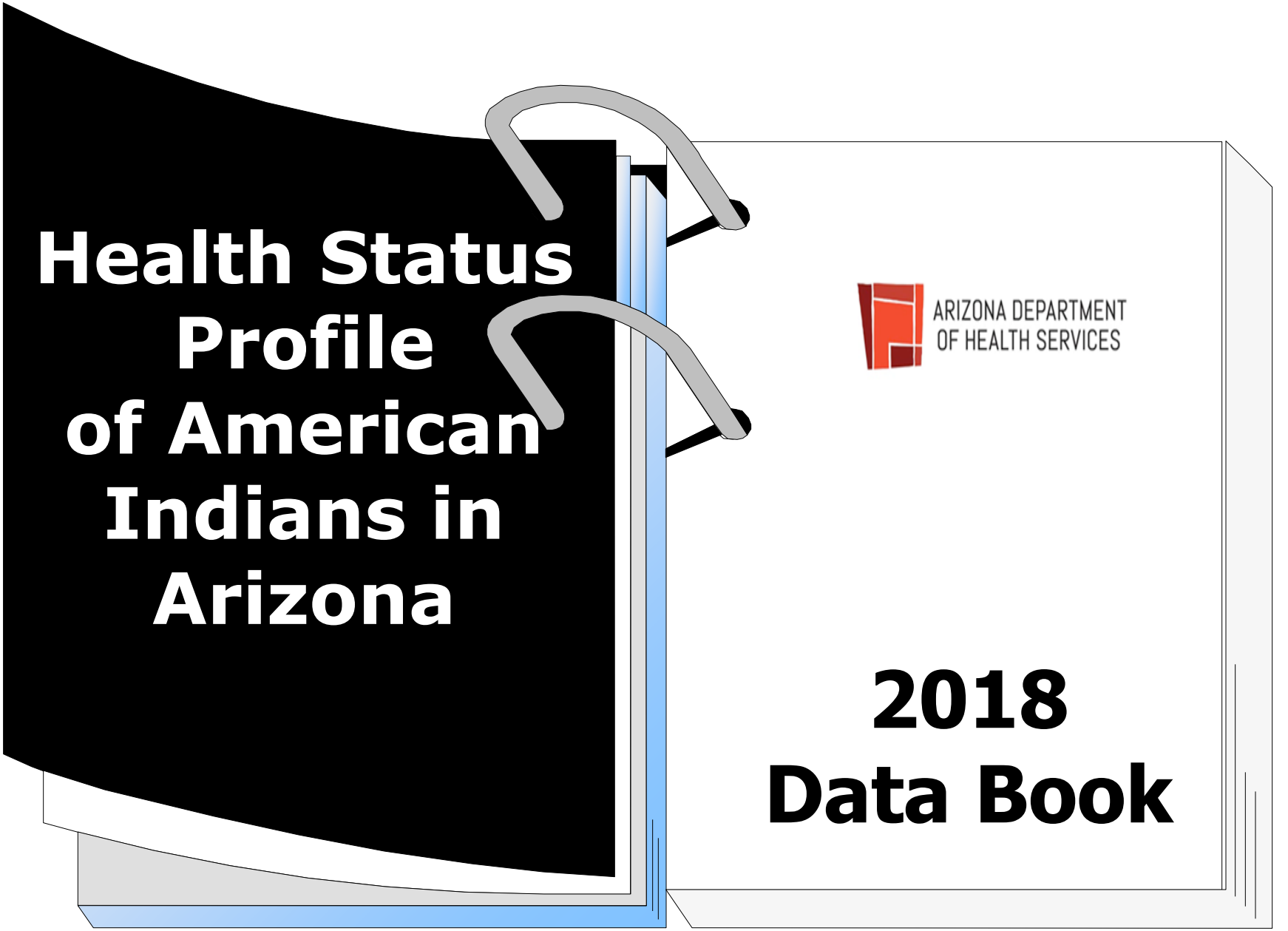
Health Status Profile of American Indians in Arizona



ARIZONA DEPARTMENT OF HEALTH SERVICES

2018 Data Book

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Arizona Department of Health Services

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HEALTH STATUS PROFILE OF AMERICAN INDIANS IN ARIZONA:

2018 DATA BOOK

by

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March 2020

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INTRODUCTION

The report *Health Status Profile of American Indians in Arizona: 2018 Data Book* is the annual update of population-level data on trends and patterns in natality and mortality among American Indians who were residents of specified tribal communities on reservations, and those who resided off reservation in Arizona in 2018.

American Indian births are determined by mother's race as indicated on a birth certificate, that is, these are the births to American Indian mothers. American Indian deaths are determined by decedent's race as stated on the death certificate.

The charts and tables comprising the 2018 *Health Status Profile of American Indians in Arizona* are grouped into five major sections:

1) a summary risk profile of American Indian residents of Arizona in 2018 on 65 indicators or measures of health status,
2) a comparison of American Indians' standing in Arizona with respect to selected health objectives for the years 2010 and 2020,
3) a section presenting trend data for 2008-2018 for selected health problems and health risks comparing American Indians to Arizona's entire population,
4) a four-part section concerned with the characteristics of American Indian newborns and mothers giving birth,
5) a three-part section focused on patterns of cause-specific mortality among American Indians by age group, gender, and place of residence in Arizona in 2018. Beginning with the 2007 report, it also includes additional statistics on "Comparative Cause-Specific Mortality" focused on leading causes of death by gender and residence status on or off reservation, as well as patterns in cancer mortality and proportional mortality from specific unintentional injuries.

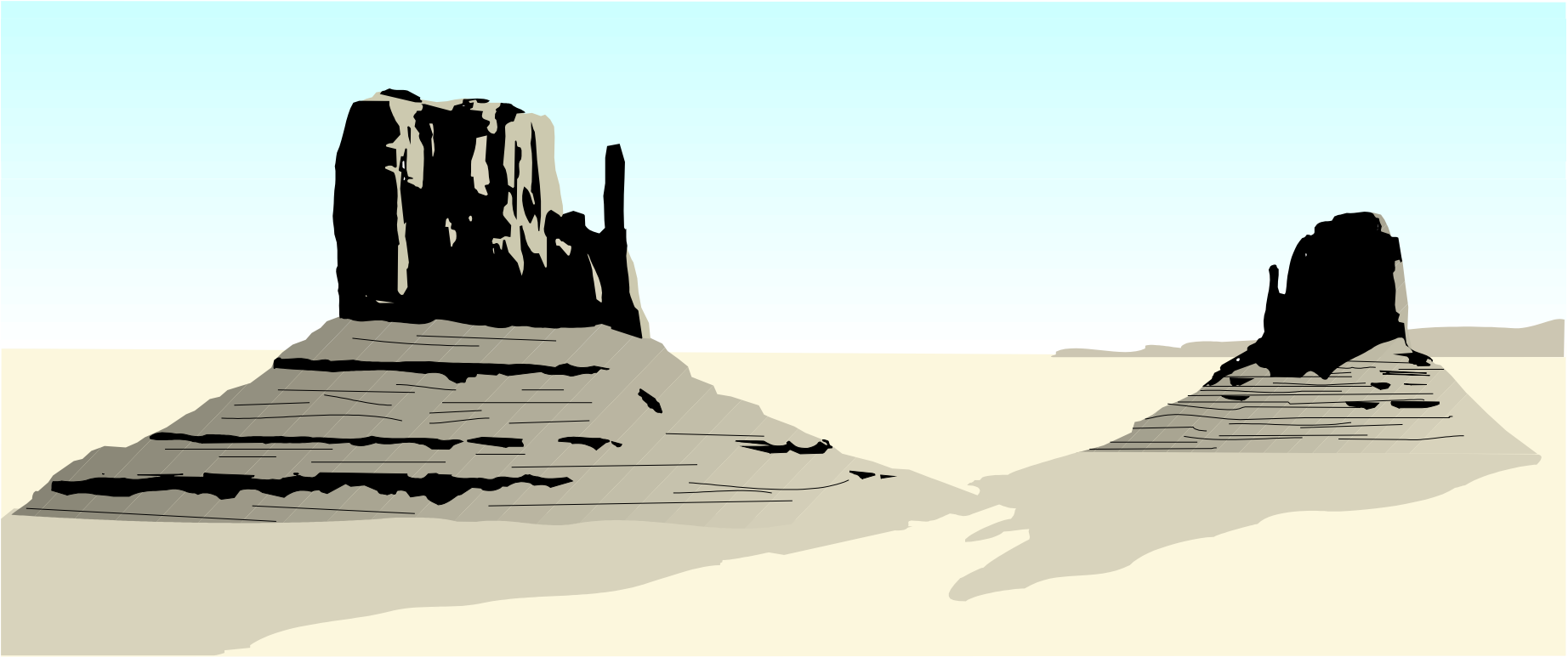
These sections are followed by the **Technical Notes**, which provide information about the sources of data and definitions of terms used in the report. The causes of death for 2008-2018are classified by the Tenth Revision (ICD-10).

Identifying whether the vital events occurring to Arizona's Native American population were to those living on tribal reservations has posed a persistent challenge. Beginning with the first edition of this report published in 1995, vital events occurring on reservation were identified by place of residence. From 2002 - 2009, tribal affiliation combined with a specific place of residence was used in order to distinguish between American Indian residents of specified tribal communities and/or on reservations, and those who resided off reservation. Starting in 2010, the identification of events occurring on or off tribal lands was based solely on whether or not the individual's residence address was within the boundaries of a tribal reservation. While identifying a somewhat smaller number of on-reservation vital events than in previous years, this method provides a stricter definition of whether a specific vital event occurred to a Native American living within the boundaries of a reservation, and is also more reliable and reproducible than the method incorporating both residence address and tribal affiliation to identify on-reservation events. Future editions of the report will also use residence as the sole identifier of on-reservation vital events. **Due to this change in methodology, the counts of vital events occurring on-or-off reservation in 2018 should not be directly compared to on-or-off reservation counts from years prior to 2010, specifically counts in Sections IV and V (excluding Section V Comparative Cause-Specific Mortality).**

The *Health Status Profile of American Indians in Arizona: 2018 Data Book* includes tables where small cells and related totals are suppressed. Using suppression rules similar to those used by the National Center for Health Statistics (NCHS), this report now attempts to maintain the anonymity of the individuals whose vital records are summarized herein. In cell suppression, the first task is primary suppression, or removing non-zero counts in the body of a table that fall below a certain number. Primary cells that were less than six but greater than zero were suppressed and identified with an asterisk (*). Next, secondary suppression is used to obfuscate the totals or sums with components, or addends that fall below the threshold for primary suppression. These totals are typically reported in the margins of table rows and columns. Column or row totals that contained a non-zero addend less than 6 were rounded to the nearest tens-unit and identified with a dagger (†). In certain cases where these rules would have dictated the rounding of a row or column total but the value of the information contained in the total was identified as important or attainable from other sources, these rules were relaxed and the original value was reported.

Health Status Profile of American Indians in Arizona was intended as a data book: a basic reference for some of the most frequently requested vital event statistics. The five sections of the report were computer-generated and contain information with little or no accompanying narrative.

The online versions of the report for 1998–2018 are available at http://pub.azdhs.gov/health-stats/



I.

Risk Profile of American Indians in Arizona:

An Overview of Selected Health Problems and Health Risks Among American Indians and All Residents of the State in 2018

The risk profile presented on the following page summarizes how American Indians as a group compared in 2018 to the state average on 65 measures of health status. The 65 indicators used in the profile are individual measures of the various dimensions or facets of health status. The profile uses the percentages a racial/ethnic group is above or below the statewide average on each of the specific measures. In order to represent the level of each indicator for American Indians in comparison to the overall state level, the following formula was used:*

$$\left[\frac{\text{THE VALUE OF A RATE OR RATIO IN A SPECIFIED GROUP}}{\text{THE AVERAGE VALUE OF A RATE OR RATIO FOR ALL GROUPS}} - 1.0\right] \times 100$$

The above formula produces a score of 0.0 for a group with the same value as the statewide average. A negative value indicates better than average standing on an indicator. A positive value indicates worse than average standing on an indicator*. The profile visually describes the better-than-average and worse-than-average clusters of health status characteristics for American Indian residents of Arizona.

Following the graphic profile is a detailed description of the 65 indicators. These indicators are organized around 9 major subject areas:

(1) Teen Pregnancies, (2) Maternal Lifestyle and Health Characteristics, (3) Utilization of Prenatal Care Services, (4) Newborn's Health, (5) Mortality from Natural Causes (chronic or infectious diseases), (6) Mortality from Injuries, (7) Age-Specific Mortality, (8) Premature Mortality and (9) Reportable Diseases.

IN 2018, AMERICAN INDIAN RESIDENTS OF ARIZONA:

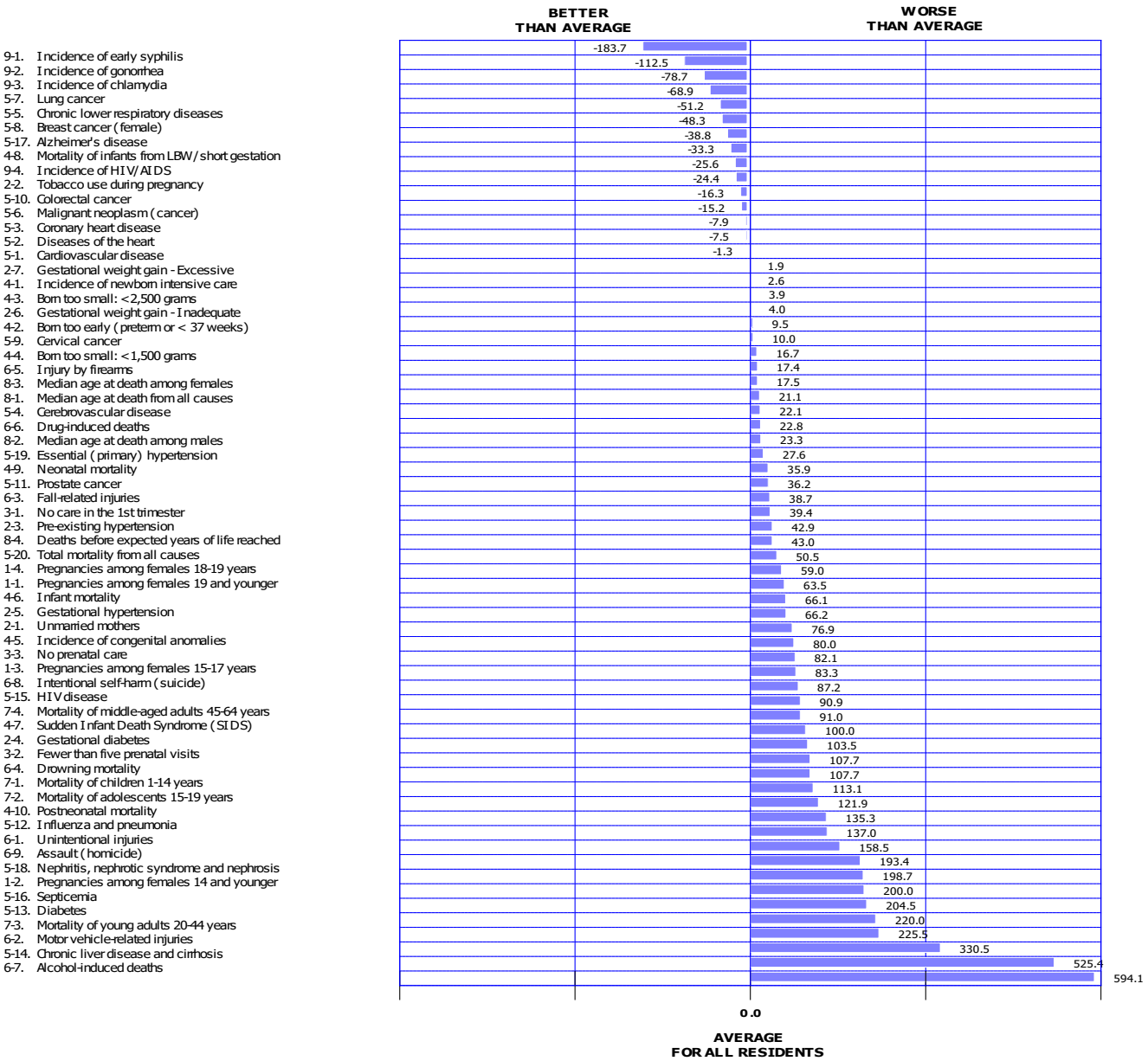
- **ranked worse than the statewide average on 50 of 65 health indicators;**
- **with high mortality from alcohol-induced causes, chronic liver disease and cirrhosis, motor vehicle accidents, diabetes, septicemia, nephritis, assault, unintentional injuries, influenza and pneumonia, post-neonatal mortality, drowning, and sudden infant death syndrome: all contributing to the premature death rate of 78.8 percent.**
- **adverse maternal lifestyle, poor health, and inadequate utilization of prenatal care;**
- **premature mortality with deaths occurring16 years earlier than in any other racial/ethnic groups;**
- **ranked better than average on a number of health indicators including: incidence of early syphilis, mortality rates for several chronic diseases (lung cancer, chronic lower respiratory diseases, breast cancer, Alzheimer's disease, colorectal cancer, malignant neoplasms, coronary heart disease, diseases of the heart, cardiovascular disease, cervical cancer, and HIV disease), incidence of gonorrhea, incidence of HIV/AIDS, incidence of chlamydia, and tobacco use during pregnancy.**

* The comparative risk profiles for American Indian, White non-Hispanic, Hispanic or Latino, Black or African American, and Asian or Pacific Islander residents of Arizona were developed for a report "***Differences in the Health Status among Racial/Ethnic Groups***". This publication is available online at http://pub.azdhs.gov/health-stats/report/dhsag/index.php.

For consistency, the signs + and – for scores indicating the median age at death as higher or lower than the statewide average were reversed (indicators 8-1, 8-2, 8-3). Otherwise, a lower-than-average median age at death would signify a better than average standing on this indicators. A lower-than-average median age at death obviously reflects a worse off life expectancy.

2018 RISK PROFILE OF AMERICAN INDIANS

(Percent above or below the average rate or ratio of all Arizona residents in 2018



AMERICAN INDIANS' STANDING IN ARIZONA IN 2018 ON 65 INDICATORS OF HEALTH STATUS

1. TEEN PREGNANCIES

(Number of pregnancies per 1,000 females in specified age group)

Figure Number	Indicator	2018 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2018	Definitions
1-1	Pregnancies among females 19 and younger	20.6	**63.5**	12.6	The sum of live births, fetal deaths, and abortions per 1,000 females aged 19 or younger.
1-2	Pregnancies among females 14 and younger	0.6	**200.0**	0.2	The sum of live births, fetal deaths, and abortions per 1,000 females aged 14 or younger.
1-3	Pregnancies among females 15-17 years old	19.8	**83.3**	10.8	The sum of live births, fetal deaths, and abortions per 1,000 females aged 15-17 years.
1-4	Pregnancies among females 18-19 years old	74.1	**59.0**	46.6	The sum of live births, fetal deaths, and abortions per 1,000 females aged 18-19 years.

2. MATERNAL LIFESTYLE AND HEALTH CHARACTERISTICS

(All rates are per 100 live births)

Figure Number	Indicator	2018 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2018	Definitions
2-1	Unmarried mothers	78.9	**76.9**	44.6	The number of births to unmarried mothers per 100 births.
2-2	Tobacco use during pregnancy	3.4	**-24.4**	4.5	The number of mothers giving birth who self-reported tobacco use during pregnancy per 100 births.
2-3	Pre-existing hypertension	2.0	**42.9**	1.4	Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20th week of gestation (the number of cases per 100 births).
2-4	Gestational diabetes	17.3	**103.5**	8.5	Metabolic disorder characterized by excessive discharge of urine and persistent thirst; includes juvenile onset, adult onset, and gestational diabetes during pregnancy (the number of cases per 100 births).
2-5	Gestational hypertension	12.8	**66.2**	7.7	An increase in blood pressure of at least 30 mm hg systolic or 15 mm hg diastolic on two measurements taken 6 hours apart after the 20th week of gestation (the number of cases per 100 births).
2-6	Gestational weight gain - Inadequate	23.4	**4.0**	22.5	The number of women giving birth whose gestational weight gain was inadequate in relation to pre-pregnancy body mass index (BMI).
2-7	Gestational weight gain - Excessive	47.4	**2.2**	46.4	The number of women giving birth whose gestational weight gain was excessive in relation to pre-pregnancy body mass index (BMI).

AMERICAN INDIANS' STANDING IN ARIZONA IN 2018 ON 65 INDICATORS OF HEALTH STATUS (continued)

3. UTILIZATION OF PRENATAL CARE SERVICES

(Per 100 live births)

Figure Number	Indicator	2018 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2018	Definitions
3-1	No care in the 1st trimester	43.5	**39.4**	31.2	The number of mothers giving birth who received no prenatal care in the 1st trimester of pregnancy per 100 births.
3-2	Fewer than five prenatal visits	16.2	**107.7**	7.8	The number of mothers giving birth who had fewer than five prenatal visits during pregnancy per 100 births.
3-3	No prenatal care	5.1	**82.1**	2.8	The number of mothers giving birth who received no prenatal care during pregnancy per 100 births.

4. NEWBORN'S HEALTH

(Infant, neonatal, and postneonatal rates are per 1,000 live births. All other indicators are expressed per 100 live births)

Figure Number	Indicator	2018 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2018	Definitions
4-1	Incidence of newborn intensive care	7.8	**2.6**	7.6	The number of babies admitted to Newborn Intensive Care units per 100 births.
4-2	Born too early (preterm or < 37 weeks)	10.4	**9.5**	9.5	The number of births before 37 weeks of gestation per 100 births. Preterm is any neonate whose birth occurs through the end of the last day of the 37th week (259th day), following onset of the last menstrual period.
4-3	Born too small: low-birthweight (<2,500 grams)	7.9	**3.9**	7.6	The number of newborns weighing less than 2,500 grams per 100 births. Low-birthweight is any neonate weighing less than 2,500 grams at birth (less than 5 pounds 8 ounces).
4-4	Born too small: very low-birthweight (<1,500 grams)	1.4	**16.7**	1.2	The number of newborns weighing less than 1,500 grams per 100 births. Very low-birthweight is any neonate whose weight at birth is 1,500 grams or less (less than 3 pounds 5 ounces).
4-5	Incidence of congenital anomalies (birth defects)	0.9	**80.0**	0.5	The numbers of babies born with birth defects per 100 births.
4-6	Infant mortality	9.3	**66.1**	5.6	The number of infant deaths per 1,000 live births. Infant death is any death at any time from birth up to, but not including, the first year of age (364 days, 23 hours, 59 minutes from the moment of birth).
4-7	Sudden Infant Death Syndrome (SIDS)	0.4	**100.0**	0.2	The number of infant deaths from Sudden Infant Death Syndrome (ICD-10 code R95) per 1,000 live births.
4-8	Mortality of infants from low birthweight/short gestation	0.8	**-11.1**	0.9	The number of infant deaths from low-birthweight/short gestation (ICD-10 code P07) per 1,000 live births.
4-9	Neonatal mortality	5.3	**35.9**	3.9	The number of neonatal deaths per 1,000 live births. Neonatal death is death of a liveborn neonate before the neonate becomes 28 days old (up to and including 27 days, 23 hours, 59 minutes from the moment of birth).
4-10	Postneonatal mortality	4.0	**135.3**	1.7	The number of postneonatal deaths per 1,000 live births. Postneonatal death is any death of a liveborn infant at least 28 days of age but less than one year of age.

