	5.5	28	4.2	41	7.1	141	13.9	6	‡	655	8.0
Marital Terminations - Occurrence	Marital Terminations	3,937	3.9	31	3.3	15	‡	13	‡	9	‡	29	2.9	†	‡	428	5.2

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero. ** 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.
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TABLE S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2012

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	5,904	-	11,888	-	1,786	-	9,249	-	9,227	-	3,024	-	11,435	-	91,633	-	
Natural Increase*	-17	‡	22	0.0	†	‡	-2	‡	-70	0.0	11	‡	-32	0.0	292	0.0	
Births - Residence	Live Births, Total	42	7.1	162	13.6	14	‡	99	10.7	63	6.8	46	15.2	119	10.4	1,064	11.6
	Live Births, Male	22	14.3	91	27.3	8	‡	47	21.0	37	12.9	20	30.1	60	20.7	551	23.3
	Live Births, Female	20	14.1	71	27.2	6	‡	52	21.8	26	14.5	26	30.8	59	20.9	513	23.1
	Live Births, Out Of Wedlock	10	‡	58	358.0	†	‡	34	343.4	26	412.7	7	‡	37	310.9	318	298.9
Deaths - Residence	Deaths (Excluding Fetal), Total	59	10.0	140	11.8	13	‡	101	10.9	133	14.4	35	11.6	151	13.2	772	8.4
	Deaths (Excluding Fetal), Male	21	7.2	73	12.3	7	‡	64	13.6	66	13.5	18	‡	84	14.6	415	9.1
	Deaths (Excluding Fetal), Female	38	12.8	67	11.2	6	‡	37	8.2	67	15.4	17	‡	67	11.8	357	7.8
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)	†	‡	†	‡	†	‡	-	-	-	-	-	-	-	-	†	‡
	Neonatal (Under 28 Days)	†	‡	†	‡	†	‡	-	-	-	-	-	-	-	-	†	‡
	Postneonatal (28 Days - 1 Year)	-	-	†	‡	-	-	-	-	-	-	-	-	-	-	†	‡
	Fetal	-	-	-	-	-	-	†	‡	-	-	†	‡	-	-	5	‡
Perinatal	†	‡	†	‡	†	‡	†	‡	-	-	†	‡	-	-	6	‡	
Leading Causes of Death - Residence***	(#) Malignant neoplasms	11	‡	29	243.9	†	‡	14	‡	33	357.6	7	‡	25	218.6	186	203.0
	(#) Diseases of heart	18	‡	32	269.2	†	‡	17	‡	32	346.8	13	‡	34	297.3	175	191.0
	(#) Chronic lower respiratory	5	‡	9	‡	-	-	5	‡	†	‡	†	‡	12	‡	52	56.7
	(#) Accidents (unintentional injuries)	†	‡	7	‡	†	‡	7	‡	7	‡	†	‡	8	‡	42	45.8
	(61#) Cerebrovascular diseases	†	‡	†	‡	-	-	5	‡	6	‡	†	‡	11	‡	39	42.6
	(48#) Alzheimer's disease	†	‡	†	‡	†	‡	7	‡	†	‡	-	-	†	‡	13	‡
	(43#) Diabetes mellitus	†	‡	5	‡	-	-	†	‡	†	‡	†	‡	†	‡	15	‡
	(#) Intentional self-harm (suicide)	†	‡	†	‡	-	-	†	‡	†	‡	-	-	†	‡	17	‡
	(#) Influenza and pneumonia	†	‡	†	‡	-	-	†	‡	†	‡	-	-	†	‡	19	‡
(#) Chronic liver disease and	-	-	6	‡	-	-	†	‡	-	-	-	-	†	‡	10	‡	
Births - Occurrence	†	‡	254	21.4	-	-	89	9.6	50	5.4	†	‡	97	8.5	1,157	12.6	
Deaths - Occurrence	Deaths (Excluding Fetal), Total	50	8.5	141	11.9	14	‡	91	9.8	103	11.2	32	10.6	145	12.7	842	9.2
	Accidental	†	‡	8	‡	†	‡	8	‡	5	‡	†	‡	8	‡	49	0.5
	Motor Vehicle	-	-	†	‡	-	-	†	‡	†	‡	-	-	5	‡	12	‡
	Other Accidental	†	‡	6	‡	†	‡	6	‡	†	‡	†	‡	†	‡	37	0.4
Infant Death - Occurrence	†	‡	†	‡	-	-	-	-	†	‡	-	-	-	-	†	‡	
Marriages - Occurrence	Marriages Solumnized	41	6.9	68	5.7	10	‡	59	6.4	54	5.9	18	‡	87	7.6	1,759	19.2
	Licenses Issued	32	5.4	69	5.8	9	‡	61	6.6	38	4.1	26	8.6	77	6.7	1,775	19.4
Marital Terminations - Occurrence	Marital Terminations	10	‡	51	4.3	9	‡	-	-	23	2.5	9	‡	51	4.5	472	5.2

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero.** 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, 2012

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	Population	92,614	-	1,261	-	13,711	-	839	-	3,109	-	16,366	-	11,401	-	2,024	-
Natural Increase*	Natural Increase	638	0.0	‡	‡	115	0.0	-6	‡	-23	0.0	145	0.0	-17	‡	‡	‡
Births - Residence	Live Births, Total	1,117	12.1	14	‡	247	18.0	7	‡	12	‡	299	18.3	84	7.4	18	‡
	Live Births, Male	534	23.3	8	‡	122	36.6	†	‡	5	‡	138	36.2	47	14.5	11	‡
	Live Births, Female	583	25.0	6	‡	125	35.5	†	‡	7	‡	161	36.9	37	15.0	7	‡
	Live Births, Out Of Wedlock	205	183.5	†	‡	179	724.7	†	‡	†	‡	148	495.0	23	273.8	†	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	479	5.2	14	‡	132	9.6	13	‡	35	11.3	154	9.4	101	8.9	18	‡
	Deaths (Excluding Fetal), Male	229	4.8	8	‡	78	11.6	7	‡	19	‡	84	10.2	56	9.7	10	‡
	Deaths (Excluding Fetal), Female	250	5.6	6	‡	54	7.8	6	‡	16	‡	70	8.6	45	8.0	8	‡
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)	†	‡	-	-	†	‡	-	-	-	-	-	-	-	-	-	-
	Neonatal (Under 28 Days)	†	‡	-	-	†	‡	-	-	-	-	-	-	-	-	-	-
	Postneonatal (28 Days - 1 Year)	†	‡	-	-	†	‡	-	-	-	-	-	-	-	-	-	-
	Fetal	†	‡	-	-	-	-	-	-	-	-	†	‡	-	-	-	-
	Perinatal	5	‡	-	-	†	‡	-	-	-	-	†	‡	-	-	-	-
Leading Causes of Death - Residence***	(#) Malignant neoplasms	96	103.7	5	‡	17	‡	†	‡	9	‡	28	171.1	28	245.6	†	‡
	(#) Diseases of heart	97	104.7	†	‡	23	167.7	†	‡	8	‡	44	268.9	21	184.2	6	‡
	(#) Chronic lower respiratory	23	24.8	†	‡	†	‡	†	‡	†	‡	12	‡	6	‡	†	‡
	(#) Accidents (unintentional injuries)	35	37.8	-	-	18	‡	†	‡	†	‡	11	‡	8	‡	-	-
	(61#) Cerebrovascular diseases	25	27.0	-	-	12	‡	†	‡	-	-	5	‡	†	‡	†	‡
	(48#) Alzheimer's disease	8	‡	-	-	†	‡	-	-	-	-	-	-	†	‡	-	-
	(43#) Diabetes mellitus	5	‡	-	-	10	‡	-	-	†	‡	†	‡	†	‡	-	-
	(#) Intentional self-harm (suicide)	16	‡	-	-	-	-	-	-	-	-	†	‡	†	‡	-	-
	(#) Influenza and pneumonia	15	‡	-	-	†	‡	-	-	-	-	†	‡	-	-	-	-
	(#) Chronic liver disease and	†	‡	-	-	7	‡	†	‡	†	‡	†	‡	†	‡	-	-
Births - Occurrence	Live Births, Total	1,241	13.4	-	-	165	12.0	-	-	-	-	404	24.7	-	-	†	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	491	5.3	10	‡	86	6.3	†	‡	30	9.6	135	8.2	65	5.7	6	‡
	Accidental	33	0.4	-	-	11	‡	-	-	†	‡	9	‡	7	‡	†	‡
	Motor Vehicle	11	‡	-	-	†	‡	-	-	-	-	6	‡	5	‡	-	-
	Other Accidental	22	0.2	-	-	8	‡	-	-	†	‡	†	‡	†	‡	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	†	‡	-	-	†	‡	-	-	-	-	-	-	-	-	-	-
Marriages - Occurrence	Marriages Solumnized	832	9.0	†	‡	81	5.9	-	-	24	7.7	96	5.9	56	4.9	9	‡
	Licenses Issued	892	9.6	†	‡	82	6.0	†	‡	21	6.8	100	6.1	28	2.5	7	‡
Marital Terminations - Occurrence	Marital Terminations	299	3.2	-	-	47	3.4	†	‡	12	‡	61	3.7	27	2.4	5	‡

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero. ** 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, 2012

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	28,986	-	64,876	-	2,392	-	19,491	-	1,701	-	7,733	-	1,924	-	4,167	-	
Natural Increase*	129	0.0	224	0.0	-2	‡	-51	0.0	-2	‡	-25	0.0	-8	‡		‡	
Births - Residence	Live Births, Total	383	13.2	732	11.3	18	‡	186	9.5	11	‡	58	7.5	20	10.4	50	12.0
	Live Births, Male	211	26.8	365	22.8	5	‡	97	18.9	6	‡	31	14.5	13	‡	29	23.1
	Live Births, Female	172	26.0	367	22.3	13	‡	89	19.3	5	‡	27	15.6	7	‡	21	25.0
	Live Births, Out Of Wedlock	215	561.4	243	332.0	5	‡	69	371.0	5	‡	17	‡	5	‡	17	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	254	8.8	508	7.8	20	8.4	237	12.2	13	‡	83	10.7	28	14.6	50	12.0
	Deaths (Excluding Fetal), Male	134	9.4	283	8.8	6	‡	139	14.1	6	‡	45	11.2	18	‡	26	12.0
	Deaths (Excluding Fetal), Female	120	8.2	225	6.9	14	‡	98	10.2	7	‡	38	10.2	10	‡	24	12.0
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)	†	‡	5	‡	-	-	†	‡	-	-	-	-	-	-	-	-
	Neonatal (Under 28 Days)	†	‡	†	‡	-	-	†	‡	-	-	-	-	-	-	-	-
	Postneonatal (28 Days - 1 Year)	-	-	†	‡	-	-	†	‡	-	-	-	-	-	-	-	-
	Fetal	†	‡	†	‡	-	-	-	-	-	-	-	-	-	-	-	-
	Perinatal	†	‡	6	‡	-	-	†	‡	-	-	-	-	-	-	-	-
Leading Causes of Death - Residence***	(#) Malignant neoplasms	56	193.2	101	155.7	5	‡	64	328.4	†	‡	21	271.6	10	‡	15	‡
	(#) Diseases of heart	56	193.2	114	175.7	†	‡	62	318.1	†	‡	11	‡	5	‡	7	‡
	(#) Chronic lower respiratory	23	79.3	45	69.4	-	-	9	‡	†	‡	†	‡	-	-	5	‡
	(#) Accidents (unintentional injuries)	19	‡	26	40.1	†	‡	13	‡	†	‡	5	‡	†	‡	†	‡
	(61#) Cerebrovascular diseases	11	‡	23	35.5	-	-	9	‡	†	‡	7	‡	-	-	†	‡
	(48#) Alzheimer's disease	†	‡	9	‡	†	‡	5	‡	-	-	†	‡	-	-	†	‡
	(43#) Diabetes mellitus	†	‡	8	‡	†	‡	6	‡	-	-	†	‡	-	-	†	‡
	(#) Intentional self-harm (suicide)	5	‡	18	‡	-	-	5	‡	-	-	†	‡	†	‡	†	‡
	(#) Influenza and pneumonia	8	‡	11	‡	-	-	†	‡	-	-	†	‡	†	‡	-	-
	(#) Chronic liver disease and	7	‡	8	‡	-	-	†	‡	-	-	†	‡	†	‡	†	‡
Births - Occurrence	305	10.5	761	11.7	-	-	139	7.1	-	-	†	‡	-	-	†	‡	
Deaths - Occurrence	Deaths (Excluding Fetal), Total	203	7.0	551	8.5	18	‡	201	10.3	15	‡	87	11.3	21	10.9	47	11.3
	Accidental	18	‡	31	0.5	†	‡	13	‡	†	‡	6	‡	†	‡	5	‡
	Motor Vehicle	6	‡	8	‡	†	‡	5	‡	-	-	6	‡	†	‡	†	‡
	Other Accidental	12	‡	23	0.4	‡	‡	8	‡	†	‡	‡	‡	†	‡	†	‡
Infant Death - Occurrence	†	‡	-	-	-	-	†	‡	-	-	-	-	-	-	-	-	
Marriages - Occurrence	Marriages Solumnized	221	7.6	407	6.3	12	‡	61	3.1	†	‡	68	8.8	10	‡	29	7.0
	Licenses Issued	160	5.5	438	6.8	9	‡	34	1.7	7	‡	45	5.8	7	‡	19	‡
Marital Terminations - Occurrence	Marital Terminations	75	2.6	345	5.3	6	‡	78	4.0	†	‡	18	‡	6	‡	7	‡

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero. ** 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, 2012

