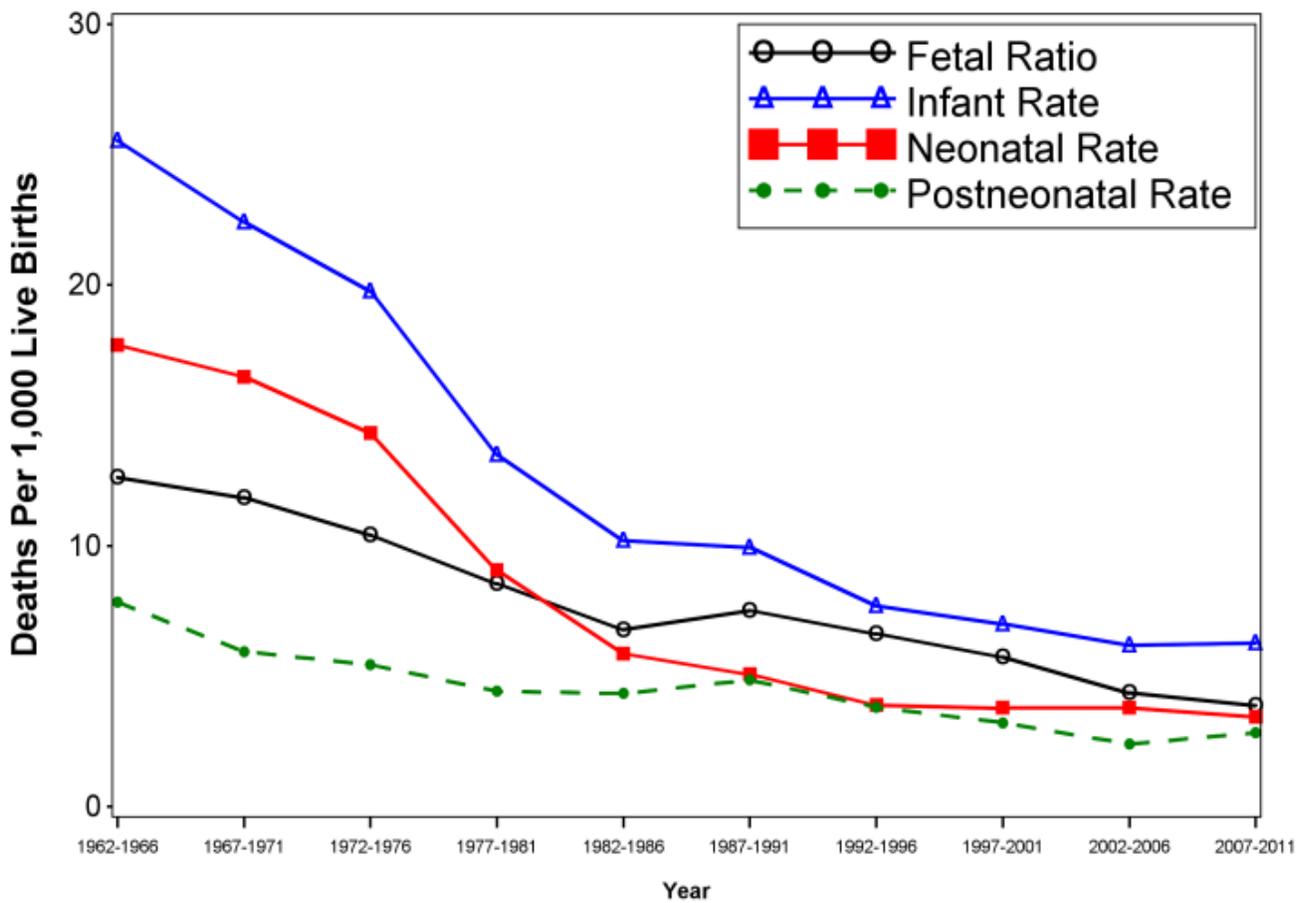


Montana Vital Statistics 2011

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

Five-Year Infant Mortality Rates and Fetal Mortality Ratios
Montana and United States, 1962-2011



Healthy People. Healthy Communities.

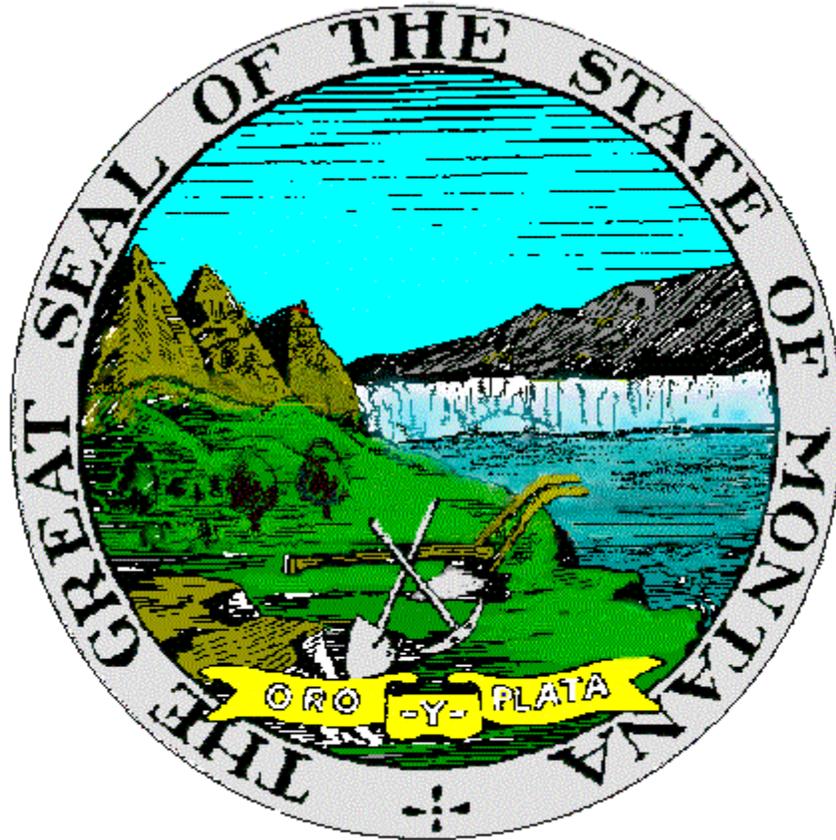
Department of Public Health & Human Services

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**

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

TABLE OF CONTENTS

Contents	Page
List of Figures	iv
List of Tables	vii
Introduction	1
<i>Vital Registration and Data Collection</i>	1
Technical Overview	3
<i>Data Sources and Limitations</i>	3
<i>Data Tabulations and Presentation</i>	6
<i>Definitions</i>	6
Natality	11
<i>Fertility</i>	11
<i>Low Birth Weight</i>	12
<i>Mother's Age, Race, and Marital Status</i>	12
Mortality	13
<i>Fetal, Infant, and Maternal Deaths</i>	14
<i>Age-Specific and Age-Adjusted Death Rates</i>	15
<i>Age, Sex, and Race</i>	21
<i>Years of Potential Life Lost</i>	23
Induced Abortion	26
List of Reference Tables	27
2011 Vital Statistics Reference Tables	29

LIST OF FIGURES

Figure	Contents	Page
Figure 1	Resident Birth Rates — Montana and the United States, 1977-2011	11
Figure 2	Fertility Rates for White Mothers — Montana Teens and Mothers of All Ages, 1990-2011	11
Figure 3	Fertility Rates for American Indian Mothers — Montana Teens and Mothers of All Ages, 1990-2011	11
Figure 4	Rate of Low Birth Weight Births – Montana Residents, 1974-2011	12
Figure 5	Percent of Births to Unmarried Mothers – Montana and United States Residents, 1990-2011.	12
Figure 6	Resident Crude Death Rates — Montana and the United States, 1974-2011	13
Figure 7	Age-Adjusted Death Rates — Montana and United States Residents, 2002-2011	13
Figure 8	Median Age at Death, 25 th and 75 th Percentiles – Montana Residents, 2007-2011	14
Figure 9	Five-Year Infant Mortality Rates and Mortality Ratios — Montana Residents, 1962-2011	14
Figure 10	Age-Adjusted Death Rates for All Causes — Montana and U.S. Residents, 2002-2011	16
Figure 11	Age-Specific Death Rates for All Causes — Montana Residents, 2011	16
Figure 12	Age-Adjusted Death Rates for Diseases of Heart —Montana and U.S. Residents, 2002-2011	16
Figure 13	Age-Specific Death Rates for Diseases of Heart —Montana Residents, 2011	16
Figure 14	Age-Adjusted Death Rates for Malignant Neoplasm (Cancer)— Montana and U.S. Residents, 2002-2011	16
Figure 15	Age-Specific Death Rates for Malignant Neoplasm (Cancer) — Montana Residents, 2011	16
Figure 16	Age-Adjusted Death Rates for Cerebrovascular Diseases— Montana and U.S. Residents, 2002-2011	17
Figure 17	Age-Specific Death Rates for Cerebrovascular Diseases — Montana Residents, 2011	17

LIST OF FIGURES

Figure	Contents	Page
Figure 18	Age-Adjusted Death Rates for Chronic Lower Respiratory Diseases — Montana and U.S. Residents, 2002-2011	17
Figure 19	Age-Specific Death Rates for Chronic Lower Respiratory Diseases — Montana Residents, 2011	17
Figure 20	Age-Adjusted Death Rates for Accidents (Unintentional Injuries) — Montana and U.S. Residents, 2002-2011	17
Figure 21	Age-Specific Death Rates for Accidents (Unintentional Injuries) — Montana Residents, 2011	17
Figure 22	Age-Adjusted Death Rates for Motor Vehicle Accidents — Montana and U.S. Residents, 2002-2011	18
Figure 23	Age-Specific Death Rates for Motor Vehicle Accidents — Montana Residents, 2011	18
Figure 24	Age-Adjusted Death Rates for Non-Motor-Vehicle Accidents — Montana and U.S. Residents, 2002-2011	18
Figure 25	Age-Specific Death Rates for Non-Motor-Vehicle Accidents — Montana Residents, 2011	18
Figure 26	Age-Adjusted Death Rates for Influenza and Pneumonia— Montana and U.S. Residents, 2002-2011	18
Figure 27	Age-Specific Death Rates for Influenza and Pneumonia— Montana Residents, 2011	18
Figure 28	Age-Adjusted Death Rates for Diabetes Mellitus — Montana and U.S. Residents, 2011	19
Figure 29	Age-Specific Death Rates for Diabetes Mellitus — Montana Residents, 2002-2011	19
Figure 30	Age-Adjusted Death Rates for Intentional Self-Harm (Suicide) — Montana and U.S. Residents, 2002-2011	19
Figure 31	Age-Specific Death Rates for Intentional Self-Harm (Suicide) — Montana Residents, 2011	19
Figure 32	Age-Adjusted Death Rates for Nephritis, Nephrotic Syndrome, and Nephrosis — Montana and U.S. Residents, 2002-2011	19

LIST OF FIGURES

Figure	Contents	Page
Figure 33	Age-Specific Death Rates for Nephritis, Nephrotic Syndrome, and Nephrosis — Montana Residents, 2011	19
Figure 34	Age-Adjusted Death Rates for Alzheimer’s Disease — Montana and U.S. Residents, 2002-2011	20
Figure 35	Age-Specific Death Rates for Alzheimer’s Disease — Montana Residents, 2011	20
Figure 36	Age-Adjusted Death Rates for Chronic Liver Disease and Cirrhosis — Montana and U.S. Residents, 2002-2011	20
Figure 37	Age-Specific Death Rates for Chronic Liver Disease and Cirrhosis — Montana Residents, 2011	20
Figure 38	Age-Adjusted Death Rates for Assault (Homicide) — Montana and U.S. Residents, 2002-2011	20
Figure 39	Age-Specific Death Rates for Assault (Homicide) — Montana Residents, 2011	20
Figure 40	Frequency of Death By Cause of Death — Montana Residents, 2007-2011	23
Figure 41	Total Years of Potential Life Lost Before Age 75 By Cause of Death — Montana Residents, 2007-2011	24
Figure 42	Average Years of Potential Life Lost Before Age 75 By Cause of Death — Montana Residents, 2007-2011	24
Figure 43	Average Years of Potential Life Lost Before Age 75 By Cause of Death and Race – Montana Residents, 2007-2011	25
Figure 44	Total Years of Potential Life Lost Before Age 75 By Cause of Death and Race – Montana Residents, 2007-2011	25
Figure 45	Ratio of Induced Abortions to Live Births – Montana Occurrences, 1975-2011	26

LIST OF TABLES

Table	Contents	Page
Table 1	Example of cause of death reporting.	3
Table 2	Frequency of Death by Selected Cause, Race, and Sex, Montana Residents, 2006-2011.	22
Table 3	Frequency of Death by Selected Leading Causes of Death and Age, Montana Residents, 2006-2011.	23

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 data on mortality and natality, as well as Montana population estimates, are provided by the National Center for Health Statistics (NCHS) and 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 2011 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 2011 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 (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, and fetal deaths is a legal requirement ([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 this office, 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 birthplace 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 estimated 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, and 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; the prophylactic used in the infant's eyes; 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; and 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. If death resulted from an injury at work, the industry and occupation in which the decedent was employed is recorded. 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 2011 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 ensures reporting in a timely manner.

Geographic Allocation

Table titles or footnotes indicate whether Vital Statistics are shown by place of residence or place of occurrence. For example, if a resident of Florida is killed in an automobile accident in Montana, the death is counted as a Montana occurrence but is included in Florida's residence statistics. Births, deaths, and fetal deaths may be tabulated either way. For deaths, the place of residence is the usual state and county where the decedent resided. For births and fetal deaths, the place of residence of the newborn or fetus is the usual state and county of the mother's residence. Place, as recorded 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 the provinces of Canada 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, so all tabulations of abortion data, except those in **Table S-6**, are for Montana occurrences. The resident statistics in

Table S-6 reflect only induced abortions provided in Montana to Montana residents.

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 by 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 chronological 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 influenced the course of the illness or trauma unfavorably, thus contributing 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. If the decedent was female, the certifier is asked if the decedent was pregnant at the time of death or within the preceding year.

In the case of a traumatic death (homicide, suicide, accident, or legal intervention), the certifier is also asked to complete a description of the traumatic event that led to the death. 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 II and 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 comparisons.

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 (89.44%) considered

themselves white alone (i.e., indicating no other racial classification). About 6.32% considered themselves American Indian or Alaska Native (AI/AN) alone. Another 2.52% 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 (0.41%), Asian (0.63%), Native Hawaiian or Pacific Islander (0.07%), or some other race (0.60%)—alone. Thus, classifying persons of unknown race as "Other" could introduce an unknown, but probably slight, bias into statistics calculated from the data in these tables.

Prior to 2003, only one race 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 they, their spouses or partners, or their deceased friends or relatives 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 "main" 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 is not greatly affected by one event. However, 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 fewer than five.

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 to the OVS, 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.

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 Age-Specific Death Rate below and Age-Adjusted Death Rates in the Mortality section of the 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:

$$\text{Age specific death rate} = \frac{\text{Number of deaths within the age group}}{\text{Midyear population of the age group}} \times 1,000$$

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, expressed as a number per thousand persons in that 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. The approximation used is 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:

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

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

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, the usual place of residence of the patient. For deaths, 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.

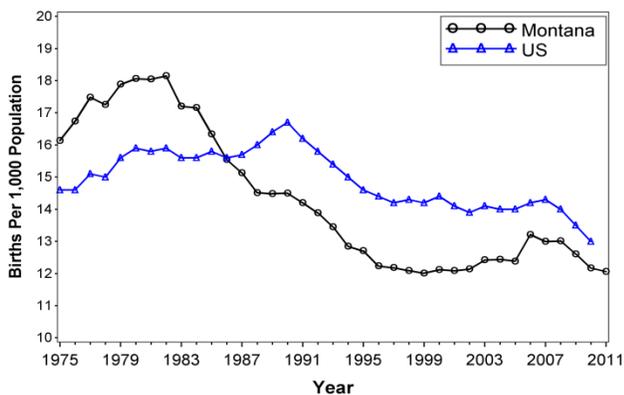
NATALITY

There were 12,039 babies born to Montana residents in 2011. **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 13.2 per 1,000 residents in 2006 and declined steadily to a 2011 rate of 12.2 per 1,000 residents (**Figure 1**).

Figure 1

**Resident Birth Rates
Montana and the United States, 1975-2011**



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 2010, 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 37.2% from 70.4 in 1990 to 44.2 in 2011. 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 53.1% from 277.4 in 1990 to 130.0 in 2011 (**Figure 3**).

Figure 2

**Fertility Rates for White Mothers
Montana Teens and Mothers of All Ages, 1991-2011**

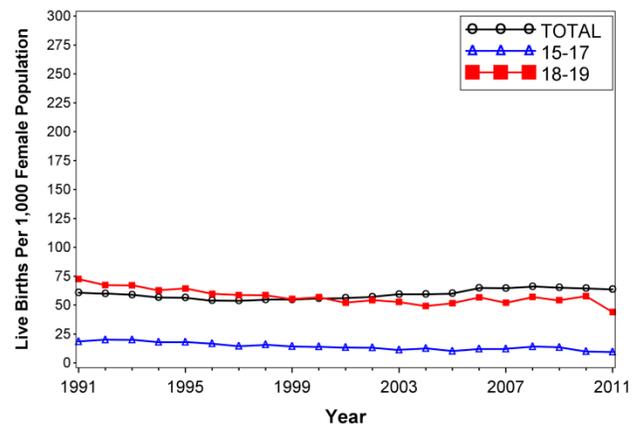
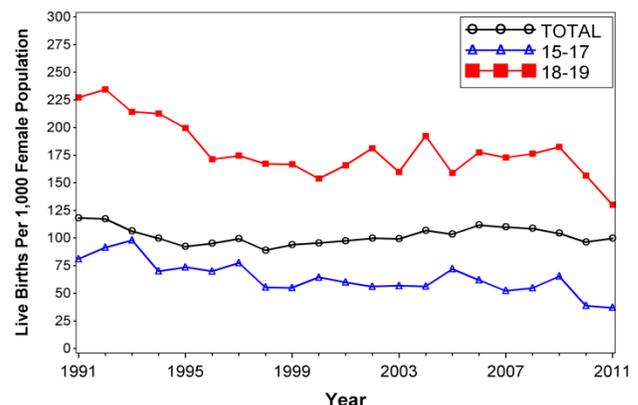


Figure 3

**Fertility Rates for American Indian Mothers
Montana Teens and Mothers of All Ages, 1991-2011**



In 2011, the fertility rate for Montana's white mothers of all ages was 63.7. The rate for white mothers between 15 and 17 was 9.6, and the rate for white mothers between the ages of 18 and 19 was, as stated above, 44.2. Fertility rates for American Indians were substantially higher in these age groups—99.8 (all ages), 37.0 (15-17), and 130.0 (18-19). Although teen

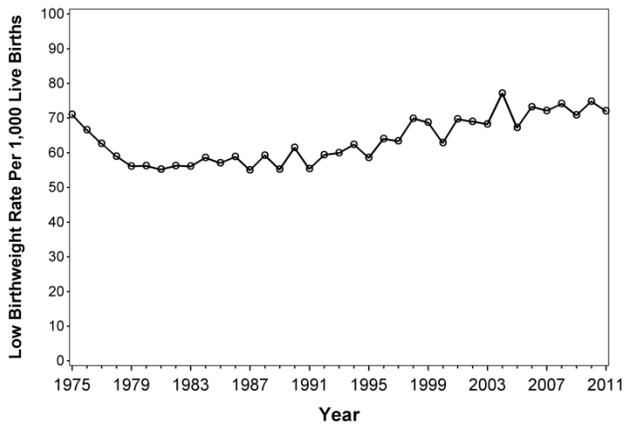
fertility rates (15-19) for both of these racial categories are declining, they are declining more rapidly for American Indians (50.5%) than for whites (39.2%). The fertility rate for whites aged 20 and older has increased 10.1% since 1990, while it has decreased 12.9% for American Indians.

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, 1975-2011



Mother's Age, Race, And Marital Status

Of those Montanans giving birth in 2011, 57.6% were between 20 and 29 years of age (Table S-5). American Indian births comprised 11.4% of all births, and 82.7% 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 33.7% in 2011. By comparison, unmarried mothers in the U.S. accounted for 40.8% in 2010, the latest year for which a final national statistic is available. The long-term trends in births to unmarried mothers for both Montana and the U.S. are increasing at roughly the same rate. However, the Montana proportion has been, for two and a half decades, somewhat below the U.S. proportion.

Figure 5

Percent of Births to Unmarried Mothers
Montana and United States Residents, 1991-2011

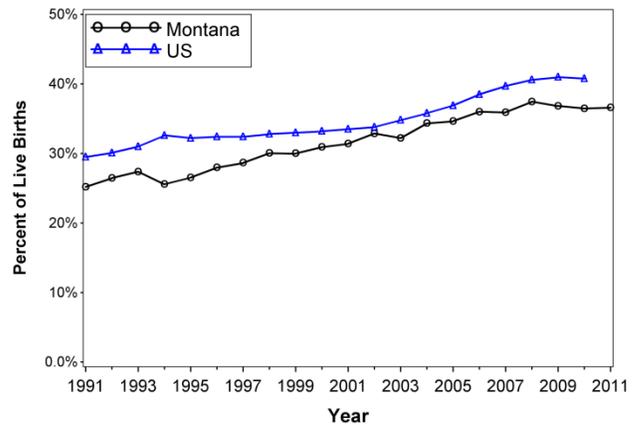


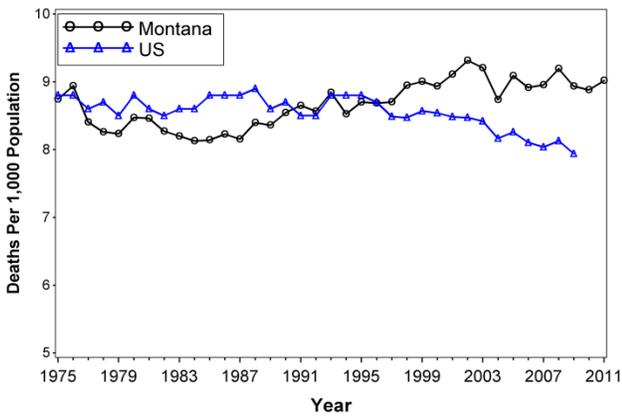
Table S-4 shows the frequency of birth by marital status of the mother for each of Montana's counties in 2011.

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 2011 was 8.9 per 1,000 estimated midyear population. There were 8,802 Montana residents who died in that year and their median age at death was 78 years. Of these people, 4,525 were males and 4,278 were females (**Table D-1**).

Figure 6
Resident Crude Death Rates
Montana and United States, 1975-2011

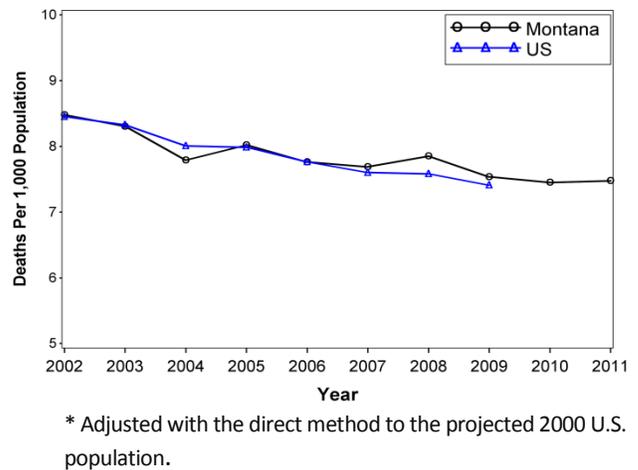


The rate of death is closely related to the age structure of the resident population. It is therefore useful to adjust this rate for differences in the age distributions of populations when comparing death rates between those populations. (See the definition of "age adjusted death rate" in the Definitions section of this report for a description of the mathematics of age adjustment and 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 increasing, 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, 2002-2011



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 was the fact that the median age at death for American Indians was about three-quarters that for whites; the age at the first quartile (the youngest quarter of the population) for American Indians was only about two-thirds that for whites.

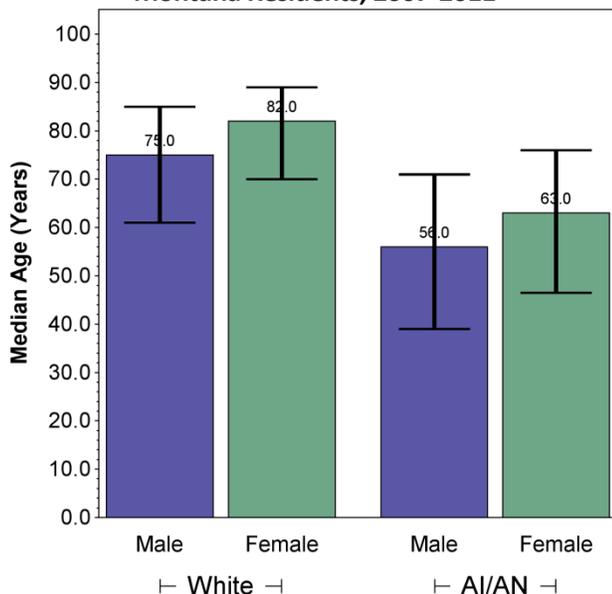
There was greater variability in the age at death for the American Indian population than for the white population. The standard deviation, which measures the distribution around the mean, was greater for the American Indians compared to whites. Thus, a larger

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, 2007-2011**



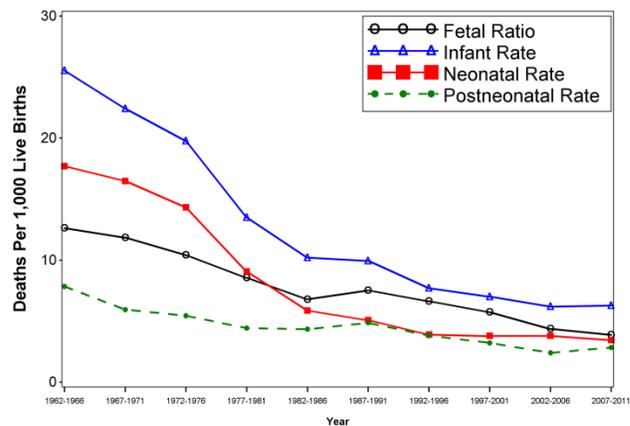
*The *median* is the midpoint of a sorted list of all individual ages. The whisker bars indicate the 25th percentile (lower) and 75th percentile (upper) of ages. One quarter of the decedents died at or under the age at the 25th percentile; half at or under the age at the *median* (or 50th percentile) 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 Mortality Ratios
Montana and United States, 1962-2011**



Sudden infant death syndrome (SIDS), certain conditions originating in the perinatal period, and congenital malformations, deformations, and chromosomal anomalies caused more than two-thirds of all infant deaths in 2011 (**Table D-6**).

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 occurring in Montana at five-year intervals from 1910 to 1970 and yearly from 1971 through 2011. There were 52 resident fetal deaths and 71 resident infant deaths in Montana in 2011.

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 county of residence.

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. (Because the resident populations of Montana in different years had different age compositions and contained different individuals, they can be considered different populations.)