AMERICAN INDIANS' STANDING IN ARIZONA IN 2018 ON 65 INDICATORS OF HEALTH STATUS (continued)

5. MORTALITY FROM NATURAL CAUSES (chronic or infectious diseases)
(Number of deaths per 100,000 population age-adjusted to 2000 standard. The causes of death are classified by the Tenth Revision of the International Classification of Diseases or ICD-10)

Figure Number	Indicator	2018 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2018	Definitions
5-1	Cardiovascular disease	186.0	**-1.3**	188.4	The number of deaths from cardiovascular diseases (ICD-10 codes I00-I78) per 100,000 age-adjusted population.
5-2	Diseases of the heart	129.9	**-7.5**	140.5	The number of deaths from disease of the heart (ICD-10 codes I00–I09, I11, I13, I20–I51) per 100,000 age-adjusted population.
5-3	Coronary heart disease	92.8	**-7.9**	100.8	The number of deaths from coronary heart disease (ICD-10 codes I200-I259) per 100,000 age-adjusted population.
5-4	Cerebrovascular disease	39.2	**22.1**	32.1	The number of deaths from cerebrovascular disease (ICD-10 codes I60–I69) per 100,000 age-adjusted population.
5-5	Chronic lower respiratory diseases	20.8	**-51.2**	42.6	The number of deaths from chronic lower respiratory diseases (ICD-10 codes J40–J47) per 100,000 age-adjusted population.
5-6	Malignant neoplasm (cancer)	115.3	**-15.2**	135.9	The number of deaths from cancer (ICD-10 codes C00–C97) per 100,000 age-adjusted population.
5-7	Lung cancer	9.0	**-68.9**	28.9	The number of deaths from lung cancer (ICD-10 codes C33–C34) per 100,000 age-adjusted population.
5-8	Breast cancer	9.1	**-48.3**	17.6	The number of deaths from breast cancer (ICD-10 code C50) per 100,000 age-adjusted female population.
5-9	Cervical cancer	2.2	**10.0**	2.0	The number of deaths from cervical cancer (ICD-10 code C53) per 100,000 age-adjusted female population.
5-10	Colorectal cancer	10.8	**-16.3**	12.9	The number of deaths from colorectal cancer (ICD-10 codes C18–C21) per 100,000 age-adjusted population.
5-11	Prostate cancer	23.7	**36.2**	17.4	The number of deaths from prostate cancer (ICD-10 code C61) per 100,000 age-adjusted male population.
5-12	Influenza and pneumonia	30.1	**137.0**	12.7	The number of deaths from influenza and pneumonia (ICD-10 codes J10–J18) per 100,000 age-adjusted population.
5-13	Diabetes	73.6	**220.0**	23.0	The number of deaths from diabetes (ICD-10 codes E10–E14) per 100,000 age-adjusted population.
5-14	Chronic liver disease and cirrhosis	88.8	**525.4**	14.2	The number of deaths from chronic liver disease and cirrhosis (ICD-10 codes K70, K73–K74) per 100,000 age-adjusted population.
5-15	HIV disease	2.1	**90.9**	1.1	The number of deaths from HIV disease (ICD-10 codes B20-B24) per 100,000 age-adjusted population.
5-16	Septicemia	13.4	**204.5**	4.4	The number of deaths from septicemia (ICD-10 codes A40-A41) per 100,000 age-adjusted population.
5-17	Alzheimer's disease	21.0	**-38.8**	34.3	The number of deaths from Alzheimer's disease (ICD-10 code G30) per 100,000 age-adjusted population.
5-18	Nephritis, nephrotic syndrome and nephrosis (kidney disease)	23.0	**198.7**	7.7	The number of deaths from nephritis, nephritic syndrome, and nephrosis (ICD-10 codes N00–N07, N17–N19,N25–N27) per 100,000 age-adjusted population.
5-19	Essential (primary) hypertension	13.4	**27.6**	10.5	The number of deaths from essential (primary) hypertension (ICD-10 codes I10, I12) per 100,000 age-adjusted population.
5-20	Total mortality from all causes	1036.1	**50.5**	688.6	Total number of deaths from all causes per 100,000 age-adjusted population.

AMERICAN INDIANS' STANDING IN ARIZONA IN 2018 ON 65 INDICATORS OF HEALTH STATUS (continued)

6. MORTALITY FROM INJURIES

(Number of deaths per 100,000 population age-adjusted to 2000 standard. The causes of death are classified by the Tenth Revision of the International Classification of Diseases or ICD-10. Drug-induced deaths include accidental, suicidal, and homicidal poisoning by drugs, but also disorders due to use of psychoactive substances. Alcohol-induced deaths include accidental, suicidal, and homicidal by drugs, but also disorders due to use of alcohol)

Figure Number	Indicator	2018 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2018	Definitions
6-1	Unintentional injuries	144.5	**158.5**	55.9	The number of deaths from unintentional injuries in accidents (ICD-10 codes V01–X59, Y85–Y86) per 100,000 age-adjusted population.
6-2	Motor vehicle-related injuries	60.7	**330.5**	14.1	The number of deaths from motor vehicle-related injuries (ICD-10 codes V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6,V20–V79, V80.3–V80.5,V81.0–V81.1,V82.0–V82.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, V89.2) per 100,000 age-adjusted population.
6-3	Fall-related injuries	17.2	**38.7**	12.4	The number of deaths from fall-related injuries (ICD-10 codes W00-W19) per 100,000 age-adjusted population.
6-4	Drowning mortality	2.7	**107.7**	1.3	The number of deaths due to accidental drowning and submersion (ICD-10 codes W65-W74) per 100,000 age-adjusted population.
6-5	Injury by firearms	18.2	**17.4**	15.5	The number of deaths by firearms (ICD-10 codes W32–W34, X72–X74, X93–X95, Y22–Y24, Y 35.0) per 100,000 age-adjusted population. Causes of death attributable to firearm mortality include accidental discharge of firearms, intentional self-harm (suicide) by discharge of firearms, assault (homicide) by discharge of firearms, discharge of firearms -undetermined intent, and legal intervention involving firearm discharge. Deaths from injury by firearms exclude deaths due to explosives and other causes indirectly related to firearms.
6-6	Drug-induced deaths	31.2	**22.8**	25.4	The number of drug-induced deaths (ICD-10 codes F11.0–F11.5, F11.7–F11.9, F12.0–F12.5, F12.7–F12.9, F13.0–F13.5, F13.7–F13.9, F14.0–F14.5, F14.7–F14.9, F15.0–F15.5, F15.7–F15.9, F16.0–F16.5, F16.7–F16.9, F17.0, F17.3–F17.5, F17.7–F17.9, F18.0–F18.5, F18.7–F18.9, F19.0–F19.5, F19.7–F19.9, X40–X44, X60–X64, X85, Y10–Y14) per 100,000 age-adjusted population. Causes of death attributable to drug-induced mortality include selected codes from the ICD-10 title Mental and behavioral disorders due to psychoactive substance use, accidental poisoning by and exposure to drugs, medicaments and biological substances; intentional self-poisoning (suicide) by and exposure to drugs; assault (homicide) by drugs, medicaments and biological substances; and poisoning by and exposure to drugs, medicaments and biological substances, undetermined intent. Drug-induced causes exclude accidents, homicides, and other causes indirectly related to drug use. Also excluded are newborn deaths associated with mother's drug use.
6-7	Alcohol-induced deaths	105.5	**594.1**	15.2	The number of alcohol-induced deaths (ICD-10 codes F10, G31.2, G62.1, I42.6, K29.2, K70, R78.0, X45, X65, Y15) per 100,000 age-adjusted population. Causes of death attributable to alcohol-induced mortality include mental and behavioral disorders due to alcohol use, degeneration of nervous system due to alcohol, alcoholic polyneuropathy, alcoholic cardiomyopathy, alcoholic gastritis, alcoholic liver disease, finding of alcohol in blood, accidental poisoning by and exposure to alcohol, intentional self-poisoning by and exposure to alcohol; and poisoning by and exposure to alcohol, undetermined intent. Alcohol-induced causes exclude accidents, homicides, and other causes indirectly related to alcohol use.
6-8	Intentional self-harm (suicide)	36.5	**87.2**	19.5	The number of deaths due to intentional self-harm (ICD-10 codes X60-X84, Y87.0) per 100,000 age-adjusted population.
6-9	Assault (homicide)	17.9	**193.4**	6.1	The number of deaths due to assault (homicide; ICD-10 codes X85-X09, Y87.1) per 100,000 age-adjusted population.

AMERICAN INDIANS' STANDING IN ARIZONA IN 2018 ON 65 INDICATORS OF HEALTH STATUS (continued)

7. PREMATURE MORTALITY

(Number of deaths per 100,000 persons in specific group)

Figure Number	Indicator	2018 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2018	Definitions
7-1	Mortality of children 1-14 years old	40.7	**113.1**	19.1	The number of deaths per 100,000 children 1-14 years old.
7-2	Mortality of adolescents 15-19 years old	138.9	**121.9**	62.6	The number of deaths per 100,000 adolescents 15-19 years old.
7-3	Mortality of young adults 20-44 years old	523.8	**225.5**	160.9	The number of deaths per 100,000 young adults 20-44 years old.
7-4	Mortality of middle-aged adults 45-64 years old	1221.0	**91.0**	639.4	The number of deaths per 100,000 middle-aged adults 45-64 years old.

8. AGE-SPECIFIC MORTALITY

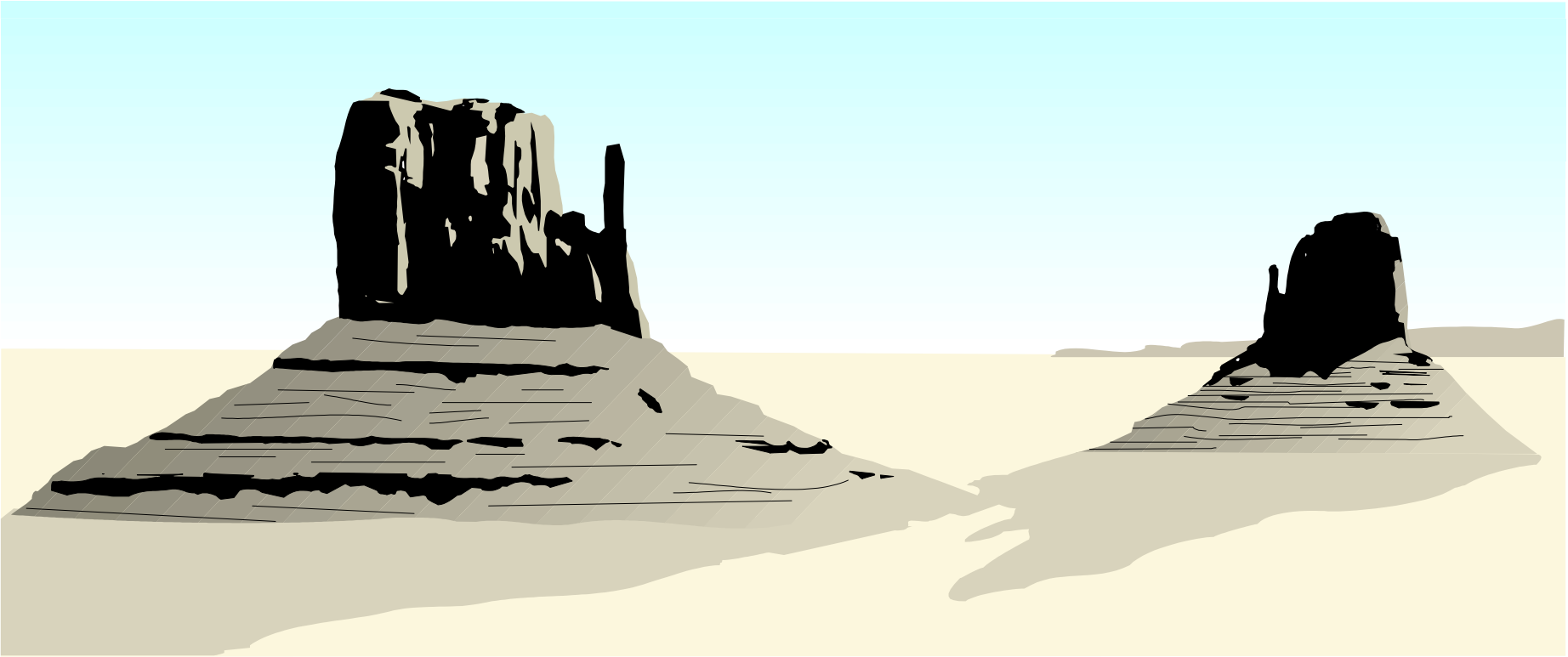
Figure Number	Indicator	2018 rate for American Indians	Percent above or below the average for all groups*	Average rate for all groups in 2018	Definitions
8-1	Median age at death from all causes	60.0	**21.1**	76.0	The median age (the age in the middle) of Arizonans who died in 2015.
8-2	Median age at death from all causes among males	56.0	**23.3**	73.0	The median age (the age in the middle) of Arizona males who died in 2015.
8-3	Median age at death from all causes among females	66.0	**17.5**	80.0	The median age (the age in the middle) of Arizona females who died in 2015.
8-4	Percent of total deaths before expected years of life reached	78.8	**43.0**	55.1	The number of deaths before reaching 78.8 years (the life expectancy of all U.S. residents in 2015) per 100 deaths.

Note: For consistency, the signs + and – for scores indicating the median age at death as higher or lower than the statewide average were reversed.

9. REPORTABLE DISEASES

(Number of cases per 100,000 persons in specific group)

Figure Number	Indicator	2018 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2018	Definitions
9-1	Incidence of early syphilis	78.3	**183.7**	27.6	Number of reported cases of early syphilis per 100,000 population.
9-2	Incidence of gonorrhea	387.4	**112.5**	182.3	Number of reported cases of gonorrhea per 100,000 population.
9-3	Incidence of chlamydia	1031.9	**78.7**	577.5	Number of reported cases of chlamydia per 100,000 population.
9-4	Incidence of HIV/AIDS	14.7	**25.6**	11.7	Number of reported cases of HIV/AIDS per 100,000 population.



II.

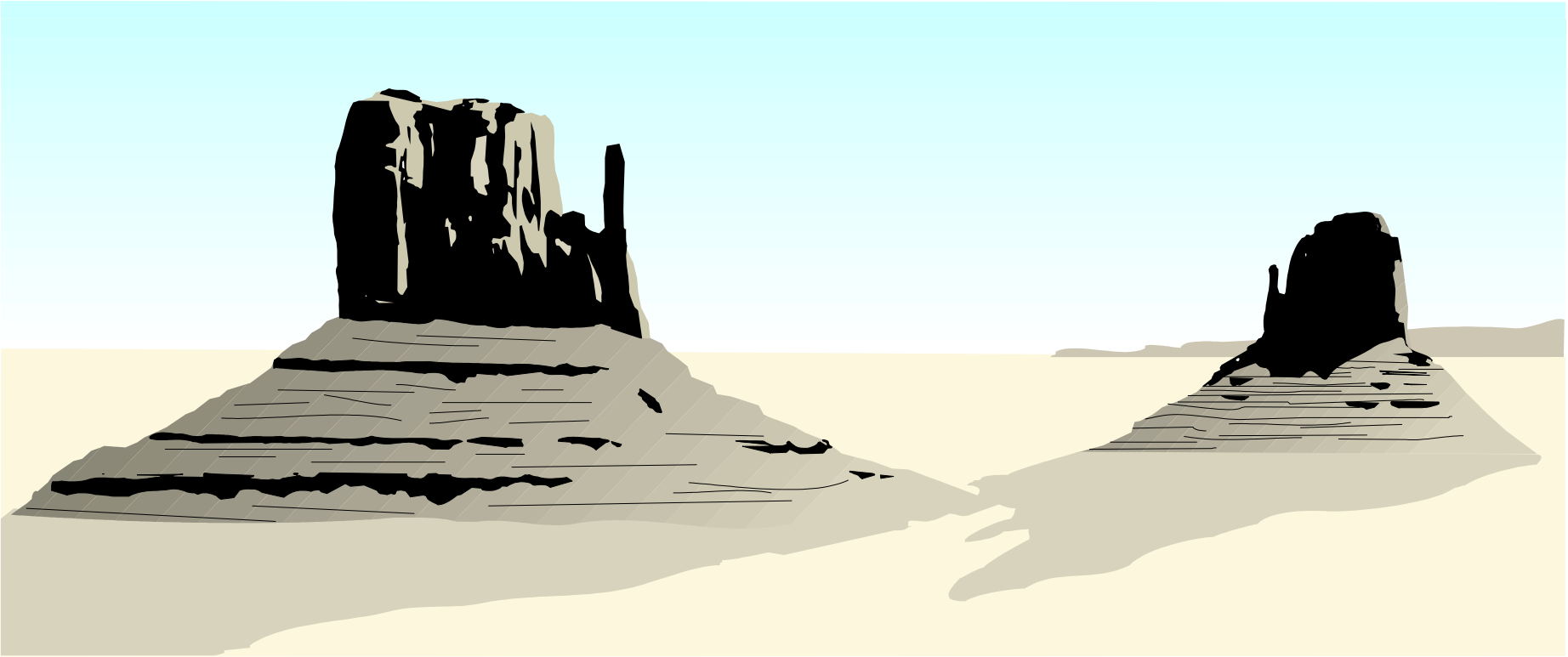
Comparison of American Indians' Standing in Arizona with Respect to Selected Health Objectives for the year 2018

COMPARISON OF AMERICAN INDIANS' STANDING IN ARIZONA WITH RESPECT TO SELECTED HEALTH OBJECTIVES FOR THE YEAR 2018

National Year 2010 Objectives / Healthy People 2020 Objectives	
2.1	Increase the proportion of women giving birth who receive prenatal care in the first trimester of pregnancy; 2010 objective (HP16-16a); 2020 objective (HP-MICH-10.1)
2.2	Reduce the rate of infant deaths; 2010 objective (HP16-1c); 2020 objective (HP-MICH-1.3)
2.3	Reduce postneonatal mortality; 2010 objective (HP16-1e); 2020 objective (HP-MICH-1.5)
2.4	Reduce deaths caused by unintentional injuries; 2010 objective (HP15-13); 2020 objective(HP-IVP-11)
2.5	Reduce deaths caused by motor vehicle crashes; 2010 objective (HP15-15); 2020 objective (HP-IVP-13.1)
2.6	Reduce the suicide rate; 2010 objective (HP18-1); 2020 objective (HP-MHMD-1)
2.7	Reduce the homicide rate; 2010 objective (HP15-32); 2020 objective (HP-IVP-29)
2.8	Reduce the diabetes-related death rate; 2010 objective (HP5-5); 2020 objective (HP-D-3)
2.9	Reduce the cirrhosis* death rate; 2010 objective (HP26-2); 2020 objective (HP-SA-11)
2.10	Reduce the cervical cancer death rate; 2010 objective (HP3-4); 2020 objective (HP-C-4)

	Indicator	Objectives												
		2010	2020	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
2.1	Percent of American Indian women giving birth who received early prenatal care	90.0	77.9	65.1	66.0	69.4	68.6	68.2	68.7	58.4	58.5	60.7	59.4	56.5
2.2	Number of infant deaths per 1,000 American Indian live births (6 per 1,000)	6.0	6.0	8.2	8.4	8.1	7.4	7.4	6.6	8.7	7.8	8.3	9.5	9.3
2.3	Number of postneonatal (i.e., at least 28 days of age but less than one year of age) deaths per 1,000 American Indian live births (1.2 per 1000); (2.0 per 1000)	1.2	2.0	3.6	4.2	4.3	4.1	3.6	2.9	3.7	4.6	4.2	5.3	4.0
2.4	Number of unintentional injury deaths per 100,000 American Indian population[a] (17.5 per 100,000); (36.0 per 100,000)	17.5	36.0	92.6	92.6	99.2	100.6	94.8	104.5	85.4	139.0	139.1	142.0	144.5
2.5	Number of deaths caused by motor vehicle crashes per 100,000 American Indian population[a] (16 per 100,000); (12.4 per 100,000)	16.0	12.4	41.9	36.9	41.7	44.2	37.8	31.7	35.6	54.3	52.2	54.0	60.7
2.6	Number of suicides per 100,000 American Indian population[a] (10 per 100,000); (10.2 per 100,000)	10.0	10.2	13.5	15.9	18.7	14.9	17.9	21.9	13.9	19.0	24.2	26.2	36.5
2.7	Number of homicides per 100,000 American Indian population[a] (5 per 100,000); (5.5 per 100,000)	5.0	5.5	12.8	13.2	18.0	11.9	17.3	17.7	7.3	15.7	17.6	17.9	17.9
2.8	Number of deaths due to diabetes reported as the underlying or multiple cause of death per 100,000 American Indian population[a] (45 per 100,000); (65.8 per 100,000)	45.0	65.8	108.1	111.4	130.4	105.3	155.7	146.4	129.5	171.0	175.3	192.8	171.3
2.9	Number of deaths due to chronic liver disease and cirrhosis reported as the underlying cause of death per 100,000 American Indian population[a] (3 per 100,000); (8.2 per 100,000)	3.0	8.2	40.7	54.0	64.6	43.6	59.2	62.0	52.7	77.6	85.9	74.0	88.8
2.10	Number of deaths due to cancer of the uterine cervix reported as the underlying cause of death per 100,000 American Indian female population[a] (2 per 100,000); (2.2 per 100,000)	2.0	2.2	4.8	4.1	3.0	3.1	2.8	2.0	0.0	1.9	1.9	1.8	2.2

Note: [a] Age-adjusted to the 2000 US standard population.