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	110,977	-	4,665	-	15,567	-	511	-	4,128	-	6,165	-	1,763	-	7,096	-	
Natural Increase*	432	0.0	-5	‡	8	‡	-1	‡	-9	‡	-6	‡	-4	‡	-20	0.0	
Births - Residence	Live Births, Total	1,189	10.7	44	9.4	144	9.3	†	‡	45	10.9	64	10.4	14	‡	47	6.6
	Live Births, Male	631	21.3	25	18.9	73	18.5	†	‡	20	21.9	20	21.3	5	‡	23	10.7
	Live Births, Female	558	21.5	19	‡	71	18.5	†	‡	25	21.7	44	20.2	9	‡	24	17.3
	Live Births, Out Of Wedlock	397	333.9	15	‡	38	263.9	-	-	18	‡	15	‡	6	‡	22	468.1
Deaths - Residence	Deaths (Excluding Fetal), Total	757	6.8	49	10.5	136	8.7	5	‡	54	13.1	70	11.4	18	‡	67	9.4
	Deaths (Excluding Fetal), Male	403	7.2	24	10.3	71	9.1	†	‡	21	10.2	35	11.7	7	‡	40	9.1
	Deaths (Excluding Fetal), Female	354	6.4	25	10.7	65	8.3	†	‡	33	15.9	35	11.1	11	‡	27	10.0
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)	†	‡	-	-	†	‡	-	-	-	-	-	-	-	-	-	
	Neonatal (Under 28 Days)	†	‡	-	-	†	‡	-	-	-	-	-	-	-	-	-	
	Postneonatal (28 Days - 1 Year)	†	‡	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Fetal	5	‡	-	-	-	-	-	-	†	‡	-	-	-	-	-	
	Perinatal	7	‡	-	-	†	‡	-	-	†	‡	-	-	-	-	-	
Leading Causes of Death - Residence***	(#) Malignant neoplasms	175	157.7	13	‡	29	186.3	†	‡	14	‡	12	‡	†	‡	12	‡
	(#) Diseases of heart	124	111.7	9	‡	26	167.0	†	‡	13	‡	13	‡	11	‡	7	‡
	(#) Chronic lower respiratory	44	39.6	6	‡	13	‡	-	-	†	‡	†	‡	-	-	8	‡
	(#) Accidents (unintentional injuries)	55	49.6	†	‡	10	‡	-	-	†	‡	5	‡	†	‡	7	‡
	(61#) Cerebrovascular diseases	34	30.6	†	‡	†	‡	†	‡	†	‡	5	‡	†	‡	†	‡
	(48#) Alzheimer's disease	20	18.0	-	-	14	‡	-	-	†	‡	†	‡	-	-	-	-
	(43#) Diabetes mellitus	19	‡	-	-	†	‡	-	-	5	‡	†	‡	-	-	6	‡
	(#) Intentional self-harm (suicide)	24	21.6	†	‡	†	‡	-	-	-	-	†	‡	-	-	†	‡
	(#) Influenza and pneumonia	12	‡	†	‡	†	‡	-	-	†	‡	†	‡	†	‡	†	‡
	(#) Chronic liver disease and	8	‡	-	-	†	‡	-	-	†	‡	†	‡	-	-	†	‡
Births - Occurrence	1,588	14.3	†	‡	105	6.7	-	-	†	‡	44	7.1	-	-	-	-	
Deaths - Occurrence	Deaths (Excluding Fetal), Total	962	8.7	43	9.2	127	8.2	†	‡	40	9.7	59	9.6	14	‡	59	8.3
	Accidental	74	0.7	†	‡	13	‡	-	-	†	‡	8	‡	†	‡	8	‡
	Motor Vehicle	18	‡	-	-	6	‡	-	-	-	-	5	‡	†	‡	5	‡
	Other Accidental	56	0.5	†	‡	7	‡	-	-	†	‡	†	‡	†	‡	†	‡
Infant Death - Occurrence	†	‡	-	-	†	‡	-	-	-	-	-	-	-	-	-	-	
Marriages - Occurrence	Marriages Solumnized	648	5.8	24	5.1	199	12.8	†	‡	18	‡	35	5.7	9	‡	25	3.5
	Licenses Issued	758	6.8	26	5.6	125	8.0	†	‡	19	‡	31	5.0	12	‡	24	3.4
Marital Terminations - Occurrence	Marital Terminations	502	4.5	25	5.4	100	6.4	-	-	14	‡	12	‡	†	‡	20	2.8

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero. ** 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, 2012

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	1,157	-	40,617	-	10,810	-	10,927	-	9,396	-	11,408	-	3,580	-	34,403	-
Natural Increase*	Natural Increase	-6	‡	-7	‡	38	0.0	118	0.0	97	0.0	-24	0.0	-4	‡	-2	‡
Births - Residence	Live Births, Total	14	‡	383	9.4	146	13.5	224	20.5	168	17.9	88	7.7	43	12.0	392	11.4
	Live Births, Male	7	‡	196	19.0	73	25.8	136	41.6	86	35.5	41	15.1	23	23.5	197	22.5
	Live Births, Female	7	‡	187	18.7	73	28.3	88	40.4	82	36.1	47	15.7	20	24.5	195	23.1
	Live Births, Out Of Wedlock	†	‡	84	219.3	60	411.0	156	696.4	98	583.3	20	227.3	13	‡	172	438.8
Deaths - Residence	Deaths (Excluding Fetal), Total	20	17.3	390	9.6	108	10.0	106	9.7	71	7.6	112	9.8	47	13.1	394	11.5
	Deaths (Excluding Fetal), Male	7	‡	209	10.4	53	9.4	49	9.1	35	7.4	58	10.0	25	13.7	196	11.2
	Deaths (Excluding Fetal), Female	13	‡	181	8.8	55	10.7	57	10.3	36	7.7	54	9.7	22	12.5	198	11.7
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)	-	-	-	-	†	‡	†	‡	-	-	†	‡	†	‡	†	‡
	Neonatal (Under 28 Days)	-	-	-	-	†	‡	†	‡	-	-	†	‡	†	‡	†	‡
	Postneonatal (28 Days - 1 Year)	-	-	-	-	†	‡	†	‡	-	-	†	‡	-	-	†	‡
	Fetal	-	-	†	‡	-	-	†	‡	†	‡	-	-	-	-	5	‡
Leading Causes of Death - Residence***	Perinatal	-	-	†	‡	†	‡	†	‡	†	‡	†	‡	†	‡	7	‡
	(#) Malignant neoplasms	†	‡	89	219.1	21	194.3	13	‡	14	‡	28	245.4	13	‡	78	226.7
	(#) Diseases of heart	6	‡	74	182.2	19	‡	25	228.8	10	‡	27	236.7	10	‡	92	267.4
	(#) Chronic lower respiratory	†	‡	24	59.1	†	‡	9	‡	6	‡	11	‡	†	‡	30	87.2
	(#) Accidents (unintentional injuries)	†	‡	24	59.1	9	‡	10	‡	10	‡	6	‡	6	‡	19	‡
	(61#) Cerebrovascular diseases	-	-	14	‡	6	‡	9	‡	†	‡	5	‡	-	-	10	‡
	(48#) Alzheimer's disease	†	‡	10	‡	6	‡	-	-	-	-	5	‡	†	‡	15	‡
	(43#) Diabetes mellitus	†	‡	11	‡	†	‡	†	‡	†	‡	†	‡	†	‡	9	‡
	(#) Intentional self-harm (suicide)	†	‡	7	‡	†	‡	6	‡	†	‡	†	‡	†	‡	19	‡
	(#) Influenza and pneumonia	-	-	8	‡	†	‡	-	-	†	‡	-	-	-	-	8	‡
(#) Chronic liver disease and	-	-	5	‡	-	-	7	‡	-	-	†	‡	-	-	9	‡	
Births - Occurrence	Live Births, Total	†	‡	197	4.9	148	13.7	148	13.5	19	‡	47	4.1	†	‡	458	13.3
Deaths - Occurrence	Deaths (Excluding Fetal), Total	16	‡	303	7.5	104	9.6	74	6.8	53	5.6	100	8.8	40	11.2	405	11.8
	Accidental	†	‡	19	‡	7	‡	6	‡	8	‡	6	‡	5	‡	16	‡
	Motor Vehicle	†	‡	5	‡	†	‡	5	‡	8	‡	5	‡	†	‡	†	‡
	Other Accidental	†	‡	14	‡	†	‡	†	‡	‡	‡	†	‡	†	‡	14	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	-	-	†	‡	†	‡	†	‡	-	-	-	-	-	-	†	‡
Marriages - Occurrence	Marriages Solumnized	†	‡	264	6.5	92	8.5	41	3.8	34	3.6	69	6.0	22	6.1	204	5.9
	Licenses Issued	†	‡	223	5.5	106	9.8	40	3.7	36	3.8	65	5.7	23	6.4	227	6.6
Marital Terminations - Occurrence	Marital Terminations	-	-	136	3.3	33	3.1	-	-	13	‡	40	3.5	†	‡	159	4.6

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero. ** 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.
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TABLE S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2012

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	9,195	-	3,605	-	6,053	-	5,220	-	736	-	7,505	-	2,104	-	1,057	-	
Natural Increase*	-7	‡	†	‡	18	‡	5	‡	†	‡	-6	‡	-7	‡	-2	‡	
Births - Residence	Live Births, Total	75	8.2	35	9.7	77	12.7	51	9.8	9	‡	79	10.5	22	10.5	11	‡
	Live Births, Male	38	15.9	13	‡	42	25.8	22	17.5	5	‡	38	21.0	11	‡	6	‡
	Live Births, Female	37	16.7	22	19.5	35	25.1	29	22.2	†	‡	41	21.1	11	‡	5	‡
	Live Births, Out Of Wedlock	20	266.7	14	‡	14	‡	8	‡	-	-	30	379.7	6	‡	†	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	82	8.9	32	8.9	59	9.7	46	8.8	5	‡	85	11.3	29	13.8	13	‡
	Deaths (Excluding Fetal), Male	38	8.1	21	11.6	26	8.7	21	7.2	†	‡	45	12.0	12	‡	6	‡
	Deaths (Excluding Fetal), Female	44	9.8	11	‡	33	10.8	25	10.9	†	‡	40	10.7	17	‡	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	21	228.4	5	‡	13	‡	6	‡	-	-	21	279.8	7	‡	†	‡
	(#) Diseases of heart	22	239.3	6	‡	21	346.9	12	‡	†	‡	21	279.8	7	‡	†	‡
	(#) Chronic lower respiratory	8	‡	†	‡	†	‡	†	‡	†	‡	†	‡	†	‡	-	-
	(#) Accidents (unintentional injuries)	6	‡	†	‡	†	‡	†	‡	†	‡	5	‡	†	‡	-	-
	(61#) Cerebrovascular diseases	†	‡	†	‡	†	‡	5	‡	-	-	†	‡	†	‡	-	-
	(48#) Alzheimer's disease	6	‡	†	‡	-	-	†	‡	-	-	†	‡	†	‡	-	-
	(43#) Diabetes mellitus	-	-	†	‡	†	‡	-	-	-	-	†	‡	-	-	-	-
	(#) Intentional self-harm (suicide)	†	‡	†	‡	†	‡	†	‡	-	-	†	‡	-	-	-	-
	(#) Influenza and pneumonia	†	‡	-	-	-	-	†	‡	-	-	†	‡	†	‡	-	-
(#) Chronic liver disease and	†	‡	†	‡	†	‡	†	‡	-	-	†	‡	-	-	-	-	
Births - Occurrence	Live Births, Total	†	‡	-	-	†	‡	34	6.5	-	-	128	17.1	-	-	†	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	66	7.2	31	8.6	48	7.9	40	7.7	†	‡	68	9.1	27	12.8	18	‡
	Accidental	6	‡	†	‡	-	-	†	‡	†	‡	5	‡	†	‡	†	‡
	Motor Vehicle	†	‡	†	‡	-	-	-	-	-	-	†	‡	†	‡	†	‡
	Other Accidental	†	‡	†	‡	-	-	†	‡	†	‡	†	‡	†	‡	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	-	-	-	-	-	-	†	‡	-	-	-	-	-	-	-	
Marriages - Occurrence	Marriages Solumnized	89	9.7	25	6.9	27	4.5	26	5.0	†	‡	56	7.5	7	‡	10	‡
	Licenses Issued	76	8.3	22	6.1	34	5.6	31	5.9	7	‡	43	5.7	9	‡	7	‡
Marital Terminations - Occurrence	Marital Terminations	-	-	14	‡	10	‡	15	‡	-	-	-	-	†	‡	†	‡

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero.** 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.
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TABLE S-4
Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2012

Item		Yellowstone		Not Stated	
		Number	Rate	Number	Rate
Population	Population	151,882	-	-	-
Natural Increase*	Natural Increase	722	0.0	†	‡
Births - Residence	Live Births, Total	2,075	13.7	†	‡
	Live Births, Male	1,055	27.9	†	‡
	Live Births, Female	1,020	26.8	†	‡
	Live Births, Out Of Wedlock	779	375.4	-	-
Deaths - Residence	Deaths (Excluding Fetal), Total	1,353	8.9	†	‡
	Deaths (Excluding Fetal), Male	669	9.0	†	‡
	Deaths (Excluding Fetal), Female	684	8.8	†	‡
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)	16	‡	-	-
	Neonatal (Under 28 Days)	8	‡	-	-
	Postneonatal (28 Days - 1 Year)	8	‡	-	-
	Fetal	6	‡	-	-
	Perinatal	14	‡	-	-
Leading Causes of Death - Residence***	(#) Malignant neoplasms	286	188.3	†	‡
	(#) Diseases of heart	288	189.6	-	-
	(#) Chronic lower respiratory	102	67.2	-	-
	(#) Accidents (unintentional injuries)	49	32.3	-	-
	(61#) Cerebrovascular diseases	68	44.8	-	-
	(48#) Alzheimer's disease	61	40.2	-	-
	(43#) Diabetes mellitus	30	19.8	-	-
	(#) Intentional self-harm (suicide)	30	19.8	-	-
	(#) Influenza and pneumonia	19	‡	-	-
(#) Chronic liver disease and	19	‡	-	-	
Births - Occurrence	Live Births, Total	2,815	18.5	-	-
Deaths - Occurrence	Deaths (Excluding Fetal), Total	1,671	11.0	†	‡
	Accidental	80	0.5	†	‡
	Motor Vehicle	29	0.2	†	‡
	Other Accidental	51	0.3		‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	18	‡	-	-
Marriages - Occurrence	Marriages Solumnized	879	5.8	-	-
	Licenses Issued	949	6.2	-	-
Marital Terminations - Occurrence	Marital Terminations	689	4.5	-	-

* Natural increase, live births, deaths, marriages, and marital terminations are per 1,000 population. - Quantity is zero.** 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, 1990-2012

Year		Age							Not Stat
		All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older		
2012	Live Births	Number	12,052	896	3,066	3,728	2,923	1,439	-
		Rate+	66.3	28.9	90.2	120.4	96.2	25.9	-
	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	18.4	13.9	8.6	3.9	-
2011	Live Births	Number	12,038	935	3,206	3,725	2,848	1,324	-
		Rate+	66.6	29.5	96.7	119.5	96.3	24.0	-
	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	19.7	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	35.6	96.9	116.8	96.6	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	20.9	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	†	†	†	†	†	-
	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	†	†	†	†	†	-

* 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, 1990-2012

Year			Age						Not Stat
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	
2003	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	-
	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	-

* 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, 1990-2012**

Year			Age						
			All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stat
1993	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, 2000-2012**