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 only a decade before. In such cases, age-adjustment is helpful for a more meaningful comparison of mortality rates 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 overall age of the population may differ), but not for making comparisons 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. 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, Montana’s age-specific death rates 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 confusing patterns. 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 all causes of death are 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, 2002-2011

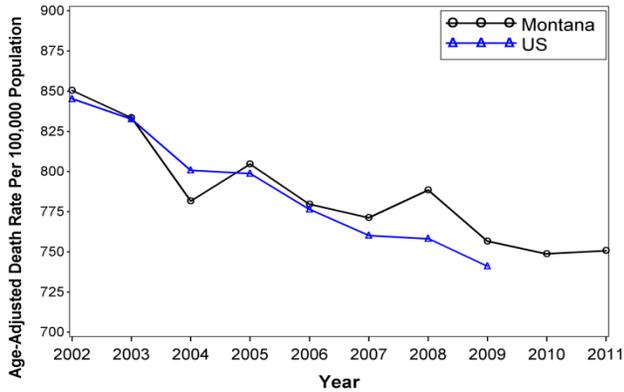


Figure 11
Age-Specific Death Rates for All Causes
Montana Residents, 2011

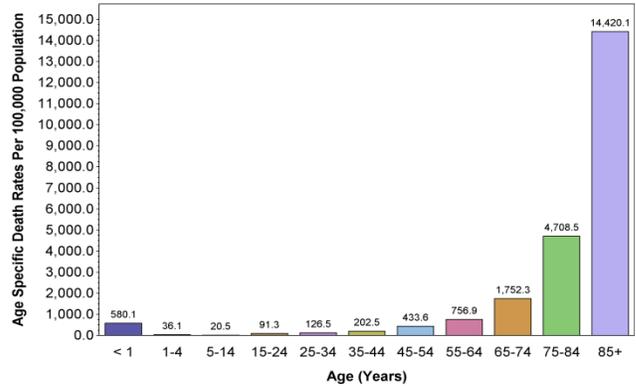


Figure 12
Age-Adjusted Death Rates for Diseases of Heart
Montana and U.S. Residents, 2002-2011

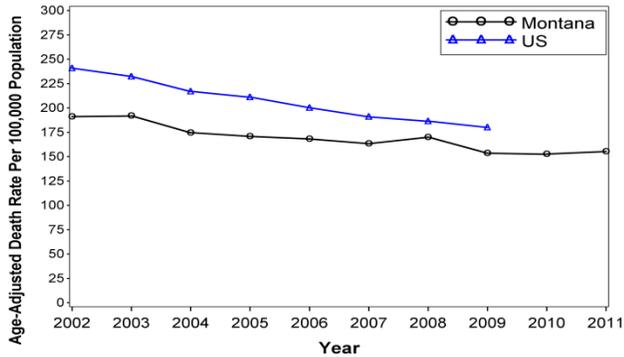


Figure 13
Age-Specific Death Rates for Diseases of Heart
Montana Residents, 2011

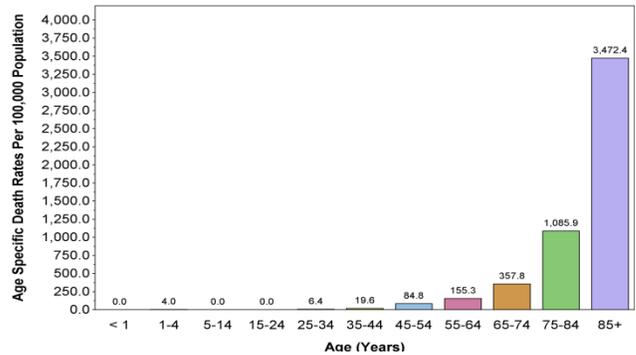


Figure 14
Age-Adjusted Death Rates for Malignant Neoplasms
Montana and U.S. Residents, 2002-2011

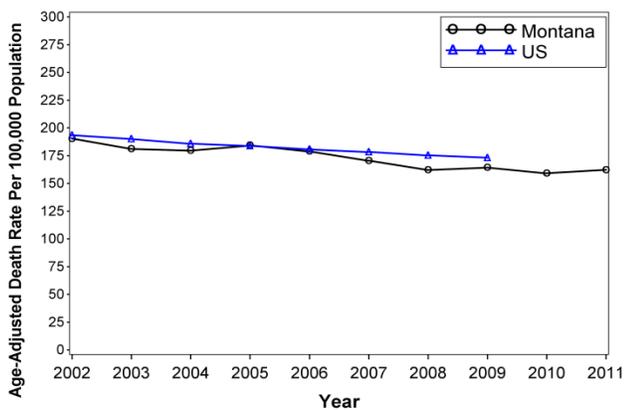


Figure 15
Age-Specific Death Rates for Malignant Neoplasms
Montana Residents, 2011

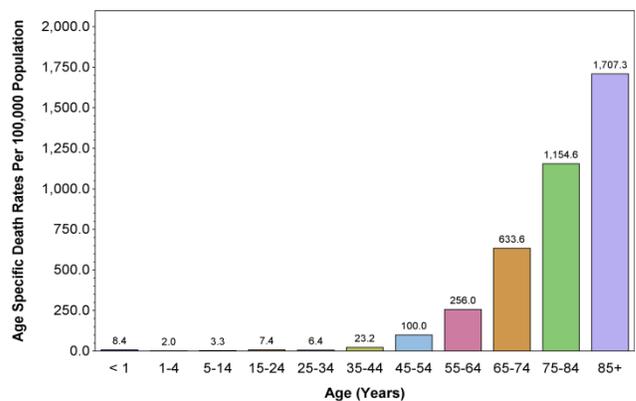


Figure 16
Age-Adjusted Death Rates for
Cerebrovascular Diseases
Montana and U.S. Residents, 2002-2011

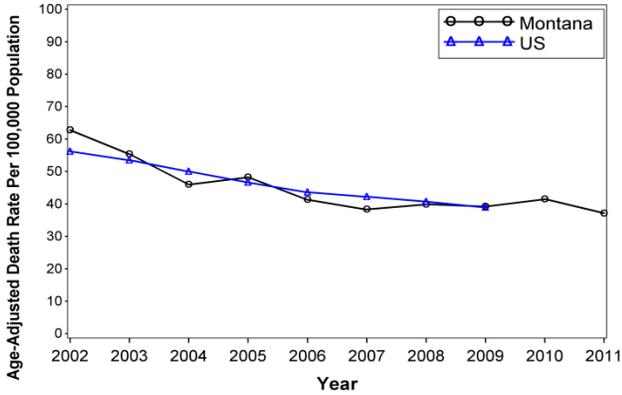


Figure 17
Age-Specific Death Rates for
Cerebrovascular Diseases
Montana Residents, 2011

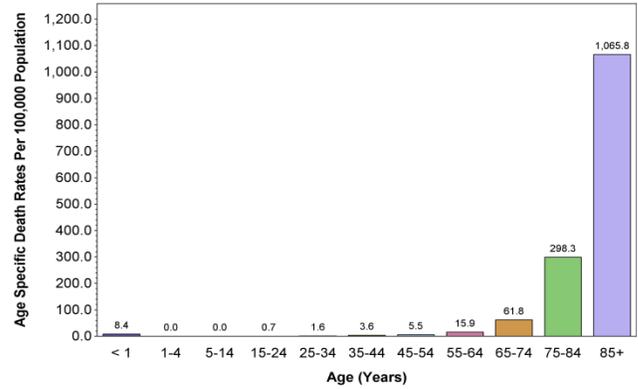


Figure 18
Age-Adjusted Death Rates for
Chronic Lower Respiratory Diseases
Montana and U.S. Residents, 2002-2011

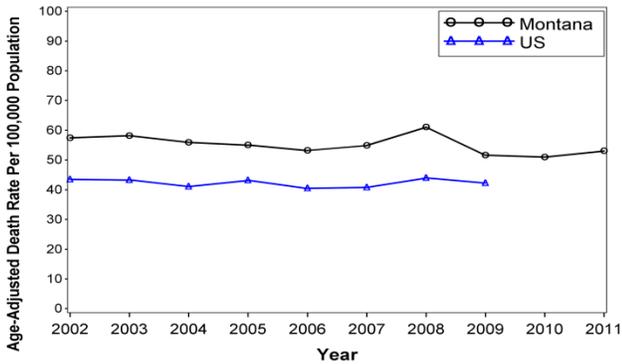


Figure 19
Age-Specific Death Rates for
Chronic Lower Respiratory Diseases
Montana Residents, 2011

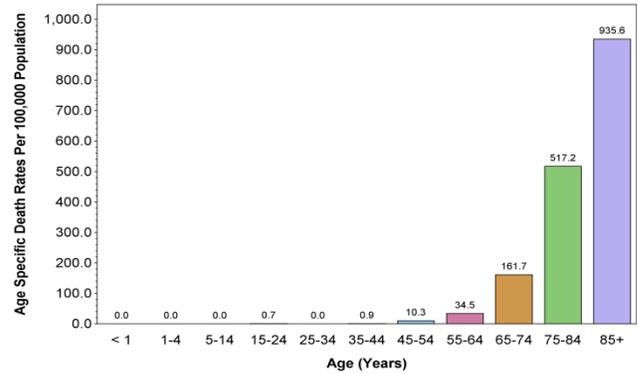


Figure 20
Age-Adjusted Death Rates for
Accidents (Unintentional Injuries)
Montana and U.S. Residents, 2002-2011

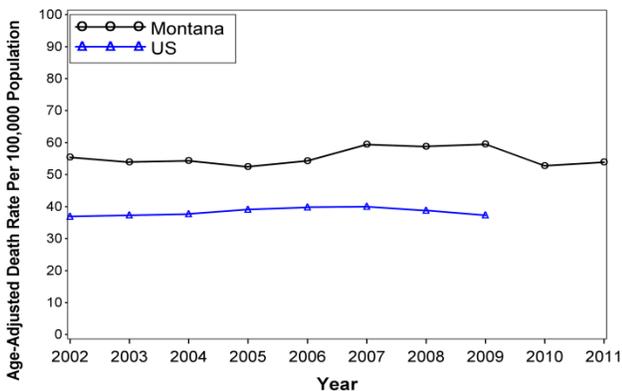


Figure 21
Age-Specific Death Rates for
Accidents (Unintentional Injuries)
Montana Residents, 2011

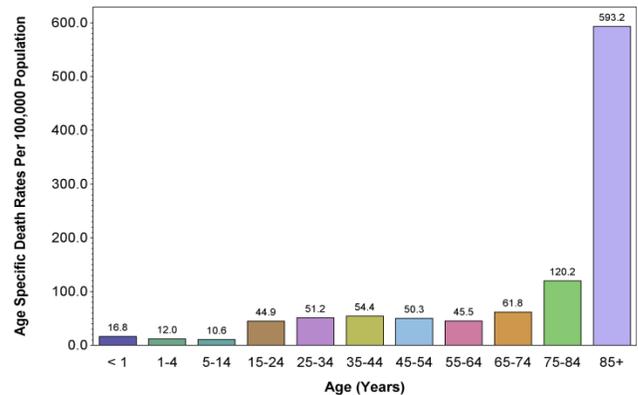


Figure 22

**Age-Adjusted Death Rates for Motor Vehicle Accidents
Montana and the U.S. Residents, 2002-2011**

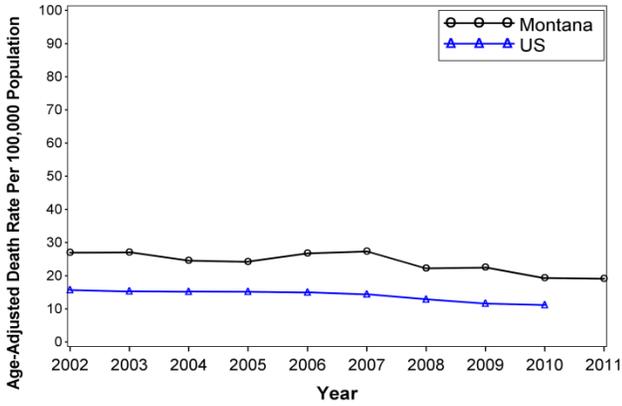


Figure 24

**Age-Adjusted Death Rates for Non-Motor Vehicle Accidents
Montana and U.S. Residents, 2002-2011**

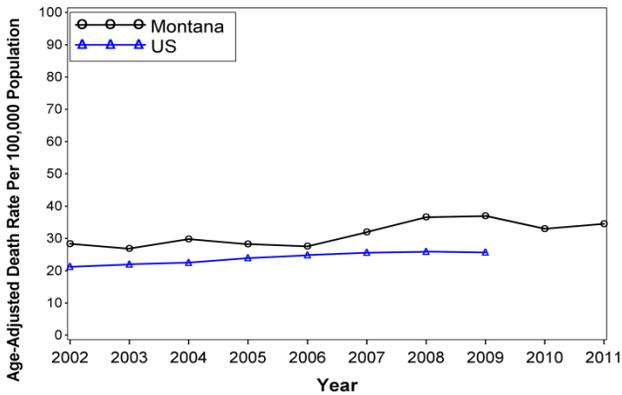


Figure 26

**Age-Adjusted Death Rates for Influenza and Pneumonia
Montana and U.S. Residents, 2002-2011**

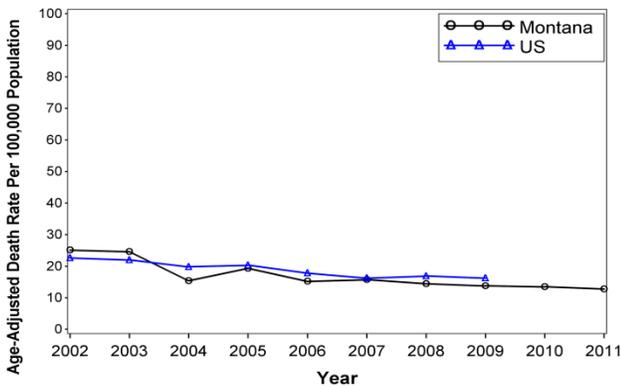


Figure 23

**Age-Specific Death Rates for Motor Vehicle Accidents
Montana Residents, 2011**

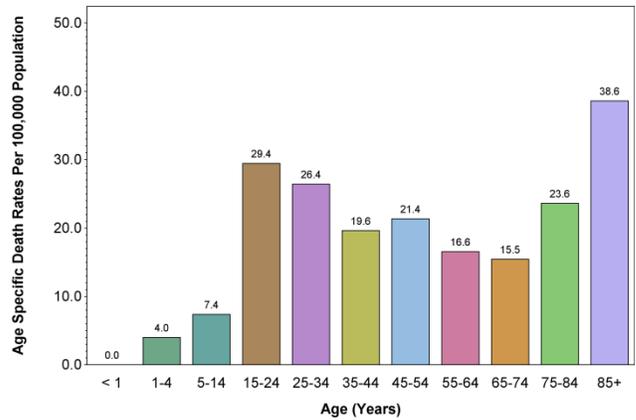


Figure 25

**Age-Specific Death Rates for Non-Motor Vehicle Accidents
Montana and U.S. Residents, 2011**

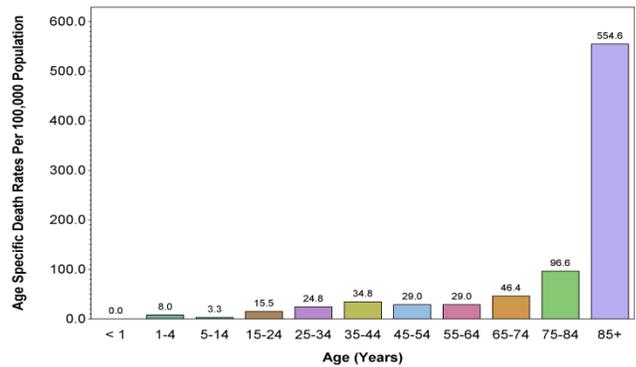


Figure 27

**Age-Specific Death Rates for Influenza and Pneumonia
Montana Residents, 2011**

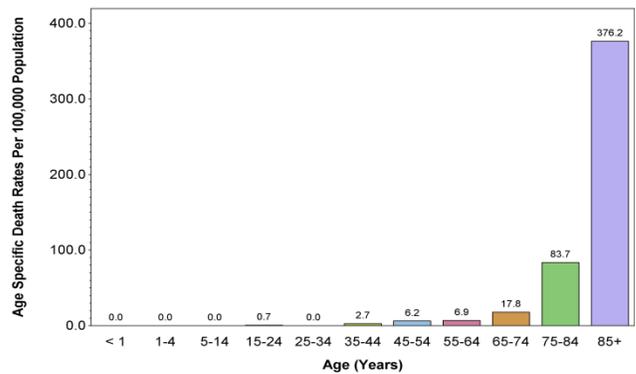


Figure 28
Age-Adjusted Death Rates for
Diabetes Mellitus
Montana and U.S. Residents, 2002-2011

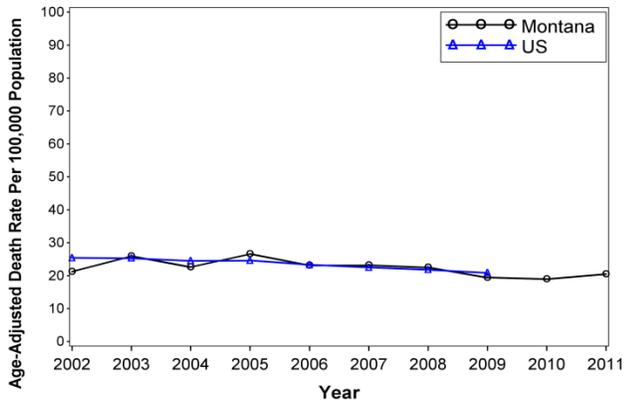


Figure 29
Age-Specific Death Rates for
Diabetes Mellitus
Montana Residents, 2011

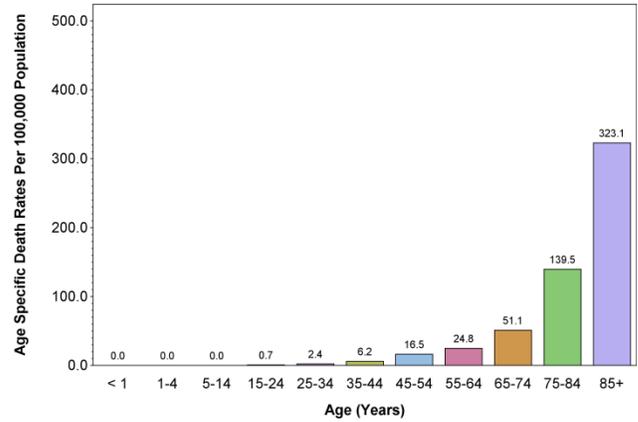


Figure 30
Age-Adjusted Death Rates for
Intentional Self Harm (Suicide)
Montana and U.S. Residents, 2002-2011

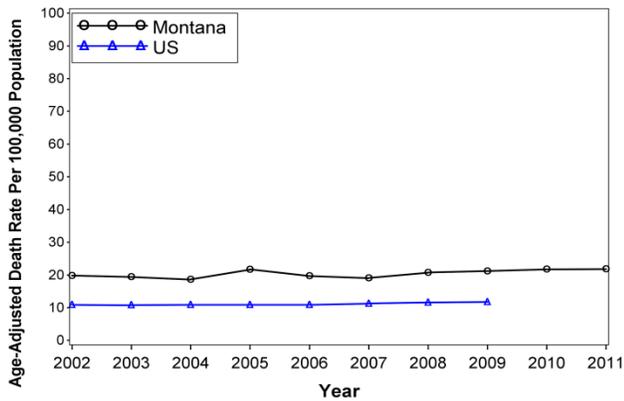


Figure 31
Age-Specific Death Rates for
Intentional Self Harm (Suicide)
Montana Residents, 2011

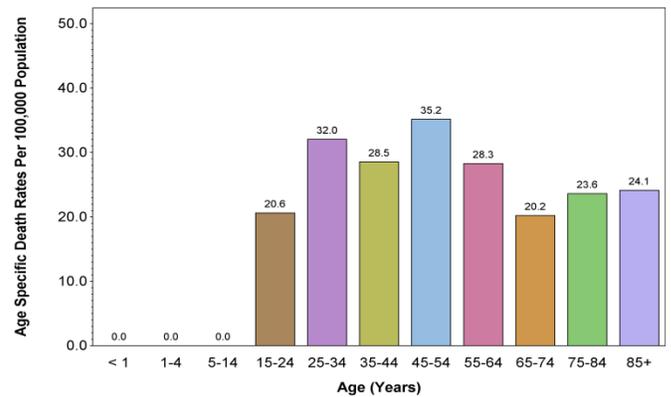


Figure 32
Age-Adjusted Death Rates for
Nephrotic Syndrome and Nephrosis
Montana and U.S. Residents, 2002-2011

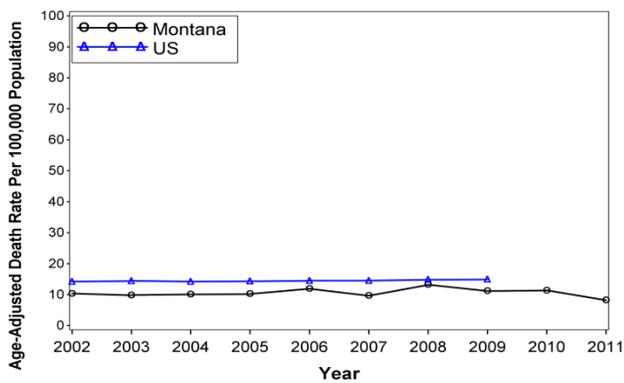


Figure 33
Age-Specific Death Rates for
Nephrotic Syndrome and Nephrosis
Montana Residents, 2011

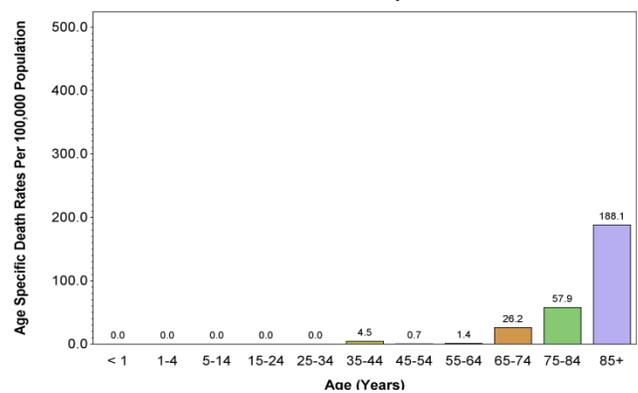


Figure 34
Age-Adjusted Death Rates for
Alzheimer's Disease
Montana and U.S. Residents, 2002-2011

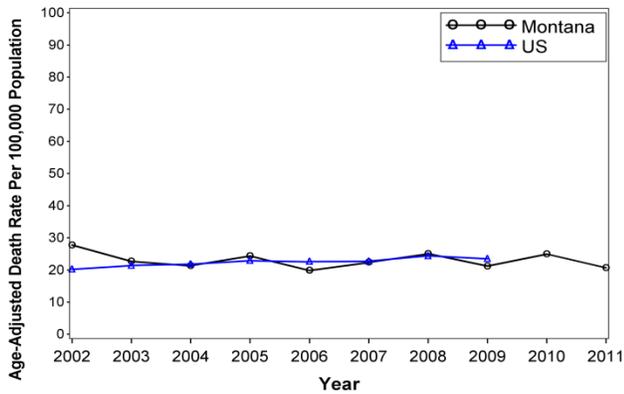


Figure 35
Age-Specific Death Rates for
Alzheimer's Disease
Montana Residents, 2011

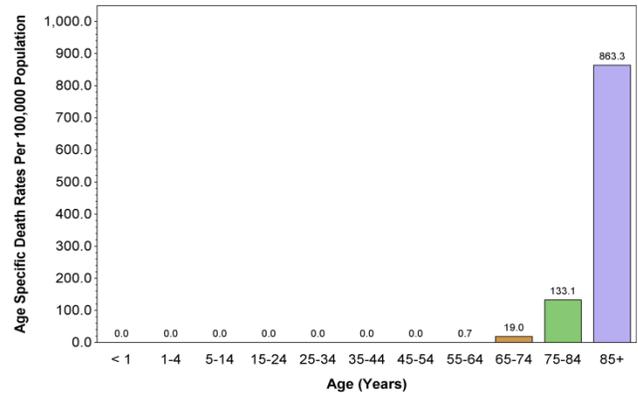


Figure 36
Age-Adjusted Death Rates for
Chronic Liver Disease and Cirrhosis
Montana and U.S. Residents, 2002-2011

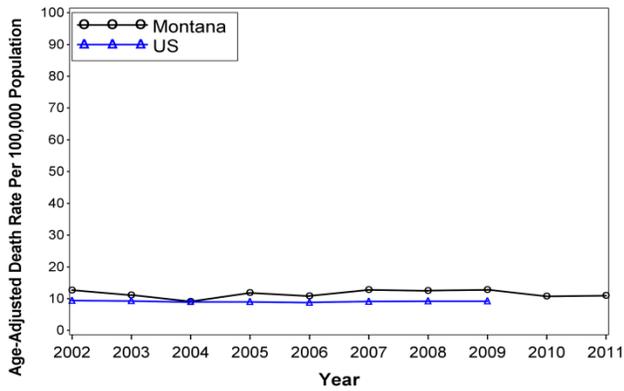


Figure 37
Age-Specific Death Rates for
Chronic Liver Disease and Cirrhosis
Montana Residents, 2011

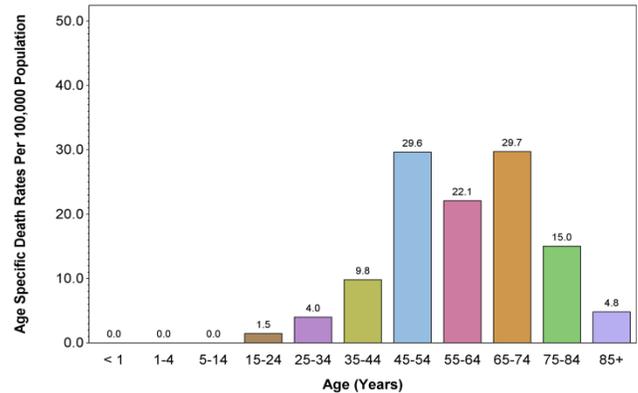


Figure 38
Age-Adjusted Death Rates for
Assault (Homicide)
Montana and U.S. Residents, 2002-2011

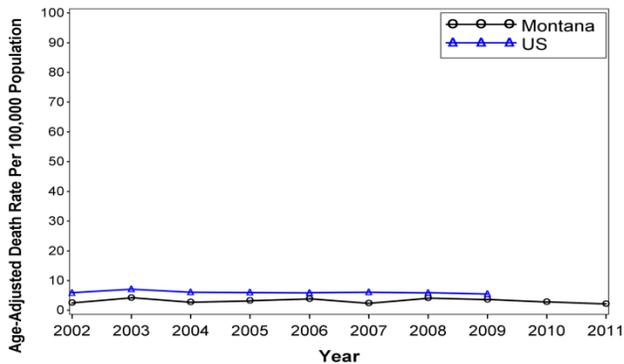
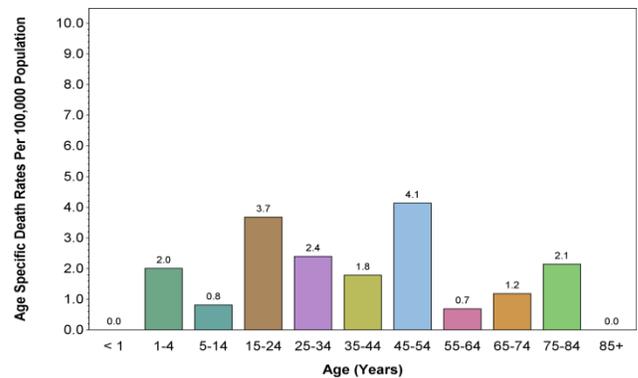


Figure 39
Age-Specific Death Rates for
Assault (Homicide)
Montana Residents, 2011



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 (nephritis, nephrotic syndrome, and nephrosis) (**Figure 32**) were the lower of the two for all years for which both rates are displayed. The state's cancer rates were lower than those for the U.S. in all but two of those years—and in those two years, the Montana and U.S. rates were virtually indistinguishable (**Figure 14**).

For deaths from certain other chronic diseases, however, Montana clearly does not compare well to the nation. Montana's rates for chronic liver disease and cirrhosis were higher than the U.S. rate in all years for which direct comparisons are shown, except in 2004 where the rates are nearly identical (**Figure 36**). The state's rates for chronic lower respiratory diseases (C.L.R.D.)—which includes chronic and unspecified bronchitis, emphysema, and asthma—were higher than those for the U.S. in all years in which rates for both Montana and the U.S. are displayed (**Figure 18**).

The patterns displayed for other chronic diseases were less conclusive. Montana's death rate from Alzheimer's disease was higher than U.S. rates in four of the seven years in which both are displayed (**Figure 34**). Montana's death rates for cerebrovascular disease, influenza and pneumonia, and diabetes showed similarly inconsistent relationships with the U.S. rates, with the trend lines crossing each other more than once in the period shown (**Figs. 16, 26, 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, 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.