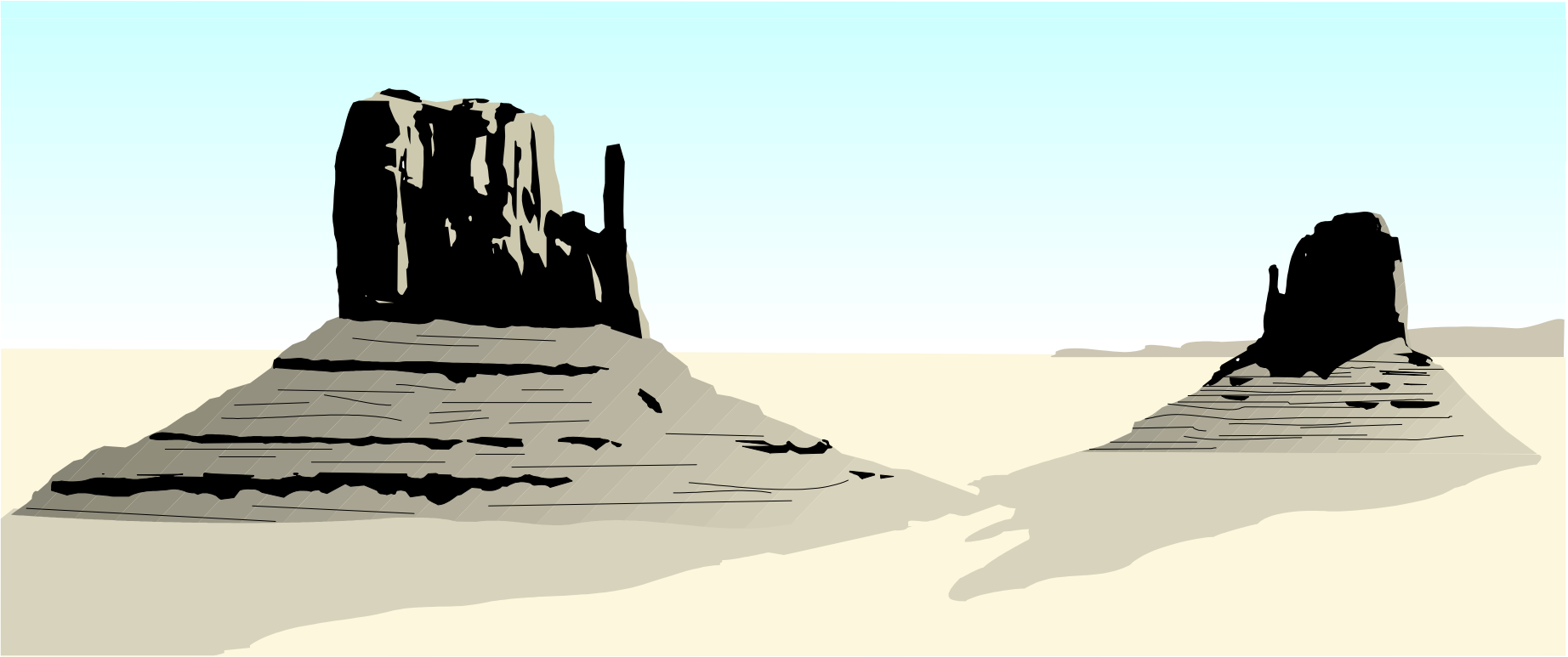
III.

Trends in Selected Health Problems and Health Risks among American Indians in Arizona

TRENDS IN SELECTED HEALTH PROBLEMS AND HEALTH RISKS AMONG AMERICAN INDIANS IN ARIZONA

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Median Age at Death from all Causes											
All Arizonans	77.0	76.0	77.0	77.0	77.0	77.0	76.0	76.0	76.0	76.0	76.0
American Indians	59.0	59.0	58.0	60.0	60.0	60.0	61.0	60.0	60.0	61.0	60.0
Births to Unmarried Mothers [a]											
All Arizonans	45.1	45.2	44.7	44.3	45.2	45.1	44.7	45.3	44.8	44.4	44.6
American Indians	75.8	76.9	77.7	77.1	78.5	79.2	78.9	79.6	78.1	77.9	78.9
Incidence of Gonorrhea [b]											
All Arizonans	52.8	49.3	50.8	71.4	89.4	98.2	112.7	121.1	151.3	180.5	182.3
American Indians	73.3	50.0	85.1	162.8	185.7	224.6	206.5	183.1	229.0	287.7	387.4
Low-Birthweight Births [a]											
All Arizonans	7.1	7.1	7.1	7.0	6.9	6.9	7.0	7.2	7.3	7.5	7.6
American Indians	6.7	6.4	7.0	6.9	6.7	7.2	6.1	7.3	7.2	7.7	7.9
Births to Teenage Mothers [a]											
All Arizonans	12.3	11.8	10.8	9.9	9.5	8.5	7.6	6.9	6.4	6.2	5.8
American Indians	18.6	19.0	17.0	16.9	16.0	14.2	11.7	11.4	10.7	10.7	9.8
Congenital Anomilies (Birth Defects) [a]											
All Arizonans	0.9	0.6	0.6	1.1	0.8	0.7	0.5	0.5	0.5	0.5	0.5
American Indians	0.9	0.8	0.6	1.4	0.9	0.8	0.8	1.0	1.2	0.8	0.9
Gestational Hypertension [c]											
All Arizonans	35.3	36.1	39.1	41.9	45.2	55.8	52.4	59.9	62.4	67.4	77.1
American Indians	58.9	55.4	61.2	62.8	64.6	74.1	85.9	102.7	104.5	112.0	127.6
Gestational Diabetes [c]											
All Arizonans	38.9	38.7	41.8	46.4	51.2	57.2	61.3	75.5	76.0	76.5	84.9
American Indians	82.0	82.2	77.9	93.3	99.3	111.4	121.5	144.7	146.4	148.0	172.6

Notes: [a] Per 100 live births; [b] Per 100,000 population; [c] Per 1,000 births.



IV.

Characteristics of American Indian Newborns and Mothers Giving Birth by Place of Residence in Arizona in 2018

Sociodemographic Characteristics

4.1
MATERNAL AGE (2018 STATUS)

		TOTAL BIRTHS	Mother's age group								
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	10†	130†	320†	1,210†	1,420†	1,030†	480†	110†	0†
Resided on reservation	**Ak-Chin Indian Community**	20†	0	*	*	*	*	*	0	0	0
	Cocopah Tribe	10†	0	0	0	6	*	*	0	0	0
	Colorado River Indian Tribe	20†	0	0	*	6	8	*	6	0	0
	Fort McDowell Yavapai Nation Reservation	10†	0	0	0	*	*	*	*	0	0
	Fort Mohave Indian Tribe	10†	0	0	*	*	*	*	0	0	0
	Gila River Indian Community	220†	0	10	16	58	61	47	21	6	*
	Havasupai Tribe	10†	0	0	0	*	*	*	*	0	0
	Hopi Tribe	60†	0	*	*	17	17	17	6	*	0
	Hualapai Tribe	20†	0	0	*	6	6	*	*	0	0
	Navajo Nation	950†	*	27	54	221	286	219	109	27	0
	Pascua Yaqui Tribe	20†	0	*	*	7	*	*	*	0	0
	Salt River Pima-Maricopa Indian Community	80†	0	*	*	18	28	19	8	0	*
	San Carlos Apache Tribe	200†	*	12	19	53	56	40	14	*	0
	Tohono O'Odham Nation	120†	0	*	6	41	25	32	13	0	0
	White Mountain Apache Tribe	250†	*	16	14	69	78	44	22	*	0
	Yavapai-Apache Nation	10†	0	0	0	*	*	*	0	0	0
	Yavapai-Prescott Indian Tribe	0†	0	0	0	0	*	0	0	0	0
	TOTAL	1,990†	10†	80†	130†	520†	580†	440†	210†	40†	0†
Resided off reservation	**---in Maricopa County**	1,270†	0	22	79	320	389	293	129	33	*
	---in Pima County	318	0	7	23	81	100	65	36	6	0
	---in Coconino County	319	0	9	19	78	105	70	31	7	0
	---elsewhere in Arizona	820†	*	19	75	210	247	163	77	22	*
	TOTAL	2,720†	0†	57	196	689	841	591	273	68	0†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

4.2
EDUCATIONAL ATTAINMENT OF MOTHER (2018 STATUS)

		TOTAL BIRTHS	Mother's education							
			8th Grade or Less	Some High School	High School / GED	Some College	Associate Degree	Bachelor's Degree	Post-graduate Education	Un-known
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	90†	1,070†	1,690†	1,250†	360†	170†	70†	10†
Resided on reservation	**Ak-Chin Indian Community**	20†	*	*	9	0	0	0	0	0
	Cocopah Tribe	10†	*	*	*	0	0	0	0	0
	Colorado River Indian Tribe	20†	0	*	10	8	0	0	0	0
	Fort McDowell Yavapai Nation Reservation	10†	0	0	*	*	*	0	*	0
	Fort Mohave Indian Tribe	10†	0	0	7	*	0	0	0	0
	Gila River Indian Community	220†	18	87	79	23	9	*	*	0
	Havasupai Tribe	10†	0	*	*	*	0	0	0	*
	Hopi Tribe	64	0	15	28	15	6	0	0	0
	Hualapai Tribe	20†	0	6	10	*	0	0	0	0
	Navajo Nation	945	11	144	344	288	111	31	13	*
	Pascua Yaqui Tribe	20†	0	*	*	6	0	*	0	0
	Salt River Pima-Maricopa Indian Community	80†	*	30	32	15	*	*	*	0
	San Carlos Apache Tribe	200†	8	65	78	36	6	*	*	0
	Tohono O'Odham Nation	120†	*	36	53	20	6	*	*	0
	White Mountain Apache Tribe	250†	7	92	103	40	*	*	*	0
	Yavapai-Apache Nation	10†	0	*	*	*	0	*	0	0
	Yavapai-Prescott Indian Tribe	0†	0	0	*	0	0	0	0	0
	TOTAL	1,990†	50†	500†	770†	460†	150†	40†	20†	0†
Resided off reservation	**---in Maricopa County**	1,266	17	263	390	400	107	66	21	*
	---in Pima County	318	10	82	113	73	15	15	9	*
	---in Coconino County	320†	*	49	121	87	31	15	12	*
	---elsewhere in Arizona	816	13	181	287	227	65	33	7	*
	TOTAL	2,719	40†	575	911	787	218	129	49	10†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

4.3
MARITAL STATUS OF MOTHER (2018 STATUS)

		TOTAL BIRTHS	Marital status		
			Married	Unmarried	Unknown
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	930†	3,710†	70†
Resided on reservation	**Ak-Chin Indian Community**	20†	*	12	*
	Cocopah Tribe	9	0	9	0
	Colorado River Indian Tribe	20†	6	16	*
	Fort McDowell Yavapai Nation Reservation	10†	*	7	0
	Fort Mohave Indian Tribe	10†	*	*	0
	Gila River Indian Community	220†	30	185	*
	Havasupai Tribe	9	0	9	0
	Hopi Tribe	60†	*	60	0
	Hualapai Tribe	19	0	19	0
	Navajo Nation	945	192	739	14
	Pascua Yaqui Tribe	20†	*	15	0
	Salt River Pima-Maricopa Indian Community	80†	7	74	*
	San Carlos Apache Tribe	200†	34	158	*
	Tohono O'Odham Nation	120†	12	107	*
	White Mountain Apache Tribe	248	66	176	6
	Yavapai-Apache Nation	10†	0	*	0
	Yavapai-Prescott Indian Tribe	0†	0	*	0
	TOTAL	1,990†	360†	1,600†	30†
Resided off reservation	**---in Maricopa County**	1,266	275	977	14
	---in Pima County	320†	64	249	*
	---in Coconino County	320†	63	255	*
	---elsewhere in Arizona	816	168	636	12
	TOTAL	2,719	570	2,117	30†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

4.4
RACE/ETHNICITY OF FATHER (2018 STATUS)

		TOTAL BIRTHS	Father's race/ethnicity				
			White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	1,330†	590†	90†	2,670†	40†
Resided on reservation	**Ak-Chin Indian Community**	20†	6	0	*	8	0
	Cocopah Tribe	10†	*	*	0	*	0
	Colorado River Indian Tribe	20†	11	*	*	8	0
	Fort McDowell Yavapai Nation Reservation	10†	*	*	0	*	0
	Fort Mohave Indian Tribe	10†	*	*	0	*	0
	Gila River Indian Community	220†	64	29	*	122	*
	Havasupai Tribe	10†	*	0	0	*	0
	Hopi Tribe	60†	14	*	0	48	*
	Hualapai Tribe	19	8	0	0	11	0
	Navajo Nation	950†	177	10	*	756	0
	Pascua Yaqui Tribe	20†	*	6	*	6	0
	Salt River Pima-Maricopa Indian Community	80†	26	11	*	45	0
	San Carlos Apache Tribe	200†	65	6	*	122	0
	Tohono O'Odham Nation	120†	35	*	0	80	*
	White Mountain Apache Tribe	248	58	6	0	184	0
	Yavapai-Apache Nation	10†	*	*	0	*	0
	Yavapai-Prescott Indian Tribe	0†	0	*	0	0	0
	TOTAL	1,990†	480†	80†	10†	1,410†	0†
Resided off reservation	**---in Maricopa County**	1,266	361	322	59	507	17
	---in Pima County	318	114	69	11	116	8
	---in Coconino County	320†	94	21	*	201	*
	---elsewhere in Arizona	820†	274	93	11	434	*
	TOTAL	2,719	843	505	80†	1,258	30†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

4.5
AGE OF FATHER (2018 STATUS)

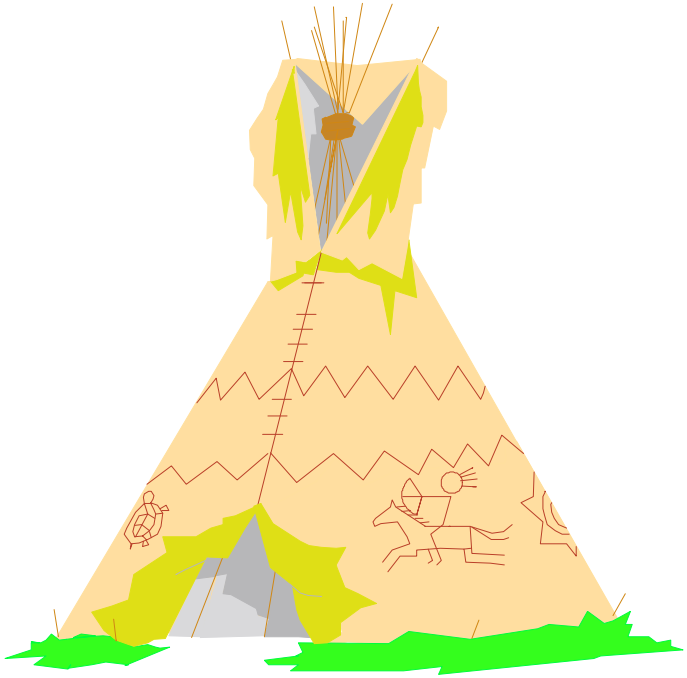
		TOTAL BIRTHS	Father's age group											
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55+	Unknown
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	0†	60†	190†	760†	1,050†	870†	520†	220†	70†	30†	10†	950†
Resided on reservation	**Ak-Chin Indian Community**	20†	0	0	0	*	*	*	0	0	0	0	0	6
	Cocopah Tribe	10†	0	0	0	*	*	*	0	0	0	0	0	*
	Colorado River Indian Tribe	20†	0	0	*	*	*	*	*	0	0	0	0	7
	Fort McDowell Yavapai Nation Reservation	10†	0	0	0	*	*	*	0	0	*	0	0	*
	Fort Mohave Indian Tribe	10†	0	0	*	*	*	*	0	0	0	0	0	*
	Gila River Indian Community	220†	0	*	15	41	42	34	15	*	*	*	*	58
	Havasupai Tribe	10†	0	0	0	*	0	*	0	0	0	0	0	*
	Hopi Tribe	60†	0	*	*	10	18	11	*	7	0	0	0	12
	Kaibab Indian Reservation	20†	0	0	*	*	*	*	*	*	0	0	0	7
	Navajo Nation	950†	0	15	39	141	213	188	122	55	18	11	*	141
	Pascua Yaqui Tribe	20†	0	*	*	7	*	*	*	0	0	0	0	*
	Salt River Pima-Maricopa Indian Community	80†	0	*	*	10	20	9	10	*	0	*	0	24
	San Carlos Apache Tribe	200†	0	*	9	42	40	24	13	*	*	0	0	57
	Tohono O'Odham Nation	120†	0	*	6	18	26	21	10	*	*	*	0	33
	White Mountain Apache Tribe	250†	*	8	10	38	60	40	30	8	*	*	0	49
	Yavapai-Apache Nation	10†	0	0	*	*	*	0	0	*	0	0	0	*
	Yavapai-Prescott Indian Tribe	0†	0	0	0	0	0	0	*	0	0	0	0	0
	TOTAL	1,990†	0†	30†	90†	330†	430†	350†	210†	90†	30†	20†	0†	410†
Resided off reservation	**---in Maricopa County**	1,270†	0	10	39	208	303	246	161	66	12	6	*	213
	---in Pima County	320†	0	*	16	50	62	63	30	12	8	*	*	73
	---in Coconino County	320†	0	*	*	48	72	72	36	14	*	0	0	66
	---elsewhere in Arizona	816	0	8	38	122	182	137	81	41	14	6	0	187
	TOTAL	2,720†	0	20†	100†	428	619	518	308	133	40†	10†	0†	539

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

4.6
SOURCE OF PAYMENT FOR LABOR AND DELIVERY (2018 STATUS)

		TOTAL BIRTHS	Payer for births				
			AHCCCS[a]	IHS	Private insurance	Self-pay	Unknown
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	3,140†	850†	580†	110†	40†
Resided on reservation	**Ak-Chin Indian Community**	20†	*	12	0	0	0
	Cocopah Tribe	9	9	0	0	0	0
	Colorado River Indian Tribe	23	15	8	0	0	0
	Fort McDowell Yavapai Nation Reservation	10†	*	*	*	*	0
	Fort Mohave Indian Tribe	10†	6	*	*	0	0
	Gila River Indian Community	220†	93	100	25	*	0
	Havasupai Tribe	10†	8	*	0	0	0
	Hopi Tribe	60†	58	*	*	0	0
	Hualapai Tribe	20†	13	*	*	0	0
	Navajo Nation	945	802	66	59	12	6
	Pascua Yaqui Tribe	16	9	7	0	0	0
	Salt River Pima-Maricopa Indian Community	80†	56	13	10	*	*
	San Carlos Apache Tribe	200†	32	149	12	*	0
	Tohono O'Odham Nation	120†	39	58	18	*	*
	White Mountain Apache Tribe	250†	222	10	14	*	0
	Yavapai-Apache Nation	10†	*	0	0	0	0
	Yavapai-Prescott Indian Tribe	0†	0	0	*	0	0
	TOTAL	1,990†	1,370†	430†	150†	30†	10†
Resided off reservation	**---in Maricopa County**	1,266	855	159	218	18	16
	---in Pima County	320†	172	86	57	*	*
	---in Coconino County	320†	239	30	41	*	*
	---elsewhere in Arizona	816	502	136	111	56	11
	TOTAL	2,719	1,768	411	427	80†	30†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; [a] The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.



Maternal Lifestyle and Health Characteristics

4.7
MATERNAL WEIGHT GAIN DURING PREGNANCY (2018 STATUS)

		TOTAL BIRTHS	Weight gain			
			Inadequate	Adequate	Excessive	Unknown
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	1,100†	1,330†	2,230†	50†
Resided on reservation	**Ak-Chin Indian Community**	20†	0	*	11	0
	Cocopah Tribe	10†	*	*	*	0
	Colorado River Indian Tribe	20†	*	11	8	0
	Fort McDowell Yavapai Nation Reservation	10†	*	0	*	0
	Fort Mohave Indian Tribe	10†	*	*	*	0
	Gila River Indian Community	220†	32	54	133	*
	Havasupai Tribe	10†	*	0	*	*
	Hopi Tribe	64	18	24	22	0
	Hualapai Tribe	20†	6	*	12	0
	Navajo Nation	945	280	277	378	10
	Pascua Yaqui Tribe	20†	7	*	*	0
	Salt River Pima-Maricopa Indian Community	80†	16	20	45	*
	San Carlos Apache Tribe	196	40	50	106	0
	Tohono O'Odham Nation	120†	22	28	69	*
	White Mountain Apache Tribe	250†	42	72	131	*
	Yavapai-Apache Nation	10†	*	*	*	0
	Yavapai-Prescott Indian Tribe	0†	0	0	*	0
	TOTAL	1,990†	480†	560†	940†	20†
Resided off reservation	**---in Maricopa County**	1,266	259	364	635	8
	---in Pima County	320†	78	74	163	*
	---in Coconino County	320†	83	95	140	*
	---elsewhere in Arizona	816	201	240	355	20
	TOTAL	2,719	621	773	1,293	30†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

4.8
MEDICAL RISK FACTORS OF PREGNANCY (2018 STATUS)

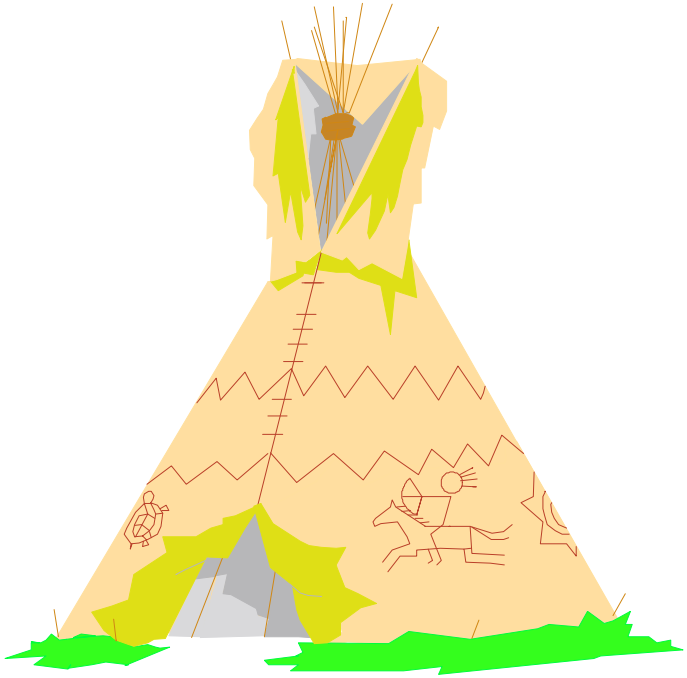
		TOTAL BIRTHS	Births with medical risk factors	Medical risk factors[a]											
				Pre-existing diabetes	Gestational diabetes	Pre-existing hypertension	Gestational hypertension	Eclampsia	Previous preterm birth	Other previous poor pregnancy outcome	Gonorrhea	Syphilis	Chlamydia	Hepatitis B	Hepatitis C
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	1,961	1	4	0	2	0†	2	2	0	0	0	0†	0
Resided on reservation	**Ak-Chin Indian Community**	15	10†	*	0	0	*	0	*	0	0	0	0	0	0
	Cocopah Tribe	9	0†	*	*	0	*	0	0	0	0	0	*	0	0
	Colorado River Indian Tribe	23	0†	0	*	0	*	0	0	0	0	0	0	0	0
	Fort McDowell Yavapai Nation Reservation	8	0†	*	0	0	0	0	0	0	0	0	*	0	0
	Fort Mohave Indian Tribe	9	0†	14	37	8	36	0	*	0	*	*	14	0	*
	Gila River Indian Community	220	90†	*	*	0	*	0	*	*	0	0	*	0	0
	Havasupai Tribe	9	0†	*	10	*	10	0	8	*	0	0	6	0	0
	Hopi Tribe	64	30†	*	*	0	0	0	0	0	0	0	*	0	0
	Hualapai Tribe	19	10†	35	169	19	114	*	49	25	21	*	101	0	*
	Navajo Nation	945	410†	0	*	0	*	0	0	0	0	0	*	0	0
	Pascua Yaqui Tribe	16	10†	*	14	*	*	0	*	0	*	6	*	*	*
	Salt River Pima-Maricopa Indian Community	83	30†	*	29	*	41	*	10	*	*	7	16	0	0
	San Carlos Apache Tribe	196	90†	6	26	6	20	*	16	8	*	0	12	0	0
	Tohono O'Odham Nation	120	70†	6	46	*	30	*	32	8	6	0	20	0	*
	White Mountain Apache Tribe	248	120†	0	0	0	0	0	*	0	0	0	0	0	0
	Yavapai-Apache Nation	5	1	0	0	0	0	0	0	0	0	0	0	0	0
	Yavapai-Prescott Indian Tribe	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	1,990†	870†	80†	340†	50†	270†	10†	120†	40†	40†	20†	180†	0†	10†
Resided off reservation	**---in Maricopa County**	1,266	490†	40	251	19	130	0	59	23	8	6	67	*	*
	---in Pima County	318	160†	10	62	11	56	0	27	12	*	0	23	*	*
	---in Coconino County	319	110†	6	48	*	46	*	15	*	*	*	20	0	0
	---elsewhere in Arizona	816	340†	35	108	17	101	*	28	61	*	6	56	0	6
	TOTAL	2,719	1,090	91	469	50†	333	10†	129	100†	20†	10†	166	0†	10†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; [a] Medical risk factors do not sum to the number of births with medical risk factors as each birth may be associated with multiple medical risk factors.