County	Year												
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Montana Total	903,773	906,961	911,667	919,630	930,009	940,102	952,692	964,706	976,415	983,982	990,735	997,667	1,005,141
Beaverhead	9,204	9,058	9,018	8,924	8,908	8,904	9,012	9,028	9,166	9,200	9,239	9,191	9,346
Big Horn	12,669	12,783	12,713	12,652	12,731	12,634	12,540	12,549	12,564	12,747	12,919	13,071	13,061
Blaine	6,968	6,748	6,769	6,699	6,571	6,592	6,536	6,472	6,401	6,445	6,474	6,567	6,683
Broadwater	4,378	4,438	4,478	4,562	4,711	4,775	4,958	5,089	5,261	5,496	5,632	5,731	5,756
Carbon	9,561	9,665	9,714	9,747	9,796	9,921	9,916	9,973	9,965	10,033	10,067	10,093	10,127
Carter	1,335	1,337	1,319	1,290	1,284	1,258	1,227	1,216	1,172	1,180	1,154	1,142	1,177
Cascade	80,318	80,055	79,848	79,633	80,198	80,041	79,984	80,099	80,529	80,680	81,540	81,769	81,723
Choteau	6,062	5,899	5,811	5,775	5,729	5,708	5,709	5,746	5,774	5,793	5,807	5,776	5,904
Custer	11,678	11,484	11,510	11,438	11,510	11,423	11,395	11,480	11,515	11,646	11,700	11,780	11,888
Daniels	2,005	1,999	1,912	1,881	1,804	1,782	1,748	1,702	1,704	1,732	1,743	1,772	1,786
Dawson	9,050	8,963	8,801	8,812	8,764	8,800	8,853	8,944	8,925	9,008	8,930	8,999	9,249
Deer Lodge	9,409	9,303	9,238	9,189	9,274	9,274	9,180	9,264	9,351	9,260	9,306	9,241	9,227
Fallon	2,816	2,741	2,725	2,769	2,773	2,712	2,722	2,768	2,807	2,882	2,886	2,924	3,024
Fergus	11,902	11,736	11,666	11,565	11,546	11,444	11,501	11,463	11,448	11,571	11,586	11,494	11,435
Flathead	74,774	76,171	77,583	79,643	81,247	83,320	85,759	88,245	90,260	90,910	90,898	91,132	91,633
Gallatin	68,375	70,120	71,824	74,504	77,124	80,310	83,984	86,620	88,932	89,187	89,610	91,354	92,614
Garfield	1,268	1,269	1,258	1,254	1,236	1,202	1,233	1,234	1,205	1,240	1,185	1,272	1,261
Glacier	13,183	13,098	13,101	13,168	13,388	13,264	13,250	13,179	13,109	13,266	13,448	13,577	13,711
Golden Valley	1,019	992	1,012	981	1,001	1,014	973	964	890	897	883	852	839
Granite	2,849	2,905	2,919	2,931	2,943	3,009	3,013	3,039	3,031	3,057	3,073	3,145	3,109
Hill	16,605	16,378	16,139	15,988	15,947	15,870	15,981	16,031	15,889	15,981	16,151	16,398	16,366
Jefferson	10,052	10,087	10,181	10,262	10,511	10,709	10,801	11,040	11,203	11,364	11,403	11,429	11,401
Judith Basin	2,330	2,266	2,246	2,201	2,196	2,161	2,146	2,083	2,071	2,076	2,061	2,028	2,024
Lake	26,588	26,810	26,814	27,117	27,634	28,023	28,283	28,235	28,515	28,668	28,779	29,021	28,986
Lewis & Clark	55,886	56,262	56,271	57,110	58,041	58,529	59,529	60,646	61,747	62,671	63,626	64,240	64,876
Liberty	2,168	2,163	2,144	2,212	2,263	2,266	2,216	2,236	2,225	2,283	2,354	2,378	2,392
Lincoln	18,818	18,646	18,669	18,861	18,991	19,180	19,228	19,440	19,541	19,657	19,677	19,604	19,491
McCone	1,960	1,874	1,828	1,797	1,781	1,778	1,765	1,767	1,720	1,705	1,736	1,716	1,701
Madison	6,870	6,856	6,935	6,894	6,999	7,211	7,343	7,560	7,674	7,674	7,677	7,683	7,733
Meagher	1,916	1,906	1,895	1,913	1,935	1,899	1,923	1,908	1,893	1,897	1,889	1,896	1,924
Mineral	3,877	3,839	3,837	3,936	3,985	4,133	4,211	4,156	4,177	4,200	4,216	4,257	4,167
Missoula	96,178	97,435	98,968	99,976	100,934	102,298	104,372	106,110	107,747	108,717	109,457	110,114	110,977
Musselshell	4,471	4,368	4,353	4,361	4,370	4,323	4,398	4,394	4,423	4,478	4,542	4,727	4,665
Park	15,710	15,651	15,676	15,539	15,509	15,629	15,690	15,828	15,896	15,738	15,587	15,486	15,567
Petroleum	493	490	506	506	519	492	495	470	481	488	493	492	511
Phillips	4,568	4,498	4,383	4,317	4,295	4,228	4,166	4,193	4,182	4,242	4,262	4,202	4,128
Pondera	6,384	6,360	6,285	6,228	6,140	6,148	6,172	6,169	6,117	6,109	6,161	6,185	6,165
Powder River	1,847	1,814	1,834	1,837	1,789	1,739	1,794	1,761	1,756	1,738	1,731	1,760	1,763
Powell	7,203	7,033	6,986	6,893	6,872	6,997	7,115	7,117	7,036	7,093	7,020	7,092	7,096
Prairie	1,179	1,208	1,173	1,168	1,153	1,098	1,098	1,083	1,123	1,139	1,187	1,156	1,157
Ravalli	36,301	36,683	37,308	38,184	38,739	39,012	39,555	40,023	40,223	39,956	40,339	40,422	40,617
Richland	9,619	9,424	9,286	9,195	9,096	9,207	9,267	9,356	9,430	9,679	9,742	10,143	10,810
Roosevelt	10,623	10,558	10,389	10,344	10,459	10,437	10,285	10,166	10,129	10,334	10,451	10,544	10,927
Rosebud	9,399	9,248	9,196	9,210	9,136	9,131	9,057	9,089	9,095	9,174	9,262	9,376	9,396
Sanders	10,287	10,489	10,466	10,554	10,895	11,002	11,178	11,364	11,433	11,471	11,397	11,394	11,408
Sheridan	4,078	3,952	3,825	3,697	3,683	3,573	3,507	3,469	3,385	3,387	3,374	3,444	3,580
Silver Bow	34,571	33,882	33,636	33,474	33,416	33,414	33,441	33,489	33,812	34,008	34,237	34,362	34,403
Stillwater	8,247	8,392	8,441	8,451	8,435	8,481	8,659	8,867	8,945	9,077	9,104	9,159	9,195
Sweet Grass	3,633	3,594	3,617	3,591	3,676	3,675	3,697	3,778	3,755	3,731	3,621	3,595	3,605
Teton	6,436	6,373	6,286	6,314	6,209	6,105	6,110	6,143	6,143	6,050	6,083	6,082	6,053
Toole	5,261	5,228	5,184	5,006	5,069	5,130	5,085	4,969	5,079	5,245	5,339	5,167	5,220
Treasure	854	836	793	784	799	766	759	748	754	720	719	720	736
Valley	7,653	7,587	7,512	7,427	7,422	7,367	7,272	7,332	7,415	7,349	7,367	7,480	7,505
Wheatland	2,243	2,174	2,193	2,131	2,113	2,086	2,035	2,080	2,151	2,158	2,160	2,139	2,104
Wibaux	1,072	1,032	1,028	1,020	1,019	995	984	1,014	986	1,030	1,006	987	1,057
Yellowstone	129,570	130,801	132,165	133,715	135,441	137,623	139,582	141,518	144,255	146,465	148,445	149,907	151,882

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, 2004-2012**

Item	2004		2005		2006		2007		2008		2009		2010		2011		2012	
	Number	Percent																
Montana Total	11,514	100.0%	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%
SEX																		
Male	5,880	51.0%	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%
Female	5,633	48.9%	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%
Unknown	1	0.0%	-	-	-	-	-	-	-	-	-	-	1	0.0%	-	-	-	-
PLURALITY																		
Single	11,135	96.7%	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%
Twins	359	3.1%	286	2.4%	388	3.1%	397	3.1%	370	2.9%	369	3.0%	358	2.9%	358	2.9%	372	3.0%
Triplets Or More	19	0.1%	7	0.0%	16	0.1%	6	0.0%	15	0.1%	3	0.0%	7	0.0%	10	0.0%	16	0.1%
Not Stated	1	0.0%	2	0.0%	3	0.0%	-	-	7	0.0%	5	0.0%	2	0.0%	-	-	-	-
PARITY																		
First Birth	4,446	38.6%	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%
Second Birth	3,615	31.3%	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%
Third Birth	2,023	17.5%	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%
Fourth Birth	868	7.5%	898	7.7%	984	7.8%	961	7.7%	892	7.0%	912	7.4%	865	7.1%	916	7.6%	959	7.9%
Fifth Birth	293	2.5%	349	3.0%	391	3.1%	378	3.0%	389	3.0%	339	2.7%	398	3.3%	409	3.3%	379	3.1%
Sixth Birth	125	1.0%	125	1.0%	164	1.3%	167	1.3%	139	1.1%	154	1.2%	140	1.1%	155	1.2%	176	1.4%
Seventh Birth	63	0.5%	63	0.5%	71	0.5%	79	0.6%	91	0.7%	66	0.5%	68	0.5%	72	0.5%	65	0.5%
Eighth Birth	29	0.2%	34	0.2%	33	0.2%	43	0.3%	29	0.2%	20	0.1%	40	0.3%	35	0.2%	43	0.3%
Ninth Or More	42	0.3%	33	0.2%	41	0.3%	40	0.3%	42	0.3%	38	0.3%	40	0.3%	43	0.3%	36	0.2%
Not Stated	10	0.0%	14	0.1%	7	0.0%	7	0.0%	33	0.2%	33	0.2%	20	0.1%	10	0.0%	16	0.1%

*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, 1989-2012**

Year	Total	Other Not In Hospital		Physician Not In Hospital**		BOA* And In Hospital	
		Number	Percent	Number	Percent	Number	Percent
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, 1989-2012**

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
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, 1989-2012**

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.
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, 1989-2012**

Year	Total	Not Stated	No Care	10th	9th	8th	7th	6th	5th	4th	3rd	2nd	1st
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, 2012**

Cause Of Death*	All Ages			Age In Years																			
				0 YR.		1 YR.		2-4		5-9		10-14		15-17		18-19		20-24		25-29		30-34	
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.		
All Causes	8,876	4,603	4,273	38	33	4	2	6	3	10	3	4	4	9	6	16	6	58	21	68	31	56	26
I. Certain infectious and parasitic diseases	145	79	66	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1
Intestinal infectious diseases	20	8	12	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Other intestinal infectious diseases	15	6	9	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
(3) Paratyphoid fevers and other salmonella infections	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(7) Intestinal infections due to other specified organisms	14	6	8	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
(8) Diarrhea and gastroenteritis of infectious origin	5	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tuberculosis	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(9) Respiratory tuberculosis	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zoonotic and other bacterial diseases	80	43	37	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
(18) Septicemia	75	39	36	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
(19) Other zoonotic and bacterial diseases	5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Viral diseases	36	24	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(34) Zoster (herpes zoster)	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(38) Viral hepatitis	29	19	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Human immunodeficiency virus (HIV) disease	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(39) Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic diseases	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(41) Human immunodeficiency virus (HIV) disease resulting in other specified diseases	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(43) Unspecified human immunodeficiency virus (HIV) disease	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(44) All other and unspecified viral diseases	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other and unspecified infectious and parasitic diseases and their sequelae	8	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(54) Sequelae of poliomyelitis	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(55) All other and unspecified infectious and parasitic diseases and their sequelae	5	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II. Neoplasms	1,985	1,067	918	1	-	-	-	2	-	-	-	1	-	-	2	-	1	2	3	-	1	1	2
Malignant neoplasms	1,927	1,024	903	-	-	-	-	1	-	-	-	-	-	-	2	-	1	2	3	-	1	1	2
Malignant neoplasms of lip, oral cavity and pharynx	26	19	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(57) Of tongue	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(58) Of pharynx	10	8	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(59) Of other and unspecified sites within the lip, oral cavity and pharynx	13	9	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of digestive organs	437	251	186	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(60) Of esophagus	53	42	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(61) Of stomach	25	15	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(62) Of small intestine	6	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Of colon, rectum and anus	173	92	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(63) Colon	144	78	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(64) Rectosigmoid junction and rectum	28	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(65) Anus and anal canal	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Of liver and intrahepatic bile ducts	60	43	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(66) Liver	46	37	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(67) Intrahepatic bile duct carcinoma	14	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(68) Of gallbladder and extrahepatic bile ducts	12	7	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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>

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

Cause Of Death*	Age In Years																					
	35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
All Causes	61	31	93	51	121	76	227	143	333	194	395	233	374	275	481	325	504	394	623	596	1,122	1,820
I. Certain infectious and parasitic diseases	1	1	2	1	2	1	7	2	12	7	6	6	8	6	10	8	6	3	14	8	9	20
Intestinal infectious diseases	-	-	-	-	1	-	-	-	-	-	-	-	-	1	3	1	-	-	2	4	2	5
Other intestinal infectious diseases	-	-	-	-	1	-	-	-	-	-	-	-	-	1	2	-	-	-	1	4	2	3
(3) Paratyphoid fevers and other salmonella infections	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(7) Intestinal infections due to other specified organisms	-	-	-	-	1	-	-	-	-	-	-	-	-	1	2	-	-	-	1	4	2	2
(8) Diarrhea and gastroenteritis of infectious origin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	2
Tuberculosis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
(9) Respiratory tuberculosis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Zoonotic and other bacterial diseases	-	1	2	-	-	1	1	1	4	3	2	4	6	3	3	5	5	3	11	3	7	11
(18) Septicemia	-	1	2	-	-	1	-	1	4	2	2	4	5	3	3	5	5	3	11	3	5	11
(19) Other zoonotic and bacterial diseases	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	-	2	-
Viral diseases	1	-	-	1	1	-	6	1	8	3	4	2	2	2	2	2	-	-	-	-	-	1
(34) Zoster (herpes zoster)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(38) Viral hepatitis	-	-	-	1	1	-	4	1	7	3	4	2	1	2	2	1	-	-	-	-	-	-
Human immunodeficiency virus (HIV) disease	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(39) Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic diseases	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(41) Human immunodeficiency virus (HIV) disease resulting in other specified diseases	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(43) Unspecified human immunodeficiency virus (HIV) disease	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(44) All other and unspecified viral diseases	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	-
Other and unspecified infectious and parasitic diseases and their sequelae	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	1	1	-	3
(54) Sequelae of poliomyelitis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2
(55) All other and unspecified infectious and parasitic diseases and their sequelae	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	1	-	-	1
II. Neoplasms	5	11	5	5	20	15	58	57	94	68	118	107	129	121	170	101	154	104	154	133	153	187
Malignant neoplasms	5	11	5	5	18	15	57	56	94	67	115	105	128	121	161	99	148	101	145	132	144	182
Malignant neoplasms of lip, oral cavity and pharynx	-	-	-	-	-	1	3	-	-	-	2	2	3	1	2	-	3	-	4	1	2	2
(57) Of tongue	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(58) Of pharynx	-	-	-	-	-	-	1	-	-	-	2	1	-	1	1	-	1	-	2	-	1	-
(59) Of other and unspecified sites within the lip, oral cavity and pharynx	-	-	-	-	-	-	1	-	-	-	1	3	-	1	-	1	-	2	1	1	2	-
Malignant neoplasms of digestive organs	2	3	2	1	3	1	20	12	37	11	36	19	34	25	29	19	31	18	32	29	25	48
(60) Of esophagus	1	-	-	-	-	-	5	-	10	-	6	-	3	-	2	2	4	2	7	3	4	4
(61) Of stomach	-	-	-	-	-	-	3	1	3	-	-	-	3	3	-	-	3	1	-	3	3	2
(62) Of small intestine	-	-	-	-	-	-	1	-	1	-	-	1	1	-	-	1	1	-	-	-	-	-
Of colon, rectum and anus	-	3	1	-	1	-	2	5	9	1	14	7	11	10	17	7	11	8	14	12	12	28
(63) Colon	-	2	-	-	-	-	1	4	8	1	13	7	7	6	16	5	8	4	13	11	12	26
(64) Rectosigmoid junction and rectum	-	1	1	-	1	-	1	1	1	-	1	-	4	4	1	2	3	4	1	-	-	2
(65) Anus and anal canal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Of liver and intrahepatic bile ducts	1	-	1	-	-	1	4	2	9	4	8	2	6	1	4	-	3	1	5	4	2	2
(66) Liver	-	-	1	-	-	1	3	2	8	2	7	1	5	-	4	-	3	1	4	1	2	1
(67) Intrahepatic bile duct carcinoma	1	-	-	-	-	-	1	-	1	2	1	1	1	1	-	-	-	-	1	3	-	1
(68) Of gallbladder and extrahepatic bile ducts	-	-	-	-	-	-	1	-	1	-	-	1	1	-	1	1	2	-	-	1	1	2