Trends 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** illustrates some of the difference in the causes of death for the two sexes. For instance, more males than females died of heart disease, cancer, chronic liver disease and cirrhosis, diabetes, and—most strikingly—the traumatic causes of death (suicide, homicide, and accident). More than three and a half times as many males as females committed suicide in this five-year period. More than twice as many males as females died of homicide. About three quarters more males than females died of accident.

On the other hand, 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. About a quarter more females than males died of influenza and pneumonia. Typically, those dying of these causes lived the longest lives, as measured by median age at death, reflecting the fact that females frequently outlive males (see **Figure 8**).

Table 2. Frequency of Death by Selected Cause, Race, and Sex, Montana Residents, 2007-2011.

Cause of Death	All Races		White		AI/AN		Other Or Unknown	
	Male	Female	Male	Female	Male	Female	Male	Female
All Causes	22,438	21,541	21,035	20,366	1,297	1,084	106	91
HIV Infection	23	6	20	5	2	1	1	-
Cancer	5,079	4,493	4,867	4,276	196	192	16	25
Diabetes	626	586	557	517	64	66	5	3
Alzheimer's Disease	453	914	439	897	11	15	3	2
Heart Disease	5,221	4,181	4,968	4,019	228	147	25	15
Cerebrovascular Disease	902	1,404	863	1,355	32	42	7	7
Atherosclerosis	60	55	59	54	-	1	1	-
Influenza And Pneumonia	383	465	362	438	19	27	2	-
Chronic Lower Respiratory Diseases	1,536	1,592	1,485	1,529	47	61	4	2
Chronic Liver Disease And Cirrhosis	413	250	324	170	88	79	1	1
Nephritis, Nephrotic Syndrome & Nephrosis	280	341	269	311	10	30	1	-
Congenital Malformations & Chromosomal Anomalies	105	81	93	66	11	15	1	-
Conditions Originating In Perinatal Period	65	60	51	49	13	11	1	-
Sudden Infant Death Syndrome	29	34	21	29	7	4	1	1
Accidents	1,857	1,067	1,618	940	226	117	13	10
Motor Vehicle Accidents	737	354	630	285	100	62	7	7
Non-Motor Vehicle Accidents	1,120	713	988	655	126	55	6	3
Suicide	838	227	766	199	69	24	3	4
Homicide	100	45	72	34	28	11	-	-
Other Causes	4,468	5,740	4,201	5,478	246	241	21	21

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 “bridged,” or main, 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.

In the period 2007-2011, as age at death increases, chronic diseases become more frequent as the cause of death (**Table 3**). Cancer and heart disease were the leading causes of death for the age categories between 45 and 84 years—29.1% and 20.7% of the deaths in that age group, respectively. However, for the age categories 85 and older, heart disease was the leading cause (26.6%), with cancer second (12.0%). 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**.

Accidents caused a greater proportion of the deaths among the young than the old. They accounted for 18.9% of the deaths of those 14 years of age or younger, 57.3% of the deaths of those between the ages of 15 and 24, and 42.4% of those between the ages of 25 and 34 years. By contrast, accidents accounted for only 3.0% of the deaths of those aged 65 or older.

Suicide was the cause of death for 17.1% of the decedents between the ages of 15 and 44. By contrast, it was the cause of death for only 2.4% of decedents of all ages. Of suicide victims, about four-fifths were males.

Table 3. Frequency of Death by Selected Leading Causes of Death and Age, Montana Residents, 2006-2011.

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	43,979	375	87	126	661	774	1,172	3,115	5,132	7,142	11,099	14,296
HIV Infection	29	-	-	-	-	1	5	19	2	1	1	-
Cancer	9,572	1	7	16	31	47	121	729	1,722	2,488	2,689	1,721
Diabetes	1,212	1	-	-	4	9	30	96	170	267	317	318
Alzheimer's Disease	1,367	-	-	-	-	-	-	1	9	78	379	900
Heart Disease	9,402	5	6	2	13	34	114	557	1,086	1,451	2,450	3,684
Cerebrovascular Disease	2,306	3	-	-	1	5	25	64	143	288	674	1,103
Atherosclerosis	115	-	-	-	-	-	-	3	15	13	29	55
Influenza And Pneumonia	848	3	1	2	1	6	7	43	56	82	192	455
Chronic Lower Respiratory Diseases	3,128	-	1	-	2	2	6	83	257	770	1,172	835
Chronic Liver Disease And Cirrhosis	663	-	-	-	3	23	73	207	184	110	54	9
Nephritis, Nephrotic Syndrome & Nephrosis	621	-	2	-	1	2	9	21	28	79	198	281
Congenital Malformations & Chromosomal Anomalies	186	99	9	4	5	6	10	11	20	11	5	6
Conditions Originating In Perinatal Period	125	123	1	-	-	-	1	-	-	-	-	-
Sudden Infant Death Syndrome	63	63	-	-	-	-	-	-	-	-	-	-
Accidents	2,924	9	35	68	366	331	351	430	309	244	316	465
Motor Vehicle Accidents	1,091	1	11	44	252	187	150	163	118	88	52	25
Non-Motor Vehicle Accidents	1,833	8	24	24	114	144	201	267	191	156	264	440
Suicide	1,065	-	-	13	143	171	151	215	197	75	61	39
Homicide	145	2	3	4	34	24	23	35	11	5	3	1
Other Causes	10,208	66	22	17	57	113	246	601	923	1,180	2,559	4,424

Years of Potential Life Lost

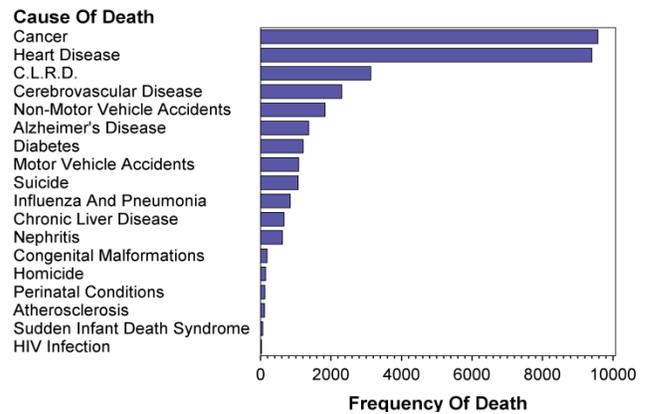
The traditional approach to cause of death analysis relies on frequency of death. This perspective emphasizes causes of death that affect the elderly, simply because of the larger number of such deaths. Years of potential life lost (YPLL) is an alternative measure that highlights premature, preventable, 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 2011 were cancer (21.7% of all resident deaths), heart disease (20.9%), chronic lower respiratory diseases (6.8%), accidents (6.2%) cerebrovascular disease (5.6%) Alzheimer’s disease (3.4%), suicide (2.6%), diabetes (2.6%), influenza and pneumonia (1.9%), and nephritis and nephrotic syndrome (1.5%) (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 2007-2011 (Figure 40). While the numbers who died of

Figure 40

FREQUENCY OF DEATH BY CAUSE OF DEATH MONTANA RESIDENTS, 2007-2011

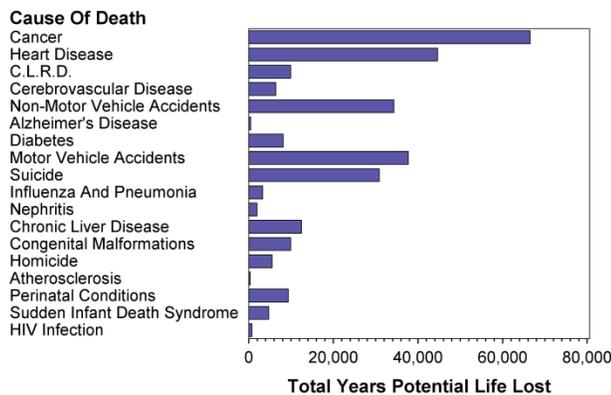


these causes are larger than those for the single year of 2011, the proportions are remarkably similar. Cancer and heart disease clearly outpace the other specified causes, with each accounting for a little more than a fifth of all decedents. Accidents, C.L.R.D., and cerebrovascular disease are all in the five to seven percent range, Alzheimer’s, diabetes, influenza and pneumonia, chronic liver disease, and nephritis were 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, 2007-2011**



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.

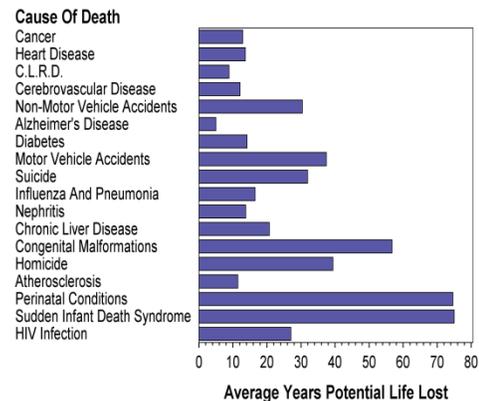
The YPLL-75 perspective re-orders the ranking of the leading causes of death, thus highlighting areas the CDC has said “provide the greatest potential for health improvement” (Morbidity and Mortality Weekly Report, June 20, 1997). Frequency of accidental (unintentional injury) deaths (both motor and 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, 2007-2011**



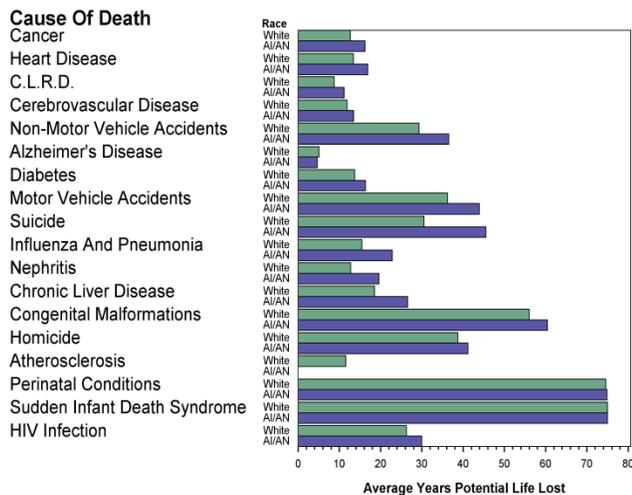
The category sudden infant death syndrome (SIDS), a cause-of-death diagnosis reserved for infants alone, showed the greatest average loss to an individual (the full 75 years lost.) This was followed closely by conditions originating in the perinatal period, a cause which claims mostly infants, toddlers, 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 American Indians have lifespans 20 years shorter than whites. Some of the more notable causes of death affecting American Indians in this manner include non-motor-vehicle accidents (American Indians typically die 23 years

before whites), suicide (22 years), motor-vehicle accidents (21.5 years), influenza and pneumonia (20 years), heart disease and nephritis (14 years for both), diabetes (12.5 years) cerebrovascular disease (11 years), and chronic liver disease and cirrhosis (10 years).

Figure 43

**Average Years of Potential Life Lost Before Age 75
By Cause of Death and Race
Montana Residents, 2007-2011**

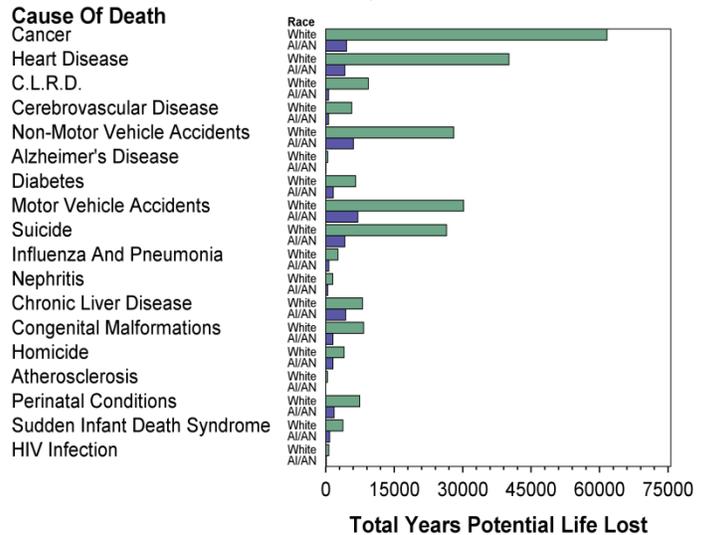


Note: green bars indicate White; blue bars indicate American Indian/Alaska Native

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**). From this perspective, cancer, heart disease, accidents, and suicide (in that order) are the causes of death impacting the white population most, while accidents, cancer, heart disease and chronic liver disease and cirrhosis impact the American Indian population most. The same four causes occupy the leading positions for both races below the age of 75, but in a strikingly different order.

Figure 44

**Total Years of Potential Life Lost Before Age 75
By Cause of Death and Race
Montana Residents, 2007-2011**



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-11** 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 2,147 induced abortions performed in Montana in 2011. Of those, 1,875 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 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 178.7 in 2011, a slight decrease from the previous year.

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.

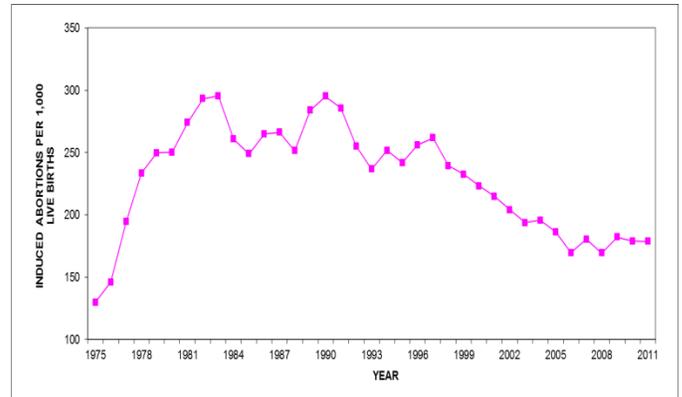
Table S-6 shows the frequency of induced abortions—as well as that of live births and fetal deaths, the other pregnancy outcomes reported to the Department—by age and county of residence. The frequency of abortion in this table is for Montana residents receiving the procedure in Montana.

In 2011, there were no deaths of women 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 abortion procedures performed in Montana in 2011, two resulted in reported complications—both records noted retained products.

Figure 45

**Ratio of Induced Abortions to Live Births
Montana Occurrences, 1975-2011**



LIST OF REFERENCE TABLES

Table	Contents
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, 1910-2011
S-2	Frequency of Death, Live Birth, and Fetal, Infant, and Maternal Death by County of Occurrence and County of Residence – Montana, 2011
S-3	Frequency of Death, Live Birth, Fetal Death, Infant Death, and Child Death by Race and by Year – Montana, 1989-2011
S-4	Selected Vital Statistics – Frequencies and Rates or Ratios by County – Montana, 2011
S-5	Frequency and Age-Specific Rate of Live Births, Fetal Deaths, and Induced Abortions By Year and Age of Mother or Patient – Montana, 1990-2011
P-1	Resident Population By County – Montana, 2000-2011
B-1	Frequency and Percent Distribution of Live Births by Infant's Sex, Plurality, and Parity – Montana Residents, 2002-2011
B-2	Frequency and Percent Distribution of Live Births by Type of Facility and Attendant by Year – Montana Occurrences, 1989-2011
B-3	Frequency and Percent Distribution of Live Births By Birth Weight and by Year – Montana Residents, 2011
B-4	Frequency and Percent Distribution of Live Births by Completed Weeks of Gestation by Year – Montana Residents, 1989-2011
B-5	Frequency Of Live Births By Month Pre-Natal Care Began By Year – Montana, 1989-2011
D-1	Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes – Montana Residents, 2011

Table	Contents
D-2	Frequency of Death by Sex, Race, and up to 113 Selected Underlying Causes And Enterocolitis due to Clostridium Difficile – Montana Residents, 2011
D-3	Frequency and Rate of Death from Selected Underlying Causes by Year – Montana Residents, 1953 - 2011
D-4	Frequency And Rate Of Death From Selected Communicable Diseases By Year – Montana 1930 - 2011
D5	Frequency of Death From Selected Cancers by Sex of Decedent and Year of Death – Montana Residents, 1960 - 2011
D-6	Frequency of Infant Death by Age and up to 130 Selected Underlying Causes – Montana Residents, 2011
D-7	Frequency of Infant Death by Age in Days and Five-Year Infant Mortality Rate – Montana Residents, 1991-2011
D-8	Frequency of Maternal and Late Maternal Deaths by Year – Montana Residents, 2003-2011
D-9	Age at Death and Years of Potential Life Lost Before Age 75 by Cause of Death – Central Tendency and Dispersion – Montana Residents, 2007-2011
F-1	Frequency of Fetal Death by Completed Weeks of Gestation and up to 124 Selected Underlying Causes – Montana Residents, 2011

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, 1910-2011**

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**
2011	998,199	9,005	9.0	12,039	12.1	65	5.4	69	5.7	4	‡	7,754	7.8	3,091	3.1	2,147	178.7
2010	990,958	8,803	8.9	12,058	12.2	52	4.3	71	5.9	1	‡	7,335	7.4	3,289	3.3	2,160	179.0
2009	983,982	8,704	8.8	12,280	12.5	58	4.7	72	5.9	5	‡	7,231	7.3	4,521	4.6	2,223	182.2
2008	976,415	8,897	9.1	12,595	12.9	39	3.1	87	6.9	1	‡	7,467	7.6	4,042	4.1	2,125	169.3
2007	964,706	8,570	8.9	12,437	12.9	38	3.1	76	6.1	2	‡	7,263	7.5	4,720	4.9	2,238	180.5
2006	952,692	8,434	8.9	12,499	13.1	49	3.9	70	5.6	-	‡	7,055	7.4	4,176	4.4	2,119	169.7
2005	940,102	8,496	9.0	11,573	12.3	54	4.7	81	7.0	1	‡	6,964	7.4	3,983	4.2	2,155	186.5
2004	930,009	8,088	8.7	11,514	12.4	40	3.5	53	4.6	2	‡	6,946	7.5	3,516	3.8	2,256	195.7
2003	919,630	8,439	9.2	11,384	12.4	55	4.8	76	6.7	2	‡	6,640	7.2	3,255	3.5	2,213	193.8
2002	911,667	8,473	9.3	11,045	12.1	51	4.6	81	7.3	-	‡	6,514	7.1	3,634	4.0	2,249	204.1
2001	906,961	8,252	9.1	10,947	12.1	43	3.9	73	6.7	2	‡	6,611	7.3	3,735	4.1	2,350	214.9
2000	903,773	8,071	8.9	10,946	12.1	55	5.0	63	5.8	1	‡	6,870	7.6	3,694	4.1	2,441	223.4
1999	897,511	8,082	9.0	10,778	12.0	62	5.8	71	6.6	-	‡	6,785	7.6	3,318	3.7	2,499	232.6
1998	892,431	7,960	8.9	10,791	12.1	76	7.0	82	7.6	1	‡	6,436	7.2	3,698	4.1	2,573	239.5
1997	889,867	7,730	8.7	10,840	12.2	49	4.5	74	6.8	-	‡	6,708	7.5	4,058	4.6	2,809	261.8
1996	886,256	7,686	8.7	10,840	12.2	58	5.4	75	6.9	1	‡	6,609	7.5	4,238	4.8	2,763	256.1
1995	876,553	7,614	8.7	11,136	12.7	67	6.0	79	7.1	-	‡	6,818	7.8	4,214	4.8	2,674	242.0
1994	861,306	7,331	8.5	11,062	12.8	52	4.7	82	7.4	-	‡	7,088	8.2	4,196	4.9	2,761	251.7
1993	844,761	7,457	8.8	11,362	13.4	74	6.5	84	7.4	-	‡	7,041	8.3	4,311	5.1	2,645	236.6
1992	825,770	7,067	8.6	11,468	13.9	84	7.3	85	7.4	-	‡	7,189	8.7	4,223	5.1	2,869	255.3
1991	809,680	6,995	8.6	11,498	14.2	90	7.8	82	7.1	1	‡	6,984	8.6	4,443	5.5	3,226	285.6
1990	800,204	6,835	8.5	11,602	14.5	78	6.7	106	9.1	-	‡	6,924	8.7	4,049	5.1	3,365	295.2
1989	805,600	6,735	8.4	11,667	14.5	86	7.4	133	11.4	-	‡	6,765	8.4	4,104	5.1	3,245	283.9
1988	805,000	6,759	8.4	11,682	14.5	92	7.9	100	8.6	1	‡	6,784	8.4	4,063	5.0	2,866	251.6
1987	809,000	6,597	8.2	12,239	15.1	96	7.8	121	9.9	-	‡	6,540	8.1	4,116	5.1	3,175	266.3
1986	819,000	6,738	8.2	12,728	15.5	95	7.5	122	9.6	2	‡	6,739	8.2	4,307	5.3	3,295	265.1
1985	826,000	6,725	8.1	13,497	16.3	96	7.1	139	10.3	-	‡	7,178	8.7	4,258	5.2	3,291	249.0
1984	824,000	6,698	8.1	14,141	17.2	110	7.8	125	8.8	1	‡	7,659	9.3	4,355	5.3	3,618	260.9
1983	817,000	6,699	8.2	14,054	17.2	91	6.5	126	9.0	4	‡	8,092	9.9	4,644	5.7	4,061	295.6
1982	801,000	6,625	8.3	14,538	18.1	93	6.4	147	10.1	1	‡	8,185	10.2	4,612	5.8	4,175	293.3
1981	793,000	6,709	8.5	14,309	18.0	85	5.9	153	10.7	-	‡	8,209	10.4	5,004	6.3	3,838	274.2
1980	786,690	6,664	8.5	14,208	18.1	104	7.3	176	12.4	2	‡	8,336	10.6	4,940	6.3	3,471	250.2
1979	786,000	6,471	8.2	14,057	17.9	116	8.3	151	10.7	4	‡	8,195	10.4	5,106	6.5	3,447	249.8
1978	785,000	6,484	8.3	13,545	17.3	110	8.1	155	11.4	3	‡	8,136	10.4	4,877	6.2	3,092	233.5
1977	761,000	6,397	8.4	13,304	17.5	119	8.9	183	13.8	1	‡	7,547	9.9	4,813	6.3	2,539	194.5
1976	753,000	6,733	8.9	12,605	16.7	104	8.3	209	16.6	-	‡	7,390	9.8	4,850	6.4	1,803	145.9
1975	748,000	6,539	8.7	12,070	16.1	112	9.3	187	15.5	3	‡	7,331	9.8	4,286	5.7	1,535	129.9
1974	735,000	6,552	8.9	12,273	16.7	125	10.2	202	16.5	1	‡	7,741	10.5	3,940	5.4	-	-
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	-	-
1972	719,000	6,896	9.6	11,444	15.9	129	11.3	225	19.7	4	‡	7,674	10.7	3,609	5.0	-	-
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	-	-
1970	694,409	6,597	9.5	12,622	18.2	140	11.1	272	21.5	3	‡	6,919	10.0	3,047	4.4	-	-
1965	706,000	6,578	9.3	13,641	19.3	177	13.0	338	24.8	2	‡	4,688	6.6	2,002	2.8	-	-
1960	674,767	6,525	9.7	17,448	25.9	190	10.9	435	24.9	5	‡	5,883	8.7	2,003	3.0	-	-
1955	636,000	6,115	9.6	17,454	27.4	221	12.7	433	24.8	5	‡	6,514	10.2	1,909	3.0	-	-
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	-	-
1945	504,600	5,414	10.7	10,601	21.0	184	17.4	363	34.2	17	‡	8,147	16.1	2,380	4.7	-	-
1940	559,456	5,722	10.2	11,468	20.5	216	18.8	527	46.0	39	340.1	-	-	-	-	-	-
1935	549,077	6,291	11.5	10,029	18.3	232	23.1	602	60.0	52	518.5	-	-	-	-	-	-
1930	537,606	5,435	10.1	10,004	18.6	286	28.6	569	56.9	67	669.7	-	-	-	-	-	-
1925	542,834	5,188	9.6	10,302	19.0	343	33.3	726	70.5	83	805.7	-	-	-	-	-	-
1920	548,339	5,289	9.6	11,862	21.6	-	-	862	72.7	104	876.7	-	-	-	-	-	-
1915	468,067	5,072	10.8	11,132	23.8	-	-	816	73.3	91	817.5	-	-	-	-	-	-
1910	376,053	3,999	10.6	6,124	16.3	-	-	714	116.6	62	1,012.4	-	-	-	-	-	-

¹Data 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.