4.9
SMOKING DURING PREGNANCY (2018 STATUS)

		TOTAL BIRTHS	Smoking during pregnancy			
			Non Smoker	Light Smoker	Heavy Smoker	Unknown
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	4,330†	120†	40†	210†
Resided on reservation	**Ak-Chin Indian Community**	20†	12	*	0	0
	Cocopah Tribe	9	9	0	0	0
	Colorado River Indian Tribe	20†	22	0	*	0
	Fort McDowell Yavapai Nation Reservation	8	8	0	0	0
	Fort Mohave Indian Tribe	9	9	0	0	0
	Gila River Indian Community	220†	205	14	*	0
	Havasupai Tribe	9	9	0	0	0
	Hopi Tribe	64	64	0	0	0
	Hualapai Tribe	20†	17	*	*	0
	Navajo Nation	945	923	15	7	0
	Pascua Yaqui Tribe	20†	15	*	0	0
	Salt River Pima-Maricopa Indian Community	80†	79	*	*	0
	San Carlos Apache Tribe	200†	183	8	*	0
	Tohono O'Odham Nation	120†	116	*	*	0
	White Mountain Apache Tribe	250†	230	17	*	0
	Yavapai-Apache Nation	10†	*	0	*	0
	Yavapai-Prescott Indian Tribe	0†	*	0	0	0
	TOTAL	1,990†	1,910†	60†	20†	0
Resided off reservation	**---in Maricopa County**	1,266	1,227	19	13	7
	---in Pima County	320†	296	16	*	*
	---in Coconino County	320†	312	*	0	*
	---elsewhere in Arizona	820†	593	20	*	200
	TOTAL	2,719	2,428	60†	20†	210†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.



Utilization of Medical Services

4.10
TRIMESTER OF PREGNANCY PRENATAL CARE BEGAN (2018 STATUS)

		TOTAL BIRTHS	Prenatal care				
			No care	1st trimester	2nd trimester	3rd trimester	Unknown
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	240†	2,660†	1,150†	450†	220†
Resided on reservation	**Ak-Chin Indian Community**	20†	*	6	6	*	0
	Cocopah Tribe	10†	*	*	*	*	0
	Colorado River Indian Tribe	20†	*	0	*	*	15
	Fort McDowell Yavapai Nation Reservation	10†	*	*	*	*	0
	Fort Mohave Indian Tribe	10†	0	*	*	0	*
	Gila River Indian Community	220	9	101	75	26	9
	Havasupai Tribe	10†	*	*	*	*	*
	Hopi Tribe	64	0	31	20	10	*
	Hualapai Tribe	20†	*	8	*	*	*
	Navajo Nation	945	26	614	206	71	28
	Pascua Yaqui Tribe	20†	*	13	*	0	0
	Salt River Pima-Maricopa Indian Community	83	11	47	12	10	*
	San Carlos Apache Tribe	196	17	76	47	49	7
	Tohono O'Odham Nation	120	15	62	31	11	*
	White Mountain Apache Tribe	248	9	142	62	32	*
	Yavapai-Apache Nation	10†	0	*	*	0	*
	Yavapai-Prescott Indian Tribe	0†	0	0	*	0	0
	TOTAL	1,990†	100†	1,120†	480†	220†	70†
Resided off reservation	**---in Maricopa County**	1,266	62	733	303	111	57
	---in Pima County	318	22	175	92	23	6
	---in Coconino County	319	8	210	56	20	25
	---elsewhere in Arizona	816	50	421	216	72	57
	TOTAL	2,719	142	1,539	667	226	145

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

4.11
NUMBER OF PRENATAL VISITS (2018 STATUS)

		TOTAL BIRTHS	Prenatal visits					
			No visits	1-4 visits	5-8 visits	9-12 visits	13+ visits	Un-known
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	240†	530†	1,220†	1,750†	870†	110†
Resided on reservation	**Ak-Chin Indian Community**	20†	*	*	*	*	*	0
	Cocopah Tribe	10†	*	*	6	0	*	0
	Colorado River Indian Tribe	20†	*	*	7	6	*	*
	Fort McDowell Yavapai Nation Reservation	10†	*	*	*	*	*	0
	Fort Mohave Indian Tribe	10†	0	0	0	8	*	0
	Gila River Indian Community	220	9	29	44	88	46	*
	Havasupai Tribe	10†	*	*	*	0	*	*
	Hopi Tribe	64	0	7	23	19	13	*
	Hualapai Tribe	20†	*	*	6	*	*	*
	Navajo Nation	945	26	76	217	366	240	20
	Pascua Yaqui Tribe	20†	*	0	6	*	6	0
	Salt River Pima-Maricopa Indian Community	83	11	12	10	35	13	*
	San Carlos Apache Tribe	196	17	56	73	34	15	*
	Tohono O'Odham Nation	120	15	20	41	35	8	*
	White Mountain Apache Tribe	248	9	31	83	94	29	*
	Yavapai-Apache Nation	10†	0	0	*	*	0	*
	Yavapai-Prescott Indian Tribe	0†	0	0	0	*	0	0
	TOTAL	1,990†	100†	250†	530†	700†	380†	40†
Resided off reservation	**---in Maricopa County**	1,266	62	125	312	508	240	19
	---in Pima County	318	22	46	96	107	42	*
	---in Coconino County	319	8	15	93	126	57	20
	---elsewhere in Arizona	816	50	90	198	304	148	26
	TOTAL	2,719	142	276	699	1,045	487	70†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

4.12
OBSTETRIC PROCEDURES (2018 STATUS)

		TOTAL BIRTHS	Births with obstetrics procedure	Obstetric procedures[a]					
				Induction of labor	Augmentation of labor	Cervical cerclage	Tocolysis	External cephalic version successful	External cephalic version failed
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	2,280†	1,460†	1,180†	0†	40†	10†	10†
Resided on reservation	**Ak-Chin Indian Community**	20†	*	*	*	0	0	0	0
	Cocopah Tribe	10†	*	*	*	0	0	0	0
	Colorado River Indian Tribe	20†	*	*	*	0	0	0	0
	Fort McDowell Yavapai Nation Reservation	10†	*	*	*	0	0	0	0
	Fort Mohave Indian Tribe	10†	7	6	*	0	0	0	0
	Gila River Indian Community	220†	76	52	37	0	*	0	0
	Havasupai Tribe	10†	6	*	*	0	0	0	0
	Hopi Tribe	60†	33	19	17	0	*	0	*
	Hualapai Tribe	20†	8	*	*	0	0	0	0
	Navajo Nation	950†	471	316	217	0	*	*	*
	Pascua Yaqui Tribe	20†	14	6	7	0	*	0	0
	Salt River Pima-Maricopa Indian Community	83	19	16	9	0	0	0	0
	San Carlos Apache Tribe	200†	112	74	57	0	7	*	*
	Tohono O'Odham Nation	120	77	44	37	0	6	0	0
	White Mountain Apache Tribe	250†	117	65	52	0	*	0	0
	Yavapai-Apache Nation	10†	*	*	*	0	0	0	0
	Yavapai-Prescott Indian Tribe	1	0	0	0	0	0	0	0
	TOTAL	1,990†	960†	620†	450†	0	20†	0†	10†
Resided off reservation	**---in Maricopa County**	1,270†	563	358	334	0	*	*	*
	---in Pima County	320†	220	111	122	0	13	0	*
	---in Coconino County	320†	150	114	92	0	*	*	0
	---elsewhere in Arizona	820†	388	253	176	*	*	*	*
	TOTAL	2,720†	1,321	836	724	0†	20†	10†	10†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; [a] Obstetric procedures do not sum to the number of total births as each birth may be associated with multiple obstetric procedures.

4.13
COMPLICATIONS OF LABOR AND DELIVERY (2018 STATUS)

		TOTAL BIRTHS	Births with complications of labor and or delivery	Births with complications of labor and delivery[a]												
				Premature rupture of the membranes	Precipitous labor	Prolonged labor	Breech presentation	Chorioamnionitis	Meconium staining of the amniotic fluid	Fetal intolerance	Maternal transfusion	Third or fourth degree perineal laceration	Ruptured uterus	Unplanned Hysterectomy	Admission to intensive care unit	Unplanned surgery following delivery
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	1,440†	330†	260†	160†	180†	110†	370†	280†	90†	30†	0†	0†	10†	30†
Resided on reservation	**Ak-Chin Indian Community**	15	0†	*	0	0	*	0	*	0	0	0	0	0	0	0
	Cocopah Tribe	9	0†	0	*	*	0	*	*	0	0	0	0	0	0	0
	Colorado River Indian Tribe	23	10†	*	*	0	0	0	*	*	0	0	0	0	0	0
	Fort McDowell Yavapai Nation Reservation	8	0†	0	*	0	*	0	*	0	*	0	0	0	*	0
	Fort Mohave Indian Tribe	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Gila River Indian Community	220	80†	10	*	7	15	*	33	11	*	*	0	0	0	*
	Havasupai Tribe	9	0†	0	0	0	*	0	0	0	0	0	0	0	0	0
	Hopi Tribe	64	20†	*	*	*	*	*	*	*	*	0	0	0	0	*
	Hualapai Tribe	19	0†	0	*	0	*	0	0	*	*	0	0	0	0	0
	Navajo Nation	945	300†	90	70	24	36	19	58	51	27	*	*	*	*	15
	Pascua Yaqui Tribe	16	10†	*	*	0	0	*	*	*	0	0	0	0	0	0
	Salt River Pima-Maricopa Indian Community	83	20†	*	*	0	*	0	*	*	0	*	0	0	0	0
	San Carlos Apache Tribe	196	80†	12	10	12	10	*	17	28	9	0	0	0	0	0
	Tohono O'Odham Nation		50†	13	15	9	*	*	10	*	*	0	*	*	*	0
	White Mountain Apache Tribe	248	60†	6	20	16	9	*	14	*	*	0	0	0	*	0
	Yavapai-Apache Nation	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Yavapai-Prescott Indian Tribe	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	1,990†	610†	140†	130†	70†	80†	40†	150†	110†	50†	10†	0†	0†	10†	20†
Resided off reservation	**---in Maricopa County**	1,266	110†	91	57	41	46	34	112	97	10	14	0	0	*	*
	---in Pima County	318	80†	31	27	15	*	13	21	8	14	*	0	0	*	*
	---in Coconino County	319	240†	22	16	11	*	9	14	20	6	*	*	0	*	*
	---elsewhere in Arizona	816	610†	44	32	27	40	14	73	43	16	*	0	0	0	*
	TOTAL	2,719	831	188	132	94	100†	70	220	168	46	20†	0†	0	10†	10†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; [a] Complications of labor and/or delivery do not sum to the sum of births with complications of labor and/or delivery as each birth may be associated with multiple complications.

4.14
METHOD OF DELIVERY (2018 STATUS)

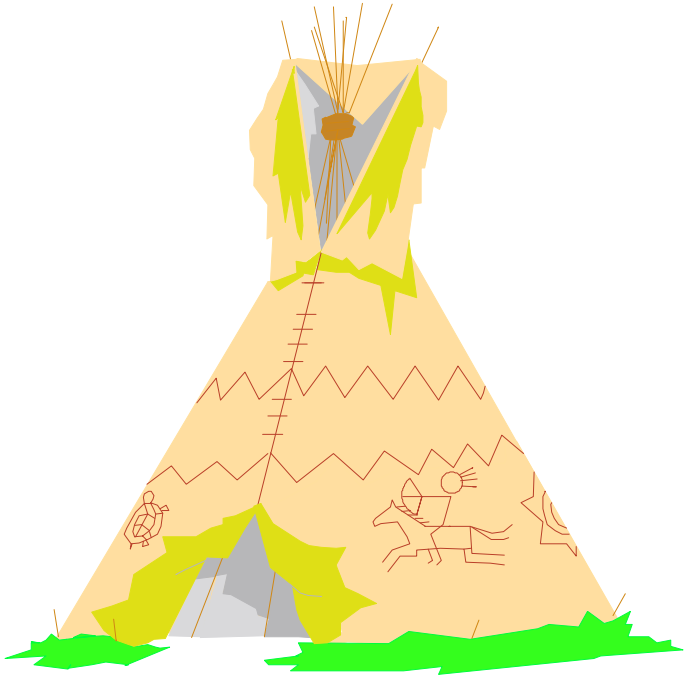
		TOTAL BIRTHS	Method of delivery[a]			
			Vaginal	C-Section	Forceps	Vacuum
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	3,450†	1,190†	10†	60†
Resided on reservation	**Ak-Chin Indian Community**	15	11	*	0	*
	Cocopah Tribe	9	*	*	0	0
	Colorado River Indian Tribe	23	18	*	0	0
	Fort McDowell Yavapai Nation Reservation	8	7	*	0	0
	Fort Mohave Indian Tribe	9	*	*	0	*
	Gila River Indian Community	220	137	81	*	*
	Havasupai Tribe	9	7	*	0	0
	Hopi Tribe	64	50	14	0	0
	Hualapai Tribe	19	12	7	0	0
	Navajo Nation	945	789	151	*	*
	Pascua Yaqui Tribe	16	13	*	0	0
	Salt River Pima-Maricopa Indian Community	83	62	20	0	*
	San Carlos Apache Tribe	196	132	58	0	6
	Tohono O'Odham Nation	120	96	24	0	0
	White Mountain Apache Tribe	248	152	85	0	11
	Yavapai-Apache Nation	*	*	*	0	0
	Yavapai-Prescott Indian Tribe	*	*	0	0	0
	TOTAL	1,990†	1,500†	460†	0†	30†
Resided off reservation	**---in Maricopa County**	1,266	875	373	*	16
	---in Pima County	318	261	56	0	*
	---in Coconino County	319	250	66	0	*
	---elsewhere in Arizona	816	566	232	*	17
	TOTAL	2,720†	1,952	727	0†	40†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; [a] Method of delivery does not sum to the number of total births as each birth may be associated with multiple methods of delivery.

4.15
ATTENDANT AT BIRTH (2018 STATUS)

		TOTAL BIRTHS	M.D.	C.N.M / C.M.	Hospital admin	Midwife	D.O.	Other	Un-known
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	2,790†	1,210†	0	0	470†	240†	10†
Resided on reservation	**Ak-Chin Indian Community**	20†	11	0	0	0	*	0	0
	Cocopah Tribe	10†	8	0	0	0	*	0	0
	Colorado River Indian Tribe	20†	22	0	0	0	*	0	0
	Fort McDowell Yavapai Nation Reservation	10†	7	0	0	0	*	0	0
	Fort Mohave Indian Tribe	9	9	0	0	0	0	0	0
	Gila River Indian Community	220†	169	*	0	0	48	0	*
	Havasupai Tribe	10†	8	0	0	0	*	0	0
	Hopi Tribe	60†	34	28	0	0	*	0	0
	Hualapai Tribe	20†	13	0	0	0	*	*	0
	Navajo Nation	950†	248	664	0	0	31	*	0
	Pascua Yaqui Tribe	20†	11	*	0	0	0	0	0
	Salt River Pima-Maricopa Indian Community	80†	51	19	0	0	11	*	*
	San Carlos Apache Tribe	200†	190	*	0	0	*	0	0
	Tohono O'Odham Nation	120†	112	0	0	0	7	*	0
	White Mountain Apache Tribe	248	106	0	0	0	134	8	0
	Yavapai-Apache Nation	10†	*	*	0	0	0	0	0
	Yavapai-Prescott Indian Tribe	0†	*	0	0	0	0	0	0
	TOTAL	1,990†	1,000†	720†	0	0	250†	10†	0†
Resided off reservation	**---in Maricopa County**	1,266	900	270	0	0	87	6	*
	---in Pima County	320†	266	41	0	0	9	*	0
	---in Coconino County	319	213	82	0	0	17	7	0
	---elsewhere in Arizona	816	403	96	0	0	109	208	0
	TOTAL	2,719	1,782	489	0	0	222	220†	0†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.



Newborn’s Health

4.16
GESTATIONAL AGE (2018 STATUS)

		TOTAL BIRTHS	Length of gestation			
			<37 weeks	37-41 weeks	42+ weeks	Unknown
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	490†	4,170†	10†	30†
Resided on reservation	**Ak-Chin Indian Community**	20†	*	13	0	0
	Cocopah Tribe	10†	*	6	0	0
	Colorado River Indian Tribe	20†	*	19	0	0
	Fort McDowell Yavapai Nation Reservation	10†	*	6	0	0
	Fort Mohave Indian Tribe	10†	*	8	0	0
	Gila River Indian Community	220	36	184	0	0
	Havasupai Tribe	10†	*	6	0	*
	Hopi Tribe	60†	*	59	0	*
	Hualapai Tribe	20†	*	14	0	*
	Navajo Nation	950†	71	861	*	10
	Pascua Yaqui Tribe	20†	*	15	0	0
	Salt River Pima-Maricopa Indian Community	80†	9	72	*	*
	San Carlos Apache Tribe	196	31	165	0	0
	Tohono O'Odham Nation	120	19	100	0	*
	White Mountain Apache Tribe	248	35	212	0	*
	Yavapai-Apache Nation	10†	0	*	0	0
	Yavapai-Prescott Indian Tribe	0†	0	*	0	0
	TOTAL	1,270†	220†	1,750†	0†	20†
Resided off reservation	**---in Maricopa County**	1,266	114	1,137	9	6
	---in Pima County	320†	27	289	*	*
	---in Coconino County	319	23	294	0	*
	---elsewhere in Arizona	816	104	708	0	*
	TOTAL	2,719	268	2,428	10†	10†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

4.17
WEIGHT AT BIRTH (2018 STATUS)

		TOTAL BIRTHS	Weight at birth					
			<1,000 grams	1,000-1,499	1,500-2,499	2,500-3,999	4000+	Un-known
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	30†	30†	310†	3,900†	430†	0†
Resided on reservation	**Ak-Chin Indian Community**	20†	0	0	*	7	6	0
	Cocopah Tribe	10†	*	0	0	*	*	0
	Colorado River Indian Tribe	20†	0	0	*	22	0	0
	Fort McDowell Yavapai Nation Reservation	10†	0	0	*	*	*	0
	Fort Mohave Indian Tribe	9	0	0	0	9	0	0
	Gila River Indian Community	220†	*	*	13	183	19	0
	Havasupai Tribe	10†	*	0	*	7	0	0
	Hopi Tribe	60†	*	0	*	58	*	0
	Hualapai Tribe	20†	0	0	*	17	0	0
	Navajo Nation	950†	0	*	49	812	78	*
	Pascua Yaqui Tribe	20†	0	0	0	15	*	0
	Salt River Pima-Maricopa Indian Community	80†	0	*	8	66	8	0
	San Carlos Apache Tribe	200†	*	*	11	163	19	0
	Tohono O'Odham Nation	120	0	0	17	96	7	0
	White Mountain Apache Tribe	250†	*	*	27	201	14	0
	Yavapai-Apache Nation	10†	0	0	0	*	0	0
	Yavapai-Prescott Indian Tribe	0†	0	0	0	*	0	0
	TOTAL	1,990†	10†	10†	130†	1,670†	160†	0†
Resided off reservation	**---in Maricopa County**	1,266	11	9	59	1,027	160	0
	---in Pima County	320†	*	*	24	267	22	0
	---in Coconino County	320†	*	*	23	269	23	*
	---elsewhere in Arizona	816	6	8	69	667	65	*
	TOTAL	2,719	20†	20†	175	2,230	270	0†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

4.18
ABNORMAL CONDITIONS OF THE NEWBORN (2018 STATUS)

		TOTAL BIRTHS	Births with abnormal conditions of the newborn	Abnormal conditions[a]					
				Assisted ventilation immediately after delivery	Assisted ventilation for more than 6 hours	Surfactant replacement therapy	Suspected neonatal sepsis	Seizure or serious neurologic dysfunction	Significant birth injury
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,710†	252	150†	100†	20†	110†	0†	0†
Resided on reservation	**Ak-Chin Indian Community**	15	0	0	0	0	0	0	0
	Cocopah Tribe	9	0	0	0	0	0	0	0
	Colorado River Indian Tribe	23	*	*	0	0	0	0	0
	Fort McDowell Yavapai Nation Reservation	8	*	*	*	0	0	0	0
	Fort Mohave Indian Tribe	9	0	0	0	0	0	0	0
	Gila River Indian Community	220	19	13	8	*	12	0	0
	Havasupai Tribe	9	*	*	*	0	0	0	0
	Hopi Tribe	64	*	*	0	0	*	0	0
	Hualapai Tribe	19	*	*	0	0	*	0	0
	Navajo Nation	945	32	24	9	*	12	0	*
	Pascua Yaqui Tribe	16	*	0	*	0	*	0	0
	Salt River Pima-Maricopa Indian Community	83	7	*	*	*	*	0	0
	San Carlos Apache Tribe	196	7	*	*	0	*	0	0
	Tohono O'Odham Nation	120	7	*	*	0	*	0	0
	White Mountain Apache Tribe	248	24	16	11	6	12	0	0
	Yavapai-Apache Nation	*	0	0	0	0	0	0	0
	Yavapai-Prescott Indian Tribe	*	0	0	0	0	0	0	0
	TOTAL	1,270†	110†	70†	40†	10†	50†	0	0†
Resided off reservation	**---in Maricopa County**	318	58	33	16	7	29	0	*
	---in Pima County	319	13	7	8	*	7	0	0
	---in Coconino County	816	19	12	*	0	*	0	*
	---elsewhere in Arizona	1,990	57	28	31	*	22	*	0
	TOTAL	2,719	147	80	60†	10†	60†	0†	0†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; [a] Abnormal conditions do not sum to the number of births with abnormal conditions of the newborn as each birth may be associated with multiple abnormal conditions.