* 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>

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.	
(69) Of pancreas	104	46	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(70) Of other and ill-defined digestive organs	4	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of respiratory and intrathoracic organs	511	277	234	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(71) Of nasal cavity, middle ear and accessory sinuses	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(72) Of larynx	16	14	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(73) Of trachea, bronchus and lung	493	262	231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(74) Of thymus, heart, mediastinum and pleura	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(76) Malignant neoplasms of bone and articular cartilage	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Melanoma and other malignant neoplasms of skin	53	37	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(77) Malignant melanoma of skin	42	29	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(78) Other malignant neoplasms of skin	11	8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of mesothelial and soft tissue	41	21	20	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
(79) Mesothelioma	18	13	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(81) Of other mesothelial and soft tissue	23	8	15	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
(82) Malignant neoplasm of breast	134	1	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of female genital organs	94	-	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(83) Of vulva and vagina	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(84) Of cervix uteri	10	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(85) Of corpus uteri and uterus, part unspecified	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(86) Of ovary	54	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Malignant neoplasms of male genital organs	104	104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(89) Of prostate	101	101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(90) Of testis	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(91) Of penis and other and unspecified male genital organs	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of urinary tract	111	82	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(92) Of kidney and renal pelvis	44	34	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(93) Of bladder	62	44	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(94) Of other and unspecified sites within the urinary tract	4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of meninges, brain and other parts of central nervous system	56	33	23	-	-	-	-	1	-	-	-	-	-	-	-	-	1	3	-	-	1	-
(96) Of brain	55	32	23	-	-	-	-	1	-	-	-	-	-	-	-	-	1	3	-	-	1	-
(97) Of other parts of central nervous system	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(98) Malignant neoplasms of thyroid and other endocrine glands	5	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(99) Other malignant neoplasms of other and unspecified sites	154	79	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of lymphoid, hematopoietic and related tissue	198	116	82	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
(100) Hodgkin 's disease	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Of other lymphoid, hematopoietic and related tissue	84	46	38	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
(101) Non-Hodgkin 's lymphoma	83	45	38	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
(102) Of other and unspecified lymphoid, hematopoietic and related tissue	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(103) Malignant immunoproliferative diseases	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(104) Multiple myeloma and malignant plasma cell neoplasms	38	22	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Leukemia	71	45	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(105) Lymphoid leukemia	22	13	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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>

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.
(69) Of pancreas	-	-	-	1	2	-	4	4	4	6	7	8	8	11	5	8	7	6	6	5	3	9
(70) Of other and ill-defined digestive organs	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
Malignant neoplasms of respiratory and intrathoracic organs	-	1	2	-	3	4	10	13	22	15	28	33	37	31	61	33	43	35	40	36	31	33
(71) Of nasal cavity, middle ear and accessory sinuses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(72) Of larynx	-	-	-	-	-	-	2	-	-	1	3	-	1	-	4	1	4	-	-	-	-	-
(73) Of trachea, bronchus and lung	-	1	2	-	3	4	8	13	22	14	25	33	36	31	57	32	39	35	40	35	30	33
(74) Of thymus, heart, mediastinum and pleura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(76) Malignant neoplasms of bone and articular cartilage	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-
Melanoma and other malignant neoplasms of skin	-	-	1	1	3	1	3	-	3	1	4	1	6	3	3	-	3	-	9	2	2	6
(77) Malignant melanoma of skin	-	-	1	1	2	1	3	-	3	1	4	1	2	3	2	-	3	-	8	2	1	3
(78) Other malignant neoplasms of skin	-	-	-	-	1	-	-	-	-	-	-	-	4	-	1	-	-	-	1	-	1	3
Malignant neoplasms of mesothelial and soft tissue	1	1	-	-	2	-	1	-	1	1	1	2	4	4	2	1	1	8	3	1	5	-
(79) Mesothelioma	-	1	-	-	1	-	-	-	-	-	-	-	3	1	1	-	1	3	3	-	4	-
(81) Of other mesothelial and soft tissue	1	-	-	-	1	-	1	-	1	1	1	2	1	3	1	1	-	5	-	1	1	-
(82) Malignant neoplasm of breast	1	4	-	2	-	7	-	14	-	12	-	14	-	23	-	17	-	10	-	12	-	18
Malignant neoplasms of female genital organs	-	-	-	1	-	-	-	4	-	10	-	16	-	13	-	4	-	9	-	20	-	16
(83) Of vulva and vagina	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	2	-	1
(84) Of cervix uteri	-	-	-	1	-	-	-	1	-	2	-	1	-	2	-	-	-	-	-	1	-	2
(85) Of corpus uteri and uterus, part unspecified	-	-	-	-	-	-	-	1	-	3	-	5	-	4	-	1	-	3	-	3	-	5
(86) Of ovary	-	-	-	-	-	-	-	2	-	5	-	9	-	7	-	2	-	6	-	14	-	8
Malignant neoplasms of male genital organs	1	-	-	-	1	-	1	-	5	-	6	-	10	-	17	-	18	-	14	-	31	-
(89) Of prostate	-	-	-	-	1	-	1	-	4	-	6	-	10	-	17	-	17	-	14	-	31	-
(90) Of testis	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(91) Of penis and other and unspecified male genital organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Malignant neoplasms of urinary tract	-	-	-	-	1	-	3	1	7	1	10	3	6	3	12	7	15	4	10	3	18	7
(92) Of kidney and renal pelvis	-	-	-	-	1	-	3	1	7	-	7	-	2	-	3	3	5	3	3	-	3	3
(93) Of bladder	-	-	-	-	-	-	-	-	-	1	2	3	3	2	9	4	8	1	7	3	15	4
(94) Of other and unspecified sites within the urinary tract	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	2	-	-	-	-	-	-
Malignant neoplasms of meninges, brain and other parts of central nervous system	-	-	-	-	3	-	3	3	3	5	4	3	9	4	4	1	2	-	1	2	1	2
(96) Of brain	-	-	-	-	3	-	3	3	3	5	4	3	8	4	4	1	2	-	1	2	1	2
(97) Of other parts of central nervous system	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
(98) Malignant neoplasms of thyroid and other endocrine glands	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1	-	2
(99) Other malignant neoplasms of other and unspecified sites	-	1	-	-	-	1	6	6	10	5	11	5	8	8	15	7	10	7	10	9	9	26
Malignant neoplasms of lymphoid, hematopoietic and related tissue	-	1	-	-	2	-	7	3	6	6	12	6	11	6	15	10	22	10	22	16	19	22
(100) Hodgkin 's disease	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	-
Of other lymphoid, hematopoietic and related tissue	-	-	-	-	1	-	2	1	2	2	3	2	5	3	9	6	8	4	9	8	7	11
(101) Non-Hodgkin 's lymphoma	-	-	-	-	1	-	2	1	2	2	3	2	5	3	9	6	7	4	9	8	7	11
(102) Of other and unspecified lymphoid, hematopoietic and related tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
(103) Malignant immunoproliferative diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
(104) Multiple myeloma and malignant plasma cell neoplasms	-	1	-	-	-	-	-	1	2	2	4	2	1	1	2	1	6	4	5	1	2	3
Leukemia	-	-	-	-	1	-	5	1	2	2	5	2	5	1	4	3	8	2	6	6	9	8
(105) Lymphoid leukemia	-	-	-	-	-	-	1	-	1	-	2	1	3	-	1	2	2	1	1	2	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>

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.		
(106) Myeloid leukemia	28	15	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
(108) Other and unspecified leukemia	21	17	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benign neoplasms	2	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(112) Of eye, brain and other parts of central nervous system	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(113) Of other and unspecified sites	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(114) Neoplasms of uncertain or unknown behavior of specified sites	49	37	12	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
(115) Neoplasm of uncertain or unknown behavior of unspecified sites	7	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
III. Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	32	11	21	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	
Anemias	19	6	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(116) Nutritional anemias	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(117) Hemolytic anemias	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(118) Aplastic anemias	4	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(119) Acute posthemorrhagic and other anemias	13	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(120) Coagulation defects, purpura and other hemorrhagic conditions	4	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
(121) Other diseases of blood and blood-forming organs	4	2	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(122) Certain disorders involving the immune mechanism	5	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
IV. Endocrine, nutritional and metabolic diseases	355	208	147	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	1
Endocrine diseases	245	142	103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1
(123) Disorders of thyroid gland	10	2	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(124) Diabetes mellitus	231	139	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
(126) Disorders of adrenal glands	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(128) Other endocrine diseases	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutritional diseases	34	14	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malnutrition	14	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(130) Other and unspecified malnutrition	14	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(132) Obesity and other hyperalimentation	20	8	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metabolic disorders	76	52	24	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(134) Volume depletion, disorders of fluid, electrolyte and acid-base balance	18	7	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(135) Other metabolic disorders	58	45	13	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V. Mental and behavioral disorders	691	238	453	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	2	2	1	-
(136) Organic dementia	597	183	414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(137) Other and unspecified organic mental disorders	12	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mental and behavioral disorders due to psychoactive substance use	67	42	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	1	-
(138) Mental and behavioral disorders due to use of alcohol	53	34	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-
(139) Mental and behavioral disorders due to other psychoactive substance use	14	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-
(140) Schizophrenia, schizotypal and delusional disorders	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(141) Mood (affective) disorders	6	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(142) Neurotic, stress-related and somatoform disorders	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(143) Mental retardation	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(144) Other and unspecified mental and behavioral disorders	5	3	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-

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Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.
(106) Myeloid leukemia	-	-	-	-	1	-	2	1	1	2	2	-	2	1	-	1	4	1	2	3	1	3
(108) Other and unspecified leukemia	-	-	-	-	-	-	2	-	-	-	1	1	-	-	3	-	2	-	3	1	6	2
Benign neoplasms	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(112) Of eye, brain and other parts of central nervous system	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(113) Of other and unspecified sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(114) Neoplasms of uncertain or unknown behavior of specified sites	-	-	-	-	1	-	1	-	-	1	3	1	1	-	8	2	5	3	8	1	8	4
(115) Neoplasm of uncertain or unknown behavior of unspecified sites	-	-	-	-	-	-	1	-	-	-	1	-	-	1	-	1	-	1	-	1	-	1
III. Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	-	-	-	-	-	-	1	-	1	-	-	-	-	2	2	1	3	1	2	-	2	14
Anemias	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	2	-	2	-	12
(116) Nutritional anemias	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(117) Hemolytic anemias	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(118) Aplastic anemias	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2	2
(119) Acute posthemorrhagic and other anemias	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	1	9	9
(120) Coagulation defects, purpura and other hemorrhagic conditions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	1
(121) Other diseases of blood and blood-forming organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1
(122) Certain disorders involving the immune mechanism	-	-	-	-	-	-	1	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
IV. Endocrine, nutritional and metabolic diseases	2	2	4	3	13	3	7	4	15	9	17	8	20	10	24	12	30	12	26	22	47	60
Endocrine diseases	2	-	4	1	8	3	5	4	9	4	9	5	17	6	15	12	21	8	19	16	32	42
(123) Disorders of thyroid gland	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	-	1	1	5	5
(124) Diabetes mellitus	2	-	4	1	8	3	5	4	9	3	9	5	16	6	15	11	20	7	19	14	31	37
(126) Disorders of adrenal glands	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
(128) Other endocrine diseases	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Nutritional diseases	-	1	-	1	1	-	1	-	1	2	3	2	1	3	-	-	3	2	1	1	3	8
Malnutrition	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	1	1	-	3	6
(130) Other and unspecified malnutrition	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	1	1	-	3	6
(132) Obesity and other hyperalimentation	-	1	-	1	1	-	1	-	1	2	3	1	1	3	-	-	1	1	-	1	-	2
Metabolic disorders	-	1	-	1	4	-	1	-	5	3	5	1	2	1	9	-	6	2	6	5	12	10
(134) Volume depletion, disorders of fluid, electrolyte and acid-base balance	-	-	-	1	-	-	-	-	2	-	-	-	-	1	1	-	1	1	-	2	2	6
(135) Other metabolic disorders	-	1	-	-	4	-	1	-	3	3	5	1	2	-	8	-	5	1	6	3	10	4
V. Mental and behavioral disorders	3	1	6	5	5	4	6	5	10	3	6	1	5	7	10	13	17	29	45	73	122	308
(136) Organic dementia	-	-	-	-	-	-	1	-	2	-	-	-	1	2	3	5	12	11	29	43	68	301
(137) Other and unspecified organic mental disorders	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-	1	2	2	4
Mental and behavioral disorders due to psychoactive substance use	3	1	6	5	4	4	4	5	8	3	6	-	2	-	4	1	2	-	-	2	1	1
(138) Mental and behavioral disorders due to use of alcohol	1	1	4	4	4	2	3	5	8	3	5	-	2	-	3	-	2	-	-	2	1	1
(139) Mental and behavioral disorders due to other psychoactive substance use	2	-	2	1	-	2	1	-	-	-	1	-	-	-	1	1	-	-	-	-	-	-
(140) Schizophrenia, schizotypal and delusional disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-
(141) Mood (affective) disorders	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	1	-	-	2
(142) Neurotic, stress-related and somatoform disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
(143) Mental retardation	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(144) Other and unspecified mental and behavioral disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-