Table S-2

**Frequency of Death, Live Birth, and Fetal, Infant, and Maternal Death
By County Of Occurrence and County of Residence
Montana, 2011**

County	Deaths		Live Births		Fetal Deaths		Infant Deaths		Maternal Deaths	
	Occ.	Res.	Occ.	Res.	Occ.	Res.	Occ.	Res.	Occ.	Res.
Montana Total	9,098	9,005	12,017	12,039	64	65	62	69	**	**
Beaverhead	71	67	84	98	**	**	-	**	-	-
Big Horn	68	111	92	266	**	**	-	**	-	-
Blaine	46	76	-	118	-	**	-	**	-	-
Broadwater	46	58	**	54	-	-	-	-	-	-
Carbon	68	87	-	87	-	**	-	-	-	-
Carter	14	17	-	15	-	-	-	-	-	-
Cascade	887	801	1,571	1,235	11	9	16	8	-	-
Choteau	48	51	**	55	-	-	-	-	-	-
Custer	147	145	234	150	-	-	**	-	-	-
Daniels	24	25	**	22	-	-	-	-	-	-
Dawson	126	123	126	122	**	-	-	**	-	-
Deer Lodge	98	123	37	80	-	-	-	-	-	-
Fallon	24	24	-	56	-	-	-	**	-	-
Fergus	161	158	90	100	-	-	-	-	-	-
Flathead	780	725	1,174	1,099	6	**	**	5	-	-
Gallatin	525	525	1,192	1,079	**	**	**	**	-	-
Garfield	12	8	-	16	-	-	-	-	-	-
Glacier	103	139	188	251	-	**	**	**	**	-
Golden Valley	**	7	-	5	-	**	-	-	-	-
Granite	25	29	-	26	-	-	-	-	-	-
Hill	130	133	411	283	**	**	-	-	**	**
Jefferson	77	95	-	81	-	-	-	-	-	-
Judith Basin	16	29	-	14	-	-	-	**	-	-
Lake	202	252	299	355	-	**	**	**	-	-
Lewis & Clark	571	546	775	720	**	**	**	6	-	**
Liberty	24	27	**	25	-	-	-	-	-	-
Lincoln	183	209	138	180	-	**	-	-	-	-
McCone	15	26	-	12	-	-	-	-	-	-
Madison	79	78	**	62	-	-	**	**	-	-
Meagher	20	22	-	28	-	-	-	-	**	**
Mineral	34	43	**	37	-	-	-	-	-	-
Missoula	994	798	1,599	1,211	9	8	7	5	**	**
Musselshell	53	66	**	36	-	-	-	-	-	-
Park	136	152	102	144	-	-	**	**	-	-
Petroleum	**	**	-	5	-	-	-	-	-	-
Phillips	49	59	-	42	-	-	-	-	-	-
Pondera	55	65	35	69	-	-	-	-	-	-
Powder River	24	31	-	7	-	-	-	-	-	-
Powell	70	82	-	57	-	-	-	-	-	-
Prairie	10	17	-	13	-	-	-	-	-	-
Ravalli	310	394	193	377	**	**	-	-	-	-
Richland	93	98	125	129	-	-	-	**	-	-
Roosevelt	101	121	127	225	**	**	**	**	-	-
Rosebud	56	77	**	149	-	-	-	-	-	-
Sanders	104	140	37	89	**	**	-	-	-	-
Sheridan	47	48	-	34	-	-	-	-	-	-
Silver Bow	400	392	510	399	**	**	**	**	-	-
Stillwater	66	86	**	84	-	-	**	**	-	-
Sweet Grass	38	45	-	25	-	-	-	-	-	-
Teton	49	68	-	73	-	-	-	-	-	-
Toole	50	47	33	57	-	-	-	-	-	-
Treasure	**	11	-	**	-	-	-	-	-	-
Valley	66	74	142	76	**	-	-	-	-	-
Wheatland	16	21	-	24	-	-	-	-	-	-
Wibaux	10	17	-	**	-	-	-	-	-	-
Yellowstone	1,668	1,328	2,691	1,972	20	16	20	14	-	-
Yellowstone Park	-	-	-	-	-	-	-	-	-	-
Not Stated	-	5	-	5	-	-	-	**	-	-

** Frequency is fewer than five.

Table S-3

**Frequency of Death, Live Birth, Fetal Death, Infant Death, and Child Death by Race*
Montana Residents, 2011**

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
1989	6,741	6,414	304	23	11,667	10,157	1,391	119	86	64	21	**	133	97	36	-	92	73	19	-
1990	6,837	6,483	322	32	11,602	10,009	1,446	147	78	64	12	**	106	84	21	**	81	70	9	**
1991	7,004	6,637	339	28	11,498	10,010	1,363	125	90	77	9	**	82	61	20	**	88	72	16	-
1992	7,073	6,739	308	26	11,468	9,967	1,355	146	84	71	11	**	85	65	15	5	105	85	18	**
1993	7,468	7,118	322	28	11,362	9,970	1,247	145	74	67	7	-	81	68	13	-	89	74	15	-
1994	7,342	6,979	331	32	11,062	9,719	1,201	142	52	44	5	**	82	69	11	**	79	67	11	**
1995	7,626	7,237	360	29	11,136	9,843	1,140	153	67	61	**	**	79	70	6	**	106	88	17	**
1996	7,696	7,349	317	30	10,840	9,471	1,208	161	58	50	7	**	75	63	10	**	81	71	8	**
1997	7,745	7,386	336	23	10,838	9,389	1,290	159	49	40	9	-	73	55	18	-	88	77	11	-
1998	7,985	7,615	345	25	10,789	9,449	1,172	168	76	66	9	**	82	68	11	**	68	56	11	**
1999	8,082	7,618	429	35	10,778	9,353	1,274	151	62	50	9	**	71	54	16	**	78	64	13	**
2000	8,071	7,668	366	37	10,946	9,438	1,326	182	55	47	6	**	63	49	13	**	101	81	20	-
2001	8,252	7,839	385	28	10,947	9,392	1,363	192	43	30	12	**	73	63	10	-	62	51	11	-
2002	8,473	8,003	433	37	11,045	9,467	1,393	185	51	41	9	**	81	66	12	**	70	57	13	-
2003	8,439	7,973	425	41	11,384	9,771	1,393	220	55	44	6	5	76	63	11	**	75	62	9	**
2004	8,088	7,618	437	33	11,514	9,762	1,508	244	40	30	10	-	51	41	10	-	72	57	15	-
2005	8,496	8,019	442	35	11,573	9,839	1,481	253	54	43	10	**	81	66	15	-	69	56	13	-
2006	8,434	7,917	481	36	12,499	10,582	1,601	316	49	40	8	**	70	50	19	**	67	56	11	-
2007	8,570	8,083	454	33	12,437	10,545	1,591	301	38	31	7	-	74	61	13	-	58	45	13	-
2008	8,897	8,378	473	46	12,595	10,501	1,507	587	39	29	8	**	87	72	15	-	57	49	8	-
2009	8,704	8,173	489	42	12,280	10,221	1,451	608	58	52	5	**	72	53	17	**	65	49	16	-
2010	8,803	8,291	469	43	12,058	10,124	1,310	624	52	45	**	**	71	60	10	**	78	58	18	**
2011	9,005	8,476	496	33	12,039	9,958	1,368	713	65	55	8	**	69	54	12	**	63	51	10	**

* 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, 2011**

Item	Montana		Beaverhead		Big Horn		Blaine		Broadwater		Carbon		Carter		Cascade		Choteau		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Population	Population																		
	998,199	-	9,198	-	13,093	-	6,565	-	5,752	-	10,028	-	1,152	-	81,837	-	5,793	-	
Natural Increase*	Natural Increase																		
	3,034	3.0	31	0.0	155	0.0	42	0.0	-4	‡	‡	‡	-2	‡	434	0.0	†	‡	
Births - Residence	Live Births, Total																		
	12,039	12.1	98	10.7	266	20.3	118	18.0	54	9.4	87	8.7	15	‡	1,235	15.1	55	9.5	
	Live Births, Male																		
	6,097	12.2	47	20.8	142	40.8	61	36.1	31	18.4	42	17.1	8	‡	621	30.2	26	19.2	
	Live Births, Female																		
	5,942	12.0	51	21.8	124	40.5	57	35.8	23	19.2	45	17.6	7	‡	614	30.1	29	18.8	
	Live Births, Out Of Wedlock																		
	4,387	364.4	33	336.7	169	635.3	82	694.9	19	‡	28	321.8	†	‡	424	343.3	14	‡	
Deaths - Residence	Deaths (Excluding Fetal), Total																		
	9,005	9.0	67	7.3	111	8.5	76	11.6	58	10.1	87	8.7	17	‡	801	9.8	51	8.8	
	Deaths (Excluding Fetal), Male																		
	4,632	9.2	37	7.9	58	8.9	45	13.8	34	11.6	53	10.4	12	‡	403	9.9	28	9.8	
	Deaths (Excluding Fetal), Female																		
	4,373	8.8	30	6.7	53	8.1	31	9.4	24	8.5	34	6.9	5	‡	398	9.7	23	7.9	
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)																		
	69	5.7	†	‡	†	‡	†	‡	-	-	-	-	-	-	8	‡	-	-	
	Neonatal (Under 28 Days)																		
	51	4.2	†	‡	†	‡	†	‡	-	-	-	-	-	-	5	‡	-	-	
	Postneonatal (28 Days - 1 Year)																		
	18	‡	-	-	-	-	-	-	-	-	-	-	-	-	†	‡	-	-	
	Fetal																		
	65	5.4	†	‡	†	‡	†	‡	-	-	†	‡	-	-	9	‡	-	-	
	Perinatal																		
	116	9.6	†	‡	5	‡	†	‡	-	-	†	‡	-	-	14	‡	-	-	
Leading Causes of Death - Residence***	(#) Malignant neoplasms																		
	1,991	199.5	7	‡	17	‡	15	‡	15	‡	14	‡	†	‡	180	219.9	7	‡	
	(#) Diseases of heart																		
	1,907	191.0	22	239.2	15	‡	16	‡	18	‡	16	‡	†	‡	167	204.1	8	‡	
	(#) Chronic lower respiratory																		
	638	63.9	8	‡	†	‡	†	‡	†	‡	9	‡	†	‡	63	77.0	7	‡	
	(#) Accidents (unintentional injuries)																		
	577	57.8	†	‡	16	‡	7	‡	†	‡	10	‡	-	-	46	56.2	†	‡	
	(61#) Cerebrovascular diseases																		
	451	45.2	†	‡	5	‡	†	‡	†	‡	†	‡	-	-	45	55.0	†	‡	
	(48#) Alzheimer's disease																		
	258	25.8	†	‡	†	‡	†	‡	†	‡	-	-	-	-	36	44.0	†	‡	
	(43#) Diabetes mellitus																		
	246	24.6	†	‡	9	‡	6	‡	†	‡	†	‡	†	‡	21	25.7	†	‡	
	(#) Intentional self-harm (suicide)																		
	225	22.5	-	-	†	‡	-	-	†	‡	†	‡	-	-	17	‡	†	‡	
	(#) Influenza and pneumonia																		
	155	15.5	†	‡	†	‡	-	-	†	‡	†	‡	-	-	8	‡	†	‡	
	(#) Chronic liver disease and																		
	126	12.6	-	-	8	‡	†	‡	-	-	†	‡	-	-	10	‡	-	-	
Births - Occurrence	Live Births, Total																		
	12,017	12.0	84	9.1	92	7.0	-	-	†	‡	-	-	-	-	1,571	19.2	†	‡	
Deaths - Occurrence	Deaths (Excluding Fetal), Total																		
	9,098	9.1	71	7.7	68	5.2	46	7.0	46	8.0	68	6.8	14	‡	887	10.8	48	8.3	
	Accidental																		
	638	63.9	5	‡	13	‡	5	‡	†	‡	10	‡	†	‡	57	0.7	†	‡	
	Motor Vehicle																		
	236	23.6	†	‡	6	‡	†	‡	†	‡	†	‡	-	-	18	‡	†	‡	
	Other Accidental																		
	402	40.3	†	‡	7	‡	†	‡	†	‡	8	‡	†	‡	39	0.5	†	‡	
Infant Death - Occurrence	Infant Deaths (Under 1 Year)																		
	62	5.2	-	-	-	-	-	-	-	-	-	-	-	-	16	‡	-	-	
Marriages - Occurrence	Marriages Solumnized																		
	7,754	7.8	60	6.5	80	6.1	26	4.0	46	8.0	143	14.3	5	‡	594	7.3	38	6.6	
	Licenses Issued																		
	7,754	7.8	67	7.3	84	6.4	29	4.4	39	6.8	109	10.9	5	‡	641	7.8	28	4.8	
Marital Terminations - Occurrence	Marital Terminations																		
	3,091	3.1	34	3.7	20	1.5	7	‡	12	‡	17	‡	†	‡	442	5.4	5	‡	

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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, 2011**

Item	Custer		Daniels		Dawson		Deer Lodge		Fallon		Fergus		Flathead		Gallatin		Garfield	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population																	
	11,752	-	1,763	-	8,989	-	9,299	-	2,956	-	11,506	-	91,301	-	91,377	-	1,251	-
Natural Increase*	Natural Increase																	
	5	‡	-3	‡	-1	‡	-43	0.0	32	0.0	-58	0.0	374	0.0	554	0.0	8	‡
Births - Residence	Live Births, Total																	
	150	12.8	22	12.5	122	13.6	80	8.6	56	18.9	100	8.7	1,099	12.0	1,079	11.8	16	‡
	Live Births, Male																	
	80	25.7	11	‡	64	26.8	44	16.3	35	37.8	53	17.3	570	24.2	540	22.8	6	‡
	Live Births, Female																	
	70	25.3	11	‡	58	27.5	36	18.2	21	38.0	47	17.5	529	24.0	539	24.5	10	‡
	Live Births, Out Of Wedlock																	
	54	360.0	†	‡	47	385.2	35	437.5	14	‡	28	280.0	350	318.5	208	192.8	5	‡
Deaths - Residence	Deaths (Excluding Fetal), Total																	
	145	12.3	25	14.2	123	13.7	123	13.2	24	8.1	158	13.7	725	7.9	525	5.7	8	‡
	Deaths (Excluding Fetal), Male																	
	68	11.7	10	‡	68	14.9	75	15.3	11	‡	85	14.7	375	8.2	267	5.6	5	‡
	Deaths (Excluding Fetal), Female																	
	77	13.0	15	‡	55	12.4	48	10.9	13	‡	73	12.7	350	7.6	258	5.9	†	‡
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)																	
	-	-	-	-	†	‡	-	-	†	‡	-	-	5	‡	†	‡	-	-
	Neonatal (Under 28 Days)																	
	-	-	-	-	†	‡	-	-	†	‡	-	-	†	‡	†	‡	-	-
	Postneonatal (28 Days - 1 Year)																	
	-	-	-	-	-	-	-	-	-	-	-	-	†	‡	†	‡	-	-
	Fetal																	
	-	-	-	-	-	-	-	-	-	-	-	-	†	‡	†	‡	-	-
	Perinatal																	
	-	-	-	-	†	‡	-	-	†	‡	-	-	5	‡	†	‡	-	-
Leading Causes of Death - Residence***	(#) Malignant neoplasms																	
	25	212.7	8	‡	33	367.1	28	301.1	8	‡	37	321.6	159	174.1	118	129.1	†	‡
	(#) Diseases of heart																	
	26	221.2	†	‡	22	244.7	34	365.6	†	‡	30	260.7	165	180.7	115	125.9	†	‡
	(#) Chronic lower respiratory																	
	16	‡	†	‡	8	‡	6	‡	†	‡	6	‡	48	52.6	16	‡	†	‡
	(#) Accidents (unintentional injuries)																	
	18	‡	†	‡	7	‡	7	‡	†	‡	†	‡	47	51.5	40	43.8	-	-
	(61#) Cerebrovascular diseases																	
	6	‡	-	-	6	‡	†	‡	†	‡	15	‡	33	36.1	19	‡	†	‡
	(48#) Alzheimer's disease																	
	8	‡	-	-	†	‡	†	‡	-	-	†	‡	12	‡	10	‡	-	-
	(43#) Diabetes mellitus																	
	†	‡	-	-	†	‡	5	‡	-	-	-	-	20	21.9	7	‡	†	‡
	(#) Intentional self-harm (suicide)																	
	†	‡	-	-	†	‡	5	‡	-	-	†	‡	15	‡	17	‡	-	-
	(#) Influenza and pneumonia																	
	†	‡	-	-	†	‡	†	‡	-	-	†	‡	8	‡	9	‡	†	‡
	(#) Chronic liver disease and																	
	-	-	-	-	†	‡	-	-	-	-	6	‡	11	‡	†	‡	-	-
Births - Occurrence	Live Births, Total																	
	234	19.9	†	‡	126	14.0	37	4.0	-	-	90	7.8	1,174	12.9	1,192	13.0	-	-
Deaths - Occurrence	Deaths (Excluding Fetal), Total																	
	147	12.5	24	13.6	126	14.0	98	10.5	24	8.1	161	14.0	780	8.5	525	5.7	12	‡
	Accidental																	
	14	‡	†	‡	6	‡	5	‡	†	‡	7	‡	53	0.6	37	0.4	†	‡
	Motor Vehicle																	
	†	‡	†	‡	†	‡	†	‡	†	‡	5	‡	15	‡	12	‡	†	‡
	Other Accidental																	
	12	‡	†	‡	†	‡	†	‡	†	‡	†	‡	38	0.4	25	0.3	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)																	
	†	‡	-	-	-	-	-	-	-	-	-	-	†	‡	†	‡	-	-
Marriages - Occurrence	Marriages Solumnized																	
	88	7.5	10	‡	60	6.7	61	6.6	17	‡	80	7.0	1,667	18.3	759	8.3	6	‡
	Licenses Issued																	
	84	7.1	13	‡	60	6.7	44	4.7	18	‡	74	6.4	1,693	18.5	824	9.0	5	‡
Marital Terminations - Occurrence	Marital Terminations																	
	27	2.3	5	‡	-	-	14	‡	†	‡	29	2.5	332	3.6	333	3.6	†	‡

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TABLE S-4

**Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2011**

Item	Glacier		Golden Valley		Granite		Hill		Jefferson		Judith Basin		Lake		Lewis & Clark		Liberty		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Population	Population	13,624	-	865	-	3,068	-	16,397	-	11,381	-	2,004	-	28,947	-	64,318	-	2,402	-
Natural Increase*	Natural Increase	112	0.0	-2	‡	-3	‡	150	0.0	-14	‡	-15	‡	103	0.0	174	0.0	-2	‡
Births - Residence	Live Births, Total	251	18.4	5	‡	26	8.5	283	17.3	81	7.1	14	‡	355	12.3	720	11.2	25	10.4
	Live Births, Male	131	37.4	†	‡	12	‡	141	34.0	36	14.0	8	‡	178	24.8	368	22.7	12	‡
	Live Births, Female	120	36.3	†	‡	14	‡	142	35.0	45	14.5	6	‡	177	24.2	352	22.1	13	‡
	Live Births, Out Of Wedlock	182	725.1	†	‡	7	‡	153	540.6	18	‡	†	‡	200	563.4	257	356.9	†	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	139	10.2	7	‡	29	9.5	133	8.1	95	8.3	29	14.5	252	8.7	546	8.5	27	11.2
	Deaths (Excluding Fetal), Male	75	11.2	†	‡	13	‡	62	7.5	55	9.5	21	20.1	147	10.3	260	8.2	14	‡
	Deaths (Excluding Fetal), Female	64	9.2	†	‡	16	‡	71	8.8	40	7.2	8	‡	105	7.2	286	8.8	13	‡
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)	†	‡	-	-	-	-	-	-	-	-	†	‡	†	‡	6	‡	-	-
	Neonatal (Under 28 Days)	†	‡	-	-	-	-	-	-	-	-	†	‡	†	‡	5	‡	-	-
	Postneonatal (28 Days - 1 Year)	-	-	-	-	-	-	-	-	-	-	-	-	†	‡	†	‡	-	-
	Fetal	†	‡	†	‡	-	-	†	‡	-	-	-	-	†	‡	†	‡	-	-
	Perinatal	5	‡	†	‡	-	-	†	‡	-	-	†	‡	†	‡	7	‡	-	-
Leading Causes of Death - Residence***	(#) Malignant neoplasms	30	220.2	†	‡	6	‡	31	189.1	28	246.0	8	‡	54	186.5	126	195.9	5	‡
	(#) Diseases of heart	22	161.5	-	-	†	‡	30	183.0	14	‡	8	‡	56	193.5	106	164.8	5	‡
	(#) Chronic lower respiratory	10	‡	†	‡	†	‡	10	‡	7	‡	†	‡	16	‡	47	73.1	†	‡
	(#) Accidents (unintentional injuries)	13	‡	†	‡	†	‡	5	‡	10	‡	†	‡	16	‡	42	65.3	†	‡
	(61#) Cerebrovascular diseases	†	‡	†	‡	†	‡	†	‡	†	‡	†	‡	12	‡	31	48.2	†	‡
	(48#) Alzheimer's disease	-	-	-	-	-	-	5	‡	†	‡	-	-	5	‡	13	‡	†	‡
	(43#) Diabetes mellitus	8	‡	-	-	†	‡	†	‡	†	‡	-	-	5	‡	14	‡	†	‡
	(#) Intentional self-harm (suicide)	†	‡	-	-	†	‡	†	‡	†	‡	†	‡	9	‡	14	‡	-	-
	(#) Influenza and pneumonia	†	‡	-	-	†	‡	†	‡	†	‡	†	‡	5	‡	11	‡	-	-
(#) Chronic liver disease and	6	‡	-	-	†	‡	†	‡	†	‡	-	-	11	‡	†	‡	-	-	
Births - Occurrence	Live Births, Total	188	13.8	-	-	-	-	411	25.1	-	-	-	-	299	10.3	775	12.0	†	‡
Deaths - Occurrence	Deaths (Excluding Fetal), Total	103	7.6	†	‡	25	8.1	130	7.9	77	6.8	16	‡	202	7.0	571	8.9	24	10.0
	Accidental	15	‡	†	‡	†	‡	7	‡	14	‡	†	‡	16	‡	37	0.6	†	‡
	Motor Vehicle	6	‡	†	‡	†	‡	†	‡	8	‡	†	‡	†	‡	5	‡	-	-
	Other Accidental	9	‡	†	‡	†	‡	†	‡	6	‡	†	‡	13	‡	32	0.5	†	‡
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	†	‡	-	-	-	-	-	-	-	-	-	-	†	‡	†	‡	-	-
Marriages - Occurrence	Marriages Solumnized	71	5.2	†	‡	22	7.2	85	5.2	61	5.4	10	‡	227	7.8	414	6.4	11	‡
	Licenses Issued	67	4.9	†	‡	15	‡	91	5.5	26	2.3	6	‡	161	5.6	451	7.0	13	‡
Marital Terminations - Occurrence	Marital Terminations	42	3.1	-	-	6	‡	57	3.5	12	‡	6	‡	97	3.4	339	5.3	†	‡

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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, 2011**

Item	Lincoln		McCone		Madison		Meagher		Mineral		Missoula		Musselshell		Park		Petroleum		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Population	19,566	-	1,711	-	7,660	-	1,911	-	4,208	-	110,138	-	4,701	-	15,469	-	491	-	
Natural Increase*	-29	0.0	-14	‡	-16	‡	6	‡	-6	‡	413	0.0	-30	0.0	-8	‡	†	‡	
Births - Residence	Live Births, Total	180	9.2	12	‡	62	8.1	28	14.7	37	8.8	1,211	11.0	36	7.7	144	9.3	5	‡
	Live Births, Male	108	18.1	7	‡	37	15.6	13	‡	19	‡	621	21.8	19	‡	65	18.7	†	‡
	Live Births, Female	72	18.7	5	‡	25	16.8	15	‡	18	‡	590	22.2	17	‡	79	18.6	†	‡
	Live Births, Out Of Wedlock	58	322.2	†	‡	12	‡	8	‡	14	‡	356	294.0	10	‡	42	291.7	-	-
Deaths - Residence	Deaths (Excluding Fetal), Total	209	10.7	26	15.2	78	10.2	22	11.5	43	10.2	798	7.2	66	14.0	152	9.8	†	‡
	Deaths (Excluding Fetal), Male	116	11.7	14	‡	48	12.1	14	‡	29	13.3	416	7.5	33	14.1	91	11.8	†	‡
	Deaths (Excluding Fetal), Female	93	9.6	12	‡	30	8.1	8	‡	14	‡	382	7.0	33	14.0	61	7.9	†	‡
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)	-	-	-	-	†	‡	-	-	-	-	5	‡	-	-	†	‡	-	-
	Neonatal (Under 28 Days)	-	-	-	-	-	-	-	-	-	-	†	‡	-	-	†	‡	-	-
	Postneonatal (28 Days - 1 Year)	-	-	-	-	†	‡	-	-	-	-	†	‡	-	-	†	‡	-	-
	Fetal	†	‡	-	-	-	-	-	-	-	-	8	‡	-	-	-	-	-	-
	Perinatal	†	‡	-	-	-	-	-	-	-	-	12	‡	-	-	†	‡	-	-
Leading Causes of Death - Residence***	(#) Malignant neoplasms	50	255.5	†	‡	18	‡	5	‡	14	‡	174	158.0	13	‡	37	239.2	†	‡
	(#) Diseases of heart	53	270.9	7	‡	20	261.1	6	‡	8	‡	161	146.2	17	‡	27	174.5	-	-
	(#) Chronic lower respiratory	15	‡	†	‡	†	‡	†	‡	†	‡	50	45.4	8	‡	6	‡	†	‡
	(#) Accidents (unintentional injuries)	10	‡	†	‡	6	‡	-	-	†	‡	59	53.6	7	‡	9	‡	-	-
	(61#) Cerebrovascular diseases	13	‡	†	‡	6	‡	†	‡	†	‡	39	35.4	†	‡	5	‡	-	-
	(48#) Alzheimer's disease	†	‡	-	-	†	‡	-	-	-	-	23	20.9	†	‡	5	‡	-	-
	(43#) Diabetes mellitus	†	‡	-	-	†	‡	-	-	†	‡	18	‡	†	‡	†	‡	-	-
	(#) Intentional self-harm (suicide)	6	‡	-	-	†	‡	-	-	-	-	31	28.1	†	‡	5	‡	-	-
	(#) Influenza and pneumonia	†	‡	†	‡	†	‡	-	-	†	‡	15	‡	-	-	†	‡	†	‡
(#) Chronic liver disease and	5	‡	-	-	-	-	-	-	†	‡	8	‡	†	‡	†	‡	-	-	
Births - Occurrence	138	7.1	-	-	†	‡	-	-	†	‡	1,599	14.5	†	‡	102	6.6	-	-	
Deaths - Occurrence	Deaths (Excluding Fetal), Total	183	9.4	15	‡	79	10.3	20	10.5	34	8.1	994	9.0	53	11.3	136	8.8	†	‡
	Accidental	13	‡	†	‡	12	‡	†	‡	†	‡	72	0.7	6	‡	9	‡	†	‡
	Motor Vehicle	†	‡	-	-	9	‡	†	‡	†	‡	21	0.2	†	‡	†	‡	†	‡
	Other Accidental	9	‡	†	‡	†	‡	†	‡	†	‡	51	0.5	†	‡	5	‡	†	‡
Infant Death - Occurrence	-	-	-	-	†	‡	-	-	-	-	7	‡	-	-	†	‡	-	-	
Marriages - Occurrence	Marriages Solumnized	135	6.9	14	‡	85	11.1	15	‡	38	9.0	683	6.2	23	4.9	175	11.3	†	‡
	Licenses Issued	94	4.8	16	‡	57	7.4	11	‡	27	6.4	807	7.3	24	5.1	124	8.0	†	‡
Marital Terminations - Occurrence	Marital Terminations	46	2.4	†	‡	22	2.9	†	‡	16	‡	306	2.8	17	‡	94	6.1	-	-

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TABLE S-4

Selected Vital Statistics
 Frequencies and Rates or Ratios by County
 Montana, 2011

Item	Phillips		Pondera		Powder River		Powell		Prairie		Ravalli		Richland		Roosevelt		Rosebud	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population																	
Natural Increase*	Natural Increase																	
Births - Residence	Live Births, Total																	
	Live Births, Male																	
	Live Births, Female																	
	Live Births, Out Of Wedlock																	
Deaths - Residence	Deaths (Excluding Fetal), Total																	
	Deaths (Excluding Fetal), Male																	
	Deaths (Excluding Fetal), Female																	
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																	
	#) Diseases of heart																	
	#) Chronic lower respiratory																	
	#) Accidents (unintentional injuries)																	
	(61#) Cerebrovascular diseases																	
	(48#) Alzheimer's disease																	
	(43#) Diabetes mellitus																	
	#) Intentional self-harm (suicide)																	
	#) Influenza and pneumonia																	
#) Chronic liver disease and																		
Births - Occurrence	Live Births, Total																	
Deaths - Occurrence	Deaths (Excluding Fetal), Total																	
	Accidental																	
	Motor Vehicle																	
	Other Accidental																	
Infant Death - Occurrence	Infant Deaths (Under 1 Year)																	
Marriages - Occurrence	Marriages Solumnized																	
	Licenses Issued																	
Marital Terminations - Occurrence	Marital Terminations																	

* 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.