4.19
CONGENITAL ANOMALIES / BIRTH DEFECTS (2018 STATUS)

		TOTAL BIRTHS	Births with congenital anomalies	Congenital anomalies of the newborn[a]										
				Anencephalus	Spina bifida / Meningocele	Cyanotic congenital heart disease	Congential diaphragmatic hernia	Omphalocele / Gastroschisis	Limb reduction defect	Cleft lip / palate	Down syndrome	Suspected chromosomal disorder	Hypospadias	Unknown congenital anomalies
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		4,709	43	0	0†	10†	0	0†	0†	10†	0†	10†	0†	10†
Resided on reservation	**Ak-Chin Indian Community**	15	0	0	0	0	0	0	0	0	0	0	0	0
	Cocopah Tribe	9	0	0	0	0	0	0	0	0	0	0	0	0
	Colorado River Indian Tribe	23	*	0	0	0	0	0	0	0	0	0	0	*
	Fort McDowell Yavapai Nation Reservation	8	0	0	0	0	0	0	0	0	0	0	0	0
	Fort Mohave Indian Tribe	9	0	0	0	0	0	0	0	0	0	0	0	0
	Gila River Indian Community	220	*	0	0	0	0	0	0	0	0	*	0	0
	Havasupai Tribe	9	0	0	0	0	0	0	0	0	0	0	0	0
	Hopi Tribe	64	*	0	0	0	0	0	0	0	0	0	0	*
	Hualapai Tribe	19	0	0	0	0	0	0	0	0	0	0	0	0
	Navajo Nation	945	8	0	0	0	0	0	*	*	0	0	*	*
	Pascua Yaqui Tribe	16	0	0	0	0	0	0	0	0	0	0	0	0
	Salt River Pima-Maricopa Indian Community	83	0	0	0	0	0	0	0	0	0	0	0	0
	San Carlos Apache Tribe	196	*	0	0	0	0	0	0	*	0	0	0	0
	Tohono O'Odham Nation	120	*	0	0	*	0	0	0	*	*	0	0	0
	White Mountain Apache Tribe	248	6	0	*	*	0	*	0	*	0	*	0	*
	Yavapai-Apache Nation	*	0	0	0	0	0	0	0	0	0	0	0	0
	Yavapai-Prescott Indian Tribe	*	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	1,990†	20†	0	0†	0†	0	0†	0†	10†	0†	0†	0†	10†
Resided off reservation	**---in Maricopa County**	1,266	7	0	0	*	0	*	*	*	0	*	0	*
	---in Pima County	318	*	0	0	0	0	*	0	*	*	*	0	0
	---in Coconino County	319	*	0	0	0	0	0	0	0	0	*	0	0
	---elsewhere in Arizona	816	10	0	*	*	0	*	0	*	*	*	*	*
	TOTAL	2,719	20†	0	0†	0†	0	0†	0†	10†	0†	0†	0†	0†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; [a] Congenital anomalies do not sum to the number of births with congenital anomalies as each birth may be associated with multiple congenital anomalies.

4.20
CAUSES OF INFANT DEATHS AMONG AMERICAN INDIAN RESIDENTS, ARIZONA, 2018

	TOTAL STATE	Resided on reservation					Resided off reservation				
		Havasupai Tribe	Navajo Nation	San Carlos Apache Tribe	White Mountain Apache Tribe	Total	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	Total
Total, all causes	44	0†	10†	0†	0†	10†	10†	0†	0†	10†	30†
Certain conditions originating in the perinatal period	10†	0	0	*	*	0†	*	0	*	*	10†
Maternal complications	0	0	0	0	0	0	0	0	0	0	0
Complications of placenta, cord and membrane	0†	0	0	0	0	0	*	0	0	*	0†
Short gestation and low birth weight	0†	0	0	*	*	0†	0	0	*	*	0†
Bacterial sepsis of newborn	0†	0	0	0	0	0	0	0	0	*	0†
Congenital malformations	20†	*	*	0	*	0†	*	*	*	7	20†
of heart	6	0	0	0	0	0	*	0	0	*	10†
of brain, spinal cord or nervous system	0†	0	0	0	0	0	0	*	0	0	0†
Sudden infant death syndrome	0†	0	0	0	0	0	*	0	*	0	0†
Accidents (unintentional injury)	0†	0	0	0	0	0	0	*	0	0	0†
Influenza and pneumonia	0	0	0	0	0	0	0	0	0	0	0
Diseases of the digestive system	0	0	0	0	0	0	0	0	0	0	0
Infectious and parasitic diseases	0†	0	*	0	0	0†	*	0	0	0	0†
Diseases of the nervous system	0†	0	*	0	0	0†	0	0	0	0	0
Mechanical suffocation	0†	0	0	0	0	0	0	*	0	0	0†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

4.21
COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY COUNTY OF RESIDENCE, ARIZONA, 2018

		Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
Total births		4,709	720†	10†	580†	140†	90†	0†	50†	1,420†	60†	760†	450†	330†	0†	50†	40†	0†
Mother's age group	**<15**	10†	*	0	*	*	0	0	*	0	0	*	0	0	0	0	0	0
	15-17	130†	12	0	21	6	6	*	0	30	0	34	11	11	0	0	*	0
	18-19	320†	56	0	29	13	8	0	*	89	8	46	32	33	0	*	*	0
	20-24	1,210†	161	*	143	36	29	0	11	352	23	199	129	86	*	12	18	0
	25-29	1,420†	209	*	190	40	21	*	21	437	18	236	125	89	0	20	10	0
	30-34	1,030†	174	*	123	33	12	*	*	328	11	158	99	71	0	10	7	*
	35-39	480†	82	*	59	7	9	0	10	145	*	74	51	30	*	*	*	0
	40-44	110†	25	0	15	*	0	0	0	34	0	14	6	9	0	*	0	0
	45+	0†	*	0	0	0	0	0	0	*	0	0	0	*	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Payee for births	**AHCCCS**	3,140†	556	*	452	31	15	*	36	951	43	649	220	120	*	34	25	*
	IHS	850†	77	0	50	99	56	*	11	189	11	42	150	149	0	*	8	0
	Private insurance	580†	44	*	67	*	11	*	*	236	7	56	75	57	0	12	*	0
	Self-pay	110†	42	*	7	*	*	0	0	24	*	11	*	*	0	*	6	0
	Unknown	40†	*	*	*	*	0	0	0	17	0	6	*	*	*	*	0	0
Mother's education	**8th Grade or Less**	90†	*	0	6	6	*	0	*	24	*	11	12	21	0	0	*	0
	Some High School	1,070†	100	0	101	49	19	*	15	319	20	186	122	119	*	9	9	0
	High School / GED	1,690†	259	*	219	52	40	0	21	449	29	297	170	108	0	17	21	0
	Some College	1,250†	237	6	158	27	16	*	11	421	9	187	99	49	0	18	7	0
	Associate Degree	360†	78	*	57	*	*	0	0	112	*	60	21	18	*	*	*	0
	Bachelor's Degree	170†	32	0	20	*	*	0	0	67	*	16	18	13	0	*	0	0
	Postgraduate Education	70†	7	0	17	*	*	0	0	23	0	*	10	*	0	*	0	0
	Unknown	10†	*	0	*	0	0	0	0	*	0	*	*	0	0	0	0	*
Marital status	**Married**	930†	134	*	123	27	14	*	6	289	13	150	77	64	*	18	6	0
	Unmarried[a]	3,710†	579	*	452	109	70	*	41	1,112	49	603	370	259	0	30	33	0
	Unknown	70†	8	*	6	*	*	0	*	16	*	11	6	7	0	*	*	*
Weight gain	**Inadequate**	1,100†	222	*	158	27	17	0	8	286	17	172	107	61	0	11	12	0
	Adequate	1,330†	222	*	165	37	24	0	17	396	16	238	106	77	*	15	13	0
	Excessive	2,230†	263	6	254	75	44	*	22	725	29	345	236	190	*	23	14	0
	Unknown	50†	14	0	*	0	0	*	*	10	*	9	*	*	0	*	*	*
Substance use	**Non Smoker**	4,330†	532	9	571	129	80	*	46	1,369	55	713	426	313	*	47	37	*
	Light Smoker	120†	9	*	*	*	*	0	*	25	*	30	19	16	0	*	*	0
	Heavy Smoker	40†	*	0	*	*	*	0	*	16	*	*	6	*	0	*	0	0
	Unknown	210†	175	0	*	0	0	0	0	7	*	19	*	0	0	*	*	0
Length of gestation	**<37 weeks**	490†	76	0	46	21	12	*	7	136	8	87	47	42	0	*	6	0
	37-41 weeks	4,170†	640	10	531	118	73	*	41	1,264	54	664	403	288	*	48	34	*
	42+ weeks	10†	0	0	*	0	0	0	0	10	0	*	*	0	0	0	0	0
	Unknown	30†	*	0	*	0	0	0	0	7	*	11	*	0	0	0	0	0

4.21
COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY COUNTY OF RESIDENCE, ARIZONA, 2018

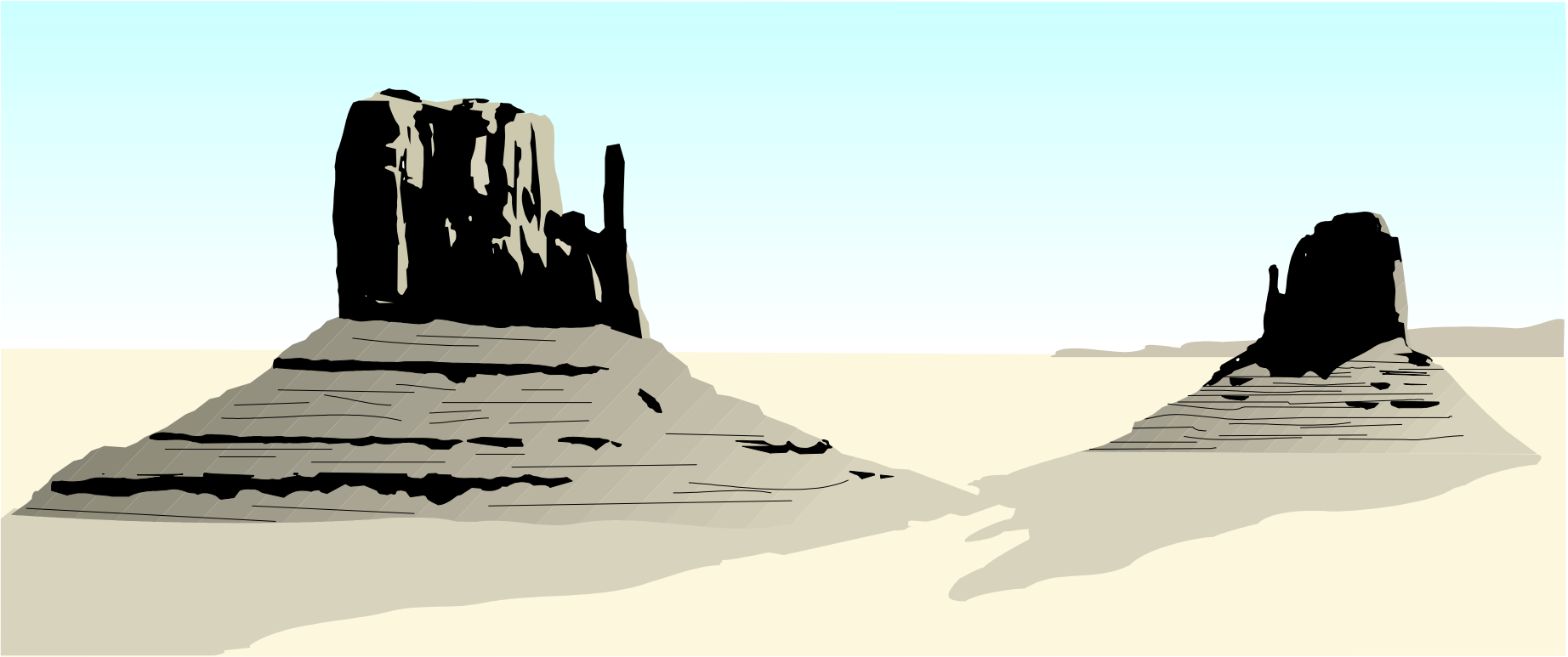
		Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
Weight at birth	**<1,000 grams**	30†	*	0	*	*	*	0	0	12	0	7	*	0	0	*	*	0
	1,000-1,499	30†	7	0	*	*	0	0	0	12	0	6	*	*	0	0	0	0
	1,500-2,499	310†	53	0	35	8	*	*	*	73	*	64	41	19	0	*	*	0
	2,500-3,999	3,900†	591	8	505	118	71	*	44	1,146	58	630	377	273	*	46	30	*
	4000+	430†	67	*	35	10	9	*	*	174	*	55	30	36	0	*	6	0
	Unknown	0†	0	0	*	0	0	0	0	0	0	*	0	0	0	0	0	0
Prenatal care	**No care**	240†	34	*	17	9	8	0	6	76	*	23	38	15	*	*	*	0
	1st trimester	2,660†	448	7	361	60	32	*	*	809	36	445	250	160	*	30	18	0
	2nd trimester	1,150†	162	*	124	36	18	*	12	335	13	184	124	112	0	13	12	0
	3rd trimester	450†	51	0	45	30	23	*	*	131	6	78	34	33	0	*	6	0
	Unknown	220†	26	0	34	*	*	0	25	66	*	34	7	10	0	*	0	*
Prenatal visits	**No visits**	240†	34	*	17	9	8	0	6	76	*	23	38	15	*	*	*	0
	1-4 visits	530†	68	*	36	36	24	*	6	146	7	89	66	40	0	*	*	0
	5-8 visits	1,220†	160	*	164	51	29	*	17	342	13	212	142	68	*	7	16	0
	9-12 visits	1,750†	283	*	223	28	13	0	14	571	25	277	145	130	0	22	12	0
	13+ visits	870†	162	*	114	14	10	*	*	258	12	139	56	75	0	16	*	0
	Unknown	110†	14	0	27	*	*	0	*	24	*	24	6	*	0	*	0	*
Newborn intensive care	**Yes**	370†	50	*	23	14	7	0	*	114	*	63	40	42	0	*	6	0
	No	4,340†	671	9	558	125	78	*	46	1,303	61	701	413	288	*	47	34	*
Method of delivery	**Vaginal**	3,450†	582	7	470	93	60	*	38	976	39	533	369	227	*	33	21	*
	C-Section	1,190†	135	*	108	42	23	*	9	421	19	211	83	101	0	16	14	0
	Forceps	10†	*	0	0	0	0	0	*	*	0	0	0	0	0	0	0	0
	Vacuum	60†	*	0	*	*	*	0	0	17	*	20	*	*	0	*	*	0
	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Obstetric procedures[b]	**Total**	2,280†	325	*	306	80	46	*	8	607	36	382	311	125	*	23	18	0
	Induction of labor	1,460†	218	*	221	55	28	*	6	394	20	247	161	73	0	15	10	0
	Augmentation of labor	1,180†	138	*	165	36	26	*	*	356	20	165	166	69	*	10	14	0
	Cervical cerclage	0†	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tocolysis	40†	0	0	*	*	*	0	0	*	0	*	20	*	0	*	0	0
	External cephalic version successful	10†	*	0	*	*	0	0	0	*	0	0	0	0	0	0	0	0
	External cephalic version failed	10†	*	0	*	*	0	0	0	*	0	*	*	0	0	0	0	0
Births with medical risk factors[b]	**Total**	1,960†	346	*	218	62	42	*	10	540	11	350	229	121	0	8	17	0
	Pre-existing diabetes	170†	38	0	15	*	*	0	*	48	*	26	16	16	0	0	*	0
	Gestational diabetes	810†	105	0	106	15	16	0	*	279	*	145	90	44	0	*	*	0
	Pre-existing hypertension	90†	18	0	8	*	*	*	0	25	0	12	17	7	0	0	*	0
	Gestational hypertension	600†	109	*	68	26	18	*	*	148	0	95	78	38	0	*	8	0
	Eclampsia	10†	0	0	*	*	*	0	0	0	*	*	*	0	0	0	0	0
	Previous preterm birth	260†	34	0	24	9	*	0	*	61	0	64	43	10	0	*	*	0
	Other previous poor pregnancy outcome	140†	65	*	9	*	0	0	0	23	0	22	20	*	0	0	0	0
	Gonorrhea	50†	13	0	8	*	*	0	0	9	0	12	*	*	0	0	0	0
	Syphilis	30†	0	0	*	*	*	0	0	12	0	*	0	6	0	0	0	0
	Chlamydia	350†	73	0	40	12	7	0	*	73	*	68	36	25	0	*	*	0
	Hepatitis B	0†	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0
	Hepatitis C	20†	*	0	*	0	0	0	*	*	0	*	*	*	0	0	*	0

4.21

COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY COUNTY OF RESIDENCE, ARIZONA, 2018

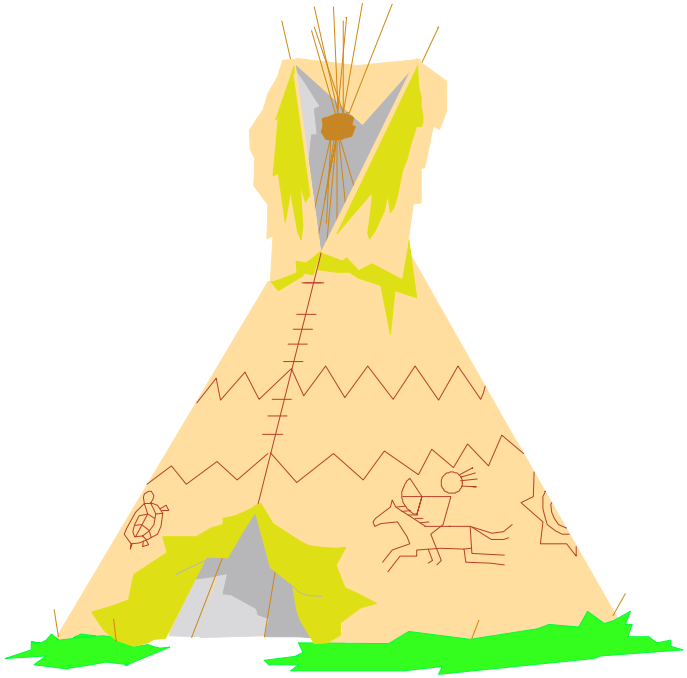
		Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
Births with complications of labor and delivery[b]	**Total**	1,440†	237	*	161	56	30	*	6	432	12	203	167	103	0	13	17	*
	Premature rupture of the membranes	330†	78	0	44	10	*	0	*	99	*	26	45	17	0	*	*	*
	Precipitous labor	260†	44	0	32	9	*	0	*	65	*	48	43	10	0	*	*	*
	Prolonged labor	160†	26	0	14	10	*	0	0	41	*	33	24	9	0	*	*	0
	Breech presentation	180†	36	*	15	10	*	*	0	53	*	32	8	16	0	*	*	0
	Chorioamnionitis	110†	10	0	12	*	*	0	0	35	*	13	21	8	0	0	*	0
	Meconium staining of the amniotic fluid	370†	49	0	27	11	9	0	*	119	*	54	32	50	0	*	10	0
	Fetal intolerance	280†	31	*	39	21	12	*	*	104	*	29	14	15	0	*	0	0
	Maternal transfusion	90†	19	0	12	*	6	0	0	11	*	14	18	*	0	*	*	0
	Third or fourth degree perineal laceration	30†	8	0	*	0	0	0	0	16	0	0	*	0	0	*	0	0
	Ruptured uterus	0†	0	0	*	0	0	0	0	0	0	*	*	0	0	0	0	0
	Unplanned hysterectomy	0†	0	0	*	0	0	0	0	0	0	0	*	0	0	0	0	0
	Admission to intensive care unit	10†	*	0	*	0	0	0	0	*	0	*	*	0	0	0	0	0
	Unplanned surgery following delivery	30†	8	0	10	0	0	0	0	*	0	*	*	*	0	0	0	0
Abnormal conditions of the newborn[b]	**Total**	250†	39	*	26	6	*	0	*	69	*	48	21	30	0	*	*	0
	Assisted ventilation immediately after delivery	150†	19	0	17	*	*	0	*	40	*	32	12	20	0	*	*	0
	Assisted ventilation for more than 6 hours	100†	19	*	7	*	*	0	0	22	*	17	14	12	0	0	*	0
	Surfactant replacement therapy	20†	*	0	0	0	0	0	0	8	0	6	*	*	0	0	0	0
	Suspected neonatal sepsis	110†	12	0	7	*	*	0	0	35	*	21	10	18	0	*	*	0
	Seizure or serious neurologic dysfunction	0†	*	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0
	Significant birth injury	0†	0	0	*	0	0	0	0	*	0	*	0	0	0	0	0	0
Congenital anomalies of the newborn[b]	**Total**	40†	10	0	*	*	*	0	*	7	0	8	6	*	0	*	*	0
	Anencephalus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Spina bifida / Meningocele	0†	0	0	0	0	0	0	0	0	0	*	0	*	0	*	0	0
	Cyanotic congenital heart disease	10†	*	0	0	0	0	0	0	*	0	*	*	*	0	0	0	0
	Congential diaphragmatic hernia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Omphalocele / Gastroschisis	0†	0	0	0	0	0	0	0	*	0	*	*	0	0	0	*	0
	Limb reduction defect	0†	*	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
	Cleft lip / palate	10†	*	0	0	*	*	0	0	*	0	*	*	*	0	0	0	0
	Down syndrome	0†	0	0	0	0	0	0	0	0	0	0	*	*	0	0	0	0
	Suspected chromosomal disorder	10†	*	0	*	0	0	0	0	*	0	*	*	*	0	0	0	0
	Hypospadias	0†	*	0	0	0	0	0	0	0	0	0	0	0	0	*	0	0
	Unknown congenital anomalies	10†	*	0	0	0	0	0	*	*	0	*	0	*	0	0	0	0
Infant mortality[c]	**Total**	40†	0†	0	10†	0†	0†	0	0	10†	0†	10†	0†	10†	0	0†	0	0
	Neonatal	30†	*	0	*	0	*	0	0	7	0	7	*	*	0	*	0	0
	Postneonatal	20†	0	0	*	*	0	0	0	*	*	*	*	*	0	0	0	0

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; [a] The coding of marital status has changed as such unmarried category includes divorced; [b] Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified; [c] Total infant mortality includes unknown county of residence.



V.