* 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>

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.		
VI. Diseases of the nervous system	502	211	291	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	3	-	-
(145) Meningitis	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(146) Other inflammatory diseases of central nervous system	7	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(147) Parkinson 's disease	101	60	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(148) Alzheimer 's disease	263	76	187	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(149) Multiple sclerosis	17	5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(150) Epilepsy	4	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(152) Infantile cerebral palsy	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(153) All other diseases of nervous system	105	65	40	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	2	-	-
IX. Diseases of the circulatory system	2,466	1,317	1,149	-	-	-	1	-	-	1	-	1	-	1	1	1	1	1	1	3	3	5	5
Acute rheumatic fever and chronic rheumatic heart diseases	16	4	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chronic rheumatic heart diseases	16	4	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(157) Rheumatic mitral valve diseases	6	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(158) Rheumatic aortic valve diseases	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(159) Disorders of both mitral and aortic valves	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(160) Other chronic rheumatic heart diseases	6	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hypertensive diseases	134	60	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(161) Essential (primary) hypertension	50	19	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(162) Hypertensive heart disease	63	30	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(163) Hypertensive renal disease and secondary hypertension	17	10	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(164) Hypertensive heart and renal disease	4	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ischemic heart diseases	1,055	685	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	2
(165) Acute myocardial infarction	258	170	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-
(166) Other acute ischemic heart diseases	15	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Other forms of chronic ischemic heart disease	782	508	274	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
(167) Atherosclerotic cardiovascular disease, so described	362	246	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(168) All other forms of chronic ischemic heart disease	420	262	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Other heart diseases	738	340	398	-	-	-	1	-	-	1	-	-	-	-	-	1	-	2	3	2	3	2	2
Pulmonary heart disease and diseases of pulmonary circulation	53	22	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	1
(169) Pulmonary embolism	31	13	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	1
(170) Other pulmonary heart disease and diseases of pulmonary circulation	22	9	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other non-pulmonary forms of heart disease	685	318	367	-	-	-	1	-	-	1	-	-	-	-	-	1	-	1	1	1	2	1	1
(171) Acute and subacute endocarditis	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(172) Diseases of pericardium and acute myocarditis	4	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other diseases of endocardium	112	49	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(173) Nonrheumatic mitral valve disorders	7	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(174) Nonrheumatic aortic valve disorders	73	33	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(175) All other diseases of endocardium	32	14	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(176) Cardiomyopathy	52	27	25	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(177) Conduction disorders and cardiac dysrhythmias	176	75	101	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-
Heart failure	289	132	157	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1
(178) Congestive heart failure	251	116	135	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1
(179) Other and unspecified heart failure	38	16	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(180) Myocarditis, unspecified and myocardial degeneration	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.
VI. Diseases of the nervous system	1	-	3	1	3	3	6	3	8	3	11	9	10	15	19	24	28	24	40	43	78	163
(145) Meningitis	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-
(146) Other inflammatory diseases of central nervous system	-	-	-	-	-	-	1	-	-	-	-	-	1	-	2	1	2	-	-	-	-	-
(147) Parkinson 's disease	-	-	-	-	-	-	-	-	1	-	-	-	2	1	5	6	9	5	15	8	28	21
(148) Alzheimer 's disease	-	-	-	-	-	-	-	-	-	1	2	-	-	3	4	7	10	13	17	26	43	137
(149) Multiple sclerosis	-	-	-	-	-	-	-	1	2	1	-	3	-	3	2	2	-	-	1	2	-	-
(150) Epilepsy	-	-	-	-	-	1	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
(152) Infantile cerebral palsy	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(153) All other diseases of nervous system	1	-	3	-	3	2	5	2	5	1	9	4	7	7	8	7	4	7	7	7	7	4
IX. Diseases of the circulatory system	7	-	22	7	30	9	48	20	88	34	124	45	113	64	126	73	154	114	200	158	394	613
Acute rheumatic fever and chronic rheumatic heart diseases	-	-	-	-	-	-	-	1	1	-	-	-	-	3	-	1	-	1	1	3	2	3
Chronic rheumatic heart diseases	-	-	-	-	-	-	-	1	1	-	-	-	-	3	-	1	-	1	1	3	2	3
(157) Rheumatic mitral valve diseases	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	2	1	-
(158) Rheumatic aortic valve diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
(159) Disorders of both mitral and aortic valves	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2
(160) Other chronic rheumatic heart diseases	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	1	-	1	1
Hypertensive diseases	-	-	4	-	4	1	4	-	4	4	7	1	2	3	4	2	5	3	9	9	17	51
(161) Essential (primary) hypertension	-	-	1	-	1	-	-	-	-	1	3	1	1	-	2	1	2	1	4	4	5	23
(162) Hypertensive heart disease	-	-	3	-	3	1	4	-	3	3	3	-	1	2	2	1	2	2	3	4	6	20
(163) Hypertensive renal disease and secondary hypertension	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	1	-	2	1	5	5
(164) Hypertensive heart and renal disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Ischemic heart diseases	4	-	8	4	21	2	28	11	58	13	91	24	73	32	62	29	83	40	99	51	154	162
(165) Acute myocardial infarction	2	-	1	1	9	1	5	2	13	4	27	7	15	9	12	5	22	8	29	10	32	41
(166) Other acute ischemic heart diseases	-	-	-	1	-	-	-	-	-	-	2	-	2	1	-	-	1	-	1	3	1	2
Other forms of chronic ischemic heart disease	2	-	7	2	12	1	23	9	45	9	62	17	56	22	50	24	60	32	69	38	121	119
(167) Atherosclerotic cardiovascular disease, so described	2	-	3	2	5	-	22	7	29	8	37	11	32	17	26	9	26	15	22	11	41	36
(168) All other forms of chronic ischemic heart disease	-	-	4	-	7	1	1	2	16	1	25	6	24	5	24	15	34	17	47	27	80	83
Other heart diseases	2	-	7	1	1	1	6	6	14	9	14	14	21	13	36	17	34	41	53	57	146	233
Pulmonary heart disease and diseases of pulmonary circulation	-	-	-	1	-	-	1	1	3	4	-	-	2	3	5	1	1	3	2	2	7	13
(169) Pulmonary embolism	-	-	-	1	-	-	1	1	1	4	-	-	1	2	4	-	-	2	1	-	4	5
(170) Other pulmonary heart disease and diseases of pulmonary circulation	-	-	-	-	-	-	-	-	2	-	-	-	1	1	1	1	1	1	1	2	3	8
Other non-pulmonary forms of heart disease	2	-	7	-	1	1	5	5	11	5	14	14	19	10	31	16	33	38	51	55	139	220
(171) Acute and subacute endocarditis	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-
(172) Diseases of pericardium and acute myocarditis	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
Other diseases of endocardium	-	-	-	-	-	-	2	1	3	1	1	2	1	-	1	2	7	6	13	7	21	44
(173) Nonrheumatic mitral valve disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2
(174) Nonrheumatic aortic valve disorders	-	-	-	-	-	-	1	-	1	1	1	1	1	-	1	1	5	2	10	4	13	31
(175) All other diseases of endocardium	-	-	-	-	-	-	1	1	2	-	-	1	-	-	-	1	2	3	3	3	6	9
(176) Cardiomyopathy	1	-	2	-	-	1	2	1	1	2	4	3	4	2	3	-	1	4	2	5	5	7
(177) Conduction disorders and cardiac dysrhythmias	-	-	3	-	1	-	1	1	4	-	4	3	7	2	11	6	7	14	10	21	26	52
Heart failure	-	-	-	-	-	-	-	1	2	1	2	4	7	4	11	8	13	12	20	16	75	110
(178) Congestive heart failure	-	-	-	-	-	-	-	1	2	-	2	3	5	4	9	6	11	7	18	14	67	99
(179) Other and unspecified heart failure	-	-	-	-	-	-	-	-	-	1	-	1	2	-	2	2	2	5	2	2	8	11
(180) Myocarditis, unspecified and myocardial degeneration	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-

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**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.		
(181) All other and ill-defined forms of heart disease	48	31	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cerebrovascular diseases	406	171	235	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1	
(182) Subarachnoid hemorrhage	13	4	9	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1	
(183) Intracerebral and other intracranial hemorrhage	69	34	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(184) Cerebral infarction	14	11	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(185) Stroke, not specified as hemorrhage or infarction	235	85	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(186) Other cerebrovascular diseases and their sequelae	75	37	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Diseases of arteries, arterioles and capillaries	102	50	52	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	
(187) Atherosclerosis	17	7	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(188) Aortic aneurysm and dissection	45	28	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(189) Other diseases of arteries, arterioles and capillaries	40	15	25	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	
Other disorders of circulatory system	15	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(190) Phlebitis, thrombophlebitis, venous embolism and thrombosis	12	5	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(191) All other and unspecified disorders of circulatory system	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X. Diseases of the respiratory system	960	501	459	2	1	-	-	1	1	-	-	-	-	-	-	-	-	-	1	-	-	1	
Acute upper respiratory infections	2	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(193) Acute laryngitis and tracheitis	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(194) Other and unspecified acute upper respiratory infections	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other diseases of the respiratory system	958	500	458	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	1	-	-	1	
(195) Influenza	12	4	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pneumonia	143	74	69	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(197) Bacterial pneumonia	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(198) Pneumonia due to other or unspecified organisms	141	72	69	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other acute lower respiratory infections	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
(199) Acute bronchitis and bronchiolitis	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
(201) Other diseases of upper respiratory tract	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chronic lower respiratory diseases	600	313	287	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
Bronchitis, chronic and unspecified, emphysema and asthma	599	313	286	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
(202) Bronchitis, not specified as acute or chronic	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(203) Chronic bronchitis	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(204) Emphysema	46	31	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(205) Other chronic obstructive pulmonary disease	535	271	264	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(206) Asthma	16	11	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
(207) Bronchiectasis	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lung diseases due to external agents	72	39	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(208) Pneumoconioses and chemical effects	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pneumonitis due to solids and liquids	66	33	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(209) Pneumonitis due to food and vomit	66	33	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(212) Suppurative and necrotic conditions of lower respiratory tract	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(213) Pleural effusion and plaque	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(214) All other diseases of respiratory system	125	69	56	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
XI. Diseases of the digestive system	383	193	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	3	4
(215) Diseases of oral cavity, salivary glands and jaws	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>

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.
(181) All other and ill-defined forms of heart disease	-	-	2	-	-	-	-	1	1	1	3	-	-	1	4	-	4	2	6	6	11	6
Cerebrovascular diseases	-	-	1	1	2	5	6	2	7	3	9	1	14	11	16	18	24	21	31	28	61	142
(182) Subarachnoid hemorrhage	-	-	-	-	-	1	1	-	-	1	-	-	1	2	-	1	1	-	1	-	-	1
(183) Intracerebral and other intracranial hemorrhage	-	-	-	1	-	4	2	1	2	2	2	-	4	2	7	7	3	3	4	12	11	-
(184) Cerebral infarction	-	-	-	-	2	-	1	-	2	-	-	-	-	1	3	-	3	-	-	-	-	2
(185) Stroke, not specified as hemorrhage or infarction	-	-	-	-	-	-	1	1	2	-	5	1	7	5	8	7	11	13	17	18	34	105
(186) Other cerebrovascular diseases and their sequelae	-	-	1	-	-	-	1	-	1	-	2	-	2	1	3	3	2	5	10	6	15	23
Diseases of arteries, arterioles and capillaries	1	-	2	-	1	-	4	-	4	4	3	5	3	2	7	5	7	8	7	8	10	19
(187) Atherosclerosis	-	-	-	-	-	-	2	-	-	1	1	1	-	-	-	-	2	1	1	2	1	5
(188) Aortic aneurysm and dissection	1	-	1	-	1	-	2	-	4	2	1	2	3	1	3	2	3	4	4	4	5	2
(189) Other diseases of arteries, arterioles and capillaries	-	-	1	-	-	-	-	-	-	1	1	2	-	1	4	3	2	3	2	2	4	12
Other disorders of circulatory system	-	-	-	1	1	-	-	-	-	1	-	-	-	-	1	1	1	-	-	2	4	3
(190) Phlebitis, thrombophlebitis, venous embolism and thrombosis	-	-	-	1	1	-	-	-	-	1	-	-	-	-	1	1	-	-	-	2	3	2
(191) All other and unspecified disorders of circulatory system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1
X. Diseases of the respiratory system	1	1	2	-	1	6	12	13	28	19	34	11	46	21	59	53	69	65	77	88	168	179
Acute upper respiratory infections	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(193) Acute laryngitis and tracheitis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(194) Other and unspecified acute upper respiratory infections	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Other diseases of the respiratory system	1	1	2	-	1	6	12	13	28	19	34	11	46	21	59	53	68	65	77	88	168	179
(195) Influenza	-	1	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	2	6
Pneumonia	-	-	-	-	1	-	3	2	2	1	7	2	4	-	3	7	9	4	10	11	34	42
(197) Bacterial pneumonia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-
(198) Pneumonia due to other or unspecified organisms	-	-	-	-	1	-	3	2	2	1	7	2	4	-	2	7	9	4	10	11	33	42
Other acute lower respiratory infections	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(199) Acute bronchitis and bronchiolitis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(201) Other diseases of upper respiratory tract	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Chronic lower respiratory diseases	1	-	1	-	-	5	5	6	22	14	18	6	38	20	44	40	43	47	51	67	88	81
Bronchitis, chronic and unspecified, emphysema and asthma	1	-	1	-	-	5	5	6	22	14	18	6	38	20	44	40	43	47	51	67	88	80
(202) Bronchitis, not specified as acute or chronic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
(203) Chronic bronchitis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
(204) Emphysema	-	-	-	-	-	1	-	-	1	1	1	-	5	-	12	2	1	4	5	3	6	4
(205) Other chronic obstructive pulmonary disease	1	-	1	-	-	2	4	4	19	13	14	6	31	20	31	37	42	42	46	64	81	76
(206) Asthma	-	-	-	-	-	2	1	2	2	-	3	-	2	-	1	-	-	-	-	-	1	-
(207) Bronchiectasis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Lung diseases due to external agents	-	-	-	-	-	-	1	3	1	1	1	-	-	1	3	1	4	3	4	6	25	18
(208) Pneumoconioses and chemical effects	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	4	-
Pneumonitis due to solids and liquids	-	-	-	-	-	-	1	3	1	1	1	-	-	1	2	1	4	3	3	6	21	18
(209) Pneumonitis due to food and vomit	-	-	-	-	-	-	1	3	1	1	1	-	-	1	2	1	4	3	3	6	21	18
(212) Suppurative and necrotic conditions of lower respiratory tract	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(213) Pleural effusion and plaque	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
(214) All other diseases of respiratory system	-	-	1	-	-	-	2	2	3	3	7	3	4	-	9	5	12	11	12	4	18	28
XI. Diseases of the digestive system	6	3	9	9	10	14	25	10	28	17	23	21	14	13	20	14	16	16	13	22	23	46
(215) Diseases of oral cavity, salivary glands and jaws	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