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TABLE S-4

**Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2011**

Item	Sanders		Sheridan		Silver Bow		Stillwater		Sweet Grass		Teton		Toole		Treasure		Valley		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Population	Population																		
	11,440	-	3,460	-	34,383	-	9,131	-	3,623	-	6,091	-	5,239	-	727	-	7,487	-	
Natural Increase*	Natural Increase																		
	-51	0.0	-14	‡	7	‡	-2	‡	-20	0.0	5	‡	10	‡	-8	‡	†	‡	
Births - Residence	Live Births, Total																		
	89	7.8	34	9.8	399	11.6	84	9.2	25	6.9	73	12.0	57	10.9	†	‡	76	10.2	
	Live Births, Male																		
	37	15.2	20	19.3	200	22.9	38	17.9	13	‡	36	24.2	31	19.5	-	8.2	39	20.3	
	Live Births, Female																		
	52	16.0	14	‡	199	23.5	46	18.9	12	‡	37	23.7	26	24.6	†	‡	37	20.3	
	Live Births, Out Of Wedlock																		
	29	325.8	10	‡	196	491.2	17	‡	6	‡	18	‡	19	‡	-	-	29	381.6	
Deaths - Residence	Deaths (Excluding Fetal), Total																		
	140	12.2	48	13.9	392	11.4	86	9.4	45	12.4	68	11.2	47	9.0	11	‡	74	9.9	
	Deaths (Excluding Fetal), Male																		
	78	13.3	20	11.4	186	10.7	41	8.7	15	‡	27	8.9	25	8.5	7	‡	36	9.6	
	Deaths (Excluding Fetal), Female																		
	62	11.1	28	16.5	206	12.2	45	10.1	30	16.6	41	13.3	22	9.5	†	‡	38	10.2	
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)																		
	-	-	-	-	†	‡	†	‡	-	-	-	-	-	-	-	-	-	-	
	Neonatal (Under 28 Days)																		
	-	-	-	-	†	‡	†	‡	-	-	-	-	-	-	-	-	-	-	
	Postneonatal (28 Days - 1 Year)																		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Fetal																		
	†	‡	-	-	†	‡	-	-	-	-	-	-	-	-	-	-	-	-	
	Perinatal																		
	†	‡	-	-	7	‡	†	‡	-	-	-	-	-	-	-	-	-	-	
Leading Causes of Death - Residence***	(#) Malignant neoplasms																		
	33	288.5	10	‡	74	215.2	23	251.9	10	‡	19	‡	13	‡	†	‡	10	‡	
	(#) Diseases of heart																		
	41	358.4	13	‡	93	270.5	19	‡	10	‡	18	‡	12	‡	6	‡	21	280.5	
	(#) Chronic lower respiratory																		
	9	‡	7	‡	46	133.8	5	‡	†	‡	5	‡	†	‡	-	-	6	‡	
	(#) Accidents (unintentional injuries)																		
	11	‡	†	‡	21	61.1	†	‡	†	‡	†	‡	-	-	-	-	5	‡	
	(61#) Cerebrovascular diseases																		
	15	‡	†	‡	11	‡	†	‡	†	‡	†	‡	†	‡	†	‡	7	‡	
	(48#) Alzheimer's disease																		
	†	‡	†	‡	8	‡	†	‡	†	‡	†	‡	†	‡	-	-	†	‡	
	(43#) Diabetes mellitus																		
	†	‡	-	-	13	‡	†	‡	†	‡	-	-	-	-	-	-	†	‡	
	(#) Intentional self-harm (suicide)																		
	5	‡	†	‡	6	‡	5	‡	†	‡	-	-	†	‡	-	-	†	‡	
	(#) Influenza and pneumonia																		
	†	‡	-	-	7	‡	†	‡	†	‡	-	-	†	‡	-	-	-	-	
	(#) Chronic liver disease and																		
	†	‡	†	‡	6	‡	†	‡	-	-	-	-	-	-	-	-	†	‡	
Births - Occurrence	Live Births, Total																		
	37	3.2	-	-	510	14.8	†	‡	-	-	-	-	33	6.3	-	-	142	19.0	
Deaths - Occurrence	Deaths (Excluding Fetal), Total																		
	104	9.1	47	13.6	400	11.6	66	7.2	38	10.5	49	8.0	50	9.5	†	‡	66	8.8	
	Accidental																		
	10	‡	†	‡	21	0.6	5	‡	†	‡	†	‡	-	-	-	-	5	‡	
	Motor Vehicle																		
	†	‡	-	-	†	‡	†	‡	†	‡	-	-	-	-	-	-	†	‡	
	Other Accidental																		
	6	‡	†	‡	17	‡	†	‡	†	‡	†	‡	-	-	-	-	†	‡	
Infant Death - Occurrence	Infant Deaths (Under 1 Year)																		
	-	-	-	-	†	‡	†	‡	-	-	-	-	-	-	-	-	-	-	
Marriages - Occurrence	Marriages Solumnized																		
	66	5.8	17	‡	226	6.6	49	5.4	31	8.6	52	8.5	25	4.8	†	‡	44	5.9	
	Licenses Issued																		
	52	4.5	20	5.8	238	6.9	54	5.9	28	7.7	42	6.9	27	5.2	†	‡	39	5.2	
Marital Terminations - Occurrence	Marital Terminations																		
	35	3.1	13	‡	141	4.1	-	-	11	‡	10	‡	17	‡	†	‡	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-4

**Selected Vital Statistics
Frequencies and Rates or Ratios by County
Montana, 2011**

Item		Wheatland		Wibaux		Yellowstone		Not Stated	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
Population	Population	2,140	-	985	-	150,069	-	-	-
Natural Increase*	Natural Increase	†	‡	-14	‡	644	0.0	-	‡
Births - Residence	Live Births, Total	24	11.2	†	‡	1,972	13.1	5	‡
	Live Births, Male	19	‡	†	‡	986	26.9	5	‡
	Live Births, Female	5	‡	†	‡	986	25.7	-	-
	Live Births, Out Of Wedlock	6	‡	-	-	758	384.4	†	‡
Deaths - Residence	Deaths (Excluding Fetal), Total	21	9.8	17	‡	1,328	8.8	5	‡
	Deaths (Excluding Fetal), Male	16	‡	7	‡	649	8.8	†	‡
	Deaths (Excluding Fetal), Female	5	‡	10	‡	679	8.9	†	‡
Infant Mortality & Fetal Death - Residence**	Infant Deaths (Under 1 Year)	-	-	-	-	14	‡	†	‡
	Neonatal (Under 28 Days)	-	-	-	-	10	‡	†	‡
	Postneonatal (28 Days - 1 Year)	-	-	-	-	†	‡	-	-
	Fetal	-	-	-	-	16	‡	-	-
	Perinatal	-	-	-	-	26	13.2	†	‡
Leading Causes of Death - Residence***	(#) Malignant neoplasms	†	‡	†	‡	304	202.6	†	‡
	(#) Diseases of heart	7	‡	†	‡	266	177.3	-	-
	(#) Chronic lower respiratory	†	‡	†	‡	101	67.3	-	-
	(#) Accidents (unintentional injuries)	†	‡	†	‡	53	35.3	†	‡
	(61#) Cerebrovascular diseases	-	-	†	‡	77	51.3	-	-
	(48#) Alzheimer's disease	-	-	†	‡	65	43.3	-	-
	(43#) Diabetes mellitus	†	‡	†	‡	35	23.3	-	-
	(#) Intentional self-harm (suicide)	†	‡	-	-	32	21.3	-	-
	(#) Influenza and pneumonia	-	-	-	-	23	15.3	-	-
(#) Chronic liver disease and	-	-	-	-	12	‡	-	-	
Births - Occurrence	Live Births, Total	-	-	-	-	2,691	17.9	-	-
Deaths - Occurrence	Deaths (Excluding Fetal), Total	16	‡	10	‡	1,668	11.1	-	-
	Accidental	†	‡	†	‡	85	0.6	-	-
	Motor Vehicle	†	‡	-	-	40	0.3	-	-
	Other Accidental	†	‡	†	‡	45	0.3	-	-
Infant Death - Occurrence	Infant Deaths (Under 1 Year)	-	-	-	-	20	7.4	-	-
Marriages - Occurrence	Marriages Solumnized	6	‡	†	‡	923	6.2	-	-
	Licenses Issued	6	‡	†	‡	975	6.5	-	-
Marital Terminations - Occurrence	Marital Terminations	†	‡	†	‡	317	2.1	-	-

* 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, Montana Residents, 1990-2011

Year		Age							Not Stated
		All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older		
2011	Live Births	Number	12,039	935	3,206	3,725	2,848	1,324	†
		Rate+	12.1	3.7	46.4	58.3	46.7	2.4	‡
	Fetal Deaths	Number	65	12	14	18	9	11	†
		Rate+	0.1	‡	‡	‡	‡	‡	‡
	Induced Abortions	Number	1,875	304	654	433	270	214	-
		Rate+	1.9	1.2	9.5	6.8	4.4	0.4	-
2010	Live Births	Number	12,058	1,141	3,137	3,624	2,772	1,383	†
		Rate+	12.2	4.6	46.2	56.4	47.0	2.5	‡
	Fetal Deaths	Number	52	10	11	12	13	6	-
		Rate+	0.1	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,892	308	675	443	244	222	-
		Rate+	1.9	1.2	9.9	6.9	4.1	0.4	-
2009	Live Births	Number	12,280	1,267	3,318	3,769	2,624	1,302	-
		Rate+	12.5	5.0	49.1	59.9	45.6	2.4	-
	Fetal Deaths	Number	57	7	10	14	15	11	-
		Rate+	0.1	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,946	363	659	471	241	212	-
		Rate+	2.0	1.4	9.8	7.5	4.2	0.4	-
2008	Live Births	Number	12,595	1,321	3,458	3,884	2,605	1,327	-
		Rate+	12.9	5.2	50.2	63.2	47.4	2.5	-
	Fetal Deaths	Number	39	9	†	5	6	15	-
		Rate+	0.0	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,915	370	688	427	240	190	-
		Rate+	2.0	1.5	10.0	7.0	4.4	0.4	-
2007	Live Births	Number	12,437	1,207	3,486	3,756	2,555	1,433	-
		Rate+	12.9	4.8	50.4	64.0	47.6	2.7	-
	Fetal Deaths	Number	38	6	†	12	7	9	-
		Rate+	0.0	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,977	374	732	423	224	224	-
		Rate+	2.0	1.5	10.6	7.2	4.2	0.4	-
2006	Live Births	Number	12,499	1,289	3,528	3,728	2,515	1,439	-
		Rate+	13.1	5.2	49.5	68.4	47.4	2.7	-
	Fetal Deaths	Number	49	6	9	13	10	11	-
		Rate+	0.1	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,959	385	732	413	212	217	-
		Rate+	2.1	1.5	10.3	7.6	4.0	0.4	-
2005	Live Births	Number	11,573	1,201	3,314	3,318	2,370	1,368	†
		Rate+	12.3	4.8	47.2	64.3	44.0	2.7	‡
	Fetal Deaths	Number	54	†	18	17	8	10	-
		Rate+	0.1	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,980	428	691	385	263	213	-
		Rate+	2.1	1.7	9.8	7.5	4.9	0.4	-
2004	Live Births	Number	11,514	1,225	3,327	3,233	2,398	1,331	-
		Rate+	12.4	4.9	48.8	64.5	44.7	2.6	-
	Fetal Deaths	Number	40	†	8	11	10	7	-
		Rate+	0.0	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	2,088	420	733	446	230	259	-
		Rate+	2.2	1.7	10.8	8.9	4.3	0.5	-
2003	Live Births	Number	11,384	1,211	3,124	3,259	2,435	1,353	†
		Rate+	12.4	4.8	47.1	67.3	45.7	2.7	‡
	Fetal Deaths	Number	55	7	17	13	9	9	-
		Rate+	0.1	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	1,975	432	677	412	227	227	-
		Rate+	2.1	1.7	10.2	8.5	4.3	0.5	-
2002	Live Births	Number	11,045	1,277	3,155	3,028	2,319	1,263	†
		Rate+	12.1	5.0	49.9	63.2	43.8	2.6	‡
	Fetal Deaths	Number	51	†	17	11	13	6	-
		Rate+	0.1	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	2,052	456	689	381	271	255	-
		Rate+	2.3	1.8	10.9	8.0	5.1	0.5	-

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

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

- Frequency is zero and rate is not calculated.

† Frequency is fewer than five.

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

Table S-5

Frequency* and Age-Specific Rate+ of Live Births, Fetal Deaths, and Induced Abortions* by Year, Montana Residents, 1990-2011

Year		Age							Not Stated
		All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older		
2001	Live Births	Number	10,947	1,266	3,094	2,948	2,315	1,315	9
		Rate+	12.1	4.9	51.5	60.6	43.9	2.7	‡
	Fetal Deaths	Number	43	7	11	8	9	6	†
		Rate+	0.0	‡	‡	‡	‡	‡	‡
	Induced Abortions	Number	2,082	480	702	355	265	273	7
		Rate+	2.3	1.9	11.7	7.3	5.0	0.6	‡
2000	Live Births	Number	10,946	1,273	3,067	3,051	2,190	1,365	-
		Rate+	12.1	4.9	52.3	60.3	42.0	2.8	-
	Fetal Deaths	Number	55	9	17	13	10	6	-
		Rate+	0.1	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	2,117	490	740	370	253	264	-
		Rate+	2.3	1.9	12.6	7.3	4.8	0.5	-
1999	Live Births	Number	10,778	1,258	2,977	3,013	2,164	1,362	†
		Rate+	12.0	4.9	51.5	59.7	41.6	2.8	‡
	Fetal Deaths	Number	62	†	17	22	12	7	-
		Rate+	0.1	‡	‡	0.4	‡	‡	-
	Induced Abortions	Number	2,137	549	659	407	244	278	-
		Rate+	2.4	2.1	11.4	8.1	4.7	0.6	-
1998	Live Births	Number	10,789	1,337	2,998	2,959	2,192	1,301	†
		Rate+	12.1	5.2	52.4	59.4	41.2	2.8	‡
	Fetal Deaths	Number	76	13	14	24	9	15	†
		Rate+	0.1	‡	‡	0.5	‡	‡	‡
	Induced Abortions	Number	2,159	498	710	418	247	283	†
		Rate+	2.4	1.9	12.4	8.4	4.6	0.6	‡
1997	Live Births	Number	10,838	1,327	2,834	3,065	2,232	1,380	-
		Rate+	12.2	5.1	49.8	62.2	40.1	2.9	-
	Fetal Deaths	Number	49	6	20	12	†	8	-
		Rate+	0.1	‡	0.4	‡	‡	‡	-
	Induced Abortions	Number	2,314	578	705	443	281	307	-
		Rate+	2.6	2.2	12.4	9.0	5.1	0.7	-
1996	Live Births	Number	10,840	1,344	2,844	3,045	2,294	1,312	†
		Rate+	12.2	5.1	50.5	62.6	39.2	2.8	‡
	Fetal Deaths	Number	58	10	9	13	12	14	-
		Rate+	0.1	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	2,307	563	700	442	319	283	-
		Rate+	2.6	2.1	12.4	9.1	5.4	0.6	-
1995	Live Births	Number	11,136	1,410	2,950	3,087	2,395	1,294	-
		Rate+	12.7	5.4	53.0	65.0	39.3	2.9	-
	Fetal Deaths	Number	66	11	7	17	21	10	-
		Rate+	0.1	‡	‡	‡	0.3	‡	-
	Induced Abortions	Number	2,244	587	680	394	293	290	-
		Rate+	2.6	2.2	12.2	8.3	4.8	0.6	-
1994	Live Births	Number	11,062	1,337	2,994	3,036	2,429	1,266	-
		Rate+	12.8	5.1	55.5	64.4	38.6	2.9	-
	Fetal Deaths	Number	51	6	11	13	13	8	-
		Rate+	0.1	‡	‡	‡	‡	‡	-
	Induced Abortions	Number	2,310	592	711	386	342	279	-
		Rate+	2.7	2.3	13.2	8.2	5.4	0.6	-
1993	Live Births	Number	11,362	1,413	3,131	3,180	2,449	1,187	†
		Rate+	13.4	5.5	59.8	66.2	38.1	2.8	‡
	Fetal Deaths	Number	74	9	20	21	13	10	†
		Rate+	0.1	‡	0.4	0.4	‡	‡	‡
	Induced Abortions	Number	2,269	570	733	405	309	251	†
		Rate+	2.7	2.2	14.0	8.4	4.8	0.6	‡
1992	Live Births	Number	11,468	1,368	3,096	3,336	2,519	1,149	-
		Rate+	13.9	5.4	61.6	67.4	38.8	2.8	-
	Fetal Deaths	Number	84	†	21	25	21	13	-
		Rate+	0.1	‡	0.4	0.5	0.3	‡	-
	Induced Abortions	Number	2,417	601	740	426	376	274	-
		Rate+	2.9	2.4	14.7	8.6	5.8	0.7	-

* 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, Montana Residents, 1990-2011

Year		Age							
		All Ages	Younger Than 20	20-24	25-29	30-34	35 And Older	Not Stated	
1991	Live Births	Number	11,498	1,331	3,197	3,379	2,456	1,134	†
		Rate+	14.2	5.4	65.4	64.8	37.3	2.9	‡
	Fetal Deaths	Number	90	15	14	23	22	15	†
		Rate+	0.1	‡	‡	0.4	0.3	‡	‡
	Induced Abortions	Number	2,376	600	767	443	325	241	-
		Rate+	2.9	2.4	15.7	8.5	4.9	0.6	-
1990	Live Births	Number	11,602	1,344	3,070	3,669	2,481	1,038	-
		Rate+	14.5	5.5	64.2	66.4	37.2	2.7	-
	Fetal Deaths	Number	78	6	19	21	15	17	-
		Rate+	0.1	‡	‡	0.4	‡	‡	-
	Induced Abortions	Number	2,570	705	754	505	356	250	-
		Rate+	3.2	2.9	15.8	9.1	5.3	0.7	-

* 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, 2000-2011**

County	Year											
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Montana Total	903,773	906,961	911,667	919,630	930,009	940,102	952,692	964,706	976,415	983,982	990,958	998,199
Beaverhead	9,204	9,058	9,018	8,924	8,908	8,904	9,012	9,028	9,166	9,200	9,256	9,198
Big Horn	12,669	12,783	12,713	12,652	12,731	12,634	12,540	12,549	12,564	12,747	12,925	13,093
Blaine	6,968	6,748	6,769	6,699	6,571	6,592	6,536	6,472	6,401	6,445	6,495	6,565
Broadwater	4,378	4,438	4,478	4,562	4,711	4,775	4,958	5,089	5,261	5,496	5,636	5,752
Carbon	9,561	9,665	9,714	9,747	9,796	9,921	9,916	9,973	9,965	10,033	10,079	10,028
Carter	1,335	1,337	1,319	1,290	1,284	1,258	1,227	1,216	1,172	1,180	1,158	1,152
Cascade	80,318	80,055	79,848	79,633	80,198	80,041	79,984	80,099	80,529	80,680	81,509	81,837
Choteau	6,062	5,899	5,811	5,775	5,729	5,708	5,709	5,746	5,774	5,793	5,813	5,793
Custer	11,678	11,484	11,510	11,438	11,510	11,423	11,395	11,480	11,515	11,646	11,710	11,752
Daniels	2,005	1,999	1,912	1,881	1,804	1,782	1,748	1,702	1,704	1,732	1,751	1,763
Dawson	9,050	8,963	8,801	8,812	8,764	8,800	8,853	8,944	8,925	9,008	8,939	8,989
Deer Lodge	9,409	9,303	9,238	9,189	9,274	9,274	9,180	9,264	9,351	9,260	9,297	9,299
Fallon	2,816	2,741	2,725	2,769	2,773	2,712	2,722	2,768	2,807	2,882	2,893	2,956
Fergus	11,902	11,736	11,666	11,565	11,546	11,444	11,501	11,463	11,448	11,571	11,594	11,506
Flathead	74,774	76,171	77,583	79,643	81,247	83,320	85,759	88,245	90,260	90,910	90,871	91,301
Gallatin	68,375	70,120	71,824	74,504	77,124	80,310	83,984	86,620	88,932	89,187	89,616	91,377
Garfield	1,268	1,269	1,258	1,254	1,236	1,202	1,233	1,234	1,205	1,240	1,193	1,251
Glacier	13,183	13,098	13,101	13,168	13,388	13,264	13,250	13,179	13,109	13,266	13,467	13,624
Golden Valley	1,019	992	1,012	981	1,001	1,014	973	964	890	897	886	865
Granite	2,849	2,905	2,919	2,931	2,943	3,009	3,013	3,039	3,031	3,057	3,079	3,068
Hill	16,605	16,378	16,139	15,988	15,947	15,870	15,981	16,031	15,889	15,981	16,161	16,397
Jefferson	10,052	10,087	10,181	10,262	10,511	10,709	10,801	11,040	11,203	11,364	11,419	11,381
Judith Basin	2,330	2,266	2,246	2,201	2,196	2,161	2,146	2,083	2,071	2,076	2,070	2,004
Lake	26,588	26,810	26,814	27,117	27,634	28,023	28,283	28,235	28,515	28,668	28,775	28,947
Lewis & Clark	55,886	56,262	56,271	57,110	58,041	58,529	59,529	60,646	61,747	62,671	63,604	64,318
Liberty	2,168	2,163	2,144	2,212	2,263	2,266	2,216	2,236	2,225	2,283	2,355	2,402
Lincoln	18,818	18,646	18,669	18,861	18,991	19,180	19,228	19,440	19,541	19,657	19,668	19,566
McCone	1,960	1,874	1,828	1,797	1,781	1,778	1,765	1,767	1,720	1,705	1,738	1,711
Madison	6,870	6,856	6,935	6,894	6,999	7,211	7,343	7,560	7,674	7,674	7,698	7,660
Meagher	1,916	1,906	1,895	1,913	1,935	1,899	1,923	1,908	1,893	1,897	1,892	1,911
Mineral	3,877	3,839	3,837	3,936	3,985	4,133	4,211	4,156	4,177	4,200	4,223	4,208
Missoula	96,178	97,435	98,968	99,976	100,934	102,298	104,372	106,110	107,747	108,717	109,443	110,138
Musselshell	4,471	4,368	4,353	4,361	4,370	4,323	4,398	4,394	4,423	4,478	4,550	4,701
Park	15,710	15,651	15,676	15,539	15,509	15,629	15,690	15,828	15,896	15,738	15,587	15,469
Petroleum	493	490	506	506	519	492	495	470	481	488	493	491
Phillips	4,568	4,498	4,383	4,317	4,295	4,228	4,166	4,193	4,182	4,242	4,267	4,250
Pondera	6,384	6,360	6,285	6,228	6,140	6,148	6,172	6,169	6,117	6,109	6,173	6,257
Powder River	1,847	1,814	1,834	1,837	1,789	1,739	1,794	1,761	1,756	1,738	1,737	1,738
Powell	7,203	7,033	6,986	6,893	6,872	6,997	7,115	7,117	7,036	7,093	7,031	7,063
Prairie	1,179	1,208	1,173	1,168	1,153	1,098	1,098	1,083	1,123	1,139	1,190	1,159
Ravalli	36,301	36,683	37,308	38,184	38,739	39,012	39,555	40,023	40,223	39,956	40,343	40,450
Richland	9,619	9,424	9,286	9,195	9,096	9,207	9,267	9,356	9,430	9,679	9,753	10,128
Roosevelt	10,623	10,558	10,389	10,344	10,459	10,437	10,285	10,166	10,129	10,334	10,458	10,527
Rosebud	9,399	9,248	9,196	9,210	9,136	9,131	9,057	9,089	9,095	9,174	9,264	9,379
Sanders	10,287	10,489	10,466	10,554	10,895	11,002	11,178	11,364	11,433	11,471	11,397	11,440
Sheridan	4,078	3,952	3,825	3,697	3,683	3,573	3,507	3,469	3,385	3,387	3,384	3,460
Silver Bow	34,571	33,882	33,636	33,474	33,416	33,414	33,441	33,489	33,812	34,008	34,233	34,383
Stillwater	8,247	8,392	8,441	8,451	8,435	8,481	8,659	8,867	8,945	9,077	9,110	9,131
Sweet Grass	3,633	3,594	3,617	3,591	3,676	3,675	3,697	3,778	3,755	3,731	3,623	3,623
Teton	6,436	6,373	6,286	6,314	6,209	6,105	6,110	6,143	6,143	6,050	6,088	6,091
Toole	5,261	5,228	5,184	5,006	5,069	5,130	5,085	4,969	5,079	5,245	5,346	5,239
Treasure	854	836	793	784	799	766	759	748	754	720	721	727
Valley	7,653	7,587	7,512	7,427	7,422	7,367	7,272	7,332	7,415	7,349	7,376	7,487
Wheatland	2,243	2,174	2,193	2,131	2,113	2,086	2,035	2,080	2,151	2,158	2,162	2,140
Wibaux	1,072	1,032	1,028	1,020	1,019	995	984	1,014	986	1,030	1,009	985
Yellowstone	129,570	130,801	132,165	133,715	135,441	137,623	139,582	141,518	144,255	146,465	148,450	150,069

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, 2003-2011**

Item	2003		2004		2005		2006		2007		2008		2009		2010		2011	
	Number	Percent																
Montana Total	11,384	100.0%	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%
SEX																		
Male	5,797	50.9%	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%
Female	5,587	49.0%	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%
Unknown	-	-	1	0.0%	-	-	-	-	-	-	-	-	-	-	1	0.0%	-	-
PLURALITY																		
Single	11,072	97.2%	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%
Twins	305	2.6%	359	3.1%	286	2.4%	388	3.1%	397	3.1%	370	2.9%	369	3.0%	358	2.9%	358	2.9%
Triplets Or More	7	0.0%	19	0.1%	7	0.0%	16	0.1%	6	0.0%	15	0.1%	3	0.0%	7	0.0%	10	0.0%
Not Stated	-	-	1	0.0%	2	0.0%	3	0.0%	-	-	7	0.0%	5	0.0%	2	0.0%	-	-
PARITY																		
First Birth	4,329	38.0%	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%
Second Birth	3,620	31.7%	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%
Third Birth	2,013	17.6%	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%
Fourth Birth	814	7.1%	868	7.5%	898	7.7%	984	7.8%	961	7.7%	892	7.0%	912	7.4%	865	7.1%	916	7.6%
Fifth Birth	324	2.8%	293	2.5%	349	3.0%	391	3.1%	378	3.0%	389	3.0%	339	2.7%	398	3.3%	409	3.3%
Sixth Birth	139	1.2%	125	1.0%	125	1.0%	164	1.3%	167	1.3%	139	1.1%	154	1.2%	140	1.1%	155	1.2%
Seventh Birth	67	0.5%	63	0.5%	63	0.5%	71	0.5%	79	0.6%	91	0.7%	66	0.5%	68	0.5%	72	0.5%
Eighth Birth	29	0.2%	29	0.2%	34	0.2%	33	0.2%	43	0.3%	29	0.2%	20	0.1%	40	0.3%	35	0.2%
Ninth Or More	42	0.3%	42	0.3%	33	0.2%	41	0.3%	40	0.3%	42	0.3%	38	0.3%	40	0.3%	43	0.3%
Not Stated	7	0.0%	10	0.0%	14	0.1%	7	0.0%	7	0.0%	33	0.2%	33	0.2%	20	0.1%	10	0.0%

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

Table B-2

**Frequency and Percent Distribution of Live Births
by Type of Facility and Attendant by Year
Montana Occurance, 1989-2011**

Year	Total	Other Not In Hospital		Physician Not In Hospital**		BOA* And In Hospital	
		Number	Percent	Number	Percent	Number	Percent
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, 1989-2011**

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
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, 1989-2011**

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.
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, 1989-2011**

Year	Total	Not Stated	No Care	10th	9th	8th	7th	6th	5th	4th	3rd	2nd	1st
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, 2011**

Cause Of Death*	All Ages			Age In Years																			
				0 YR.		1 YR.		2-4		5-9		10-14		15-17		18-19		20-24		25-29		30-34	
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.		
All Causes	9,005	4,632	4,373	41	28	5	6	5	2	9	3	9	4	14	6	19	8	61	16	55	24	64	15
I. Certain infectious and parasitic diseases	158	77	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Intestinal infectious diseases	24	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other intestinal infectious diseases	18	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(7) Intestinal infections due to other specified organisms	18	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(8) Diarrhea and gastroenteritis of infectious origin	6	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zoonotic and other bacterial diseases	86	35	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(18) Septicemia	83	34	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(19) Other zoonotic and bacterial diseases	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Viral diseases	40	28	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(34) Zoster (herpes zoster)	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(38) Viral hepatitis	27	20	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Human immunodeficiency virus (HIV) disease	4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(39) Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic diseases	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(42) Human immunodeficiency virus (HIV) disease resulting in other conditions	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(43) Unspecified human immunodeficiency virus (HIV) disease	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(44) All other and unspecified viral diseases	7	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other and unspecified infectious and parasitic diseases and their sequelae	8	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(45) Mycoses	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(55) All other and unspecified infectious and parasitic diseases and their sequelae	7	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II. Neoplasms	2,041	1,095	946	1	-	-	1	-	-	-	1	2	1	3	-	1	1	4	1	2	1	3	2
Malignant neoplasms	1,991	1,073	918	1	-	-	1	-	-	-	1	2	1	3	-	1	1	4	1	2	1	3	2
Malignant neoplasms of lip, oral cavity and pharynx	28	19	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(57) Of tongue	8	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(58) Of pharynx	7	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(59) Of other and unspecified sites within the lip, oral cavity and pharynx	13	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of digestive organs	447	261	186	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
(60) Of esophagus	51	35	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(61) Of stomach	27	11	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(62) Of small intestine	7	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Of colon, rectum and anus	160	89	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(63) Colon	118	63	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(64) Rectosigmoid junction and rectum	40	26	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(65) Anus and anal canal	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Of liver and intrahepatic bile ducts	52	37	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(66) Liver	41	32	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(67) Intrahepatic bile duct carcinoma	11	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(68) Of gallbladder and extrahepatic bile ducts	11	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(69) Of pancreas	136	77	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(70) Of other and ill-defined digestive organs	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of respiratory and intrathoracic organs	594	338	256	-	-	-	-	-	-	-	-	-	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, 2011**