Patterns of Mortality Among American Indians by Place of Residence in Arizona in 2018



Age-Specific Mortality

5.1
AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIANS IN 2018

		TOTAL[a]	Age group										
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		2,530†	40†	10†	20†	100†	260†	260†	350†	420†	390†	370†	310†
Resided on reservation	**Cocopah Tribe**	10†	0	0	0	0	*	*	*	0	0	*	*
	Fort Mohave Reservation	0†	0	0	0	0	0	0	0	*	0	0	0
	Havasupai Tribe	10†	*	0	0	*	*	*	0	*	*	0	0
	Hopi Tribe	50†	0	0	*	*	0	*	*	6	11	12	10
	Kaibab Indian Reservation	0†	0	0	0	0	0	0	0	0	0	*	0
	Navajo Nation	710†	6	*	6	29	70	65	87	109	97	111	126
	Salt River Pima-Maricopa Indian Community	50†	0	0	0	*	6	7	7	13	*	*	*
	San Carlos Apache Tribe	130†	*	*	*	11	*	15	23	22	20	18	9
	White Mountain Apache Tribe	130†	*	*	0	*	26	17	19	13	17	20	8
	TOTAL	1,080†	10†	10†	10†	50†	110†	110†	140†	170†	150†	170†	160†
Resided off reservation	**---in Maricopa County**	490†	12	*	*	18	51	61	85	94	75	54	32
	---in Pima County	260†	*	0	*	7	26	28	38	46	51	40	21
	---in Coconino County	130†	*	0	*	*	14	20	19	21	12	13	22
	---elsewhere in Arizona	570†	13	*	*	15	55	41	70	95	98	98	80
	TOTAL[a]	1,450†	30†	10†	10†	40†	146	150	212	256	236	205	155

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; [a] total may include cases with unknown gender.

5.2
AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIAN MALES IN 2018

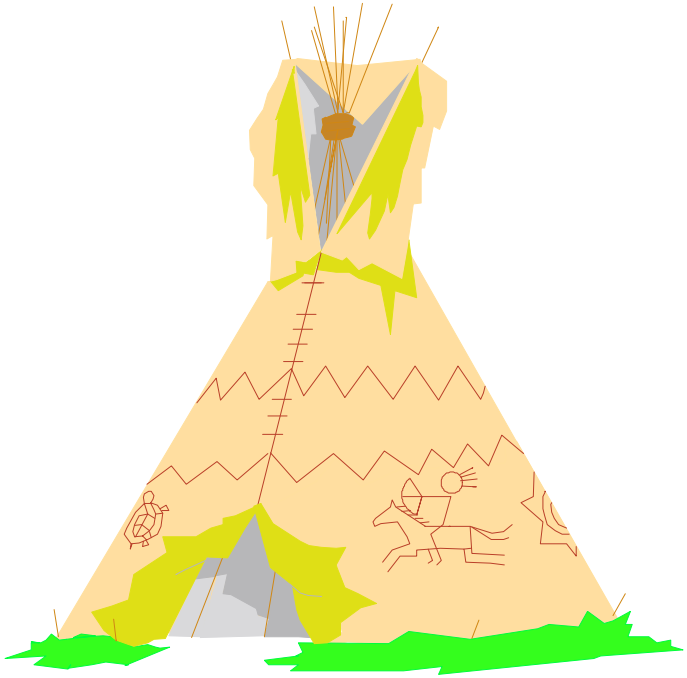
		TOTAL	Age group										
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		1,450†	20†	10†	10†	70†	190†	170†	210†	250†	210†	190†	110†
Resided on reservation	**Cocopah Tribe**	0†	0	0	0	0	*	*	*	0	0	0	0
	Fort Mohave Reservation	0†	0	0	0	0	0	0	0	*	0	0	0
	Havasupai Tribe	10†	*	0	0	*	*	*	0	0	*	0	0
	Hopi Tribe	30†	0	0	0	0	0	*	*	*	9	6	*
	Kaibab Indian Reservation	0	0	0	0	0	0	0	0	0	0	0	0
	Navajo Nation	440†	*	*	*	25	56	42	56	72	57	65	53
	Salt River Pima-Maricopa Indian Community	30†	0	0	0	*	*	6	*	8	*	*	0
	San Carlos Apache Tribe	70†	0	*	0	9	*	11	12	13	11	8	*
	White Mountain Apache Tribe	70†	*	*	0	*	16	10	10	8	7	7	*
	TOTAL	640†	10†	0†	0†	40†	80†	80†	90†	110†	90†	90†	60†
Resided off reservation	**---in Maricopa County**	270†	6	*	*	14	38	36	47	53	41	25	8
	---in Pima County	150†	0	0	*	6	22	18	19	26	28	25	*
	---in Coconino County	70†	*	0	*	*	10	15	11	9	7	6	8
	---elsewhere in Arizona	310†	7	*	*	10	40	29	43	54	49	47	30
	TOTAL	800†	10†	10†	0†	30†	110	98	120	142	125	103	50†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

5.3
AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIAN FEMALES IN 2018

		TOTAL	Age group										
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		1,080†	20†	0†	10†	20†	60†	90†	150†	170†	180†	180†	200†
Resided on reservation	**Cocopah Tribe**	0†	0	0	0	0	0	0	0	0	0	*	*
	Fort Mohave Reservation	0	0	0	0	0	0	0	0	0	0	0	0
	Havasupai Tribe	0†	0	0	0	0	0	0	0	*	*	0	0
	Hopi Tribe	20†	0	0	*	*	0	0	0	*	*	6	*
	Kaibab Indian Reservation	0†	0	0	0	0	0	0	0	0	0	*	0
	Navajo Nation	270†	*	0	*	*	14	23	31	37	40	46	73
	Salt River Pima-Maricopa Indian Community	20†	0	0	0	*	*	*	*	*	*	*	*
	San Carlos Apache Tribe	60†	*	0	*	*	*	*	11	9	9	10	6
	White Mountain Apache Tribe	70†	*	*	0	*	10	7	9	*	10	13	*
	TOTAL	440†	10†	0†	10†	10†	30†	40†	50†	60†	70†	80†	90†
Resided off reservation	**---in Maricopa County**	210†	*	0	0	*	13	25	38	41	34	29	24
	---in Pima County	110†	*	0	*	*	*	10	19	20	23	15	17
	---in Coconino County	60†	*	0	*	*	*	*	8	12	*	7	14
	---elsewhere in Arizona	260†	6	0	0	*	15	12	27	41	49	51	50
	TOTAL	640†	20†	0	0†	10†	40†	50†	92	114	110†	102	105

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.



Cause-Specific Mortality

5.4
DEATHS BY GENDER FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	**TOTAL**	**MALE**	**FEMALE**	**UNKNOWN**
Total, all causes	2,527	1,445	1,081	1
Salmonella infections	0	0	0	0
Shigellosis and amebiasis	0	0	0	0
Certain other intestinal infections	10†	*	7	0
Enterocolitis due to Clostridium difficile	10†	*	*	0
Tuberculosis	0†	0	*	0
Respiratory tuberculosis	0†	0	*	0
Other tuberculosis	0	0	0	0
Whooping cough	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0
Meningococcal infection	0	0	0	0
Septicemia	34	18	16	0
Syphilis	0	0	0	0
Acute poliomyelitis	0	0	0	0
Arthropod-borne encephalitis	0	0	0	0
Measles	0	0	0	0
Viral hepatitis	10†	6	*	0
Human immunodeficiency virus (HIV) disease	10†	*	*	0
Malaria	0	0	0	0
Other and unspecified infectious and parasitic diseases	22	10	12	0
Malignant neoplasms	271	144	127	0
Malignant neoplasm of lip, oral cavity and pharynx	0†	*	0	0
Malignant neoplasm of esophagus	6	6	0	0
Malignant neoplasm of stomach	17	10	7	0
Malignant neoplasm of colon, rectum and anus	25	16	9	0
Malignant neoplasm of liver and intrahepatic bile ducts	36	17	19	0
Malignant neoplasm of pancreas	24	13	11	0
Malignant neoplasm of larynx	0†	0	*	0
Malignant neoplasm of trachea, bronchus and lung	20†	16	*	0
Malignant melanoma of skin	0	0	0	0
Malignant neoplasm of breast	12	0	12	0
Malignant neoplasm of cervix uteri	0†	0	*	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	8	0	8	0
Malignant neoplasm of ovary	10†	0	*	0
Malignant neoplasm of prostate	20	20	0	0
Malignant neoplasm of kidney and renal pelvis	20	11	9	0
Malignant neoplasm of bladder	0†	0	*	0

5.4 (continued)
DEATHS BY GENDER FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	TOTAL	MALE	FEMALE	UNKNOWN
Malignant neoplasm of meninges, brain and other parts of central nervous system	0†	*	*	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	31	16	15	0
Hodgkin's disease	0	0	0	0
Non-Hodgkin's lymphoma	10†	*	*	0
Leukemia	10†	*	*	0
Multiple myeloma and immunoproliferative neoplasms	14	7	7	0
Other and unspecified malignant neoplasms of lymphoid tissue	0	0	0	0
All other and unspecified malignant neoplasm	36	17	19	0
In situ neoplasms	10†	*	*	0
Anemias	0†	0	*	0
Diabetes	183	100	83	0
Nutritional deficiencies	15	8	7	0
Malnutrition	10†	6	*	0
Other nutritional deficiencies	0†	*	*	0
Obesity	20†	13	*	0
Meningitis	0	0	0	0
Parkinson's disease	20†	13	*	0
Alzheimer's disease	38	15	23	0
Major cardiovascular diseases	416	213	203	0
Diseases of heart	294	157	137	0
Acute rheumatic fever and chronic rheumatic heart disease	0†	0	*	0
Hypertensive heart disease	32	11	21	0
Hypertensive heart and renal disease	0†	*	*	0
Ischemic heart disease	173	110	63	0
Acute myocardial infarction	45	27	18	0
Other acute ischemic heart disease	0†	*	*	0
Other forms of chronic ischemic heart disease	124	80	44	0
Atherosclerotic cardiovascular disease	34	21	13	0
All other forms of chronic ischemic heart disease	90	59	31	0
Other heart diseases	81	35	46	0
Acute and subacute endocarditis	0†	*	*	0
Diseases of pericardium and acute myocarditis	0	0	0	0
Heart failure	20†	*	11	0
All other forms of heart disease	62	29	33	0
Essential (primary) hypertension and hypertensive renal disease	31	19	12	0
Cerebrovascular diseases	83	32	51	0

5.4 (continued)
DEATHS BY GENDER FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	TOTAL	MALE	FEMALE	UNKNOWN
Atherosclerosis	0†	*	*	0
Other diseases of circulatory system	10†	*	*	0
Aortic aneurysm and dissection	0†	*	0	0
Other disease of arteries, arterioles and capillaries	0†	*	*	0
Other disorders of circulatory system	10†	*	*	0
Influenza and pneumonia	69	39	30	0
Influenza	10†	*	9	0
Pneumonia	55	34	21	0
Other acute lower respiratory infections	0	0	0	0
Acute bronchiolitis	0	0	0	0
Unspecified acute lower respiratory infection	0	0	0	0
Chronic lower respiratory diseases	43	18	25	0
Bronchitis, chronic and unspecified	0†	0	*	0
Emphysema	0†	*	0	0
Asthma	0†	*	*	0
Other chronic lower respiratory diseases	38	15	23	0
Pneumoconioses and chemical effects	0†	*	0	0
Pneumonitis due to solids and liquids	23	17	6	0
Other disease of respiratory system	42	23	19	0
Peptic ulcer	0†	0	*	0
Diseases of appendix	0	0	0	0
Hernia	0†	*	0	0
Chronic liver disease and cirrhosis	236	129	107	0
Alcoholic liver disease	170	97	73	0
Other chronic liver disease and cirrhosis	66	32	34	0
Cholelithiasis and other disorders of gallbladder	0†	*	*	0
Nephritis, nephrotic syndrome and nephrosis	53	17	36	0
Acute and rapidly progressive nephritic and nephrotic syndrome	0	0	0	0
Chronic glomerulonephritis	0	0	0	0
Renal failure	53	17	36	0
Others disorders of kidney	0	0	0	0
Infections of kidney	0†	0	*	0
Hyperplasia of prostate	0	0	0	0
Inflammatory diseases of female pelvic organs	0	0	0	0
Pregnancy, childbirth and the puerperium	0†	0	*	0

5.4 (continued)
DEATHS BY GENDER FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	TOTAL	MALE	FEMALE	UNKNOWN
Pregnancy with abortive outcome	0	0	0	0
Other complications of pregnancy, childbirth and the puerperium	0†	0	*	0
Perinatal conditions	10†	*	6	0
Congenital anomalies, deformations and chromosomal abnormalities	23	8	14	*
Symptoms, signs, abnormal findings	75	49	26	0
Total accidents	398	291	107	0
Transport accidents	180	130	50	0
Motor vehicle accidents	172	123	49	0
Other land transport accidents	10†	6	*	0
Water, air, space	0†	*	0	0
Nontransport accidents	218	161	57	0
Falls	40	24	16	0
Accidental discharge of firearms	0†	*	0	0
Accidental drowning and submersion	10†	*	*	0
Accidental exposure to smoke, fire and flames	0†	*	*	0
Accidental poisoning	128	95	33	0
Excessive natural heat	10†	6	*	0
Excessive natural cold	10†	6	*	0
Other and unspecified nontransport accidents	40†	33	*	0
Intentional self-harm (suicide)	113	94	19	0
By discharge of firearms	30†	21	*	0
By other means	88	73	15	0
Assault (homicide)	53	43	10	0
By discharge of firearms	30†	22	*	0
By other means	28	21	7	0
Legal intervention	0†	*	0	0
Events of undetermined intent	10†	12	*	0
Discharge of firearms	0†	*	0	0
Other and unspecified events of undetermined intent	10†	10	*	0
Operations of war	0	0	0	0
Complications of medical and surgical care	10†	*	*	0
Injury by firearms	55	48	7	0
Drug-induced deaths	90	63	27	0
Opioid-induced deaths	48	34	14	0
Alcohol-induced deaths	284	173	111	0

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

5.5
DEATHS BY AGE GROUP FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	**TOTAL**	**<1**	**1-4**	**5-14**	**15-24**	**25-34**	**35-44**	**45-54**	**55-64**	**65-74**	**75-84**	**85+**
Total, all causes	2,527	44	13	15	95	255	260	353	421	387	373	311
Salmonella infections	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis and amebiasis	0	0	0	0	0	0	0	0	0	0	0	0
Certain other intestinal infections	10†	*	0	0	0	0	*	0	*	*	*	*
Enterocolitis due to Clostridium difficile	10†	0	0	0	0	0	*	0	*	*	0	*
Tuberculosis	0†	0	0	0	0	0	0	0	0	0	0	*
Respiratory tuberculosis	0†	0	0	0	0	0	0	0	0	0	0	*
Other tuberculosis	0	0	0	0	0	0	0	0	0	0	0	0
Whooping cough	0	0	0	0	0	0	0	0	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0	0	0	0	0	0	0	0	0
Meningococcal infection	0	0	0	0	0	0	0	0	0	0	0	0
Septicemia	30†	0	0	0	0	*	*	7	11	*	6	*
Syphilis	0	0	0	0	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0	0	0	0	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0
Viral hepatitis	10†	0	0	0	0	0	*	*	*	*	0	0
Human immunodeficiency virus (HIV) disease	10†	0	0	0	0	*	0	*	0	*	0	0
Malaria	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	20†	*	0	*	0	*	*	*	*	*	*	0
Malignant neoplasms	270†	0	0	*	*	*	15	31	64	64	60	31
Malignant neoplasm of lip, oral cavity and pharynx	0†	0	0	0	0	0	*	0	0	0	0	0
Malignant neoplasm of esophagus	10†	0	0	0	0	0	0	*	0	*	*	0
Malignant neoplasm of stomach	20†	0	0	0	0	0	*	*	*	6	*	0
Malignant neoplasm of colon, rectum and anus	30†	0	0	0	0	0	0	*	8	*	*	6
Malignant neoplasm of liver and intrahepatic bile ducts	40†	0	0	0	0	0	*	*	11	9	10	0
Malignant neoplasm of pancreas	20†	0	0	0	0	0	*	*	8	*	7	*
Malignant neoplasm of larynx	0†	0	0	0	0	0	0	0	0	0	*	0
Malignant neoplasm of trachea, bronchus and lung	20†	0	0	0	0	0	0	*	*	*	6	*
Malignant melanoma of skin	0	0	0	0	0	0	0	0	0	0	0	0
Malignant neoplasm of breast	10†	0	0	0	0	0	*	*	*	*	*	*
Malignant neoplasm of cervix uteri	0†	0	0	0	0	0	*	*	*	0	0	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	10†	0	0	0	0	0	*	*	*	*	0	*
Malignant neoplasm of ovary	10†	0	0	0	0	0	*	0	*	*	0	*
Malignant neoplasm of prostate	20†	0	0	0	0	0	0	0	*	*	8	*

5.5 (continued)
DEATHS BY AGE GROUP FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	**TOTAL**	**<1**	**1-4**	**5-14**	**15-24**	**25-34**	**35-44**	**45-54**	**55-64**	**65-74**	**75-84**	**85+**
Malignant neoplasm of kidney and renal pelvis	20†	0	0	0	0	*	*	*	*	*	*	*
Malignant neoplasm of bladder	0†	0	0	0	0	0	0	0	0	*	*	0
Malignant neoplasm of meninges, brain and other parts of central nervous system	0†	0	0	*	0	0	*	*	0	0	*	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	30†	0	0	0	*	*	*	*	6	8	8	*
Hodgkin's disease	0	0	0	0	0	0	0	0	0	0	0	0
Non-Hodgkin's lymphoma	10†	0	0	0	0	*	*	0	*	*	*	*
Leukemia	10†	0	0	0	*	0	0	*	*	*	*	0
Multiple myeloma and immunoproliferative neoplasms	10†	0	0	0	0	0	0	*	*	*	*	*
Other and unspecified malignant neoplasms of lymphoid tissue	0	0	0	0	0	0	0	0	0	0	0	0
All other and unspecified malignant neoplasm	40†	0	0	0	*	0	*	*	11	8	6	*
In situ neoplasms	10†	0	0	0	0	0	*	0	*	0	*	*
Anemias	0†	0	0	0	0	0	0	0	0	0	*	0
Diabetes	180†	0	0	0	0	*	8	20	60	48	35	11
Nutritional deficiencies	20†	0	0	0	0	0	0	0	0	*	*	8
Malnutrition	10†	0	0	0	0	0	0	0	0	*	*	*
Other nutritional deficiencies	0†	0	0	0	0	0	0	0	0	*	0	*
Obesity	20†	0	0	0	*	*	*	*	*	*	0	0
Meningitis	0	0	0	0	0	0	0	0	0	0	0	0
Parkinson's disease	20†	0	0	0	0	0	0	*	*	*	6	8
Alzheimer's disease	40†	0	0	0	0	0	0	*	*	0	13	22
Major cardiovascular diseases	420†	*	0	*	*	12	21	42	66	97	84	90
Diseases of heart	290†	0	0	0	*	10	18	32	46	73	60	54
Acute rheumatic fever and chronic rheumatic heart disease	0†	0	0	0	0	0	0	0	0	*	0	0
Hypertensive heart disease	30†	0	0	0	0	*	*	*	*	*	7	10
Hypertensive heart and renal disease	0†	0	0	0	0	0	0	0	*	0	*	0
Ischemic heart disease	170†	0	0	0	0	*	6	18	22	52	37	34
Acute myocardial infarction	50†	0	0	0	0	*	*	*	*	13	9	10
Other acute ischemic heart disease	0†	0	0	0	0	0	0	0	*	*	*	0
Other forms of chronic ischemic heart disease	120†	0	0	0	0	*	*	14	18	37	27	24
Atherosclerotic cardiovascular disease	30†	0	0	0	0	0	*	*	11	9	*	*
All other forms of chronic ischemic heart disease	90†	0	0	0	0	*	*	9	7	28	22	22
Other heart diseases	80†	0	0	0	*	*	8	10	19	15	15	10
Acute and subacute endocarditis	0†	0	0	0	0	*	0	0	0	*	0	0
Diseases of pericardium and acute myocarditis	0	0	0	0	0	0	0	0	0	0	0	0
Heart failure	20†	0	0	0	0	0	*	0	*	*	6	*
All other forms of heart disease	60†	0	0	0	*	*	7	10	15	11	9	7

5.5 (continued)
DEATHS BY AGE GROUP FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	**TOTAL**	**<1**	**1-4**	**5-14**	**15-24**	**25-34**	**35-44**	**45-54**	**55-64**	**65-74**	**75-84**	**85+**
Essential (primary) hypertension and hypertensive renal disease	30†	0	0	0	0	0	0	*	7	9	*	7
Cerebrovascular diseases	80†	*	0	*	*	*	*	*	11	14	19	27
Atherosclerosis	0†	0	0	0	0	0	0	0	*	0	0	*
Other diseases of circulatory system	10†	0	0	0	0	0	*	*	0	*	*	*
Aortic aneurysm and dissection	0†	0	0	0	0	0	0	*	0	0	0	0
Other disease of arteries, arterioles and capillaries	0†	0	0	0	0	0	*	0	0	*	*	*
Other disorders of circulatory system	10†	0	0	0	0	0	*	0	*	*	0	*
Influenza and pneumonia	70†	0	*	0	*	*	*	*	10	17	14	13
Influenza	10†	0	*	0	0	*	*	0	*	*	*	*
Pneumonia	60†	0	*	0	*	*	*	*	8	15	9	11
Other acute lower respiratory infections	0	0	0	0	0	0	0	0	0	0	0	0
Acute bronchiolitis	0	0	0	0	0	0	0	0	0	0	0	0
Unspecified acute lower respiratory infection	0	0	0	0	0	0	0	0	0	0	0	0
Chronic lower respiratory diseases	40†	0	0	0	0	0	*	*	*	8	10	15
Bronchitis, chronic and unspecified	0†	0	0	0	0	0	0	0	*	0	0	0
Emphysema	0†	0	0	0	0	0	0	*	0	0	0	0
Asthma	0†	0	0	0	0	0	0	*	*	0	0	0
Other chronic lower respiratory diseases	40†	0	0	0	0	0	*	*	*	8	10	15
Pneumoconioses and chemical effects	0†	0	0	0	0	0	0	0	0	0	0	*
Pneumonitis due to solids and liquids	20†	0	0	0	0	*	*	*	*	*	*	*
Other disease of respiratory system	40†	0	0	0	0	*	0	*	*	*	14	17
Peptic ulcer	0†	0	0	0	0	0	0	0	0	0	*	*
Diseases of appendix	0	0	0	0	0	0	0	0	0	0	0	0
Hernia	0†	0	0	0	0	0	0	0	*	0	0	0
Chronic liver disease and cirrhosis	240†	0	0	*	*	30	51	68	50	24	11	0
Alcoholic liver disease	170†	0	0	0	*	24	41	50	39	13	*	0
Other chronic liver disease and cirrhosis	70†	0	0	*	0	6	10	18	11	11	9	0
Cholelithiasis and other disorders of gallbladder	0†	0	0	0	0	0	0	0	*	*	*	0
Nephritis, nephrotic syndrome and nephrosis	50†	0	0	0	*	*	*	8	8	11	14	6
Acute and rapidly progressive nephritic and nephrotic syndrome	0	0	0	0	0	0	0	0	0	0	0	0
Chronic glomerulonephritis	0	0	0	0	0	0	0	0	0	0	0	0
Renal failure	50†	0	0	0	*	*	*	8	8	11	14	6
Others disorders of kidney	0	0	0	0	0	0	0	0	0	0	0	0
Infections of kidney	0†	0	0	0	0	0	0	0	*	0	0	0
Hyperplasia of prostate	0	0	0	0	0	0	0	0	0	0	0	0