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Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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 other parts of digestive system	382	193	189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	3	4
(216) Diseases of esophagus	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peptic ulcer	17	11	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(217) Gastric ulcer	5	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(218) Duodenal ulcer	5	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(219) Peptic ulcer, site unspecified	7	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(221) Gastritis and duodenitis	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(222) Dyspepsia and other diseases of stomach and duodenum	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(223) Diseases of appendix	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(224) Hernia	7	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(225) Crohn 's disease and ulcerative colitis	8	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(226) Vascular disorders and obstruction of intestine without hernia	67	21	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
(227) Diverticular disease of intestine	9	2	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(228) Other diseases of intestines and peritoneum	10	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(229) Diseases of peritoneum	7	1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diseases of liver	193	114	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	4
(230) Alcoholic liver disease	93	60	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2
(232) Fibrosis and cirrhosis of liver	50	31	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(233) Other diseases of liver	50	23	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(234) Cholelithiasis and other disorders of gallbladder	12	3	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disorders of biliary tract and pancreas	10	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(235) Pancreatitis	9	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(236) Other disorders of biliary tract and pancreas	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(237) All other diseases of digestive system	35	19	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
XII. Diseases of the skin and subcutaneous tissue	19	6	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(238) Infections of skin and subcutaneous tissue	9	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(239) Other and unspecified diseases of skin and subcutaneous tissue	10	3	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XIII. Diseases of the musculoskeletal system and connective tissue	80	23	57	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	1	-
(240) Rheumatoid arthritis and related inflammatory polyarthropathies	22	5	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(241) Systemic lupus erythematosus	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(242) Other arthropathies and related disorders	21	6	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(243) Dorsopathies	10	1	9	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(244) Soft tissue disorders	5	4	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue	19	5	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(245) Osteoporosis	14	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(246) Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
XIV. Diseases of the genitourinary system	154	69	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
Diseases of urinary system	150	66	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
Glomerular and renal tubulo-interstitial diseases	6	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Glomerular diseases	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-

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Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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 other parts of digestive system	6	3	9	9	10	14	25	10	28	17	23	21	14	12	20	14	16	16	13	22	23	46
(216) Diseases of esophagus	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Peptic ulcer	-	-	-	-	3	-	-	-	1	1	1	-	-	-	3	2	1	-	1	1	1	2
(217) Gastric ulcer	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	-	-	1	-	-	1
(218) Duodenal ulcer	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	1	1	-	-	-	-	-
(219) Peptic ulcer, site unspecified	-	-	-	-	2	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	1	1
(221) Gastritis and duodenitis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
(222) Dyspepsia and other diseases of stomach and duodenum	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(223) Diseases of appendix	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
(224) Hernia	-	-	-	-	-	-	1	-	-	-	-	1	1	1	-	-	-	1	-	1	1	1
(225) Crohn 's disease and ulcerative colitis	-	-	-	-	-	-	-	-	-	2	1	1	-	-	-	-	1	-	1	-	1	1
(226) Vascular disorders and obstruction of intestine without hernia	-	-	1	-	-	2	-	-	1	4	1	2	3	2	2	3	1	3	3	11	7	19
(227) Diverticular disease of intestine	-	1	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	-	-	1	2	1
(228) Other diseases of intestines and peritoneum	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-	2	2	1	1	-	1
(229) Diseases of peritoneum	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1	-	-	-	-	2
Diseases of liver	5	1	7	9	7	12	22	9	24	9	18	13	8	6	9	5	9	6	-	2	3	3
(230) Alcoholic liver disease	3	-	4	6	5	7	14	5	12	5	11	5	6	1	2	1	1	1	-	-	-	-
(232) Fibrosis and cirrhosis of liver	-	-	2	1	1	-	7	2	6	1	3	3	-	4	6	2	4	3	-	1	2	1
(233) Other diseases of liver	2	1	1	2	1	5	1	2	6	3	4	5	2	1	1	2	4	2	-	1	1	2
(234) Cholelithiasis and other disorders of gallbladder	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1	-	1	2	5	5
Disorders of biliary tract and pancreas	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	1	-	1	-	-	1	3
(235) Pancreatitis	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	1	-	1	-	-	-	3
(236) Other disorders of biliary tract and pancreas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(237) All other diseases of digestive system	1	1	-	-	-	-	1	1	-	-	1	-	2	-	2	1	1	1	6	4	5	7
XII. Diseases of the skin and subcutaneous tissue	-	-	-	-	-	-	-	1	-	2	-	-	1	2	1	-	-	-	1	1	3	7
(238) Infections of skin and subcutaneous tissue	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	2	4
(239) Other and unspecified diseases of skin and subcutaneous tissue	-	-	-	-	-	-	-	1	-	1	-	-	-	1	1	-	-	-	1	1	1	3
XIII. Diseases of the musculoskeletal system and connective tissue	-	-	-	-	-	-	-	1	1	2	-	3	1	2	4	6	1	4	4	7	10	30
(240) Rheumatoid arthritis and related inflammatory polyarthropathies	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	4	-	1	2	4	2	6
(241) Systemic lupus erythematosus	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-
(242) Other arthropathies and related disorders	-	-	-	-	-	-	-	-	-	2	-	2	-	-	2	1	1	1	2	2	2	6
(243) Dorsopathies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	1	5	5
(244) Soft tissue disorders	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-
Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	4	13
(245) Osteoporosis	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	13
(246) Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-
XIV. Diseases of the genitourinary system	-	-	-	-	-	1	2	1	2	5	1	4	1	4	4	9	10	7	10	11	37	43
Diseases of urinary system	-	-	-	-	-	1	2	1	2	4	1	4	1	4	4	9	10	7	10	11	34	43
Glomerular and renal tubulo-interstitial diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	2	-
Glomerular diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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>

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.		
(249) Other and unspecified glomerular diseases	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(250) Renal tubulo-interstitial diseases	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(251) Renal failure	95	46	49	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
(252) Urolithiasis	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(253) Other and unspecified disorders of kidney	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(254) Urinary tract infection, site not specified	42	15	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(255) Other diseases of urinary system	5	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diseases of male genital organs	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(256) Hyperplasia of prostate	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disorders of female genital organs	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(260) Noninflammatory disorders of female genital tract	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XV. Pregnancy, childbirth and the puerperium	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
(272) Other deaths related to pregnancy, childbirth and the puerperium	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
XVI. Certain conditions originating in the perinatal period	29	16	13	15	13	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(274) Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	5	4	1	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(275) Disorders related to short gestation and low birth weight, not elsewhere classified	9	6	3	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(277) Intrauterine hypoxia and birth asphyxia	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(279) Other respiratory conditions originating in the perinatal period	5	3	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(280) Infections specific to the perinatal period	3	1	2	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(281) Other and unspecified conditions originating in the perinatal period	6	2	4	1	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
XVII. Congenital malformations, deformations and chromosomal abnormalities	26	15	11	6	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(282) Anencephaly and similar malformations	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(283) Spina bifida	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(284) All other congenital malformations of nervous system	2	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(285) Congenital malformations of heart	6	3	3	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(286) Other congenital malformations of circulatory system	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(288) Other congenital malformations and deformations	5	4	1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(289) Down 's syndrome	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(290) All other chromosomal abnormalities, not elsewhere classified	6	3	3	1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVIII. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	213	94	119	11	6	1	-	-	-	-	-	-	-	-	-	-	-	1	2	2	4	-	-
(291) Senility	38	11	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ill-defined and unknown causes of mortality	80	50	30	11	6	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	3	-	-
(292) Sudden infant death syndrome	11	8	3	8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(293) Other ill-defined and unknown causes of mortality	69	42	27	3	3	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	3	-	-
(294) All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	95	33	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	-	-
XX. External causes of mortality	834	555	279	1	3	1	1	2	2	9	-	3	3	9	4	13	4	51	14	58	16	37	10
Accidents (unintentional injuries)	551	340	211	1	2	-	1	1	2	9	-	1	3	6	3	7	4	35	7	30	8	20	4
Transport accidents	209	152	57	-	-	-	-	-	1	3	-	1	2	6	2	5	3	24	6	21	5	12	3

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Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.
(249) Other and unspecified glomerular diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
(250) Renal tubulo-interstitial diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2
(251) Renal failure	-	-	-	-	1	2	1	2	4	-	2	1	3	3	3	7	4	8	7	22	24	
(252) Urolithiasis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(253) Other and unspecified disorders of kidney	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
(254) Urinary tract infection, site not specified	-	-	-	-	-	-	-	-	-	1	1	-	1	1	3	2	2	2	4	9	16	
(255) Other diseases of urinary system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	2	
Diseases of male genital organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
(256) Hyperplasia of prostate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
Disorders of female genital organs	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(260) Noninflammatory disorders of female genital tract	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
XV. Pregnancy, childbirth and the puerperium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(272) Other deaths related to pregnancy, childbirth and the puerperium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(277) Intrauterine hypoxia and birth asphyxia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(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	-	1	-	-	-	1
(282) Anencephaly and similar malformations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(283) Spina bifida	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(284) All other congenital malformations of nervous system	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(285) Congenital malformations of heart	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
(286) Other congenital malformations of circulatory system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(288) Other congenital malformations and deformations	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
(289) Down 's syndrome	-	-	-	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-
(290) All other chromosomal abnormalities, not elsewhere classified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
XVIII. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	4	-	-	3	4	2	7	1	5	3	7	4	5	1	3	-	4	4	8	11	29	81
(291) Senility	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	27
III-defined and unknown causes of mortality	4	-	-	3	3	1	7	1	3	2	6	3	3	1	2	-	2	2	1	3	2	8
(292) Sudden infant death syndrome	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(293) Other ill-defined and unknown causes of mortality	4	-	-	3	3	1	7	1	3	2	6	3	3	1	2	-	2	2	1	3	2	8
(294)All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	-	-	-	-	1	1	-	-	2	1	1	1	2	-	1	-	2	2	7	8	16	46
XX. External causes of mortality	31	10	40	17	33	18	47	25	39	22	45	14	21	7	29	11	11	11	28	19	47	68
Accidents (unintentional injuries)	16	5	23	8	16	11	27	22	20	15	25	8	12	3	19	10	10	11	21	17	41	67
Transport accidents	6	3	15	3	7	2	10	6	8	6	11	5	5	2	7	4	2	1	5	-	4	3

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Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.		
Motor vehicle accidents	195	141	54	-	-	-	-	-	1	2	-	1	2	5	2	5	2	22	6	21	5	12	3
(296) Pedestrian involved in collision with motor vehicle	7	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(298) Motorcyclist involved in any accident except collision with railway train	22	21	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	-	5	-	-	-
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	18	15	3	-	-	-	-	-	-	-	-	-	1	-	2	-	4	1	2	-	-	-	-
(302) Occupant of car, pickup truck or van involved in collision with other motor vehicle	25	16	9	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	1	-	4	-	-
(304) Occupant of motor vehicle involved in noncollision accident	45	26	19	-	-	-	-	-	-	1	-	1	-	-	1	1	1	6	2	5	2	4	3
(305) Occupant of special-use motor vehicle involved in any accident	10	10	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-
(306) Other and unspecified motor vehicle accidents	67	47	20	-	-	-	-	-	-	1	-	-	-	1	2	1	1	1	9	2	7	3	3
(308) Other and unspecified land transport accidents	3	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(309) Water transport accidents	6	4	2	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-
(310) Air and space transport accidents	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(311) Other and unspecified transport accidents and their sequelae	4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Falls	110	50	60	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(312) Fall on same level	42	19	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(313) Fall from one level to another	16	10	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(314) Unspecified fall	52	21	31	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(315) Accidental discharge of firearms	5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
(316) Accidental explosion	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(317) Accidental drowning and submersion	15	12	3	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	1	-	1	-
(318) Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract	23	11	12	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(319) Other accidental and unspecified threats to breathing	11	7	4	1	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-
(322) Accidental exposure to smoke, fire and flames	7	5	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(325) Earthquake, volcanic eruption, avalanche landslide and other earth movements	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
Accidental poisoning and exposure to noxious substances	87	49	38	-	-	-	-	-	-	-	-	-	1	-	1	2	-	5	-	6	3	5	-
(327) Accidental poisoning by and exposure to drugs and other biological substances	75	40	35	-	-	-	-	-	-	-	-	-	1	-	1	1	-	5	-	5	2	4	-
(328) Accidental poisoning by and exposure to other and unspecified solid or liquid substances	9	6	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-
(329) Accidental poisoning by and exposure to other gases and vapors	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
(330) All other and unspecified accidents and their sequelae	79	46	33	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	1	2	-	-	-
Intentional self-harm (suicide)	226	182	44	-	-	-	-	-	-	-	-	1	-	3	1	5	-	11	4	24	6	12	3
(331) Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances	20	9	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	2	-	1
(333) Intentional self-poisoning (suicide) by and exposure to other gases and vapors	4	3	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>