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	52	29	86	60	129	105	246	149	307	180	364	246	414	279	449	332	552	424	614	604	1,137	1,853
I. Certain infectious and parasitic diseases	1	1	-	7	2	4	4	3	16	4	13	6	3	5	3	5	6	6	11	15	18	25
Intestinal infectious diseases	-	-	-	-	-	-	-	-	1	-	2	1	-	-	1	-	1	1	-	3	7	7
Other intestinal infectious diseases	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	1	-	2	6	6
(7) Intestinal infections due to other specified organisms	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	1	-	2	6	6
(8) Diarrhea and gastroenteritis of infectious origin	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	1	-	-	1	1	1
Zoonotic and other bacterial diseases	-	-	-	5	-	-	-	2	4	2	5	5	2	5	2	5	5	5	9	10	8	12
(18) Septicemia	-	-	-	5	-	-	-	2	4	2	4	5	2	5	2	5	5	4	9	9	8	12
(19) Other zoonotic and bacterial diseases	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	1	-	-
Viral diseases	1	1	-	2	2	4	4	-	11	2	6	-	1	-	-	-	-	-	2	1	1	2
(34) Zoster (herpes zoster)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
(38) Viral hepatitis	-	-	-	2	2	3	2	-	11	2	5	-	-	-	-	-	-	-	-	-	-	-
Human immunodeficiency virus (HIV) disease	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(39) Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic diseases	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(42) Human immunodeficiency virus (HIV) disease resulting in other conditions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(43) Unspecified human immunodeficiency virus (HIV) disease	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(44) All other and unspecified viral diseases	-	-	-	-	-	1	1	-	-	-	1	-	1	-	-	-	-	-	-	1	1	1
Other and unspecified infectious and parasitic diseases and their sequelae	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2	4
(45) Mycoses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(55) All other and unspecified infectious and parasitic diseases and their sequelae	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2	3
II. Neoplasms	6	2	10	8	17	24	56	51	90	72	116	101	146	111	153	129	160	113	151	128	174	199
Malignant neoplasms	6	2	10	8	16	23	56	50	88	71	113	99	144	109	151	129	158	106	150	124	165	189
Malignant neoplasms of lip, oral cavity and pharynx	-	-	-	1	-	1	1	1	1	-	4	1	5	2	4	1	1	-	2	2	-	-
(57) Of tongue	-	-	-	1	-	-	-	1	-	-	1	-	1	1	-	-	1	-	-	1	-	-
(58) Of pharynx	-	-	-	-	-	-	-	-	-	-	1	-	2	1	1	-	-	-	1	1	-	-
(59) Of other and unspecified sites within the lip, oral cavity and pharynx	-	-	-	-	-	1	1	-	1	-	2	1	2	-	3	1	-	-	1	-	-	-
Malignant neoplasms of digestive organs	2	-	3	2	8	4	17	6	34	11	31	27	41	17	36	27	26	23	29	27	33	41
(60) Of esophagus	-	-	1	-	2	-	2	1	2	2	4	1	11	2	5	2	1	2	4	2	3	4
(61) Of stomach	1	-	-	-	-	1	1	1	3	-	-	5	1	1	1	4	-	-	4	-	3	3
(62) Of small intestine	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	1	-	-	3
Of colon, rectum and anus	1	-	1	1	1	2	4	4	11	6	9	10	16	2	14	10	7	7	10	13	14	16
(63) Colon	-	-	1	1	1	-	3	4	9	3	6	6	11	2	10	8	3	5	8	11	11	15
(64) Rectosigmoid junction and rectum	1	-	-	-	-	1	1	-	2	3	3	3	5	-	4	2	4	2	2	2	3	1
(65) Anus and anal canal	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Of liver and intrahepatic bile ducts	-	-	-	-	2	-	4	-	10	1	7	2	2	2	2	5	5	1	2	-	3	3
(66) Liver	-	-	-	-	1	-	4	-	9	1	7	2	2	-	1	3	5	-	2	-	1	2
(67) Intrahepatic bile duct carcinoma	-	-	-	-	1	-	-	-	1	-	-	-	-	2	1	2	-	1	-	-	2	1
(68) Of gallbladder and extrahepatic bile ducts	-	-	-	-	-	1	1	-	-	-	-	-	1	3	1	1	1	-	-	-	2	-
(69) Of pancreas	-	-	1	1	3	-	4	-	8	2	11	9	8	7	12	8	8	12	11	8	11	12
(70) Of other and ill-defined digestive organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-
Malignant neoplasms of respiratory and intrathoracic organs	-	-	-	1	3	3	19	14	33	16	38	27	43	29	51	47	71	39	44	40	36	39

* 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, 2011**

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.	
(71) Of nasal cavity, middle ear and accessory sinuses	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(72) Of larynx	15	12	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(73) Of trachea, bronchus and lung	577	324	253	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
(74) Of thymus, heart, mediastinum and pleura	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(76) Malignant neoplasms of bone and articular cartilage	6	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Melanoma and other malignant neoplasms of skin	47	32	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(77) Malignant melanoma of skin	40	27	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(78) Other malignant neoplasms of skin	7	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of mesothelial and soft tissue	28	15	13	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-
(79) Mesothelioma	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(81) Of other mesothelial and soft tissue	22	9	13	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-
(82) Malignant neoplasm of breast	136	2	134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Malignant neoplasms of female genital organs	96	-	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(83) Of vulva and vagina	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(84) Of cervix uteri	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(85) Of corpus uteri and uterus, part unspecified	24	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(86) Of ovary	60	-	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(87) Of other and unspecified female genital organs	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of male genital organs	107	107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(89) Of prostate	104	104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(90) Of testis	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Malignant neoplasms of urinary tract	95	71	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(92) Of kidney and renal pelvis	34	22	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(93) Of bladder	57	46	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(94) Of other and unspecified sites within the urinary tract	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(95) Malignant neoplasm of eye and adnexa	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of meninges, brain and other parts of central nervous system	64	31	33	1	-	-	1	-	-	-	-	1	-	1	-	-	-	1	-	2	-	-
(96) Of brain	64	31	33	1	-	-	1	-	-	-	-	1	-	1	-	-	-	1	-	2	-	-
(98) Malignant neoplasms of thyroid and other endocrine glands	14	9	5	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-
(99) Other malignant neoplasms of other and unspecified sites	148	73	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms of lymphoid, hematopoietic and related tissue	180	111	69	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	1	1	-
(100) Hodgkin 's disease	4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Of other lymphoid, hematopoietic and related tissue	63	42	21	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(101) Non-Hodgkin 's lymphoma	63	42	21	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(104) Multiple myeloma and malignant plasma cell neoplasms	41	23	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Leukemia	72	43	29	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	-
(105) Lymphoid leukemia	14	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
(106) Myeloid leukemia	38	26	12	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-
(108) Other and unspecified leukemia	20	9	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benign neoplasms	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(112) Of eye, brain and other parts of central nervous system	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(114) Neoplasms of uncertain or unknown behavior of specified sites	40	20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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, 2011**

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.
(71) Of nasal cavity, middle ear and accessory sinuses	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
(72) Of larynx	-	-	-	-	-	-	1	-	3	-	-	-	-	-	2	1	5	1	1	1	-	-
(73) Of trachea, bronchus and lung	-	-	-	1	3	3	18	14	30	16	36	27	43	29	49	46	66	38	43	39	36	39
(74) Of thymus, heart, mediastinum and pleura	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
(76) Malignant neoplasms of bone and articular cartilage	-	-	-	-	-	-	1	1	-	-	1	1	-	-	-	-	-	-	1	-	-	1
Melanoma and other malignant neoplasms of skin	1	1	1	-	-	-	3	-	2	1	6	2	6	2	3	-	4	3	4	2	2	4
(77) Malignant melanoma of skin	1	1	1	-	-	-	2	-	2	1	6	2	5	2	2	-	3	2	3	2	2	3
(78) Other malignant neoplasms of skin	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	1	1	1	-	-	-	1
Malignant neoplasms of mesothelial and soft tissue	-	-	1	-	-	-	1	1	-	-	-	2	4	-	2	1	-	5	2	2	2	2
(79) Mesothelioma	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	-	-	-	-	-	-	2
(81) Of other mesothelial and soft tissue	-	-	1	-	-	-	1	1	-	-	-	2	1	-	1	1	-	5	2	2	-	2
(82) Malignant neoplasm of breast	-	1	-	2	-	10	-	11	-	12	-	14	1	20	-	6	-	15	-	10	1	32
Malignant neoplasms of female genital organs	-	-	-	2	-	1	-	7	-	16	-	10	-	16	-	15	-	7	-	8	-	14
(83) Of vulva and vagina	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	2
(84) Of cervix uteri	-	-	-	-	-	-	-	1	-	1	-	-	-	3	-	-	-	-	-	-	-	-
(85) Of corpus uteri and uterus, part unspecified	-	-	-	1	-	-	-	2	-	3	-	3	-	1	-	4	-	2	-	3	-	5
(86) Of ovary	-	-	-	1	-	1	-	3	-	12	-	7	-	10	-	10	-	4	-	5	-	7
(87) Of other and unspecified female genital organs	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Malignant neoplasms of male genital organs	-	-	1	-	-	-	2	-	4	-	6	-	6	-	14	-	17	-	26	-	30	-
(89) Of prostate	-	-	-	-	-	-	2	-	4	-	6	-	6	-	13	-	17	-	26	-	30	-
(90) Of testis	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Malignant neoplasms of urinary tract	1	-	-	-	-	1	1	-	5	1	8	2	10	1	8	2	11	3	13	5	14	9
(92) Of kidney and renal pelvis	1	-	-	-	-	1	1	-	4	1	3	2	4	1	4	1	2	1	1	2	2	3
(93) Of bladder	-	-	-	-	-	-	-	-	1	-	4	-	5	-	4	1	8	1	12	3	12	6
(94) Of other and unspecified sites within the urinary tract	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
(95) Malignant neoplasm of eye and adnexa	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Malignant neoplasms of meninges, brain and other parts of central nervous system	1	-	2	-	2	3	4	3	1	7	3	3	3	5	1	7	3	1	3	1	2	2
(96) Of brain	1	-	2	-	2	3	4	3	1	7	3	3	3	5	1	7	3	1	3	1	2	2
(98) Malignant neoplasms of thyroid and other endocrine glands	-	-	-	-	1	-	-	-	1	1	-	1	3	-	-	-	2	-	-	-	1	1
(99) Other malignant neoplasms of other and unspecified sites	1	-	-	-	2	-	3	4	4	4	6	2	9	8	11	12	6	10	14	11	17	24
Malignant neoplasms of lymphoid, hematopoietic and related tissue	-	-	2	-	-	-	4	2	3	2	10	7	12	9	21	11	17	-	12	16	27	20
(100) Hodgkin 's disease	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-
Of other lymphoid, hematopoietic and related tissue	-	-	-	-	-	-	2	1	2	-	3	1	4	1	10	6	7	-	4	3	9	9
(101) Non-Hodgkin 's lymphoma	-	-	-	-	-	-	2	1	2	-	3	1	4	1	10	6	7	-	4	3	9	9
(104) Multiple myeloma and malignant plasma cell neoplasms	-	-	-	-	-	-	2	-	-	2	1	2	3	5	5	1	1	-	5	5	6	3
Leukemia	-	-	1	-	-	-	-	1	1	-	6	3	5	3	6	4	7	-	3	8	12	8
(105) Lymphoid leukemia	-	-	-	-	-	-	-	-	1	-	2	1	-	-	1	-	1	-	2	3	2	2
(106) Myeloid leukemia	-	-	-	-	-	-	-	1	-	-	4	-	5	2	4	3	5	-	2	6	3	3
(108) Other and unspecified leukemia	-	-	1	-	-	-	-	-	-	-	2	-	1	1	1	1	-	3	4	3	3	3
Benign neoplasms	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
(112) Of eye, brain and other parts of central nervous system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
(114) Neoplasms of uncertain or unknown behavior of specified sites	-	-	-	-	-	-	-	1	2	-	3	2	1	1	2	-	2	7	1	4	9	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, 2011**

Cause Of Death*	All Ages			Age In Years																			
				0 YR.		1 YR.		2-4		5-9		10-14		15-17		18-19		20-24		25-29		30-34	
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.		
(115) Neoplasm of uncertain or unknown behavior of unspecified sites	6	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
III. Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	29	14	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
Anemias	13	4	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(116) Nutritional anemias	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(117) Hemolytic anemias	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(118) Aplastic anemias	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(119) Acute posthemorrhagic and other anemias	9	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(120) Coagulation defects, purpura and other hemorrhagic conditions	8	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(121) Other diseases of blood and blood-forming organs	5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
(122) Certain disorders involving the immune mechanism	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IV. Endocrine, nutritional and metabolic diseases	361	189	172	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	5	2
Endocrine diseases	251	130	121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1
(123) Disorders of thyroid gland	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(124) Diabetes mellitus	246	129	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1
(126) Disorders of adrenal glands	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutritional diseases	39	18	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-
Malnutrition	13	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(130) Other and unspecified malnutrition	13	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(131) Other nutritional deficiencies	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(132) Obesity and other hyperalimentation	24	16	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-
Metabolic disorders	71	41	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(133) Cystic fibrosis	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(134) Volume depletion, disorders of fluid, electrolyte and acid-base balance	16	6	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(135) Other metabolic disorders	53	34	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V. Mental and behavioral disorders	628	216	412	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(136) Organic dementia	558	166	392	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(137) Other and unspecified organic mental disorders	7	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mental and behavioral disorders due to psychoactive substance use	55	44	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(138) Mental and behavioral disorders due to use of alcohol	46	37	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(139) Mental and behavioral disorders due to other psychoactive substance use	9	7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(141) Mood (affective) disorders	5	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(142) Neurotic, stress-related and somatoform disorders	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(144) Other and unspecified mental and behavioral disorders	2	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VI. Diseases of the nervous system	502	232	270	-	1	1	-	-	-	1	1	1	-	1	-	1	-	2	1	-	-	1	-
(145) Meningitis	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
(146) Other inflammatory diseases of central nervous system	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(147) Parkinson's disease	78	52	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(148) Alzheimer's disease	258	88	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(149) Multiple sclerosis	27	9	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(150) Epilepsy	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, 2011**

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.
(115) Neoplasm of uncertain or unknown behavior of unspecified sites	-	-	-	-	1	1	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	1
III. Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	1	-	-	-	-	1	-	1	-	1	2	2	2	1	-	1	1	2	3	2	4	4
Anemias	-	-	-	-	-	1	-	-	-	-	1	1	-	1	-	-	-	1	2	2	1	3
(116) Nutritional anemias	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
(117) Hemolytic anemias	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(118) Aplastic anemias	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
(119) Acute posthemorrhagic and other anemias	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	1	1	2	1	2
(120) Coagulation defects, purpura and other hemorrhagic conditions	1	-	-	-	-	-	-	1	-	1	1	-	2	-	-	-	-	1	-	-	1	-
(121) Other diseases of blood and blood-forming organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1
(122) Certain disorders involving the immune mechanism	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	-	-	-
IV. Endocrine, nutritional and metabolic diseases	5	-	3	-	8	4	14	10	12	10	23	12	18	15	15	14	26	25	22	13	36	67
Endocrine diseases	5	-	2	-	6	2	9	7	8	8	14	6	12	13	9	11	23	20	15	9	24	44
(123) Disorders of thyroid gland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1
(124) Diabetes mellitus	5	-	2	-	6	2	9	7	8	8	14	6	12	11	9	11	22	19	15	9	24	43
(126) Disorders of adrenal glands	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
Nutritional diseases	-	-	-	-	2	1	2	3	2	1	2	5	2	1	2	1	-	2	1	-	1	7
Malnutrition	-	-	-	-	-	-	-	-	1	-	3	-	1	-	1	-	1	-	-	-	-	6
(130) Other and unspecified malnutrition	-	-	-	-	-	-	-	-	1	-	3	-	1	-	1	-	1	-	-	-	-	6
(131) Other nutritional deficiencies	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
(132) Obesity and other hyperalimentation	-	-	-	-	2	1	2	3	2	-	2	2	1	-	2	-	1	1	-	-	-	1
Metabolic disorders	-	-	1	-	-	1	3	-	2	1	7	1	4	1	4	2	3	3	6	4	11	16
(133) Cystic fibrosis	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(134) Volume depletion, disorders of fluid, electrolyte and acid-base balance	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1	2	1	3	7
(135) Other metabolic disorders	-	-	-	-	-	-	3	-	2	1	7	1	4	1	3	2	3	2	4	3	8	9
V. Mental and behavioral disorders	4	-	4	-	9	3	7	2	6	4	8	3	9	2	8	12	16	19	37	48	106	319
(136) Organic dementia	-	-	1	-	-	-	1	-	-	-	1	1	5	2	7	12	13	17	37	46	101	314
(137) Other and unspecified organic mental disorders	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	2	-	-	-	1	2
Mental and behavioral disorders due to psychoactive substance use	4	-	3	-	9	2	6	2	6	3	7	2	4	-	-	-	1	1	-	1	3	-
(138) Mental and behavioral disorders due to use of alcohol	3	-	2	-	8	2	6	2	6	2	6	2	4	-	-	-	1	1	-	-	1	-
(139) Mental and behavioral disorders due to other psychoactive substance use	1	-	1	-	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	1	2	-
(141) Mood (affective) disorders	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2
(142) Neurotic, stress-related and somatoform disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(144) Other and unspecified mental and behavioral disorders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
VI. Diseases of the nervous system	4	2	1	1	1	1	8	7	12	11	12	8	20	15	22	14	23	24	36	39	85	145
(145) Meningitis	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(146) Other inflammatory diseases of central nervous system	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(147) Parkinson 's disease	-	-	-	-	-	-	-	-	-	-	1	-	2	1	6	1	11	3	14	6	18	15
(148) Alzheimer 's disease	-	-	-	-	-	-	-	-	-	-	-	1	3	2	5	6	6	14	14	28	60	119
(149) Multiple sclerosis	-	-	-	-	-	1	1	2	2	3	1	1	3	4	-	2	1	1	1	2	-	2
(150) Epilepsy	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

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Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2011**

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.	
(151) Transient cerebral ischemic attacks and related syndromes	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(152) Infantile cerebral palsy	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
(153) All other diseases of nervous system	131	79	52	-	1	1	-	-	-	1	1	1	-	1	-	1	-	-	-	-	-	1
(155) VIII. Diseases of the ear and mastoid process	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IX. Diseases of the circulatory system	2,531	1,326	1,205	-	1	1	-	-	1	-	-	-	-	-	-	-	1	-	3	1	4	2
Acute rheumatic fever and chronic rheumatic heart diseases	15	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chronic rheumatic heart diseases	15	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(157) Rheumatic mitral valve diseases	8	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(159) Disorders of both mitral and aortic valves	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(160) Other chronic rheumatic heart diseases	4	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hypertensive diseases	125	49	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(161) Essential (primary) hypertension	42	12	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(162) Hypertensive heart disease	65	29	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(163) Hypertensive renal disease and secondary hypertension	15	6	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(164) Hypertensive heart and renal disease	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ischemic heart diseases	1,079	690	389	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3
(165) Acute myocardial infarction	256	161	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(166) Other acute ischemic heart diseases	15	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other forms of chronic ischemic heart disease	808	522	286	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2
(167) Atherosclerotic cardiovascular disease, so described	358	253	105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(168) All other forms of chronic ischemic heart disease	450	269	181	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Other heart diseases	745	341	404	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	2
Pulmonary heart disease and diseases of pulmonary circulation	63	20	43	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(169) Pulmonary embolism	26	7	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(170) Other pulmonary heart disease and diseases of pulmonary circulation	37	13	24	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other non-pulmonary forms of heart disease	682	321	361	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2
(171) Acute and subacute endocarditis	5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(172) Diseases of pericardium and acute myocarditis	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other diseases of endocardium	125	51	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(173) Nonrheumatic mitral valve disorders	9	2	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(174) Nonrheumatic aortic valve disorders	94	43	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(175) All other diseases of endocardium	22	6	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(176) Cardiomyopathy	42	27	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
(177) Conduction disorders and cardiac dysrhythmias	166	78	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Heart failure	307	146	161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(178) Congestive heart failure	279	132	147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(179) Other and unspecified heart failure	28	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(180) Myocarditis, unspecified and myocardial degeneration	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(181) All other and ill-defined forms of heart disease	35	15	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cerebrovascular diseases	451	186	265	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-
(182) Subarachnoid hemorrhage	15	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(183) Intracerebral and other intracranial hemorrhage	76	29	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(184) Cerebral infarction	27	11	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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, 2011**

Cause Of Death*	Age In Years																					
	35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
(151) Transient cerebral ischemic attacks and related syndromes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(152) Infantile cerebral palsy	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(153) All other diseases of nervous system	4	2	1	1	1	-	7	4	8	7	10	6	12	8	11	5	5	6	7	3	7	8
(155) VIII. Diseases of the ear and mastoid process	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
IX. Diseases of the circulatory system	2	5	15	7	32	19	60	24	84	28	101	56	115	58	125	78	173	125	203	190	407	610
Acute rheumatic fever and chronic rheumatic heart diseases	-	-	-	1	1	-	-	-	-	-	-	1	-	1	1	1	2	1	-	4	1	1
Chronic rheumatic heart diseases	-	-	-	1	1	-	-	-	-	-	-	1	-	1	1	2	1	-	4	1	1	1
(157) Rheumatic mitral valve diseases	-	-	-	1	1	-	-	-	-	-	-	-	-	1	-	-	1	1	-	1	1	1
(159) Disorders of both mitral and aortic valves	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-
(160) Other chronic rheumatic heart diseases	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	1	-	-
Hypertensive diseases	1	-	2	-	4	1	4	2	4	2	6	5	5	2	4	5	5	4	4	11	10	44
(161) Essential (primary) hypertension	-	-	-	-	-	-	-	1	2	1	2	1	1	1	1	1	1	-	3	4	2	21
(162) Hypertensive heart disease	1	-	2	-	4	1	4	1	2	1	3	4	4	1	2	2	3	3	1	4	3	19
(163) Hypertensive renal disease and secondary hypertension	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2	1	1	-	3	3	3
(164) Hypertensive heart and renal disease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1
Ischemic heart diseases	-	1	8	2	18	6	43	14	56	20	65	24	77	25	73	33	87	51	98	64	162	148
(165) Acute myocardial infarction	-	-	4	-	6	3	13	3	16	4	16	9	16	6	18	6	19	15	21	16	31	33
(166) Other acute ischemic heart diseases	-	-	-	-	1	-	-	-	1	1	1	2	-	-	-	2	2	-	-	1	2	2
Other forms of chronic ischemic heart disease	-	1	4	2	11	3	30	11	39	15	48	13	61	19	55	25	66	36	77	47	129	113
(167) Atherosclerotic cardiovascular disease, so described	-	1	3	-	4	3	19	6	29	11	34	5	42	9	28	16	30	14	30	14	33	26
(168) All other forms of chronic ischemic heart disease	-	-	1	2	7	-	11	5	10	4	14	8	19	10	27	9	36	22	47	33	96	87
Other heart diseases	1	2	3	1	8	7	11	5	13	5	19	12	13	16	29	23	32	35	63	58	146	237
Pulmonary heart disease and diseases of pulmonary circulation	-	-	-	-	2	2	-	2	3	1	1	2	1	4	-	6	5	5	4	7	3	13
(169) Pulmonary embolism	-	-	-	-	1	-	-	-	1	-	1	1	1	3	-	4	1	2	-	1	2	7
(170) Other pulmonary heart disease and diseases of pulmonary circulation	-	-	-	-	1	2	-	2	2	1	-	1	-	1	-	2	4	3	4	6	1	6
Other non-pulmonary forms of heart disease	1	2	3	1	6	5	11	3	10	4	18	10	12	12	29	17	27	30	59	51	143	224
(171) Acute and subacute endocarditis	-	-	-	-	-	1	1	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-
(172) Diseases of pericardium and acute myocarditis	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other diseases of endocardium	-	-	2	-	-	1	-	-	1	1	4	2	3	2	5	3	2	4	8	13	25	48
(173) Nonrheumatic mitral valve disorders	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	1	1	1	1	2
(174) Nonrheumatic aortic valve disorders	-	-	2	-	-	-	-	-	1	-	3	2	2	-	5	-	2	1	7	9	20	39
(175) All other diseases of endocardium	-	-	-	-	-	-	-	-	-	1	1	-	1	2	-	1	-	2	-	3	4	7
(176) Cardiomyopathy	1	-	-	-	1	-	1	1	1	-	3	1	-	2	3	1	2	5	7	2	7	2
(177) Conduction disorders and cardiac dysrhythmias	-	1	1	-	3	1	5	1	5	2	5	2	6	3	12	7	8	6	9	15	24	49
Heart failure	-	-	-	-	1	2	1	1	1	5	3	3	5	7	4	12	12	31	16	85	118	
(178) Congestive heart failure	-	-	-	-	1	2	1	1	-	3	2	2	3	6	4	11	12	27	14	80	110	
(179) Other and unspecified heart failure	-	-	-	-	-	-	-	-	1	2	1	1	2	1	-	1	-	4	2	5	8	
(180) Myocarditis, unspecified and myocardial degeneration	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(181) All other and ill-defined forms of heart disease	-	1	-	-	2	-	2	-	2	-	1	2	-	-	1	2	3	3	5	2	7	
Cerebrovascular diseases	-	1	-	3	1	3	2	2	6	-	8	9	16	10	15	11	36	30	30	43	69	152
(182) Subarachnoid hemorrhage	-	-	-	1	-	1	-	1	1	-	1	1	1	1	1	-	1	-	-	2	1	1
(183) Intracerebral and other intracranial hemorrhage	-	1	-	1	1	2	1	1	2	-	1	1	4	3	3	4	5	6	6	14	6	14
(184) Cerebral infarction	-	-	-	1	-	-	-	-	2	-	-	-	-	-	3	1	1	4	4	1	2	3

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Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2011**

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.		
(185) Stroke, not specified as hemorrhage or infarction	254	108	146	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(186) Other cerebrovascular diseases and their sequelae	79	31	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Diseases of arteries, arterioles and capillaries	101	50	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(187) Atherosclerosis	17	9	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(188) Aortic aneurysm and dissection	48	24	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(189) Other diseases of arteries, arterioles and capillaries	36	17	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other disorders of circulatory system	15	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(190) Phlebitis, thrombophlebitis, venous embolism and thrombosis	7	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(191) All other and unspecified disorders of circulatory system	8	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X. Diseases of the respiratory system	1,008	508	500	1	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-
Other diseases of the respiratory system	1,008	508	500	1	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-
(195) Influenza	6	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pneumonia	149	76	73	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
(197) Bacterial pneumonia	5	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(198) Pneumonia due to other or unspecified organisms	144	75	69	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Other acute lower respiratory infections	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(199) Acute bronchitis and bronchiolitis	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(201) Other diseases of upper respiratory tract	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chronic lower respiratory diseases	638	317	321	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Bronchitis, chronic and unspecified, emphysema and asthma	635	316	319	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
(202) Bronchitis, not specified as acute or chronic	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(204) Emphysema	35	16	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(205) Other chronic obstructive pulmonary disease	588	298	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(206) Asthma	11	2	9	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
(207) Bronchiectasis	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lung diseases due to external agents	74	35	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(208) Pneumoconioses and chemical effects	8	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pneumonitis due to solids and liquids	66	31	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(209) Pneumonitis due to food and vomit	66	31	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(212) Suppurative and necrotic conditions of lower respiratory tract	5	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(213) Pleural effusion and plaque	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(214) All other diseases of respiratory system	133	74	59	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
XI. Diseases of the digestive system	344	189	155	1	-	-	-	-	-	-	1	-	-	-	-	-	2	-	3	-	3	1	-
Diseases of other parts of digestive system	344	189	155	1	-	-	-	-	-	-	1	-	-	-	-	-	2	-	3	-	3	1	-
(216) Diseases of esophagus	8	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peptic ulcer	5	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(217) Gastric ulcer	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(218) Duodenal ulcer	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(219) Peptic ulcer, site unspecified	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(222) Dyspepsia and other diseases of stomach and duodenum	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(223) Diseases of appendix	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(224) Hernia	5	2	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(225) Crohn's disease and ulcerative colitis	5	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2011**