5.5 (continued)
DEATHS BY AGE GROUP FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	**TOTAL**	**<1**	**1-4**	**5-14**	**15-24**	**25-34**	**35-44**	**45-54**	**55-64**	**65-74**	**75-84**	**85+**
Inflammatory diseases of female pelvic organs	0	0	0	0	0	0	0	0	0	0	0	0
Pregnancy, childbirth and the puerperium	0†	0	0	0	0	*	0	*	0	0	0	0
Pregnancy with abortive outcome	0	0	0	0	0	0	0	0	0	0	0	0
Other complications of pregnancy, childbirth and the puerperium	0†	0	0	0	0	*	0	*	0	0	0	0
Perinatal conditions	10	10	0	0	0	0	0	0	0	0	0	0
Congenital anomalies, deformations and chromosomal abnormalities	20†	18	*	0	*	0	0	*	0	*	0	*
Symptoms, signs, abnormal findings	80†	9	0	0	*	13	9	11	9	*	6	11
Total accidents	400†	*	*	*	40	89	77	71	55	28	17	11
Transport accidents	180†	0	*	*	27	43	37	37	16	8	*	0
Motor vehicle accidents	170†	0	*	*	25	41	36	36	14	8	*	0
Other land transport accidents	10†	0	0	0	*	*	*	*	*	0	0	0
Water, air, space	0†	0	0	0	0	0	0	0	*	0	0	0
Nontransport accidents	220†	*	0	*	13	46	40	34	39	20	13	11
Falls	40†	0	0	0	0	*	*	*	11	7	6	9
Accidental discharge of firearms	0†	0	0	0	*	0	0	0	0	0	0	0
Accidental drowning and submersion	10†	0	0	0	0	*	*	*	0	0	0	0
Accidental exposure to smoke, fire and flames	0†	0	0	*	0	0	0	*	0	0	*	0
Accidental poisoning	130†	0	0	0	10	38	33	22	18	6	*	0
Excessive natural heat	10†	0	0	0	*	*	0	0	*	0	*	0
Excessive natural cold	10†	0	0	0	0	0	0	*	*	*	0	0
Other and unspecified nontransport accidents	40†	*	0	0	*	*	*	*	10	7	*	*
Intentional self-harm (suicide)	110†	0	0	6	37	37	19	*	*	*	*	0
By discharge of firearms	30†	0	0	0	7	8	*	*	*	*	*	0
By other means	90†	0	0	6	30	29	15	*	*	*	0	0
Assault (homicide)	50†	*	*	0	*	25	9	6	0	*	*	0
By discharge of firearms	30†	0	0	0	*	16	*	*	0	*	0	0
By other means	30†	*	*	0	*	9	*	*	0	*	*	0
Legal intervention	0†	0	0	0	0	0	0	*	0	0	0	0
Events of undetermined intent	10†	0	0	0	0	6	*	0	*	0	*	0
Discharge of firearms	0†	0	0	0	0	*	0	0	0	0	0	0
Other and unspecified events of undetermined intent	10†	0	0	0	0	*	*	0	*	0	*	0
Operations of war	0	0	0	0	0	0	0	0	0	0	0	0
Complications of medical and surgical care	10†	0	0	0	0	0	0	*	*	*	*	*
Injury by firearms	60†	0	0	0	10	26	9	*	*	*	*	0
Drug-induced deaths	90†	0	0	0	10	34	25	10	7	*	0	*
Opioid-induced deaths	50†	0	0	0	8	21	13	*	*	0	0	0
Alcohol-induced deaths	280†	0	0	0	*	38	70	81	66	20	*	*

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

5.6
DEATHS BY RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ALL AMERICAN INDIAN RESIDENTS OF ARIZONA	Resided on reservation										Resided off reservation				
		Cocopah Tribe	Fort Mohave Reservation	Havasupai Tribe	Hopi Tribe	Kaibab Indian Reservation	Navajo Nation	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	White Mountain Apache Tribe	Total	in Maricopa County	in Pima County	in Coconino County	elsewhere in Arizona	Total
Total, all causes	2,527	5	1	8	50	1	708	49	127	131	1,080†	485	263	130	569	1,447
Salmonella infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis and amebiasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Certain other intestinal infections	10†	0	0	0	0	0	6	0	0	0	6	0	*	0	*	0†
Enterocolitis due to Clostridium difficile	10†	0	0	0	0	0	*	0	0	0	0†	0	*	0	*	0†
Tuberculosis	0†	0	0	0	0	0	0	0	0	0	0	0	0	0	*	0†
Respiratory tuberculosis	0†	0	0	0	0	0	0	0	0	0	0	0	0	0	*	0†
Other tuberculosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Whooping cough	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningococcal infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Septicemia	34	0	0	0	0	0	8	*	*	*	10†	*	7	0	12	20†
Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral hepatitis	9	0	0	0	0	0	0	0	0	0	0	6	*	0	*	10†
Human immunodeficiency virus (HIV) disease	10†	0	0	0	0	0	*	0	0	0	0†	*	*	0	*	0†
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	22	0	0	0	0	0	6	0	*	0	10†	6	*	0	*	10†
Malignant neoplasms	271	0	0	*	*	0	89	*	10	10	120†	49	28	19	57	153
Malignant neoplasm of lip, oral cavity and pharynx	0†	0	0	0	0	0	0	0	0	0	0	0	*	0	0	0†
Malignant neoplasm of esophagus	10†	0	0	0	0	0	*	0	0	0	0†	*	*	0	0	0†
Malignant neoplasm of stomach	17	0	0	0	*	0	*	0	0	*	10†	*	*	0	*	10†
Malignant neoplasm of colon, rectum and anus	25	0	0	0	0	0	7	0	*	*	10†	*	*	*	6	20†
Malignant neoplasm of liver and intrahepatic bile ducts	36	0	0	0	0	0	7	*	*	*	10†	6	8	*	7	20†
Malignant neoplasm of pancreas	24	0	0	0	0	0	9	0	*	*	10†	*	*	*	6	10†
Malignant neoplasm of larynx	0†	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0†
Malignant neoplasm of trachea, bronchus and lung	20	0	0	0	0	0	*	0	*	0	10†	8	0	0	6	14
Malignant melanoma of skin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malignant neoplasm of breast	12	0	0	0	0	0	*	0	*	0	10†	*	0	*	*	10†
Malignant neoplasm of cervix uteri	0†	0	0	0	0	0	0	0	0	0	0	*	0	*	*	0†
Malignant neoplasm of corpus uteri and uterus, part unspecified	10†	0	0	*	0	0	*	0	0	*	0†	*	*	0	*	10†
Malignant neoplasm of ovary	10†	0	0	0	0	0	*	0	0	0	0†	*	0	*	*	0†
Malignant neoplasm of prostate	20	0	0	0	*	0	9	0	0	*	10†	*	0	*	*	10†
Malignant neoplasm of kidney and renal pelvis	20	0	0	0	*	0	10	0	*	0	10†	*	*	*	*	10†

5.6 (continued)
DEATHS BY RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ALL AMERICAN INDIAN RESIDENTS OF ARIZONA	Resided on reservation										Resided off reservation				
		Cocopah Tribe	Fort Mohave Reservation	Havasupai Tribe	Hopi Tribe	Kaibab Indian Reservation	Navajo Nation	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	White Mountain Apache Tribe	Total	in Maricopa County	in Pima County	in Coconino County	elsewhere in Arizona	Total
Malignant neoplasm of bladder	0†	0	0	0	0	0	*	0	0	0	0†	0	0	0	*	0†
Malignant neoplasm of meninges, brain and other parts of central nervous system	0†	0	0	0	0	0	*	0	*	0	0†	0	0	0	*	0†
Malignant neoplasm of lymphoid, hematopoietic and related tissue	31	0	0	0	*	0	13	*	*	0	20†	*	*	*	6	20†
Hodgkin's disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Hodgkin's lymphoma	10†	0	0	0	0	0	*	0	0	0	10†	*	*	0	*	0†
Leukemia	10†	0	0	0	0	0	*	*	0	0	0†	*	0	0	*	10†
Multiple myeloma and immunoproliferative neoplasms	14	0	0	0	*	0	6	0	*	0	10†	0	*	*	*	10†
Other and unspecified malignant neoplasms of lymphoid tissue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All other and unspecified malignant neoplasm	36	0	0	0	0	0	11	0	*	*	20†	8	*	*	7	20†
In situ neoplasms	10†	0	0	0	0	0	*	0	0	0	0†	*	0	0	*	0†
Anemias	0†	0	0	0	*	0	0	0	0	0	0†	0	0	0	0	0
Diabetes	183	*	0	*	*	*	30	10	12	6	70†	41	21	6	50	118
Nutritional deficiencies	15	0	0	0	*	0	*	0	*	*	10†	0	*	*	*	10†
Malnutrition	10†	0	0	0	0	0	*	0	*	*	10†	0	*	*	*	0†
Other nutritional deficiencies	0†	0	0	0	*	0	*	0	0	0	0†	0	0	*	*	0†
Obesity	20†	0	0	0	0	0	*	0	*	0	10†	*	*	0	*	10†
Meningitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parkinson's disease	17	0	0	0	*	0	9	0	*	0	10†	*	0	*	*	10†
Alzheimer's disease	38	0	0	0	*	0	8	0	*	0	20†	9	0	*	11	20†
Major cardiovascular diseases	416	*	0	0	6	0	106	10	22	19	160†	85	41	16	110	252
Diseases of heart	294	*	0	0	*	0	70	8	15	17	110†	57	28	11	84	180
Acute rheumatic fever and chronic rheumatic heart disease	0†	0	0	0	0	0	*	0	0	0	0†	0	*	0	*	0†
Hypertensive heart disease	32	0	0	0	*	0	*	0	*	*	10†	8	*	0	10	20†
Hypertensive heart and renal disease	0†	0	0	0	0	0	0	0	*	0	0†	*	0	*	*	0†
Ischemic heart disease	173	*	0	0	*	0	46	*	*	9	70†	31	19	8	48	106
Acute myocardial infarction	45	*	0	0	*	0	13	*	*	*	20†	9	*	*	9	20†
Other acute ischemic heart disease	0†	0	0	0	0	0	*	0	0	0	0†	0	*	0	*	0†
Other forms of chronic ischemic heart disease	124	0	0	0	*	0	31	*	*	6	40†	22	14	6	38	80
Atherosclerotic cardiovascular disease	34	0	0	0	0	0	9	*	*	*	10†	13	*	*	6	20†
All other forms of chronic ischemic heart disease	90	0	0	0	*	0	22	*	*	*	30†	9	13	*	32	60†
Other heart diseases	81	0	0	0	0	0	18	*	7	*	30†	17	6	*	24	50†
Acute and subacute endocarditis	0†	0	0	0	0	0	0	0	0	0	0	*	0	0	*	0†
Diseases of pericardium and acute myocarditis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heart failure	16	0	0	0	0	0	6	0	*	*	10†	*	*	0	*	10†
All other forms of heart disease	62	0	0	0	0	0	12	*	*	*	20†	14	*	*	19	40†
Essential (primary) hypertension and hypertensive renal disease	31	0	0	0	*	0	8	*	*	*	10†	10	*	*	*	20†

5.6 (continued)
DEATHS BY RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ALL AMERICAN INDIAN RESIDENTS OF ARIZONA	Resided on reservation										Resided off reservation				
		Cocopah Tribe	Fort Mohave Reservation	Havasupai Tribe	Hopi Tribe	Kaibab Indian Reservation	Navajo Nation	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	White Mountain Apache Tribe	Total	in Maricopa County	in Pima County	in Coconino County	elsewhere in Arizona	Total
Cerebrovascular diseases	83	0	0	0	*	0	27	*	*	0	30†	13	11	*	22	50†
Atherosclerosis	0†	0	0	0	0	0	0	0	*	0	0†	*	0	0	0	0†
Other diseases of circulatory system	10†	0	0	0	0	0	*	0	0	*	0†	*	0	0	0	0†
Aortic aneurysm and dissection	0†	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0†
Other disease of arteries, arterioles and capillaries	0†	0	0	0	0	0	*	0	0	*	0†	*	0	0	0	0†
Other disorders of circulatory system	10†	0	0	0	0	0	*	*	0	0	0†	*	0	0	0	0†
Influenza and pneumonia	69	0	0	0	*	0	22	*	7	*	40†	11	*	*	15	30†
Influenza	10†	0	0	0	*	0	7	0	0	*	10†	*	*	*	*	10†
Pneumonia	55	0	0	0	*	0	15	*	7	*	30†	10	*	*	13	30†
Other acute lower respiratory infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute bronchiolitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unspecified acute lower respiratory infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic lower respiratory diseases	43	0	0	0	0	0	*	0	*	*	10†	15	*	*	12	30†
Bronchitis, chronic and unspecified	0†	0	0	0	0	0	*	0	0	0	0†	0	0	0	0	0
Emphysema	0†	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0†
Asthma	0†	0	0	0	0	0	0	0	0	0	0	*	*	0	0	0†
Other chronic lower respiratory diseases	38	0	0	0	0	0	*	0	*	*	10†	13	*	*	12	30†
Pneumoconioses and chemical effects	0†	0	0	0	0	0	*	0	0	0	0†	0	0	0	0	0
Pneumonitis due to solids and liquids	23	0	0	0	*	0	6	*	0	0	10†	6	*	0	7	20†
Other disease of respiratory system	42	0	0	0	0	0	13	0	*	*	20†	*	*	*	16	30†
Peptic ulcer	0†	0	0	0	0	0	*	0	0	0	0†	0	0	0	*	0†
Diseases of appendix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hernia	0†	0	0	0	0	0	0	0	0	0	0	0	0	*	0	0†
Chronic liver disease and cirrhosis	236	0	0	*	6	0	41	6	12	21	90†	55	33	14	47	149
Alcoholic liver disease	170	0	0	0	*	0	31	*	7	15	60†	41	17	13	37	108
Other chronic liver disease and cirrhosis	66	0	0	*	*	0	10	*	*	6	30†	14	16	*	10	40†
Cholelithiasis and other disorders of gallbladder	0†	0	0	0	0	0	*	0	0	0	0†	0	0	0	*	0†
Nephritis, nephrotic syndrome and nephrosis	53	*	0	0	*	0	12	0	*	*	20†	*	14	*	10	30†
Acute and rapidly progressive nephritic and nephrotic syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic glomerulonephritis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renal failure	53	*	0	0	*	0	12	0	*	*	20†	*	14	*	10	30†
Others disorders of kidney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Infections of kidney	0†	0	0	0	0	0	*	0	0	0	0†	0	0	0	0	0
Hyperplasia of prostate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inflammatory diseases of female pelvic organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pregnancy, childbirth and the puerperium	0†	0	0	0	0	0	*	0	0	0	0†	*	0	0	0	0†

5.6 (continued)
DEATHS BY RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ALL AMERICAN INDIAN RESIDENTS OF ARIZONA	Resided on reservation										Resided off reservation				
		Cocopah Tribe	Fort Mohave Reservation	Havasupai Tribe	Hopi Tribe	Kaibab Indian Reservation	Navajo Nation	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	White Mountain Apache Tribe	Total	in Maricopa County	in Pima County	in Coconino County	elsewhere in Arizona	Total
Pregnancy with abortive outcome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other complications of pregnancy, childbirth and the puerperium	0†	0	0	0	0	0	*	0	0	0	0†	*	0	0	0	0†
Perinatal conditions	10†	0	0	0	0	0	0	0	*	*	0†	*	0	*	*	10†
Congenital anomalies, deformations and chromosomal abnormalities	20†	0	0	*	0	0	*	0	0	*	0†	7	*	*	9	20†
Symptoms, signs, abnormal findings	75	0	0	0	*	0	36	0	*	*	40†	8	*	*	17	30†
Total accidents	398	*	*	*	8	0	126	9	14	21	180†	77	33	26	81	217
Transport accidents	180	0	0	0	*	0	61	*	9	9	90†	31	15	9	40	95
Motor vehicle accidents	172	0	0	0	*	0	58	*	7	9	80†	30	15	9	39	93
Other land transport accidents	10†	0	0	0	0	0	*	0	*	0	10†	*	0	0	*	0†
Water, air, space	0†	0	0	0	*	0	0	0	0	0	0†	0	0	0	0	0
Nontransport accidents	218	*	*	*	6	0	65	*	*	12	100†	46	18	17	41	122
Falls	40	0	*	0	0	0	16	0	*	*	20†	7	*	*	*	20†
Accidental discharge of firearms	0†	0	0	0	0	0	*	0	0	0	0†	0	0	0	*	0†
Accidental drowning and submersion	10†	0	0	0	0	0	*	0	*	0	0†	0	0	0	*	0†
Accidental exposure to smoke, fire and flames	0†	0	0	0	0	0	0	0	0	*	0†	0	0	0	*	0†
Accidental poisoning	128	*	0	0	6	0	29	*	*	*	50†	37	10	10	23	80
Excessive natural heat	10†	0	0	0	0	0	*	0	*	0	0†	*	*	0	*	0†
Excessive natural cold	10†	0	0	0	0	0	*	0	0	*	10†	0	0	*	0	0†
Other and unspecified nontransport accidents	38	0	0	*	0	0	16	0	*	*	20†	*	*	*	8	20†
Intentional self-harm (suicide)	113	0	0	*	*	0	38	*	9	10	60†	15	10	10	14	49
By discharge of firearms	25	0	0	0	*	0	*	*	*	*	10†	*	*	*	7	20†
By other means	88	0	0	*	*	0	34	*	8	9	60†	10	7	8	7	32
Assault (homicide)	53	0	0	*	*	0	13	*	*	*	20†	11	7	*	11	30†
By discharge of firearms	25	0	0	0	0	0	*	*	*	0	10†	8	*	0	7	20†
By other means	28	0	0	*	*	0	9	0	0	*	20†	*	*	*	*	10†
Legal intervention	0†	0	0	0	0	0	0	0	0	0	0	0	0	0	*	0†
Events of undetermined intent	14	0	0	0	*	0	*	0	*	*	10†	*	*	*	*	10†
Discharge of firearms	0†	0	0	0	0	0	*	0	0	0	0†	0	*	0	0	0†
Other and unspecified events of undetermined intent	10†	0	0	0	*	0	*	0	*	*	10†	*	*	*	*	10†
Operations of war	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Complications of medical and surgical care	10†	0	0	0	0	0	*	0	0	*	0†	*	0	0	*	0†
Injury by firearms	55	0	0	0	*	0	10	*	*	*	20†	13	8	*	16	40†
Drug-induced deaths	90	*	0	0	0	0	14	*	*	*	20†	38	11	*	13	70†
Opioid-induced deaths	48	0	0	0	0	0	*	*	0	0	10†	30	*	*	*	40†
Alcohol-induced deaths	284	0	0	0	10	0	80	*	12	19	130†	50	27	24	57	158

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

5.7
DEATHS BY COUNTY OF RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	**ARIZONA**	**Apache**	**Cochise**	**Coconino**	**Gila**	**Graham**	**Greenlee**	**La Paz**	**Maricopa**	**Mohave**	**Navajo**	**Pima**	**Pinal**	**Santa Cruz**	**Yavapai**	**Yuma**	**Unknown**
Total, all causes	2,530†	489	0†	290	98	45	0	43	534	52	466	263	168	0†	33	29	13
Salmonella infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis and amebiasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Certain other intestinal infections	10†	*	0	0	0	0	0	0	0	0	*	*	*	0	0	0	0
Enterocolitis due to Clostridium difficile	10†	*	0	0	0	0	0	0	0	0	*	*	*	0	0	0	0
Tuberculosis	0†	0	0	0	0	0	0	0	0	0	*	0	0	0	0	0	0
Respiratory tuberculosis	0†	0	0	0	0	0	0	0	0	0	*	0	0	0	0	0	0
Other tuberculosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Whooping cough	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningococcal infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Septicemia	30†	10	0	*	0	*	0	*	*	0	*	7	*	0	0	*	0
Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral hepatitis	10†	0	0	0	0	0	0	0	6	0	0	*	*	0	0	0	0
Human immunodeficiency virus (HIV) disease	10†	*	0	*	0	0	0	0	*	0	*	*	0	0	0	0	0
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	20†	*	0	*	*	*	0	*	6	0	*	*	*	0	0	*	0
Malignant neoplasms	270†	55	*	39	10	*	0	7	53	*	48	28	15	0	6	*	*
Malignant neoplasm of lip, oral cavity and pharynx	0†	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0	0
Malignant neoplasm of esophagus	10†	0	0	*	0	0	0	0	*	0	*	*	0	0	0	0	0
Malignant neoplasm of stomach	20†	*	0	*	0	0	0	*	*	0	*	*	*	0	0	0	0
Malignant neoplasm of colon, rectum and anus	30†	*	0	*	*	0	0	0	*	0	8	*	*	0	*	0	0
Malignant neoplasm of liver and intrahepatic bile ducts	40†	*	0	*	0	*	0	0	9	0	*	8	*	0	*	*	0
Malignant neoplasm of pancreas	20†	7	*	*	*	0	0	*	*	0	*	*	*	0	*	0	0
Malignant neoplasm of larynx	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Malignant neoplasm of trachea, bronchus and lung	20†	*	*	*	*	0	0	0	8	0	*	0	0	0	*	0	0
Malignant melanoma of skin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malignant neoplasm of breast	10†	*	0	*	0	*	0	0	*	0	0	0	*	0	0	0	0
Malignant neoplasm of cervix uteri	0†	0	0	*	0	0	0	*	*	0	0	0	0	0	0	0	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	10†	0	0	*	0	0	0	0	*	0	*	*	0	0	0	*	0
Malignant neoplasm of ovary	10†	*	0	*	0	0	0	0	*	0	*	0	0	0	0	0	0
Malignant neoplasm of prostate	20†	*	0	*	0	0	0	*	*	0	9	0	0	0	0	0	0
Malignant neoplasm of kidney and renal pelvis	20†	7	0	*	*	0	0	0	*	0	*	*	*	0	0	0	0
Malignant neoplasm of bladder	0†	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