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.
Motor vehicle accidents	6	3	14	3	6	2	8	6	8	5	10	5	5	2	7	4	2	1	4	-	3	2
(296) Pedestrian involved in collision with motor vehicle	-	-	1	-	-	-	1	1	-	-	1	-	-	-	1	-	-	-	-	-	1	-
(298) Motorcyclist involved in any accident except collision with railway train	2	-	4	-	-	-	3	-	3	-	-	-	-	-	2	-	-	-	-	-	-	-
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	-	-	1	-	1	-	-	1	1	1	-	-	2	-	-	-	-	-	1	-	-	-
(302) Occupant of car, pickup truck or van involved in collision with other motor vehicle	-	-	1	1	2	-	-	2	-	1	2	-	1	1	-	2	1	-	-	-	1	1
(304) Occupant of motor vehicle involved in noncollision accident	1	-	1	2	1	1	1	1	2	2	1	2	-	-	1	1	-	-	-	-	-	1
(305) Occupant of special-use motor vehicle involved in any accident	2	-	1	-	-	-	-	-	-	-	2	-	1	-	1	-	-	-	-	-	-	-
(306) Other and unspecified motor vehicle accidents	1	3	5	-	2	1	3	1	2	1	4	2	1	1	2	1	1	1	3	-	1	-
(308) Other and unspecified land transport accidents	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
(309) Water transport accidents	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-
(310) Air and space transport accidents	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(311) Other and unspecified transport accidents and their sequelae	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Falls	1	-	-	-	1	1	-	1	1	1	2	1	3	-	5	3	5	6	8	11	23	36
(312) Fall on same level	1	-	-	-	-	1	-	1	-	-	-	-	-	-	1	1	2	3	3	3	12	14
(313) Fall from one level to another	-	-	-	-	1	-	-	-	1	1	-	1	2	-	2	1	1	-	2	1	1	2
(314) Unspecified fall	-	-	-	-	-	-	-	-	-	-	2	-	1	-	2	1	2	3	3	7	10	20
(315) Accidental discharge of firearms	-	-	1	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(316) Accidental explosion	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(317) Accidental drowning and submersion	3	-	-	1	-	-	-	-	2	-	1	1	-	-	-	-	-	-	-	-	1	-
(318) Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract	-	-	-	-	-	1	1	-	1	-	1	-	-	-	1	-	-	1	1	2	5	8
(319) Other accidental and unspecified threats to breathing	2	-	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
(322) Accidental exposure to smoke, fire and flames	-	-	-	-	-	-	1	-	-	1	2	-	-	-	1	-	-	-	-	-	-	-
(325) Earthquake, volcanic eruption, avalanche landslide and other earth movements	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accidental poisoning and exposure to noxious substances	4	2	5	4	6	6	5	13	4	4	2	1	2	1	1	1	-	-	1	1	1	-
(327) Accidental poisoning by and exposure to drugs and other biological substances	4	2	4	4	6	6	4	12	2	3	1	1	2	1	-	1	-	-	1	1	1	-
(328) Accidental poisoning by and exposure to other and unspecified solid or liquid substances	-	-	-	-	-	-	1	1	2	1	1	-	-	-	1	-	-	-	-	-	-	-
(329) Accidental poisoning by and exposure to other gases and vapors	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(330) All other and unspecified accidents and their sequelae	-	-	1	-	1	1	7	2	3	2	6	-	2	-	4	1	3	3	6	3	7	20
Intentional self-harm (suicide)	14	4	15	6	16	3	14	3	18	6	18	4	8	3	9	-	1	-	7	1	6	-
(331) Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances	1	1	-	-	2	2	1	1	1	1	-	1	-	1	-	-	-	-	1	1	-	-
(333) Intentional self-poisoning (suicide) by and exposure to other gases and vapors	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>

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.		
(334) Intentional self-harm (suicide) by hanging, strangulation and suffocation	41	32	9	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	8	2	2	-	
(335) Intentional self-harm (suicide) by discharge of firearms	150	131	19	-	-	-	-	-	-	-	-	1	-	3	-	5	-	9	1	12	2	10	1
(336) Intentional self-harm (suicide) by jumping from a high place	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(337) Intentional self-harm (suicide) by all other and unspecified means and their sequelae	10	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	1	
Assault (homicide)	25	17	8	-	-	-	-	1	-	-	-	-	-	-	-	-	4	2	2	-	3	1	
(339) Assault (homicide) by hanging, strangulation and suffocation	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(340) Assault (homicide) by discharge of firearms	12	8	4	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-	1	-	1	1	
(341) Assault (homicide) by sharp object	7	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	
(346) Assault (homicide) by all other and unspecified means and their sequelae	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	
Event of undetermined intent	26	13	13	-	1	1	-	-	-	-	-	1	-	-	1	-	1	1	1	2	2	2	
(347) Poisoning by and exposure to drugs and biological substances, undetermined intent	18	7	11	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	2	2	2	
(349) Poisoning by and exposure to other gases and vapors, undetermined intent	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(351) Falling, jumping or pushed from a high place, undetermined intent	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(352) All other and unspecified events of undetermined intent and their sequelae	6	5	1	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Legal intervention	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
(354) Other legal intervention and their sequelae	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
Complications of medical and surgical care	5	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(356) Drugs, medicaments and biological substances causing adverse effects in therapeutic use, and their sequelae	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(357) Misadventures to patients during medical and surgical care and their sequelae	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(358) Other complications of medical and surgical care and their sequelae	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

* 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>

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2012**

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.
(334) Intentional self-harm (suicide) by hanging, strangulation and suffocation	2	-	5	-	1	1	4	-	4	1	2	1	1	1	1	-	-	-	-	-	1	-
(335) Intentional self-harm (suicide) by discharge of firearms	9	3	10	5	13	-	8	1	10	4	16	1	6	1	8	-	1	-	6	-	4	-
(336) Intentional self-harm (suicide) by jumping from a high place	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(337) Intentional self-harm (suicide) by all other and unspecified means and their sequelae	-	-	-	-	-	-	1	1	2	-	-	1	1	-	-	-	-	-	-	-	-	-
Assault (homicide)	-	-	1	2	-	1	3	-	1	1	1	-	1	1	-	-	-	-	-	-	-	-
(339) Assault (homicide) by hanging, strangulation and suffocation	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(340) Assault (homicide) by discharge of firearms	-	-	1	1	-	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
(341) Assault (homicide) by sharp object	-	-	-	-	-	-	2	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-
(346) Assault (homicide) by all other and unspecified means and their sequelae	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Event of undetermined intent	1	1	1	1	1	2	2	-	-	-	1	2	-	-	-	1	-	-	-	-	-	-
(347) Poisoning by and exposure to drugs and biological substances, undetermined intent	-	1	-	-	-	2	1	-	-	-	1	2	-	-	-	1	-	-	-	-	-	-
(349) Poisoning by and exposure to other gases and vapors, undetermined intent	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(351) Falling, jumping or pushed from a high place, undetermined intent	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(352) All other and unspecified events of undetermined intent and their sequelae	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Legal intervention	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(354) Other legal intervention and their sequelae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Complications of medical and surgical care	-	-	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1
(356) Drugs, medicaments and biological substances causing adverse effects in therapeutic use, and their sequelae	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(357) Misadventures to patients during medical and surgical care and their sequelae	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(358) Other complications of medical and surgical care and their sequelae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	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>

Table D-2

Frequency of Death by Sex, Race*, and up to 113 Selected Underlying Causes and Enterocolitis due to Clostridium Difficile
Montana Residents, 2012**

Cause of Death**	Total				Male				Female			
	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other
All Causes	8,876	8,290	538	48	4,603	4,295	286	22	4,273	3,995	252	26
(1#) Salmonella infections	1	1	-	-	-	-	-	-	1	1	-	-
(3) Certain other intestinal infections	19	14	5	-	8	3	5	-	11	11	-	-
(#) Tuberculosis	1	1	-	-	1	1	-	-	-	-	-	-
(4) Respiratory tuberculosis	1	1	-	-	1	1	-	-	-	-	-	-
(9#) Septicemia	75	66	8	1	39	34	4	1	36	32	4	-
(14#) Viral hepatitis	29	24	5	-	19	16	3	-	10	8	2	-
(15#) Human immunodeficiency virus (HIV) disease	3	3	-	-	3	3	-	-	-	-	-	-
(17) Other and unspecified infectious and parasitic diseases and their sequelae	17	13	4	-	9	8	1	-	8	5	3	-
(#) Malignant neoplasms	1,927	1,826	91	10	1,024	970	49	5	903	856	42	5
(18) Malignant neoplasms of lip, oral cavity and pharynx	26	26	-	-	19	19	-	-	7	7	-	-
(19) Malignant neoplasm of esophagus	53	52	1	-	42	41	1	-	11	11	-	-
(20) Malignant neoplasm of stomach	25	24	1	-	15	14	1	-	10	10	-	-
(21) Malignant neoplasms of colon, rectum and anus	173	159	13	1	92	83	8	1	81	76	5	-
(22) Malignant neoplasms of liver and intrahepatic bile ducts	60	54	6	-	43	39	4	-	17	15	2	-
(23) Malignant neoplasm of pancreas	104	101	2	1	46	46	-	-	58	55	2	1
(24) Malignant neoplasm of larynx	16	16	-	-	14	14	-	-	2	2	-	-
(25) Malignant neoplasms of trachea, bronchus and lung	493	467	24	2	262	248	12	2	231	219	12	-
(26) Malignant melanoma of skin	42	41	1	-	29	29	-	-	13	12	1	-
(27) Malignant neoplasm of breast	134	128	5	1	1	1	-	-	133	127	5	1
(28) Malignant neoplasm of cervix uteri	10	10	-	-	-	-	-	-	10	10	-	-
(29) Malignant neoplasms of corpus uteri and uterus, part unspecified	25	24	1	-	-	-	-	-	25	24	1	-
(30) Malignant neoplasm of ovary	54	47	7	-	-	-	-	-	54	47	7	-
(31) Malignant neoplasm of prostate	101	96	5	-	101	96	5	-	-	-	-	-
(32) Malignant neoplasms of kidney and renal pelvis	44	39	5	-	34	30	4	-	10	9	1	-
(33) Malignant neoplasm of bladder	62	62	-	-	44	44	-	-	18	18	-	-
(34) Malignant neoplasms of meninges, brain and other parts of central nervous system	56	54	2	-	33	31	2	-	23	23	-	-
Malignant neoplasms of lymphoid, hematopoietic and related tissue	198	192	4	2	116	112	3	1	82	80	1	1
(35) Hodgkin's disease	3	3	-	-	1	1	-	-	2	2	-	-
(36) Non-Hodgkin's lymphoma	83	80	1	2	45	43	1	1	38	37	-	1
(37) Leukemia	71	70	1	-	45	45	-	-	26	25	1	-
(38) Multiple myeloma and immunoproliferative neoplasms	40	38	2	-	24	22	2	-	16	16	-	-
(39) Other and unspecified malignant neoplasms of lymphoid hematopoietic and related tissue	1	1	-	-	1	1	-	-	-	-	-	-
(40) All other and unspecified malignant neoplasms	251	234	14	3	133	123	9	1	118	111	5	2
(41#) In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	58	52	6	-	43	39	4	-	15	13	2	-
(42#) Anemias	19	19	-	-	6	6	-	-	13	13	-	-
(43#) Diabetes mellitus	231	200	28	3	139	123	14	2	92	77	14	1
(#) Nutritional deficiencies	14	14	-	-	6	6	-	-	8	8	-	-
(44) Malnutrition	14	14	-	-	6	6	-	-	8	8	-	-
(46#) Meningitis	2	1	1	-	1	1	-	-	1	-	1	-
(47#) Parkinson's disease	101	99	2	-	60	58	2	-	41	41	-	-
(48#) Alzheimer's disease	263	263	-	-	76	76	-	-	187	187	-	-
Major cardiovascular diseases	2,451	2,332	108	11	1,310	1,248	58	4	1,141	1,084	50	7
(#) Diseases of heart	1,876	1,785	84	7	1,060	1,014	44	2	816	771	40	5
(49) Acute rheumatic fever and chronic rheumatic heart diseases	16	15	1	-	4	4	-	-	12	11	1	-
(50) Hypertensive heart disease	63	61	2	-	30	28	2	-	33	33	-	-
(51) Hypertensive heart and renal disease	4	4	-	-	1	1	-	-	3	3	-	-

*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.

Table D-2

Frequency of Death by Sex, Race*, and up to 113 Selected Underlying Causes and Enterocolitis due to Clostridium Difficile
Montana Residents, 2012**

Cause of Death**	Total				Male				Female			
	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other
Ischemic heart diseases	1,055	985	66	4	685	646	37	2	370	339	29	2
(52) Acute myocardial infarction	258	245	12	1	170	164	5	1	88	81	7	-
(53) Other acute ischemic heart diseases	15	12	3	-	7	6	1	-	8	6	2	-
Other forms of chronic ischemic heart disease	782	728	51	3	508	476	31	1	274	252	20	2
(54) Atherosclerotic cardiovascular disease, so described	362	335	25	2	246	229	17	-	116	106	8	2
(55) All other forms of chronic ischemic heart disease	420	393	26	1	262	247	14	1	158	146	12	-
Other heart diseases	738	720	15	3	340	335	5	-	398	385	10	3
(56) Acute and subacute endocarditis	3	3	-	-	2	2	-	-	1	1	-	-
(57) Diseases of pericardium and acute myocarditis	4	4	-	-	2	2	-	-	2	2	-	-
(58) Heart failure	289	283	6	-	132	132	-	-	157	151	6	-
(59) All other forms of heart disease	442	430	9	3	204	199	5	-	238	231	4	3
(60#) Essential hypertension and hypertensive renal disease	67	63	2	2	29	27	1	1	38	36	1	1
(61#) Cerebrovascular diseases	406	388	17	1	171	160	10	1	235	228	7	-
(62#) Atherosclerosis	17	14	3	-	7	5	2	-	10	9	1	-
Other diseases of circulatory system	85	82	2	1	43	42	1	-	42	40	1	1
(63#) Aortic aneurysm and dissection	45	43	1	1	28	27	1	-	17	16	-	1
(64) Other diseases of arteries, arterioles and capillaries	40	39	1	-	15	15	-	-	25	24	1	-
(65) Other disorders of circulatory system	15	15	-	-	7	7	-	-	8	8	-	-
(#) Influenza and pneumonia	155	145	8	2	78	74	3	1	77	71	5	1
(66) Influenza	12	11	-	1	4	4	-	-	8	7	-	1
(67) Pneumonia	143	134	8	1	74	70	3	1	69	64	5	-
Other acute lower respiratory infections	1	1	-	-	-	-	-	-	1	1	-	-
(68#) Acute bronchitis and bronchiolitis	1	1	-	-	-	-	-	-	1	1	-	-
(#) Chronic lower respiratory diseases	600	577	21	2	313	297	14	2	287	280	7	-
(70) Bronchitis, chronic and unspecified	2	2	-	-	-	-	-	-	2	2	-	-
(71) Emphysema	46	41	4	1	31	28	2	1	15	13	2	-
(72) Asthma	16	16	-	-	11	11	-	-	5	5	-	-
(73) Other chronic lower respiratory diseases	536	518	17	1	271	258	12	1	265	260	5	-
(74#) Pneumoconioses and chemical effects	6	6	-	-	6	6	-	-	-	-	-	-
(75#) Pneumonitis due to solids and liquids	66	63	3	-	33	32	1	-	33	31	2	-
(76) Other diseases of respiratory system	132	123	9	-	71	66	5	-	61	57	4	-
(77#) Peptic ulcer	17	16	1	-	11	10	1	-	6	6	-	-
(78#) Diseases of appendix	1	1	-	-	1	1	-	-	-	-	-	-
(79#) Hernia	7	7	-	-	5	5	-	-	2	2	-	-
(#) Chronic liver disease and cirrhosis	143	107	34	2	91	73	17	1	52	34	17	1
(80) Alcoholic liver disease	93	65	28	-	60	45	15	-	33	20	13	-
(81) Other chronic liver disease and cirrhosis	50	42	6	2	31	28	2	1	19	14	4	1
(82#) Cholelithiasis and other disorders of gallbladder	12	12	-	-	3	3	-	-	9	9	-	-
(#) Nephritis, nephrotic syndrome and nephrosis	99	91	7	1	48	44	4	-	51	47	3	1
(84) Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified	4	4	-	-	2	2	-	-	2	2	-	-
(85) Renal failure	95	87	7	1	46	42	4	-	49	45	3	1
(87#) Infections of kidney	2	2	-	-	1	1	-	-	1	1	-	-
(88#) Hyperplasia of prostate	3	3	-	-	3	3	-	-	-	-	-	-
(#) Pregnancy, childbirth and the puerperium	2	1	1	-	-	-	-	-	2	1	1	-
(91) Other complications of pregnancy childbirth and the puerperium	2	1	1	-	-	-	-	-	2	1	1	-
(92#) Certain conditions originating in the perinatal period	29	24	3	2	16	12	3	1	13	12	-	1

*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.