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.
(185) Stroke, not specified as hemorrhage or infarction	-	-	-	-	-	-	1	-	1	-	5	4	7	2	6	5	23	10	16	23	48	101
(186) Other cerebrovascular diseases and their sequelae	-	-	-	-	-	-	-	-	-	-	1	3	4	1	4	1	3	10	7	2	11	31
Diseases of arteries, arterioles and capillaries	-	-	2	-	1	-	1	5	1	3	4	2	2	3	5	10	3	8	8	17	26	
(187) Atherosclerosis	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	3	-	1	-	3	8	
(188) Aortic aneurysm and dissection	-	-	2	-	-	-	1	2	1	1	4	1	1	2	3	3	2	6	5	7	7	
(189) Other diseases of arteries, arterioles and capillaries	-	-	-	-	1	-	-	1	-	2	-	1	1	1	2	4	1	1	3	7	11	
Other disorders of circulatory system	-	1	-	-	-	1	-	-	-	-	1	2	2	-	-	1	1	-	2	2	2	
(190) Phlebitis, thrombophlebitis, venous embolism and thrombosis	-	1	-	-	-	1	-	-	-	-	-	2	-	-	-	1	1	-	-	-	1	
(191) All other and unspecified disorders of circulatory system	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	2	2	1	
X. Diseases of the respiratory system	1	-	1	3	1	5	10	11	12	15	30	24	51	34	70	40	94	64	88	94	147	208
Other diseases of the respiratory system	1	-	1	3	1	5	10	11	12	15	30	24	51	34	70	40	94	64	88	94	147	208
(195) Influenza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	3	
Pneumonia	-	-	-	3	-	2	3	4	4	1	4	1	6	2	5	1	10	6	15	6	28	47
(197) Bacterial pneumonia	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	2	
(198) Pneumonia due to other or unspecified organisms	-	-	-	2	-	2	2	3	4	1	4	1	6	2	5	1	10	6	15	6	28	45
Other acute lower respiratory infections	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
(199) Acute bronchitis and bronchiolitis	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
(201) Other diseases of upper respiratory tract	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Chronic lower respiratory diseases	1	-	-	-	1	3	5	6	6	11	20	13	37	22	49	28	67	49	52	73	79	115
Bronchitis, chronic and unspecified, emphysema and asthma	1	-	-	-	1	3	5	6	6	11	20	13	37	22	49	28	67	49	51	73	79	113
(202) Bronchitis, not specified as acute or chronic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(204) Emphysema	-	-	-	-	-	1	-	-	-	-	2	2	-	3	5	2	3	3	5	4	1	4
(205) Other chronic obstructive pulmonary disease	1	-	-	-	1	1	5	4	6	10	18	11	37	19	44	25	63	46	46	69	77	105
(206) Asthma	-	-	-	-	-	1	-	2	-	1	-	-	-	-	-	1	1	-	-	-	1	3
(207) Bronchiectasis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2
Lung diseases due to external agents	-	-	-	-	-	-	-	-	1	-	1	3	1	3	4	5	5	1	6	4	17	23
(208) Pneumoconioses and chemical effects	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	-	1	1	1	1
Pneumonitis due to solids and liquids	-	-	-	-	-	-	-	-	1	-	1	3	1	3	3	3	4	1	5	3	16	22
(209) Pneumonitis due to food and vomit	-	-	-	-	-	-	-	-	1	-	1	3	1	3	3	3	4	1	5	3	16	22
(212) Suppurative and necrotic conditions of lower respiratory tract	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1	2
(213) Pleural effusion and plaque	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
(214) All other diseases of respiratory system	-	-	1	-	-	-	2	1	-	3	5	4	7	7	11	6	11	8	14	11	21	18
XI. Diseases of the digestive system	2	1	5	7	12	11	28	11	20	8	22	16	20	14	17	7	16	14	12	17	26	47
Diseases of other parts of digestive system	2	1	5	7	12	11	28	11	20	8	22	16	20	14	17	7	16	14	12	17	26	47
(216) Diseases of esophagus	-	-	-	-	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	2	3
Peptic ulcer	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	1	1	-	-	1	-
(217) Gastric ulcer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(218) Duodenal ulcer	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
(219) Peptic ulcer, site unspecified	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-
(222) Dyspepsia and other diseases of stomach and duodenum	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1
(223) Diseases of appendix	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(224) Hernia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3
(225) Crohn 's disease and ulcerative colitis	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	2	1	-

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

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2011**

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.	
(226) Vascular disorders and obstruction of intestine without hernia	60	24	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(227) Diverticular disease of intestine	10	3	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(228) Other diseases of intestines and peritoneum	13	5	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(229) Diseases of peritoneum	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diseases of liver	167	107	60	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	3	-	3	1
(230) Alcoholic liver disease	82	62	20	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	1	1
(232) Fibrosis and cirrhosis of liver	44	24	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(233) Other diseases of liver	41	21	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
(234) Cholelithiasis and other disorders of gallbladder	14	9	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disorders of biliary tract and pancreas	11	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(235) Pancreatitis	5	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(236) Other disorders of biliary tract and pancreas	6	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(237) All other diseases of digestive system	39	22	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XII. Diseases of the skin and subcutaneous tissue	14	3	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(238) Infections of skin and subcutaneous tissue	8	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(239) Other and unspecified diseases of skin and subcutaneous tissue	6	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XIII. Diseases of the musculoskeletal system and connective tissue	71	20	51	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
(240) Rheumatoid arthritis and related inflammatory polyarthropathies	13	1	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(241) Systemic lupus erythematosus	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(242) Other arthropathies and related disorders	16	6	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
(243) Dorsopathies	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(244) Soft tissue disorders	11	6	5	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue	24	5	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(245) Osteoporosis	18	2	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(246) Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue	6	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XIV. Diseases of the genitourinary system	135	55	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diseases of urinary system	129	49	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glomerular and renal tubulo-interstitial diseases	10	3	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glomerular diseases	7	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(249) Other and unspecified glomerular diseases	7	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(250) Renal tubulo-interstitial diseases	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(251) Renal failure	89	41	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(252) Urolithiasis	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(254) Urinary tract infection, site not specified	21	2	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(255) Other diseases of urinary system	7	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diseases of male genital organs	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(256) Hyperplasia of prostate	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(257) Other diseases of male genital organs	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XV. Pregnancy, childbirth and the puerperium	6	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
Other direct obstetric deaths	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(266) Eclampsia and pre-eclampsia	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, 2011**

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.
(226) Vascular disorders and obstruction of intestine without hernia	-	-	-	-	1	1	1	-	-	2	1	4	3	1	2	-	5	5	5	5	6	17
(227) Diverticular disease of intestine	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	3	2	3	3
(228) Other diseases of intestines and peritoneum	-	-	-	-	-	-	-	-	-	-	1	1	2	1	-	1	1	1	-	1	4	4
(229) Diseases of peritoneum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	1
Diseases of liver	2	1	4	7	9	10	22	10	18	3	13	9	14	7	9	5	3	2	3	3	2	2
(230) Alcoholic liver disease	2	1	2	2	7	5	16	5	6	1	8	3	7	1	6	-	2	1	1	-	-	-
(232) Fibrosis and cirrhosis of liver	-	-	1	3	-	4	4	2	7	2	3	2	4	3	1	3	1	-	1	1	1	-
(233) Other diseases of liver	-	-	1	2	2	1	2	3	5	-	2	4	3	3	2	2	-	1	1	2	1	2
(234) Cholelithiasis and other disorders of gallbladder	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	1	2	1	-	1	4	1
Disorders of biliary tract and pancreas	-	-	-	-	-	-	1	1	1	1	-	1	-	-	-	-	1	1	2	-	2	-
(235) Pancreatitis	-	-	-	-	-	-	1	-	1	1	-	1	-	-	-	-	1	-	-	-	-	-
(236) Other disorders of biliary tract and pancreas	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	2	-	2	-
(237) All other diseases of digestive system	-	-	1	-	1	-	3	-	1	-	5	1	1	-	3	-	2	2	1	2	4	12
XII. Diseases of the skin and subcutaneous tissue	-	-	-	-	1	-	-	1	-	1	-	-	-	1	-	1	1	2	1	1	-	4
(238) Infections of skin and subcutaneous tissue	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	1	-	2	1	-	-	2
(239) Other and unspecified diseases of skin and subcutaneous tissue	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	1	-	2	2
XIII. Diseases of the musculoskeletal system and connective tissue	-	-	-	-	1	-	3	1	1	-	-	-	1	2	5	3	9	6	12	7	18	18
(240) Rheumatoid arthritis and related inflammatory polyarthropathies	-	-	-	-	-	-	1	-	1	-	-	-	1	-	1	1	2	-	3	-	3	3
(241) Systemic lupus erythematosus	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-
(242) Other arthropathies and related disorders	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	1	3	2	1	2	3	3
(243) Dorsopathies	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	1
(244) Soft tissue disorders	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	1	-	2	1	1	1	1
Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	5	3	10	10
(245) Osteoporosis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	5	2	7	7
(246) Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	3	3
XIV. Diseases of the genitourinary system	1	1	3	-	-	-	1	1	-	3	-	3	2	7	4	11	9	8	9	9	26	37
Diseases of urinary system	1	1	3	-	-	-	1	1	-	3	-	3	2	7	4	11	8	8	8	9	22	37
Glomerular and renal tubulo-interstitial diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	2	5	5
Glomerular diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	1	3	3
(249) Other and unspecified glomerular diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	1	3	3
(250) Renal tubulo-interstitial diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
(251) Renal failure	1	1	3	-	-	-	1	-	1	-	1	2	5	3	10	7	5	7	7	17	18	18
(252) Urolithiasis	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
(254) Urinary tract infection, site not specified	-	-	-	-	-	-	1	-	1	-	1	-	1	-	-	-	1	1	1	1	1	13
(255) Other diseases of urinary system	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	2	-	-	2	1	1
Diseases of male genital organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	4	-	-
(256) Hyperplasia of prostate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	3	-	-
(257) Other diseases of male genital organs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
XV. Pregnancy, childbirth and the puerperium	-	1	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other direct obstetric deaths	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(266) Eclampsia and pre-eclampsia	-	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, 2011**

Cause Of Death*	All Ages			Age In Years																			
				0 YR.		1 YR.		2-4		5-9		10-14		15-17		18-19		20-24		25-29		30-34	
	Both	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.		
Complications predominantly related to the puerperium	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(269) Other complications predominantly related to the puerperium	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(272) Other deaths related to pregnancy, childbirth and the puerperium	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(273) Indirect obstetric deaths	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVI. Certain conditions originating in the perinatal period	25	14	11	14	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(274) Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	5	3	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(275) Disorders related to short gestation and low birth weight, not elsewhere classified	7	5	2	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(277) Intrauterine hypoxia and birth asphyxia	2	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(278) Respiratory distress of newborn	3	1	2	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(279) Other respiratory conditions originating in the perinatal period	3	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(280) Infections specific to the perinatal period	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(281) Other and unspecified conditions originating in the perinatal period	4	-	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVII. Congenital malformations, deformations and chromosomal abnormalities	41	25	16	15	6	-	2	-	-	2	-	-	-	-	1	-	-	-	-	-	-	1	-
(284) All other congenital malformations of nervous system	6	5	1	2	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
(285) Congenital malformations of heart	10	8	2	5	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
(286) Other congenital malformations of circulatory system	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(287) Congenital malformations of respiratory system	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(288) Other congenital malformations and deformations	8	4	4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(289) Down 's syndrome	6	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(290) All other chromosomal abnormalities, not elsewhere classified	9	4	5	3	3	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
XVIII. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	238	97	141	9	6	1	2	-	1	1	-	-	-	-	1	-	1	3	1	3	2	2	-
(291) Senility	47	15	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ill-defined and unknown causes of mortality	71	36	35	9	6	1	2	-	-	1	-	-	-	-	-	-	1	1	1	2	1	1	-
(292) Sudden infant death syndrome	12	6	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(293) Other ill-defined and unknown causes of mortality	59	30	29	3	-	1	2	-	-	1	-	-	-	-	-	-	1	1	1	2	1	1	-
(294) All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	120	46	74	-	-	-	-	-	1	-	-	-	-	-	1	-	-	2	-	1	1	1	-
XX. External causes of mortality	872	572	300	-	2	2	1	4	-	5	-	6	3	10	5	14	5	48	13	40	18	45	7
Accidents (unintentional injuries)	577	363	214	-	2	2	-	4	-	5	-	5	3	6	3	8	4	30	10	24	9	26	5
Transport accidents	216	148	68	-	-	1	-	1	-	5	-	1	3	3	2	8	4	17	7	14	5	12	4
(295) Railway accidents	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Motor vehicle accidents	194	127	67	-	-	1	-	1	-	5	-	1	3	3	2	7	4	17	7	14	5	11	4
(296) Pedestrian involved in collision with motor vehicle	12	8	4	-	-	-	-	1	-	-	-	-	1	-	-	-	2	1	1	-	2	-	-
(297) Pedalcyclist involved in collision with motor vehicle	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(298) Motorcyclist involved in any accident except collision with railway train	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	3	-
Motor vehicle accident involving collision with railway train	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(300) Other motor vehicle accident involving collision with railway train	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-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2011**

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.
Complications predominantly related to the puerperium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(269) Other complications predominantly related to the puerperium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(272) Other deaths related to pregnancy, childbirth and the puerperium	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(273) Indirect obstetric deaths	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVI. Certain conditions originating in the perinatal period	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(274) Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(275) Disorders related to short gestation and low birth weight, not elsewhere classified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(277) Intrauterine hypoxia and birth asphyxia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(278) Respiratory distress of newborn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(279) Other respiratory conditions originating in the perinatal period	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(280) Infections specific to the perinatal period	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(281) Other and unspecified conditions originating in the perinatal period	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVII. Congenital malformations, deformations and chromosomal abnormalities	-	1	1	-	-	-	2	1	2	2	-	-	-	1	-	1	-	-	-	1	1	1
(284) All other congenital malformations of nervous system	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(285) Congenital malformations of heart	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(286) Other congenital malformations of circulatory system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(287) Congenital malformations of respiratory system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(288) Other congenital malformations and deformations	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	1
(289) Down 's syndrome	-	-	-	-	-	-	1	1	1	1	-	-	-	1	-	1	-	-	-	-	-	-
(290) All other chromosomal abnormalities, not elsewhere classified	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVIII. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	-	-	1	-	1	6	4	1	5	2	1	1	3	3	3	1	10	8	6	14	44	91
(291) Senility	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	15	30
III-defined and unknown causes of mortality	-	-	1	-	1	6	2	-	3	2	-	-	2	-	3	1	4	2	-	3	5	10
(292) Sudden infant death syndrome	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(293) Other ill-defined and unknown causes of mortality	-	-	1	-	1	6	2	-	3	2	-	-	2	-	3	1	4	2	-	3	5	10
(294)All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	-	-	-	-	-	-	2	1	2	-	1	1	1	3	-	-	6	6	6	9	24	51
XX. External causes of mortality	25	15	42	25	45	26	52	21	47	18	36	14	25	10	27	13	14	5	29	21	56	78
Accidents (unintentional injuries)	15	9	22	15	24	11	27	11	27	10	21	8	15	5	22	10	12	5	20	19	48	75
Transport accidents	9	3	9	6	11	6	12	5	12	4	11	3	5	3	9	2	3	1	2	5	3	5
(295) Railway accidents	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Motor vehicle accidents	5	3	8	6	10	6	10	5	10	4	7	3	2	2	7	2	3	1	2	5	3	5
(296) Pedestrian involved in collision with motor vehicle	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-
(297) Pedalcyclist involved in collision with motor vehicle	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(298) Motorcyclist involved in any accident except collision with railway train	-	-	-	-	2	-	-	-	2	-	1	-	1	-	-	-	-	-	-	-	-	-
Motor vehicle accident involving collision with railway train	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(300) Other motor vehicle accident involving collision with railway train	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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, 2011**

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.		
(301) Occupant of motor vehicle involved in collision with other (non-motorized) road vehicle, streetcar, animal or pedestrian	25	15	10	-	-	-	-	-	-	-	-	-	-	1	1	-	2	2	-	1	1	-	1
(302) Occupant of car, pickup truck or van involved in collision with other motor vehicle	50	25	25	-	-	-	-	-	-	2	-	1	1	-	-	1	2	3	4	5	2	-	-
(303) Occupant of heavy transport vehicle or bus involved in collision with other motor vehicle	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(304) Occupant of motor vehicle involved in noncollision accident	50	36	14	-	-	-	-	-	-	-	-	-	-	1	-	3	-	4	-	4	2	5	2
(305) Occupant of special-use motor vehicle involved in any accident	14	10	4	-	-	-	-	-	-	2	-	-	1	-	1	-	-	-	1	-	-	-	-
(306) Other and unspecified motor vehicle accidents	28	20	8	-	-	1	-	-	-	1	-	-	-	1	-	1	-	5	-	3	-	1	1
(308) Other and unspecified land transport accidents	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(309) Water transport accidents	5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(310) Air and space transport accidents	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
(311) Other and unspecified transport accidents and their sequelae	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Falls	118	62	56	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	2
(312) Fall on same level	49	25	24	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-
(313) Fall from one level to another	23	15	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
(314) Unspecified fall	46	22	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(315) Accidental discharge of firearms	4	3	1	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	-	-	-	-
(316) Accidental explosion	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(317) Accidental drowning and submersion	17	13	4	-	1	-	-	1	-	-	-	2	-	-	-	-	-	1	-	3	-	1	-
(318) Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract	21	15	6	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(319) Other accidental and unspecified threats to breathing	8	5	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
(320) Accidental exposure to electric current	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-
(322) Accidental exposure to smoke, fire and flames	14	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-
(324) Lightning	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(325) Earthquake, volcanic eruption, avalanche landslide and other earth movements	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(326) Cataclysmic storm and flood	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accidental poisoning and exposure to noxious substances	98	58	40	-	-	1	-	-	-	-	-	1	-	1	1	-	-	7	2	3	4	7	1
(327) Accidental poisoning by and exposure to drugs and other biological substances	88	48	40	-	-	1	-	-	-	-	-	-	-	1	1	-	-	6	2	3	4	7	1
(328) Accidental poisoning by and exposure to other and unspecified solid or liquid substances	9	9	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-
(329) Accidental poisoning by and exposure to other gases and vapors	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(330) All other and unspecified accidents and their sequelae	71	36	35	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3	-	-	-	1	-
Intentional self-harm (suicide)	225	171	54	-	-	-	-	-	-	-	-	-	-	3	2	6	1	14	2	13	8	17	2
(331) Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances	21	4	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-
(333) Intentional self-poisoning (suicide) by and exposure to other gases and vapors	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
(334) Intentional self-harm (suicide) by hanging, strangulation and suffocation	41	30	11	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	1	1	2	4	1

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Montana Residents, 2011**

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.
(301) Occupant of motor vehicle involved in collision with other (non-motorized) road vehicle, streetcar, animal or pedestrian	1	-	3	1	1	-	2	2	2	-	-	-	-	1	2	-	-	-	-	-	-	1
(302) Occupant of car, pickup truck or van involved in collision with other motor vehicle	3	-	-	2	2	3	4	1	1	2	-	2	1	-	1	-	-	1	1	3	-	2
(303) Occupant of heavy transport vehicle or bus involved in collision with other motor vehicle	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(304) Occupant of motor vehicle involved in noncollision accident	1	1	3	2	4	2	1	1	2	2	4	-	-	1	1	1	1	-	1	-	1	-
(305) Occupant of special-use motor vehicle involved in any accident	-	-	2	-	1	-	1	-	-	-	1	1	-	-	-	-	2	-	-	-	-	1
(306) Other and unspecified motor vehicle accidents	-	1	-	-	-	1	1	1	1	-	1	-	-	-	3	1	-	-	-	1	1	2
(308) Other and unspecified land transport accidents	1	-	-	-	-	-	-	-	1	-	-	-	1	-	1	-	-	-	-	-	-	-
(309) Water transport accidents	2	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-
(310) Air and space transport accidents	1	-	1	-	-	-	1	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-
(311) Other and unspecified transport accidents and their sequelae	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Falls	-	-	-	-	1	-	4	1	3	1	1	2	4	1	5	2	5	1	9	6	26	42
(312) Fall on same level	-	-	-	-	1	-	1	-	1	1	-	2	-	2	-	2	-	2	-	3	3	11
(313) Fall from one level to another	-	-	-	-	-	-	1	-	2	-	1	2	1	1	2	2	2	-	2	-	2	3
(314) Unspecified fall	-	-	-	-	-	-	2	1	-	-	-	-	1	-	1	-	1	1	4	3	13	19
(315) Accidental discharge of firearms	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(316) Accidental explosion	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(317) Accidental drowning and submersion	-	-	-	-	2	-	2	-	1	-	-	-	-	-	-	-	-	-	-	1	-	2
(318) Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1	-	2	1	-	11	2
(319) Other accidental and unspecified threats to breathing	-	-	-	-	-	-	-	1	1	-	1	1	-	-	-	-	-	-	1	-	-	-
(320) Accidental exposure to electric current	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(322) Accidental exposure to smoke, fire and flames	-	-	-	-	2	-	-	-	-	-	1	-	2	-	1	1	-	-	3	-	1	-
(324) Lightning	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(325) Earthquake, volcanic eruption, avalanche landslide and other earth movements	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(326) Cataclysmic storm and flood	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Accidental poisoning and exposure to noxious substances	3	6	9	9	5	4	5	4	7	4	6	1	1	1	1	2	-	-	1	1	-	-
(327) Accidental poisoning by and exposure to drugs and other biological substances	3	6	7	9	4	4	2	4	7	4	5	1	-	1	1	2	-	-	1	1	-	-
(328) Accidental poisoning by and exposure to other and unspecified solid or liquid substances	-	-	2	-	1	-	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
(329) Accidental poisoning by and exposure to other gases and vapors	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(330) All other and unspecified accidents and their sequelae	2	-	2	-	1	1	2	-	2	-	1	1	2	-	5	2	4	1	3	6	7	24
Intentional self-harm (suicide)	7	2	16	7	17	8	20	6	15	6	14	6	9	3	4	1	2	-	9	-	5	-
(331) Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances	-	1	-	2	-	2	1	4	2	2	-	2	-	2	-	-	-	-	-	-	-	-
(333) Intentional self-poisoning (suicide) by and exposure to other gases and vapors	-	-	-	-	2	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
(334) Intentional self-harm (suicide) by hanging, strangulation and suffocation	2	-	4	2	4	1	6	1	3	1	-	1	2	-	-	-	-	-	-	-	-	-

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Montana Residents, 2011**

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.		
(335) Intentional self-harm (suicide) by discharge of firearms	150	125	25	-	-	-	-	-	-	-	-	-	-	3	2	6	-	10	-	11	4	12	1
(337) Intentional self-harm (suicide) by all other and unspecified means and their sequelae	8	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Assault (homicide)	21	14	7	-	-	-	1	-	-	-	-	1	-	-	-	-	-	4	1	-	1	2	-
(339) Assault (homicide) by hanging, strangulation and suffocation	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
(340) Assault (homicide) by discharge of firearms	10	7	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	1	-	1	-	-
(341) Assault (homicide) by sharp object	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
(345) Neglect, abandonment and other maltreatment syndromes	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(346) Assault (homicide) by all other and unspecified means and their sequelae	6	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
Event of undetermined intent	37	18	19	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	3	-	-	-
(347) Poisoning by and exposure to drugs and biological substances, undetermined intent	28	13	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
(352) All other and unspecified events of undetermined intent and their sequelae	9	5	4	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Legal intervention	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(354) Other legal intervention and their sequelae	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Complications of medical and surgical care	11	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(356) Drugs, medicaments and biological substances causing adverse effects in therapeutic use, and their sequelae	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(358) Other complications of medical and surgical care and their sequelae	9	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Table D-1

**Frequency of Death by Sex, Age, and up to 358 Selected Underlying Causes
Montana Residents, 2011**

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.
(335) Intentional self-harm (suicide) by discharge of firearms	5	1	12	3	9	5	10	1	8	3	14	3	7	1	4	1	2	-	8	-	4	-
(337) Intentional self-harm (suicide) by all other and unspecified means and their sequelae	-	-	-	-	2	-	2	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-
Assault (homicide)	1	-	1	-	2	2	2	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-
(339) Assault (homicide) by hanging, strangulation and suffocation	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(340) Assault (homicide) by discharge of firearms	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
(341) Assault (homicide) by sharp object	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
(345) Neglect, abandonment and other maltreatment syndromes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(346) Assault (homicide) by all other and unspecified means and their sequelae	-	-	-	-	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Event of undetermined intent	2	4	3	3	2	5	2	4	3	2	-	-	1	1	1	-	-	-	-	-	-	-
(347) Poisoning by and exposure to drugs and biological substances, undetermined intent	2	2	2	1	2	5	1	4	1	2	-	-	1	1	1	-	-	-	-	-	-	-
(352) All other and unspecified events of undetermined intent and their sequelae	-	2	1	2	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Legal intervention	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(354) Other legal intervention and their sequelae	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Complications of medical and surgical care	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	1	-	-	-	1	3	3
(356) Drugs, medicaments and biological substances causing adverse effects in therapeutic use, and their sequelae	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
(358) Other complications of medical and surgical care and their sequelae	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	-	-	1	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-2

Frequency of Death by Sex, Race*, and up to 113 Selected Underlying Causes and Enterocolitis due to Clostridium difficile
Montana Residents, 2011**

Cause of Death**	Total				Male				Female			
	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other
All Causes	9,005	8,476	496	33	4,632	4,344	269	19	4,373	4,132	227	14
(3) Certain other intestinal infections	24	24	-	-	12	12	-	-	12	12	-	-
(9#) Septicemia	83	77	6	-	34	33	1	-	49	44	5	-
(14#) Viral hepatitis	27	23	4	-	20	18	2	-	7	5	2	-
(15#) Human immunodeficiency virus (HIV) disease	4	2	2	-	3	2	1	-	1	-	1	-
(17) Other and unspecified infectious and parasitic diseases and their sequelae	20	19	1	-	8	7	1	-	12	12	-	-
(#) Malignant neoplasms	1,991	1,900	87	4	1,073	1,036	36	1	918	864	51	3
(18) Malignant neoplasms of lip, oral cavity and pharynx	28	26	2	-	19	17	2	-	9	9	-	-
(19) Malignant neoplasm of esophagus	51	48	3	-	35	34	1	-	16	14	2	-
(20) Malignant neoplasm of stomach	27	26	1	-	11	11	-	-	16	15	1	-
(21) Malignant neoplasms of colon, rectum and anus	160	150	10	-	89	81	8	-	71	69	2	-
(22) Malignant neoplasms of liver and intrahepatic bile ducts	52	49	2	1	37	36	1	-	15	13	1	1
(23) Malignant neoplasm of pancreas	136	133	3	-	77	76	1	-	59	57	2	-
(24) Malignant neoplasm of larynx	15	15	-	-	12	12	-	-	3	3	-	-
(25) Malignant neoplasms of trachea, bronchus and lung	577	550	26	1	324	313	11	-	253	237	15	1
(26) Malignant melanoma of skin	40	39	1	-	27	27	-	-	13	12	1	-
(27) Malignant neoplasm of breast	136	130	6	-	2	2	-	-	134	128	6	-
(28) Malignant neoplasm of cervix uteri	5	5	-	-	-	-	-	-	5	5	-	-
(29) Malignant neoplasms of corpus uteri and uterus, part unspecified	24	23	1	-	-	-	-	-	24	23	1	-
(30) Malignant neoplasm of ovary	60	56	4	-	-	-	-	-	60	56	4	-
(31) Malignant neoplasm of prostate	104	104	-	-	104	104	-	-	-	-	-	-
(32) Malignant neoplasms of kidney and renal pelvis	34	31	3	-	22	21	1	-	12	10	2	-
(33) Malignant neoplasm of bladder	57	56	1	-	46	45	1	-	11	11	-	-
(34) Malignant neoplasms of meninges, brain and other parts of central nervous system	64	60	4	-	31	29	2	-	33	31	2	-
Malignant neoplasms of lymphoid, hematopoietic and related tissue	180	176	4	-	111	109	2	-	69	67	2	-
(35) Hodgkin's disease	4	4	-	-	3	3	-	-	1	1	-	-
(36) Non-Hodgkin's lymphoma	63	62	1	-	42	41	1	-	21	21	-	-
(37) Leukemia	72	70	2	-	43	42	1	-	29	28	1	-
(38) Multiple myeloma and immunoproliferative neoplasms	41	40	1	-	23	23	-	-	18	17	1	-
(40) All other and unspecified malignant neoplasms	241	223	16	2	126	119	6	1	115	104	10	1
(41#) In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	50	47	3	-	22	20	2	-	28	27	1	-
(42#) Anemias	13	13	-	-	4	4	-	-	9	9	-	-
(43#) Diabetes mellitus	246	213	31	2	129	114	13	2	117	99	18	-
(#) Nutritional deficiencies	15	14	1	-	2	2	-	-	13	12	1	-
(44) Malnutrition	13	12	1	-	-	-	-	-	13	12	1	-
(45) Other nutritional deficiencies	2	2	-	-	2	2	-	-	-	-	-	-
(46#) Meningitis	2	2	-	-	1	1	-	-	1	1	-	-
(47#) Parkinson's disease	78	76	2	-	52	51	1	-	26	25	1	-
(48#) Alzheimer's disease	258	254	3	1	88	87	-	1	170	167	3	-
Major cardiovascular diseases	2,516	2,396	110	10	1,321	1,250	65	6	1,195	1,146	45	4
(#) Diseases of heart	1,907	1,808	93	6	1,067	1,005	58	4	840	803	35	2
(49) Acute rheumatic fever and chronic rheumatic heart diseases	15	14	1	-	5	5	-	-	10	9	1	-
(50) Hypertensive heart disease	65	61	3	1	29	26	2	1	36	35	1	-
(51) Hypertensive heart and renal disease	3	3	-	-	2	2	-	-	1	1	-	-
Ischemic heart diseases	1,079	1,016	59	4	690	646	41	3	389	370	18	1
(52) Acute myocardial infarction	256	241	14	1	161	150	10	1	95	91	4	-
(53) Other acute ischemic heart diseases	15	13	2	-	7	6	1	-	8	7	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, 2011**