Table D-2

Frequency of Death by Sex, Race*, and up to 113 Selected Underlying Causes and Enterocolitis due to Clostridium Difficile
Montana Residents, 2012**

Cause of Death**	Total				Male				Female			
	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other
(93#) Congenital malformations deformations and chromosomal abnormalities	26	22	4	-	15	14	1	-	11	8	3	-
(94) Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	213	197	15	1	94	85	9	-	119	112	6	1
(95) All other diseases (Residual)	1,302	1,220	77	5	508	478	28	2	794	742	49	3
(#) Accidents (unintentional injuries)	551	476	72	3	340	298	42	-	211	178	30	3
Transport accidents	209	166	42	1	152	126	26	-	57	40	16	1
(96) Motor vehicle accidents	195	152	42	1	141	115	26	-	54	37	16	1
(97) Other land transport accidents	3	3	-	-	3	3	-	-	-	-	-	-
(98) Water, air and space, and other and unspecified transport accidents and their sequelae	11	11	-	-	8	8	-	-	3	3	-	-
Nontransport accidents	342	310	30	2	188	172	16	-	154	138	14	2
(99) Falls	110	110	-	-	50	50	-	-	60	60	-	-
(100) Accidental discharge of firearms	5	4	1	-	4	4	-	-	1	-	1	-
(101) Accidental drowning and submersion	15	11	4	-	12	8	4	-	3	3	-	-
(102) Accidental exposure to smoke, fire and flames	7	6	1	-	5	4	1	-	2	2	-	-
(103) Accidental poisoning and exposure to noxious substances	87	74	12	1	49	44	5	-	38	30	7	1
(104) Other and unspecified nontransport accidents and their sequelae	118	105	12	1	68	62	6	-	50	43	6	1
(#) Intentional self-harm (suicide)	226	206	16	4	182	169	11	2	44	37	5	2
(105) Intentional self-harm (suicide) by discharge of firearms	150	141	8	1	131	123	8	-	19	18	-	1
(106) Intentional self-harm (suicide) by other and unspecified means and their sequelae	76	65	8	3	51	46	3	2	25	19	5	1
(#) Assault (homicide)	25	19	5	1	17	11	5	1	8	8	-	-
(107) Assault (homicide) by discharge of firearms	12	10	1	1	8	6	1	1	4	4	-	-
(108) Assault (homicide) by other and unspecified means and their sequelae	13	9	4	-	9	5	4	-	4	4	-	-
(109#) Legal intervention	1	1	-	-	1	1	-	-	-	-	-	-
Events of undetermined intent	26	23	3	-	13	12	1	-	13	11	2	-
(111) Other and unspecified events of undetermined intent and their sequelae	26	23	3	-	13	12	1	-	13	11	2	-
(113#) Complications of medical and surgical care	5	4	1	-	2	1	1	-	3	3	-	-
(#) Enterocolitis due to Clostridium difficile	13	9	4	-	6	2	4	-	7	7	-	-

*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.

Table D-3
Frequency and Rate of Death from Selected Underlying Causes by Year*
Montana Residents, 1953 - 2012

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+
2012	195	19.4	356	35.4	551	54.8	54	5.3	1,927	191.7	231	22.9	1,876	186.6	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	192.9	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	17.4
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	20.1
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	4.6	90	14.4	179	28.6	104	16.6
1953	228	37.0	306	49.6	534	86.6	17	±	809	131.3	73	11.8	2,164	351.2	23	3.						

Table D-4

**Frequency and Rate of Death from Selected Communicable Diseases by Year*
Montana, 1930 - 2012**

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‡
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	‡	-	‡	1	‡
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	‡	-	‡	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	‡	-	‡	1	‡
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	‡	-	‡	-	‡
1975	-	‡	-	‡	17	‡	-	‡	-	‡	1	‡	1	‡	13	‡	-	‡	-	‡

*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" is 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 - 2012**

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‡
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" is 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.

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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 - 2012**

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
2012	1,024	903	101	1	133	262	231	92	81	44	18	25	40	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	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	
1971	643	408	70	3	88	177	35	78	58	35	8	11	23	15	17	35	27	18	222	131	

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 - 2012**

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
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, 2012**

Cause Of Death**	Total	0 To 7 Days	8 To 27 Days	28 Days To One Year
All Causes	71	37	4	30
Certain infectious and parasitic diseases	1	-	-	1
(8#) Septicemia	1	-	-	1
Neoplasms	1	1	-	-
(24#) In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	1	1	-	-
(#) Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	1	1	-	-
(26) Hemorrhagic conditions and other diseases of blood and blood-forming organs	1	1	-	-
Diseases of the nervous system	1	-	-	1
(37) Other diseases of nervous system	1	-	-	1
Diseases of the respiratory system	3	-	-	3
(45#) Acute upper respiratory infections	1	-	-	1
(#) Influenza and pneumonia	1	-	-	1
(47) Pneumonia	1	-	-	1
(52) Other and unspecified diseases of respiratory system	1	-	-	1
Certain conditions originating in the perinatal period	28	25	1	2
Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	5	5	-	-
# Newborn affected by maternal complications of pregnancy	14	14	-	-
(61) Newborn affected by premature rupture of membranes	2	2	-	-
(63) Newborn affected by other maternal complications of pregnancy	1	1	-	-
(#) Newborn affected by complications of placenta, cord and membranes	2	2	-	-
(66) Newborn affected by chorioamnionitis	2	2	-	-
Disorders related to length of gestation and fetal malnutrition	9	9	-	-
(#) Disorders related to short gestation and low birth weight, not elsewhere classified	9	9	-	-
(71) Extremely low birth weight or extreme immaturity	6	6	-	-
(72) Other low birth weight or preterm	3	3	-	-
(#) Intrauterine hypoxia and birth asphyxia	1	1	-	-
(75) Intrauterine hypoxia	1	1	-	-
Other respiratory conditions originating in the perinatal period	5	4	1	-
(80#) Interstitial emphysema and related conditions originating in the perinatal period	1	-	1	-
(83#) Atelectasis	3	3	-	-
(84) All other respiratory conditions originating in the perinatal period	1	1	-	-
Infections specific to the perinatal period	3	2	-	1
(85#) Bacterial sepsis of newborn	2	1	-	1
(87) All other infections specific to the perinatal period	1	1	-	-
(93#) Necrotizing enterocolitis of newborn	1	-	-	1
(95) Other perinatal conditions	4	4	-	-
(#) Congenital malformations, deformations and chromosomal abnormalities	14	9	2	3
(96) Anencephaly and similar malformations	1	-	1	-
(99) Other congenital malformations of nervous system	1	1	-	-
(100) Congenital malformations of heart	4	2	1	1
(104) Congenital malformations of genitourinary system	1	1	-	-
(105) Congenital malformations and deformations of musculoskeletal system, limbs and integument	2	1	-	1
(107) Edward's syndrome	3	2	-	1
(109) Other congenital malformations and deformations	1	1	-	-
(110) Other chromosomal abnormalities, not elsewhere classified	1	1	-	-
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	17	1	1	15
(111#) Sudden infant death syndrome	11	-	1	10
(112) Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	6	1	-	5
(113) All other diseases (Residual)	1	-	-	1
External causes of mortality	4	-	-	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/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, 2012**

Cause Of Death**	Total	0 To 7 Days	8 To 27 Days	28 Days To One Year
(#) Accidents (unintentional injuries)	3	-	-	3
(119) Accidental suffocation and strangulation in bed	3	-	-	3
(130) Other external causes	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/130causesinfantdeath.pdf>. Those marked with a "#" sign are rankable as leading causes.

Table D-7

**Frequency of Infant Death by Age in Days and Five-Year Infant Mortality Rate
Montana Rates, 1993- 2012**

Year	Births	0-7 Days	8-27 Days	28 Days To One Year	Infant Deaths	Infant Death Rate+	Lower CI **	Upper CI **
2008-2012	61,024	178	41	147	370	6.1	5.5	6.7
2003-2007	59,407	148	45	161	356	6.0	5.4	6.6
1998-2002	54,505	178	37	152	370	6.8	6.1	7.5
1993-1997	55,238	188	32	171	394	7.1	6.4	7.9

+ 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, 2003-2012**

	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
Total, all Maternal and Late Maternal Causes	2	6	2	5	2	4	2	6	9	5
Maternal causes (A34,O00-O95,O98-O99)	-	4	1	5	1	2	-	1	2	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)	-	2	-	1	1	1	-	-	2	-
Eclampsia and pre-eclampsia (O11,O13-O16)	-	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)	-	-	-	-	1	-	-	-	1	-
Obstetric death of unspecified cause (O95)	-	-	1	-	-	-	-	-	-	-
Indirect obstetric causes (O98-O99)	-	2	-	4	-	1	-	1	-	2
Maternal causes more than 42 days after delivery or termination of pregnancy (O96-O97)	2	2	1	-	1	2	2	5	7	3
Death from any obstetric cause occurring more than 42 days but less than one year after delivery (O96)	2	2	1	-	1	2	2	5	7	3
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, 2008-2012**

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	18.5	17.6	26.1	18,839	349,132	-	73.4	78	79	59	114	18.7	44,285
HIV Infection	27.0	26.2	30.0	26	703	33	49.3	48	48	45	84	10.4	27
Cancer	12.8	12.6	16.3	5,254	67,360	-	71.8	73	73	66	103	13.4	9,593
Diabetes	14.2	13.8	16.2	555	7,904	-	73.6	76	78	65	102	14.9	1,185
Alzheimer's Disease	5.4	5.5	4.6	85	463	54	86.7	88	88	82	104	7.4	1,370
Heart Disease	13.6	13.3	16.8	3,326	45,210	-	77.6	81	81	68	107	14.3	9,418
Cerebrovascular Disease	11.9	11.6	13.6	523	6,205	-	81.1	84	84	69	107	12.3	2,275
Atherosclerosis	12.0	11.4	21.0	27	325	51	81.6	84	85	66.5	105	13.0	108
Influenza And Pneumonia	16.4	15.6	21.4	213	3,497	-	80.5	85	86	66	108	15.9	823
Chronic Lower Respiratory Diseases	9.2	9.1	11.2	1,115	10,229	-	77.4	79	79	75	104	10.8	3,124
Chronic Liver Disease And Cirrhosis	20.5	18.3	26.5	610	12,522	21	56.7	56	58	49	96	12.5	667
Nephritis, Nephrotic Syndrome & Nephrosis	14.0	12.7	20.0	137	1,924	1	80.5	83	84	68	101	13.4	611
Congenital Malformations & Chromosomal Anomalies	54.8	53.9	59.1	164	8,990	-	25.3	1	1	-	96	30.7	178
Conditions Originating In Perinatal Period	74.6	74.6	74.9	134	9,999	-	0.4	-	-	-	43	3.7	134
Sudden Infant Death Syndrome	75.0	75.0	75.0	63	4,725	-	0.0	-	-	-	-	0.0	63
Accidents	33.6	32.5	38.9	2,068	69,487	-	54.1	53	55	36	109	25.8	2,872
Motor Vehicle Accidents	37.6	36.6	42.7	948	35,669	-	40.5	37	39.5	29	95	20.7	1,019
Non-Motor Vehicle Accidents	30.2	29.2	35.3	1,120	33,818	-	61.6	62	66.5	43	109	25.3	1,853
Suicide	31.9	30.3	46.1	1,012	32,286	12	46.3	47	49	27	99	18.6	1,099
Homicide	38.6	38.6	38.3	143	5,519	-	37.7	37	40	34	93	18.0	147
Other Causes	18.3	17.4	23.8	3,384	61,784	-	77.4	83	83	60	114	17.6	10,591

*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, 2012**

Cause Of Death	All Gestational Ages	Less Than 23 Weeks	23 To 33 Weeks	34 Weeks Or More
All Causes	57	9	23	25
Certain conditions originating in the perinatal period	53	9	20	24
(#) Fetus affected by maternal conditions that may be unrelated to present pregnancy	4	-	3	1
(24) Fetus affected by other medical procedures and maternal conditions	2	-	1	1
(25) Fetus affected by unspecified maternal condition	2	-	2	-
(#) Fetus affected by maternal complications of pregnancy	8	4	2	2
(27) Fetus affected by premature rupture of membranes	4	4	-	-
(28) Fetus affected by oligohydramnios	1	-	1	-
(31) Fetus affected by multiple pregnancy	3	-	1	2
(#) Fetus affected by complications of placenta, cord and membranes	13	3	2	8
(36) Fetus affected by other forms of placental separation and hemorrhage	5	1	-	4
(37) Fetus affected by other and unspecified morphological and functional abnormalities of placenta	1	-	1	-
(39) Fetus affected by prolapsed cord	1	1	-	-
(40) Fetus affected by other compression of umbilical cord	2	1	-	1
(41) Fetus affected by other and unspecified conditions of umbilical cord	2	-	1	1
(42) Fetus affected by chorioamnionitis	1	-	-	1
(43) Fetus affected by other and unspecified abnormalities of membranes	1	-	-	1
(52#) Fetus affected by noxious influences transmitted via placenta	1	-	-	1
(53#) Slow fetal growth and fetal malnutrition	1	-	-	1
(#) Hemolytic disease of fetus	1	-	1	-
(81) Hydrops fetalis due to hemolytic disease	1	-	1	-
Other conditions originating in the perinatal period	25	2	12	11
(88#) Fetal death of unspecified cause	24	2	11	11
(92) All other specified conditions originating in the perinatal period	1	-	1	-
(#) Congenital malformations, deformations and chromosomal abnormalities	4	-	3	1
(107) Congenital malformations of digestive system	1	-	-	1
Congenital malformations of urinary system	1	-	1	-
(109) Renal agenesis and other reduction defects of kidney	1	-	1	-
Other congenital malformations	1	-	1	-
(114) Multiple congenital malformations, not elsewhere classified	1	-	1	-
Chromosomal abnormalities, not elsewhere classified	1	-	1	-
(118) Patau's syndrome	1	-	1	-