Cause of Death**	Total				Male				Female			
	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other
Other forms of chronic ischemic heart disease	808	762	43	3	522	490	30	2	286	272	13	1
(54) Atherosclerotic cardiovascular disease, so described	358	337	20	1	253	237	15	1	105	100	5	-
(55) All other forms of chronic ischemic heart disease	450	425	23	2	269	253	15	1	181	172	8	1
Other heart diseases	745	714	30	1	341	326	15	-	404	388	15	1
(56) Acute and subacute endocarditis	5	4	1	-	4	4	-	-	1	-	1	-
(57) Diseases of pericardium and acute myocarditis	1	1	-	-	-	-	-	-	1	1	-	-
(58) Heart failure	307	295	11	1	146	143	3	-	161	152	8	1
(59) All other forms of heart disease	432	414	18	-	191	179	12	-	241	235	6	-
(60#) Essential hypertension and hypertensive renal disease	57	57	-	-	18	18	-	-	39	39	-	-
(61#) Cerebrovascular diseases	451	435	14	2	186	180	6	-	265	255	8	2
(62#) Atherosclerosis	17	17	-	-	9	9	-	-	8	8	-	-
Other diseases of circulatory system	84	79	3	2	41	38	1	2	43	41	2	-
(63#) Aortic aneurysm and dissection	48	45	2	1	24	22	1	1	24	23	1	-
(64) Other diseases of arteries, arterioles and capillaries	36	34	1	1	17	16	-	1	19	18	1	-
(65) Other disorders of circulatory system	15	14	1	-	5	5	-	-	10	9	1	-
(#) Influenza and pneumonia	155	147	8	-	79	76	3	-	76	71	5	-
(66) Influenza	6	5	1	-	3	2	1	-	3	3	-	-
(67) Pneumonia	149	142	7	-	76	74	2	-	73	68	5	-
Other acute lower respiratory infections	1	1	-	-	1	1	-	-	-	-	-	-
(68#) Acute bronchitis and bronchiolitis	1	1	-	-	1	1	-	-	-	-	-	-
(#) Chronic lower respiratory diseases	638	617	21	-	317	307	10	-	321	310	11	-
(70) Bronchitis, chronic and unspecified	1	1	-	-	-	-	-	-	1	1	-	-
(71) Emphysema	35	34	1	-	16	16	-	-	19	18	1	-
(72) Asthma	11	9	2	-	2	2	-	-	9	7	2	-
(73) Other chronic lower respiratory diseases	591	573	18	-	299	289	10	-	292	284	8	-
(74#) Pneumoconioses and chemical effects	8	7	-	1	4	4	-	-	4	3	-	1
(75#) Pneumonitis due to solids and liquids	66	66	-	-	31	31	-	-	35	35	-	-
(76) Other diseases of respiratory system	140	127	13	-	76	69	7	-	64	58	6	-
(77#) Peptic ulcer	5	4	1	-	3	2	1	-	2	2	-	-
(78#) Diseases of appendix	1	1	-	-	1	1	-	-	-	-	-	-
(79#) Hernia	5	5	-	-	2	2	-	-	3	3	-	-
(#) Chronic liver disease and cirrhosis	126	93	33	-	86	62	24	-	40	31	9	-
(80) Alcoholic liver disease	82	57	25	-	62	42	20	-	20	15	5	-
(81) Other chronic liver disease and cirrhosis	44	36	8	-	24	20	4	-	20	16	4	-
(82#) Cholelithiasis and other disorders of gallbladder	14	13	1	-	9	8	1	-	5	5	-	-
(#) Nephritis, nephrotic syndrome and nephrosis	96	88	8	-	43	40	3	-	53	48	5	-
(84) Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified	7	7	-	-	2	2	-	-	5	5	-	-
(85) Renal failure	89	81	8	-	41	38	3	-	48	43	5	-
(87#) Infections of kidney	2	2	-	-	-	-	-	-	2	2	-	-
(88#) Hyperplasia of prostate	5	5	-	-	5	5	-	-	-	-	-	-
(#) Pregnancy, childbirth and the puerperium	6	6	-	-	-	-	-	-	6	6	-	-
(91) Other complications of pregnancy childbirth and the puerperium	6	6	-	-	-	-	-	-	6	6	-	-
(92#) Certain conditions originating in the perinatal period	25	19	6	-	14	8	6	-	11	11	-	-
(93#) Congenital malformations deformations and chromosomal abnormalities	41	35	5	1	25	22	2	1	16	13	3	-
(94) Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	238	219	16	3	97	85	10	2	141	134	6	1
(95) All other diseases (Residual)	1,219	1,172	45	2	493	471	22	-	726	701	23	2

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

**Line numbers shown in parentheses on this table correspond to categories and code ranges in the table at <http://www.dphs.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, 2011**

Cause of Death**	Total				Male				Female			
	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other	Total	White	+AI/AN	Other
(#) Accidents (unintentional injuries)	577	511	60	6	363	317	41	5	214	194	19	1
Transport accidents	216	189	24	3	148	134	12	2	68	55	12	1
(96) Motor vehicle accidents	194	167	24	3	127	113	12	2	67	54	12	1
(97) Other land transport accidents	6	6	-	-	6	6	-	-	-	-	-	-
(98) Water, air and space, and other and unspecified transport accidents and their sequelae	16	16	-	-	15	15	-	-	1	1	-	-
Nontransport accidents	361	322	36	3	215	183	29	3	146	139	7	-
(99) Falls	118	113	4	1	62	57	4	1	56	56	-	-
(100) Accidental discharge of firearms	4	3	1	-	3	3	-	-	1	-	1	-
(101) Accidental drowning and submersion	17	14	1	2	13	10	1	2	4	4	-	-
(102) Accidental exposure to smoke, fire and flames	14	12	2	-	13	11	2	-	1	1	-	-
(103) Accidental poisoning and exposure to noxious substances	98	78	20	-	58	42	16	-	40	36	4	-
(104) Other and unspecified nontransport accidents and their sequelae	110	102	8	-	66	60	6	-	44	42	2	-
(#) Intentional self-harm (suicide)	225	207	16	2	171	158	13	-	54	49	3	2
(105) Intentional self-harm (suicide) by discharge of firearms	150	142	8	-	125	118	7	-	25	24	1	-
(106) Intentional self-harm (suicide) by other and unspecified means and their sequelae	75	65	8	2	46	40	6	-	29	25	2	2
(#) Assault (homicide)	21	13	8	-	14	10	4	-	7	3	4	-
(107) Assault (homicide) by discharge of firearms	10	6	4	-	7	5	2	-	3	1	2	-
(108) Assault (homicide) by other and unspecified means and their sequelae	11	7	4	-	7	5	2	-	4	2	2	-
(109#) Legal intervention	1	1	-	-	1	1	-	-	-	-	-	-
Events of undetermined intent	37	32	4	1	18	17	-	1	19	15	4	-
(111) Other and unspecified events of undetermined intent and their sequelae	37	32	4	1	18	17	-	1	19	15	4	-
(113#) Complications of medical and surgical care	11	11	-	-	5	5	-	-	6	6	-	-
(#) Enterocolitis due to Clostridium difficile	16	16	-	-	9	9	-	-	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 - 2011**

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+
2011	194	19.4	383	38.4	577	57.8	46	4.6	1,991	199.5	246	24.6	1,907	191.0	21	2.1	96	9.6	149	14.9	225	22.5
2010	192	19.4	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	17.0	227	22.9
2009	222	22.6	388	39.4	610	62.0	49	5.0	1,909	194.0	228	23.2	1,825	185.5	33	3.4	129	13.1	158	16.1	218	22.2
2008	216	22.1	373	38.2	589	60.3	49	5.0	1,854	189.9	254	26.0	1,968	201.6	39	4.0	153	15.7	165	16.9	203	20.8
2007	267	27.7	336	34.8	603	62.5	36	3.7	1,906	197.6	258	26.7	1,860	192.8	23	2.4	109	11.3	175	18.1	192	19.9
2006	261	27.4	284	29.8	545	57.2	63	6.6	1,940	203.6	251	26.3	1,857	194.9	35	3.7	132	13.9	164	17.2	188	19.7
2005	233	24.8	284	30.2	517	55.0	39	4.1	1,947	207.1	283	30.1	1,842	195.9	32	3.4	109	11.6	186	19.8	205	21.8
2004	235	25.3	292	31.4	527	56.7	32	3.4	1,858	199.8	236	25.4	1,835	197.3	25	2.7	107	11.5	161	17.3	173	18.6
2003	254	27.6	257	27.9	511	55.6	39	4.2	1,838	199.9	263	28.6	1,974	214.7	37	4.0	101	11.0	238	25.9	179	19.5
2002	250	27.4	273	29.9	523	57.4	30	3.3	1,901	208.5	211	23.1	1,931	211.8	23	2.5	104	11.4	247	27.1	182	20.0
2001	209	23.0	259	28.6	468	51.6	35	3.9	1,952	215.2	229	25.2	1,962	216.3	31	3.4	127	14.0	191	21.1	174	19.2
2000	228	25.2	256	28.3	484	53.6	29	3.2	1,861	205.9	226	25.0	1,985	219.6	35	3.9	115	12.7	192	21.2	157	17.4
1999	191	21.6	270	30.6	461	52.2	22	2.5	1,845	209.0	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	51.9	34	3.8	1,816	203.5	196	22.0	2,001	224.2	26	2.9	90	10.1	311	34.8	156	17.5
1997	230	25.8	213	23.9	443	49.8	18	2.0	1,779	199.9	169	19.0	2,097	235.7	37	4.2	98	11.0	299	33.6	179	20.1
1996	191	21.7	205	23.3	396	45.0	23	2.6	1,762	200.4	187	21.3	2,131	242.3	37	4.2	81	9.2	238	27.1	174	19.6
1995	191	21.8	183	20.9	374	42.7	21	2.4	1,765	201.4	210	24.0	2,003	228.5	45	5.1	56	6.4	313	35.7	197	22.5
1994	192	22.3	199	23.1	391	45.4	31	3.6	1,740	202.0	215	25.0	1,907	221.4	34	3.9	76	8.8	276	32.0	159	18.5
1993	182	21.5	193	22.8	375	44.4	26	3.1	1,738	205.7	191	22.6	2,110	249.8	39	4.6	59	7.0	249	29.5	154	18.2
1992	182	22.0	217	26.3	399	48.3	29	3.5	1,710	207.1	164	19.9	1,904	230.6	35	4.2	56	6.8	259	31.4	151	18.3
1991	183	22.6	201	24.8	384	47.4	19	2.3	1,656	204.5	181	22.4	1,944	240.1	36	4.4	51	6.3	245	30.3	167	20.6
1990	210	26.2	188	23.5	398	49.7	21	2.6	1,630	203.7	154	19.2	1,947	243.3	35	4.4	48	6.0	213	26.6	167	20.9
1989	171	21.2	189	23.5	360	44.7	16	2.0	1,593	197.7	170	21.1	2,019	250.6	32	4.0	47	5.8	224	27.8	159	19.7
1988	200	24.8	168	20.9	368	45.7	22	2.7	1,561	193.9	154	19.1	2,057	255.5	35	4.3	60	7.5	219	27.2	153	19.0
1987	223	27.6	193	23.9	416	51.4	22	2.7	1,516	187.4	116	14.3	2,109	260.7	39	4.8	60	7.4	192	23.7	159	19.7
1986	228	27.8	175	21.4	403	49.2	27	3.3	1,475	180.1	109	13.3	2,196	268.1	41	5.0	40	4.9	205	25.0	181	22.1
1985	210	25.4	207	25.1	417	50.5	20	2.4	1,445	174.9	123	14.9	2,201	266.5	49	5.9	58	7.0	211	25.5	144	17.4
1984	233	28.3	207	25.1	440	53.4	18	2.2	1,467	178.0	113	13.7	2,270	275.5	37	4.5	57	6.9	204	24.8	137	16.6
1983	267	32.7	249	30.5	516	63.2	16	2.0	1,350	165.2	103	12.6	2,241	274.3	33	4.0	62	7.6	219	26.8	143	17.5
1982	236	29.5	235	29.3	471	58.8	30	3.7	1,384	172.8	115	14.4	2,236	279.2	36	4.5	57	7.1	196	24.5	126	15.7
1981	308	38.8	245	30.9	553	69.7	32	4.0	1,343	169.4	95	12.0	2,279	287.4	47	5.9	70	8.8	171	21.6	137	17.3
1980	311	39.5	259	32.9	570	72.5	25	3.2	1,291	164.1	103	13.1	2,332	296.4	40	5.1	43	5.5	169	21.5	116	14.7
1979	313	39.8	283	36.0	596	75.8	22	2.8	1,240	157.8	94	12.0	2,302	292.9	39	5.0	46	5.9	143	18.2	123	15.6
1978	276	35.2	282	35.9	558	71.1	23	2.9	1,233	157.1	114	14.5	2,169	276.3	40	5.1	20	2.5	199	25.4	122	15.5
1977	302	39.7	272	35.7	574	75.4	25	3.3	1,184	155.6	89	11.7	2,149	282.4	53	7.0	24	3.2	144	18.9	143	18.8
1976	291	38.6	288	38.2	579	76.9	23	3.1	1,191	158.2	100	13.3	2,178	289.2	38	5.0	17	2.3	207	27.5	129	17.1
1975	282	37.7	302	40.4	584	78.1	28	3.7	1,105	147.7	122	16.3	2,178	291.2	42	5.6	19	2.5	185	24.7	112	15.0
1974	272	37.0	287	39.0	559	76.1	14	1.9	1,130	153.7	103	14.0	2,202	299.6	44	6.0	20	2.7	192	26.1	122	16.6
1973	324	44.9	287	39.8	611	84.7	20	2.8	1,061	147.2	126	17.5	2,300	319.0	46	6.4	27	3.7	236	32.7	108	15.0
1972	360	50.1	275	38.2	635	88.3	17	2.4	1,122	156.1	135	18.8	2,294	319.1	32	4.5	17	2.4	220	30.6	87	12.1
1971	310	43.7	299	42.1	609	85.8	19	2.7	1,051	148.0	120	16.9	2,339	329.4	43	6.1	19	2.7	210	29.6	117	16.5
1970	290	41.8	281	40.5	571	82.2	25	3.6	1,059	152.5	111	16.0	2,229	321.0	30	4.3	26	3.7	213	30.7	79	11.4
1969	329	47.4	306	44.1	635	91.5	10	1.4	1,041	150	117	16.9	2,297	331.0	31	4.5	21	3.0	201	29.0	91	13.1
1968	262	37.8	273	39.4	535	77.2	29	4.2	1,080	155.8	119	17.2	2,223	320.8	25	3.6	20	2.9	213	30.7	97	14.0
1967	318	45.4	289	41.2	607	86.6	12	1.7	1,001	142.8	143	20.4	2,297	327.7	31	4.4	38	5.4	196	28.0	100	14.3
1966	265	37.7	295	42.0	560	79.8	24	3.4	969	138.0	106	15.1	2,415	344.0	23	3.3	42	6.0	230	32.8	96	13.7
1965	268	38.0	323	45.8	591	83.7	14	2.0	933	132.2	114	16.1	2,297	325.4	20	2.8	35	5.0	198	28.0	94	13.3
1964	250	35.5	398	56.5	648	91.9	13	1.8	986	139.9	139	19.7	2,368	335.9	30	4.3	45	6.4	226	32.1	80	11.3
1963	218	30.8	299	42.3	517	73.1	12	1.7	896	126.7	125	17.7	2,340	331.0	22	3.1	42	5.9	218	30.8	115	16.3
1962	232	32.7	318	44.9	550	77.6	19	2.7	911	128.5	121	17.1	2,204	310.9	21	3.0	63	8.9	195	27.5	110	15.5
1961	270	39.6	248	36.4	518	76.0	18	2.6	965	141.5	117	17.2	2,269	332.7	21	3.1	41	6.0	219	32.1	96	14.1
1960	226	33.5	284	42.1	510	75.6	13	1.9	958	142.0	102	15.1	2,332	345.6	25	3.7	51	7.6	227	33.6	107	15.9
1959	258	38.6	307	45.9	565	84.5	15	2.2	920	137.5	123	18.4	2,382	356.1	29	4.3	58	8.7	231	34.5	97	14.5
1958	206	30.9	291	43.7	497	74.6	18	2.7	859	129.0	109	16.4	2,244	336.9	17	2.6	53	8.0	260	39.0	101	15.2
1957	219	32.8	322	48.3	541	81.1	20	3.0	877	131.5	118	17.7	2,290	343.3	23	3.4	71	10.6	249	37.3	105	15.7
1956	265	40.4	309	47.1	574	87.5	22	3.4	932	142.1	98	14.9	2,165	330.0	32	4.9	83	12.7	211	32.2	98	14.9
1955	239	37.6	310	48.7	549	86.3	28	4.4	829	130.3	108	17.0	2,116	332.7	21	3.3	94	14.8	155	24.4	79	12.4
1954	219	35.1	312	50	531	85.1	19	3.0	868	139.1	95	15.2	2,128	341.0	29	4.6	90	14.4	179	28.7	104	16.7
1953	228	37.0	306	49.7	534	86.7	17	2.8	809	131.3	73	11.9	2,164	351.3	23	3.7	77	12.5	180	29.2	106	17.2

*Data prior to 1945 are by place of occurrence. Beginning in 1946, data are presented by place of residence.<

Table D-4

**Frequency and Rate of Death from Selected Communicable Diseases by Year*
Montana, 1930 - 2011**

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‡
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	‡	-	‡	-	‡
1974	-	‡	-	‡	11	‡	-	‡	1	‡	1	‡	-	‡	17	‡	-	‡	-	‡

*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 - 2011**

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‡
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.

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-5

**Frequency of Death from Selected Cancers
by Sex of Decedent and Year of Death
Montana Residents, 1960 - 2011**

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
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	
1970	598	461	75	2	101	152	34	66	74	31	9	14	23	17	26	43	24	20	206	142	

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 - 2011**

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
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, 2011**

Cause Of Death**	Total	0 To 7 Days	8 To 28 Days	29 Days To One Year
All Causes	69	37	15	17
Neoplasms	1	-	-	1
(#) Malignant neoplasms	1	-	-	1
(23) Other and unspecified malignant neoplasms	1	-	-	1
Diseases of the nervous system	1	1	-	-
(37) Other diseases of nervous system	1	1	-	-
(#) Diseases of the circulatory system	1	1	-	-
(43) Cerebrovascular diseases	1	1	-	-
Diseases of the respiratory system	2	-	-	2
(52) Other and unspecified diseases of respiratory system	2	-	-	2
Diseases of the digestive system	1	-	1	-
(54#) Hernia of abdominal cavity and intestinal obstruction without hernia	1	-	1	-
Certain conditions originating in the perinatal period	25	20	5	-
Newborn affected by maternal factors and by complications of pregnancy, labor and delivery	5	5	-	-
# Newborn affected by maternal complications of pregnancy	12	12	-	-
(62) Newborn affected by multiple pregnancy	1	1	-	-
(63) Newborn affected by other maternal complications of pregnancy	1	1	-	-
(#) Newborn affected by complications of placenta, cord and membranes	2	2	-	-
(65) Newborn affected by complications involving cord	1	1	-	-
(66) Newborn affected by chorioamnionitis	1	1	-	-
(68#) Newborn affected by other complications of labor and delivery	1	1	-	-
Disorders related to length of gestation and fetal malnutrition	7	7	-	-
(#) Disorders related to short gestation and low birth weight, not elsewhere classified	7	7	-	-
(71) Extremely low birth weight or extreme immaturity	5	5	-	-
(72) Other low birth weight or preterm	2	2	-	-
(#) Intrauterine hypoxia and birth asphyxia	2	1	1	-
(76) Birth asphyxia	2	1	1	-
(77#) Respiratory distress of newborn	3	1	2	-
Other respiratory conditions originating in the perinatal period	3	2	1	-
(83#) Atelectasis	1	1	-	-
(84) All other respiratory conditions originating in the perinatal period	1	1	-	-
Infections specific to the perinatal period	1	-	1	-
(85#) Bacterial sepsis of newborn	1	-	1	-
Hemorrhagic and hematological disorders of newborn	2	2	-	-
(88#) Neonatal hemorrhage	1	1	-	-
(91#) Hematological disorders	1	1	-	-
(94#) Hydrops fetalis not due to hemolytic disease	1	1	-	-
(95) Other perinatal conditions	1	1	-	-
(#) Congenital malformations, deformations and chromosomal abnormalities	21	14	4	3
(99) Other congenital malformations of nervous system	2	1	-	1
(100) Congenital malformations of heart	7	5	1	1
(101) Other congenital malformations of circulatory system	1	1	-	-
(102) Congenital malformations of respiratory system	1	1	-	-
(104) Congenital malformations of genitourinary system	2	2	-	-
(107) Edward's syndrome	3	2	1	-
(108) Patau's syndrome	1	1	-	-
(109) Other congenital malformations and deformations	2	1	1	-
(110) Other chromosomal abnormalities, not elsewhere classified	2	-	1	1
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	15	1	4	10
(111#) Sudden infant death syndrome	12	1	2	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/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, 2011**

Cause Of Death**	Total	0 To 7 Days	8 To 28 Days	29 Days To One Year
(112) Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	3	-	2	1
External causes of mortality	2	-	1	1
(#) Accidents (unintentional injuries)	2	-	1	1
(118) Accidental drowning and submersion	1	-	-	1
(119) Accidental suffocation and strangulation in bed	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, 1992-2011**

Year	Births	1-7 Days	8-27 Days	28 Days To One Year	Infant Deaths	Infant Death Rate+	Lower CI **	Upper CI **
2007-2011	61,409	171	49	150	375	6.1	5.5	6.8
2002-2006	58,015	162	41	157	361	6.2	5.6	6.9
1997-2001	54,298	171	33	155	363	6.7	6.0	7.4
1992-1996	55,868	179	33	191	405	7.2	6.6	8.0

+ 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, 2003-2011**

	2011	2010	2009	2008	2007	2006	2005	2004	2003
Total, all Maternal and Late Maternal Causes	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	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	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, 2007-2011**

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	18.7	17.8	26.6	18,584	347,346	-	73.4	78	79	59	114	18.7	43,979
HIV Infection	27.0	26.3	30.0	28	757	33	49.2	48	48	45	84	10.0	29
Cancer	12.9	12.7	16.2	5,162	66,508	-	71.9	73	73	67.5	106	13.4	9,572
Diabetes	14.1	13.7	16.4	577	8,156	-	73.3	76	77	64.5	100	14.6	1,212
Alzheimer's Disease	5.0	5.1	4.7	88	441	54	86.6	87	87.5	83	104	7.2	1,367
Heart Disease	13.7	13.4	16.9	3,268	44,656	-	77.6	81	82	68	111	14.3	9,402
Cerebrovascular Disease	12.1	11.9	13.5	529	6,406	-	81.0	84	84	73	107	12.3	2,306
Atherosclerosis	11.5	11.6	-	31	356	50	81.3	84	84	99	103	13.0	115
Influenza And Pneumonia	16.5	15.5	22.8	201	3,317	-	81.0	85	86	66	108	15.6	848
Chronic Lower Respiratory Diseases	8.9	8.8	11.1	1,121	9,948	2	77.4	79	79	74.5	104	10.6	3,128
Chronic Liver Disease And Cirrhosis	20.7	18.6	26.6	600	12,438	21	56.7	56	59	49	98	12.7	663
Nephritis, Nephrotic Syndrome & Nephrosis	13.8	12.7	19.6	142	1,956	1	80.3	83	84	70	101	13.4	621
Congenital Malformations & Chromosomal Anomalies	56.7	56.0	60.4	175	9,928	-	22.2	-	-	-	92	29.4	186
Conditions Originating In Perinatal Period	74.6	74.6	74.9	125	9,329	-	0.4	-	-	-	43	3.9	125
Sudden Infant Death Syndrome	75.0	75.0	75.0	63	4,725	-	0.0	-	-	-	-	0.0	63
Accidents	33.8	32.6	40.1	2,143	72,367	-	53.4	52	54	35	109	25.5	2,924
Motor Vehicle Accidents	37.5	36.3	43.8	1,014	38,065	-	40.6	37	40	28.5	96	20.6	1,091
Non-Motor Vehicle Accidents	30.4	29.3	36.5	1,129	34,302	-	60.9	61	65	42	109	25.1	1,833
Suicide	32.0	30.5	45.5	965	30,832	12	46.8	48	49	27	99	18.9	1,065
Homicide	39.4	38.7	41.2	141	5,553	-	37.0	36	40	33	93	17.7	145
Other Causes	18.5	17.7	23.6	3,225	59,673	-	77.3	82	83	60	114	17.5	10,208

*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, 2011**

Cause Of Death	All Gestational Ages	Less Than 23 Weeks	23 To 33 Weeks	34 Weeks Or More
All Causes	65	15	28	22
Certain conditions originating in the perinatal period	56	12	25	19
(#) Fetus affected by maternal conditions that may be unrelated to present pregnancy	4	-	1	3
(22) Fetus affected by maternal injury	1	-	1	-
(24) Fetus affected by other medical procedures and maternal conditions	1	-	-	1
(25) Fetus affected by unspecified maternal condition	2	-	-	2
(#) Fetus affected by maternal complications of pregnancy	8	7	1	-
(26) Fetus affected by incompetent cervix	1	1	-	-
(27) Fetus affected by premature rupture of membranes	7	6	1	-
(#) Fetus affected by complications of placenta, cord and membranes	16	4	7	5
(36) Fetus affected by other forms of placental separation and hemorrhage	8	3	3	2
(37) Fetus affected by other and unspecified morphological and functional abnormalities of placenta	1	-	1	-
(38) Fetus affected by placental transfusion syndromes	1	-	1	-
(39) Fetus affected by prolapsed cord	2	1	-	1
(40) Fetus affected by other compression of umbilical cord	3	-	2	1
(42) Fetus affected by chorioamnionitis	1	-	-	1
(#) Fetus affected by other complications of labor and delivery	1	-	-	1
(45) Fetus affected by other malpresentation, malposition and disproportion during labor and delivery	1	-	-	1
Transitory endocrine and metabolic disorders specific to fetus	2	-	1	1
(84#) Syndrome of infant of a diabetic mother and neonatal diabetes mellitus	2	-	1	1
Other conditions originating in the perinatal period	25	1	15	9
(87#) Hydrops fetalis not due to hemolytic disease	1	-	1	-
(88#) Fetal death of unspecified cause	20	-	13	7
(92) All other specified conditions originating in the perinatal period	1	1	-	-
(93) Condition originating in the perinatal period, unspecified	3	-	1	2
(#) Congenital malformations, deformations and chromosomal abnormalities	9	3	3	3
Congenital malformations of nervous system	1	-	1	-
(97) Congenital hydrocephalus	1	-	1	-
Other congenital malformations	4	3	1	-
(113) Conjoined twins	1	1	-	-
(114) Multiple congenital malformations, not elsewhere classified	1	-	1	-
(115) All other congenital malformations	2	2	-	-
Chromosomal abnormalities, not elsewhere classified	4	-	1	3
(116) Down's syndrome	1	-	-	1
(118) Patau's syndrome	2	-	1	1
(119) Other chromosomal abnormalities, not elsewhere classified	1	-	-	1