5.7 (continued)
DEATHS BY COUNTY OF RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	**ARIZONA**	**Apache**	**Cochise**	**Coconino**	**Gila**	**Graham**	**Greenlee**	**La Paz**	**Maricopa**	**Mohave**	**Navajo**	**Pima**	**Pinal**	**Santa Cruz**	**Yavapai**	**Yuma**	**Unknown**
Malignant neoplasm of meninges, brain and other parts of central nervous system	0†	0	0	0	*	0	0	0	0	0	*	0	*	0	*	0	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	30†	8	0	6	0	*	0	*	*	*	*	*	*	0	0	0	0
Hodgkin's disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Hodgkin's lymphoma	10†	*	0	*	0	0	0	0	*	0	*	*	*	0	0	0	0
Leukemia	10†	*	0	0	0	0	0	*	*	*	*	0	0	0	0	0	0
Multiple myeloma and immunoproliferative neoplasms	10†	*	0	*	0	*	0	0	0	0	*	*	*	0	0	0	0
Other and unspecified malignant neoplasms of lymphoid tissue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All other and unspecified malignant neoplasm	40†	8	0	6	*	0	0	*	8	*	*	*	*	0	0	0	*
In situ neoplasms	10†	0	0	0	0	0	0	0	*	0	*	0	*	0	*	0	0
Anemias	0†	0	0	0	0	0	0	0	0	0	*	0	0	0	0	0	0
Diabetes	180†	18	0	14	8	6	0	*	51	*	36	21	15	0	*	*	0
Nutritional deficiencies	20†	*	0	*	*	0	0	0	0	0	*	*	0	0	*	0	0
Malnutrition	10†	*	0	*	*	0	0	0	0	0	*	*	0	0	0	0	0
Other nutritional deficiencies	0†	0	0	*	0	0	0	0	0	0	*	0	0	0	*	0	0
Obesity	20†	*	0	0	*	0	0	0	*	*	*	*	0	0	0	0	0
Meningitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parkinson's disease	20†	*	0	*	*	0	0	0	*	*	*	0	0	0	0	0	0
Alzheimer's disease	40†	6	*	*	*	*	0	0	9	*	7	0	*	0	*	*	0
Major cardiovascular diseases	420†	81	0	41	18	6	0	10	95	14	71	41	23	*	6	6	*
Diseases of heart	290†	53	0	31	12	*	0	9	65	11	50	28	16	*	*	6	*
Acute rheumatic fever and chronic rheumatic heart disease	0†	*	0	0	0	0	0	0	0	0	0	*	0	0	0	*	0
Hypertensive heart disease	30†	*	0	*	*	0	0	*	8	0	8	*	*	0	0	*	0
Hypertensive heart and renal disease	0†	*	0	*	*	0	0	0	*	0	0	0	0	0	0	0	0
Ischemic heart disease	170†	30	0	23	*	*	0	8	36	7	28	19	9	0	*	*	*
Acute myocardial infarction	50†	13	0	6	0	*	0	0	11	0	6	*	*	0	*	*	*
Other acute ischemic heart disease	0†	*	0	*	0	0	0	0	0	0	*	*	0	0	0	0	0
Other forms of chronic ischemic heart disease	120†	16	0	16	*	*	0	8	25	7	21	14	8	0	*	*	*
Atherosclerotic cardiovascular disease	30†	*	0	*	*	0	0	*	14	*	*	*	0	0	*	0	0
All other forms of chronic ischemic heart disease	90†	11	0	12	*	*	0	7	11	*	17	13	8	0	*	*	*
Other heart diseases	80†	15	0	6	6	*	0	0	20	*	14	6	*	*	*	0	*
Acute and subacute endocarditis	0†	0	0	0	0	0	0	0	*	*	0	0	0	0	0	0	0
Diseases of pericardium and acute myocarditis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heart failure	20†	*	0	*	*	0	0	0	*	0	*	*	0	0	*	0	*
All other forms of heart disease	60†	11	0	*	*	*	0	0	17	*	10	*	*	*	0	0	0
Essential (primary) hypertension and hypertensive renal disease	30†	6	0	*	*	*	0	0	11	*	*	*	*	0	0	0	0
Cerebrovascular diseases	80†	21	0	6	*	*	0	*	14	*	16	11	6	0	*	0	0

5.7 (continued)
DEATHS BY COUNTY OF RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	**ARIZONA**	**Apache**	**Cochise**	**Coconino**	**Gila**	**Graham**	**Greenlee**	**La Paz**	**Maricopa**	**Mohave**	**Navajo**	**Pima**	**Pinal**	**Santa Cruz**	**Yavapai**	**Yuma**	**Unknown**
Atherosclerosis	0†	0	0	0	*	0	0	0	*	0	0	0	0	0	0	0	0
Other diseases of circulatory system	10†	*	0	0	0	0	0	0	*	0	*	0	0	0	0	0	0
Aortic aneurysm and dissection	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Other disease of arteries, arterioles and capillaries	0†	*	0	0	0	0	0	0	*	0	*	0	0	0	0	0	0
Other disorders of circulatory system	10†	*	0	*	0	0	0	0	*	0	0	0	0	0	0	0	0
Influenza and pneumonia	70†	13	0	8	6	*	0	*	12	*	17	*	*	0	0	0	*
Influenza	10†	*	0	*	*	0	0	0	*	0	*	*	0	0	0	0	*
Pneumonia	60†	11	0	*	*	*	0	*	11	*	12	*	*	0	0	0	*
Other acute lower respiratory infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute bronchiolitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unspecified acute lower respiratory infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic lower respiratory diseases	40†	*	0	*	*	*	0	*	15	0	*	*	*	0	*	*	0
Bronchitis, chronic and unspecified	0†	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Emphysema	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Asthma	0†	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0
Other chronic lower respiratory diseases	40†	*	0	*	*	*	0	*	13	0	*	*	*	0	*	*	0
Pneumoconioses and chemical effects	0†	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pneumonitis due to solids and liquids	20†	*	0	*	0	0	0	0	7	*	*	*	*	0	0	0	0
Other disease of respiratory system	40†	11	0	*	*	*	0	*	*	0	10	*	*	0	0	0	0
Peptic ulcer	0†	0	0	0	0	0	0	0	0	0	*	0	0	0	0	0	0
Diseases of appendix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hernia	0†	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic liver disease and cirrhosis	240†	25	0	26	8	*	0	*	61	6	51	33	16	0	0	*	*
Alcoholic liver disease	170†	16	0	23	*	*	0	*	46	*	38	17	13	0	0	*	*
Other chronic liver disease and cirrhosis	70†	9	0	*	*	*	0	0	15	*	13	16	*	0	0	0	0
Cholelithiasis and other disorders of gallbladder	0†	*	0	0	0	0	0	0	0	0	*	0	*	0	0	0	0
Nephritis, nephrotic syndrome and nephrosis	50†	*	0	7	*	*	0	0	*	*	7	14	7	0	*	*	0
Acute and rapidly progressive nephritic and nephrotic syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic glomerulonephritis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renal failure	50†	*	0	7	*	*	0	0	*	*	7	14	7	0	*	*	0
Others disorders of kidney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Infections of kidney	0†	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyperplasia of prostate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inflammatory diseases of female pelvic organs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pregnancy, childbirth and the puerperium	0†	*	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Pregnancy with abortive outcome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

5.7 (continued)
DEATHS BY COUNTY OF RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2018

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	**ARIZONA**	**Apache**	**Cochise**	**Coconino**	**Gila**	**Graham**	**Greenlee**	**La Paz**	**Maricopa**	**Mohave**	**Navajo**	**Pima**	**Pinal**	**Santa Cruz**	**Yavapai**	**Yuma**	**Unknown**
Other complications of pregnancy, childbirth and the puerperium	0†	*	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Perinatal conditions	10†	*	0	*	0	*	0	0	*	0	*	0	0	0	*	0	0
Congenital anomalies, deformations and chromosomal abnormalities	20†	0	0	*	*	0	0	0	7	*	*	*	*	0	0	0	0
Symptoms, signs, abnormal findings	80†	37	0	6	*	*	0	0	8	*	15	*	*	0	*	0	0
Total accidents	400†	82	0	54	11	*	0	7	86	6	71	33	31	0	*	*	*
Transport accidents	180†	40	0	18	7	*	0	6	35	*	35	15	14	0	*	*	*
Motor vehicle accidents	170†	38	0	18	*	*	0	6	34	*	32	15	14	0	*	*	*
Other land transport accidents	10†	*	0	0	*	0	0	0	*	0	*	0	0	0	0	0	0
Water, air, space	0†	0	0	0	0	0	0	0	0	0	*	0	0	0	0	0	0
Nontransport accidents	220†	42	0	36	*	*	0	*	51	*	36	18	17	0	*	*	*
Falls	40†	6	0	9	0	*	0	0	7	*	7	*	*	0	*	0	0
Accidental discharge of firearms	0†	*	0	0	0	0	0	0	0	0	0	0	0	0	0	*	0
Accidental drowning and submersion	10†	*	0	*	*	0	0	0	0	*	*	0	0	0	0	0	0
Accidental exposure to smoke, fire and flames	0†	0	0	0	0	0	0	0	0	0	*	0	*	0	0	0	0
Accidental poisoning	130†	22	0	19	*	0	0	0	42	0	17	10	11	0	*	*	*
Excessive natural heat	10†	*	0	*	*	0	0	*	*	0	*	*	0	0	0	0	0
Excessive natural cold	10†	*	0	*	0	0	0	0	0	0	*	0	0	0	0	0	0
Other and unspecified nontransport accidents	40†	11	0	6	*	0	0	*	*	0	9	*	*	0	0	*	0
Intentional self-harm (suicide)	110†	22	0	19	6	*	0	*	17	0	29	10	*	0	0	*	0
By discharge of firearms	30†	*	0	*	*	0	0	*	6	0	*	*	*	0	0	*	0
By other means	90†	18	0	17	*	*	0	0	11	0	26	7	*	0	0	0	0
Assault (homicide)	50†	7	0	8	0	*	0	*	12	*	9	7	7	0	0	0	0
By discharge of firearms	30†	*	0	*	0	*	0	0	9	*	*	*	6	0	0	0	0
By other means	30†	*	0	7	0	0	0	*	*	0	8	*	*	0	0	0	0
Legal intervention	0†	0	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0
Events of undetermined intent	10†	*	0	*	*	0	0	0	*	0	*	*	*	0	0	0	0
Discharge of firearms	0†	*	0	0	0	0	0	0	0	0	0	*	0	0	0	0	0
Other and unspecified events of undetermined intent	10†	*	0	*	*	0	0	0	*	0	*	*	*	0	0	0	0
Operations of war	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Complications of medical and surgical care	10†	*	0	0	0	0	0	*	*	0	*	0	0	0	0	0	0
Injury by firearms	60†	8	0	*	*	*	0	*	15	*	*	8	10	0	0	*	0
Drug-induced deaths	90†	10	0	9	*	*	0	0	42	0	*	11	9	0	*	*	*
Opioid-induced deaths	50†	*	0	*	0	0	0	0	34	0	0	*	*	0	0	0	0
Alcohol-induced deaths	280†	46	0	52	10	*	0	*	55	6	60	27	17	0	*	*	*

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

5.8
DEATHS FROM MOTOR VEHICLE INJURIES AMONG AMERICAN INDIANS BY PLACE OF RESIDENCE, GENDER, AND AGE GROUP, ARIZONA, 2018

			Resided on reservation						Resided off reservation				
		TOTAL	Hopi Tribe	Navajo Nation	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	White Mountain Apache Tribe	TOTAL	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	TOTAL
TOTAL	**ALL AGES**	170†	0†	60†	0†	10†	10†	80†	30†	20†	10†	40†	90†
	<1	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	10†	0	*	0	0	*	0†	0	0	0	*	0†
	5-14	0†	0	*	0	0	0	0†	0	0	*	0	0†
	15-24	25	*	8	*	*	*	20†	*	0	0	6	10†
	25-34	41	0	15	0	0	*	20†	*	*	*	15	20†
	35-44	36	0	9	0	0	*	10†	13	*	*	*	20†
	45-54	36	0	15	*	*	*	20†	*	*	*	6	20†
	55-64	14	0	6	0	0	0	6	*	*	*	*	10†
	65-74	10†	0	0	0	*	0	0†	*	*	0	*	10†
	75-84	0†	0	*	0	*	0	0†	0	0	0	0	0
	85+	0	0	0	0	0	0	0	0	0	0	0	0
M	**ALL AGES**	120†	0	50†	0†	0†	10†	60†	20†	10†	10†	30†	70†
	<1	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	10†	0	*	0	0	*	0†	0	0	0	*	0†
	5-14	0†	0	0	0	0	0	0	0	0	*	0	0†
	15-24	15	0	7	*	*	0	10†	*	0	0	*	10†
	25-34	27	0	11	0	0	0	11	*	*	0	11	20†
	35-44	27	0	8	0	0	*	10†	7	*	*	*	20†
	45-54	26	0	11	*	*	*	20†	*	*	*	*	10†
	55-64	10†	0	*	0	0	0	10†	*	*	*	*	10†
	65-74	10†	0	0	0	*	0	0†	*	*	0	*	10†
	75-84	0†	0	*	0	0	0	0†	0	0	0	0	0
	85+	0	0	0	0	0	0	0	0	0	0	0	0
F	**ALL AGES**	50†	0†	10†	0†	0†	0†	20†	10†	10†	0†	10†	30†
	<1	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	0	0	0	0	0	0	0	0	0	0	0	0
	5-14	0†	0	*	0	0	0	0†	0	0	*	0	0†
	15-24	10†	*	*	*	*	*	10†	*	0	0	*	0†
	25-34	14	0	*	0	0	*	10†	*	*	*	*	10†
	35-44	10†	0	*	0	0	0	0†	6	*	0	0	10†
	45-54	10†	0	*	0	*	0	10†	*	*	0	*	0†
	55-64	0†	0	*	0	0	0	0†	0	*	0	0	0†
	65-74	0	0	0	0	0	0	0	0	0	0	0	0
	75-84	0†	0	*	0	*	0	0†	0	0	0	0	0
	85+	0	0	0	0	0	0	0	0	0	0	0	0

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

5.9
INTENTIONAL SELF-HARM (SUICIDE) AMONG AMERICAN INDIANS BY PLACE OF RESIDENCE, GENDER, AND AGE GROUP, ARIZONA, 2018

			Resided on reservation							Resided off reservation				
		TOTAL	Havasupai Tribe	Hopi Tribe	Navajo Nation	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	White Mountain Apache Tribe	TOTAL	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	TOTAL
TOTAL	**ALL AGES**	110†	0†	0†	40†	0†	10†	10†	60†	20†	10†	10†	10†	50†
	<1	0	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	0	0	0	0	0	0	0	0	0	0	0	0	0
	5-14	10†	0	*	*	0	*	0	0†	0	*	0	0	0†
	15-24	37	*	*	11	0	6	*	20†	*	*	*	*	20†
	25-34	37	0	0	14	*	0	7	20†	*	*	*	6	20†
	35-44	19	0	*	6	*	*	*	10†	*	*	*	*	10†
	45-54	0†	0	0	*	0	*	0	0†	*	0	0	*	0†
	55-64	0†	0	0	*	0	0	0	0†	*	0	0	*	0†
	65-74	0†	0	0	*	0	0	*	0†	*	*	0	0	0†
	75-84	0†	0	0	*	0	0	0	0†	0	0	0	*	0†
	85+	0	0	0	0	0	0	0	0	0	0	0	0	0
M	**ALL AGES**	90†	0†	0†	40†	0†	10†	10†	60†	10†	10†	10†	10†	40†
	<1	0	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	0	0	0	0	0	0	0	0	0	0	0	0	0
	5-14	0†	0	0	*	0	0	0	0†	0	*	0	0	0†
	15-24	30	*	0	9	0	6	0	20†	*	*	*	*	10†
	25-34	33	0	0	14	*	0	6	20†	*	*	*	*	10†
	35-44	15	0	*	*	*	*	*	10†	*	*	*	*	10†
	45-54	0†	0	0	*	0	*	0	0†	*	0	0	0	0†
	55-64	0†	0	0	*	0	0	0	0†	*	0	0	*	0†
	65-74	0†	0	0	*	0	0	*	0†	*	*	0	0	0†
	75-84	0†	0	0	*	0	0	0	0†	0	0	0	*	0†
	85+	0	0	0	0	0	0	0	0	0	0	0	0	0
F	**ALL AGES**	20†	0	0†	0†	0	0†	0†	10†	0†	0†	0†	0†	10†
	<1	0	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	0	0	0	0	0	0	0	0	0	0	0	0	0
	5-14	0†	0	*	0	0	*	0	0†	0	*	0	0	0†
	15-24	10†	0	*	*	0	0	*	0†	*	0	*	*	0†
	25-34	0†	0	0	0	0	0	*	0†	*	0	*	*	0†
	35-44	0†	0	0	*	0	0	0	0†	*	0	*	*	0†
	45-54	0†	0	0	0	0	0	0	0	0	0	0	*	0†
	55-64	0	0	0	0	0	0	0	0	0	0	0	0	0
	65-74	0	0	0	0	0	0	0	0	0	0	0	0	0
	75-84	0	0	0	0	0	0	0	0	0	0	0	0	0
	85+	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

5.10
ASSAULT (HOMICIDE) AMONG AMERICAN INDIANS BY PLACE OF RESIDENCE, GENDER, AND AGE GROUP, ARIZONA, 2018

			Resided on reservation							Resided off reservation				
		TOTAL	Havasupai Tribe	Hopi Tribe	Navajo Nation	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	White Mountain Apache Tribe	TOTAL	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	TOTAL
TOTAL	**ALL AGES**	50†	0†	0†	10†	0†	0†	0†	20†	10†	10†	0†	10†	30†
	<1	0†	0	0	0	0	0	0	0	*	0	0	0	0†
	1-4	0†	0	0	0	0	0	*	0†	*	0	0	0	0†
	5-14	0	0	0	0	0	0	0	0	0	0	0	0	0
	15-24	10†	0	0	*	0	*	*	0†	*	0	0	0	0†
	25-34	30†	0	0	*	0	0	*	10†	6	6	*	6	20†
	35-44	10†	*	0	*	0	0	0	0†	*	*	*	*	10†
	45-54	10†	0	*	*	*	0	*	0†	0	0	0	*	0†
	55-64	0	0	0	0	0	0	0	0	0	0	0	0	0
	65-74	0†	0	0	*	0	0	0	0†	*	0	0	*	0†
	75-84	0†	0	0	*	0	0	0	0†	0	0	0	0	0
	85+	0	0	0	0	0	0	0	0	0	0	0	0	0
M	**ALL AGES**	40†	0†	0†	10†	0†	0	0†	10†	10†	10†	0†	10†	30†
	<1	0†	0†	0†	0†	0†	0	0†	0†	*	0	0	0	0†
	1-4	0†	0†	0†	0†	0†	0†	0†	0	*	0	0	0	0†
	5-14	0	0†	0†	0†	0†	0†	0†	0	0	0	0	0	0
	15-24	0†	0†	0†	0†	0†	0†	0†	0†	*	0	0	0	0†
	25-34	20†	0†	0†	0†	0†	0†	0†	10†	6	6	*	*	20†
	35-44	10†	0†	0†	0†	0†	0†	0†	0†	*	*	*	*	10†
	45-54	10†	0	0†	0†	0†	0†	0†	0†	0	0	0	*	0†
	55-64	0	0	0	0†	0	0†	0†	0	0	0	0	0	0
	65-74	0†	0	0	0†	0	0†	0†	0†	*	0	0	*	0†
	75-84	0	0	0	0†	0	0†	0†	0	0	0	0	0	0
	85+	0	0	0	0†	0	0†	0†	0	0	0	0	0	0
F	**ALL AGES**	10†	0	0	0†	0	0†	0†	10†	0	0	0†	0†	0†
	<1	0	0	0	0†	0	0†	0†	0	0	0	0	0	0
	1-4	0†	0	0	0†	0	0†	0†	0†	0	0	0	0	0
	5-14	0	0	0	0†	0	0†	0†	0	0	0	0	0	0
	15-24	0†	0	0	0†	0	0†	0†	0†	0	0	0	0	0
	25-34	0†	0	0	0†	0	0	0†	0	0	0	*	*	0†
	35-44	0†	0	0	0†	0	0	0†	0†	0	0	0	0	0
	45-54	0†	0	0	0†	0	0	0†	0†	0	0	0	0	0
	55-64	0	0	0	0†	0	0	0	0	0	0	0	0	0
	65-74	0	0	0	0†	0	0	0	0	0	0	0	0	0
	75-84	0†	0	0	0†	0	0	0	0†	0	0	0	0	0
	85+	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

5.11
DIABETES-RELATED DEATHS AMONG AMERICAN INDIANS BY PLACE OF RESIDENCE, GENDER, AND AGE GROUP, ARIZONA, 2018

			Resided on reservation									Resided off reservation				
		TOTAL	Cocopah Tribe	Havasupai Tribe	Hopi Tribe	Kaibab Indian Reservation	Navajo Nation	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	White Mountain Apache Tribe	TOTAL	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	TOTAL
TOTAL	**ALL AGES**	410†	0†	0†	10†	0†	90†	10†	20†	20†	150†	90†	40†	20†	110†	260†
	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15-24	0†	0	0	0	0	0	0	0	0	0	*	0	0	0	0†
	25-34	0†	0	0	0	0	0	0	0	0	0	*	0	0	*	0†
	35-44	27	0	0	0	0	*	0	*	*	10†	9	*	*	*	20†
	45-54	51	*	0	0	0	11	0	*	*	20†	16	6	*	8	30†
	55-64	107	0	*	*	0	21	8	7	*	40†	28	9	*	23	70†
	65-74	104	0	*	*	0	22	*	*	*	40†	24	11	*	30	70†
	75-84	84	0	0	*	*	18	*	*	*	30†	11	12	*	31	60†
	85+	35	0	0	*	0	13	0	*	0	20†	*	*	0	12	20†
M	**ALL AGES**	222	0†	0	10†	0	50†	10†	10†	10†	90†	50†	20†	10†	50†	137
	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	35-44	20†	0	0	0	0	*	0	*	0	10†	6	*	*	*	10†
	45-54	28	*	0	0	0	9	0	*	0	10†	7	*	*	*	20†
	55-64	59	0	0	*	0	11	*	*	*	20†	20	*	*	12	40†
	65-74	59	0	0	*	0	15	0	*	*	20†	11	8	*	15	40†
	75-84	44	0	0	*	0	7	*	*	*	10†	*	8	*	17	30†
	85+	16	0	0	*	0	8	0	*	0	10†	*	0	0	*	10†
F	**ALL AGES**	190†	0	0†	10†	0†	40†	10†	10†	10†	70†	40†	20†	10†	60†	120†
	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15-24	0†	0	0	0	0	0	0	0	0	0	*	0	0	0	0†
	25-34	0†	0	0	0	0	0	0	0	0	0	*	0	0	*	0†
	35-44	10†	0	0	0	0	*	0	0	*	0†	*	*	*	*	10†
	45-54	20†	0	0	0	0	*	0	*	*	10†	9	*	0	*	20†
	55-64	48	0	*	*	0	10	*	*	0	20†	8	*	*	11	30†
	65-74	45	0	*	*	0	7	*	0	*	10†	13	*	0	15	30†
	75-84	40	0	0	*	*	11	0	*	*	20†	7	*	0	14	30†
	85+	19	0	0	*	0	*	0	*	0	10†	*	*	0	8	10†

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; Diabetes-related: deaths due to diabetes reported as multiple cause of death (any mention of diabetes on the death certificate). The number of deaths due to diabetes as the underlying cause of death (183 in 2018) is shown in Tables 5.4 - 5.7.

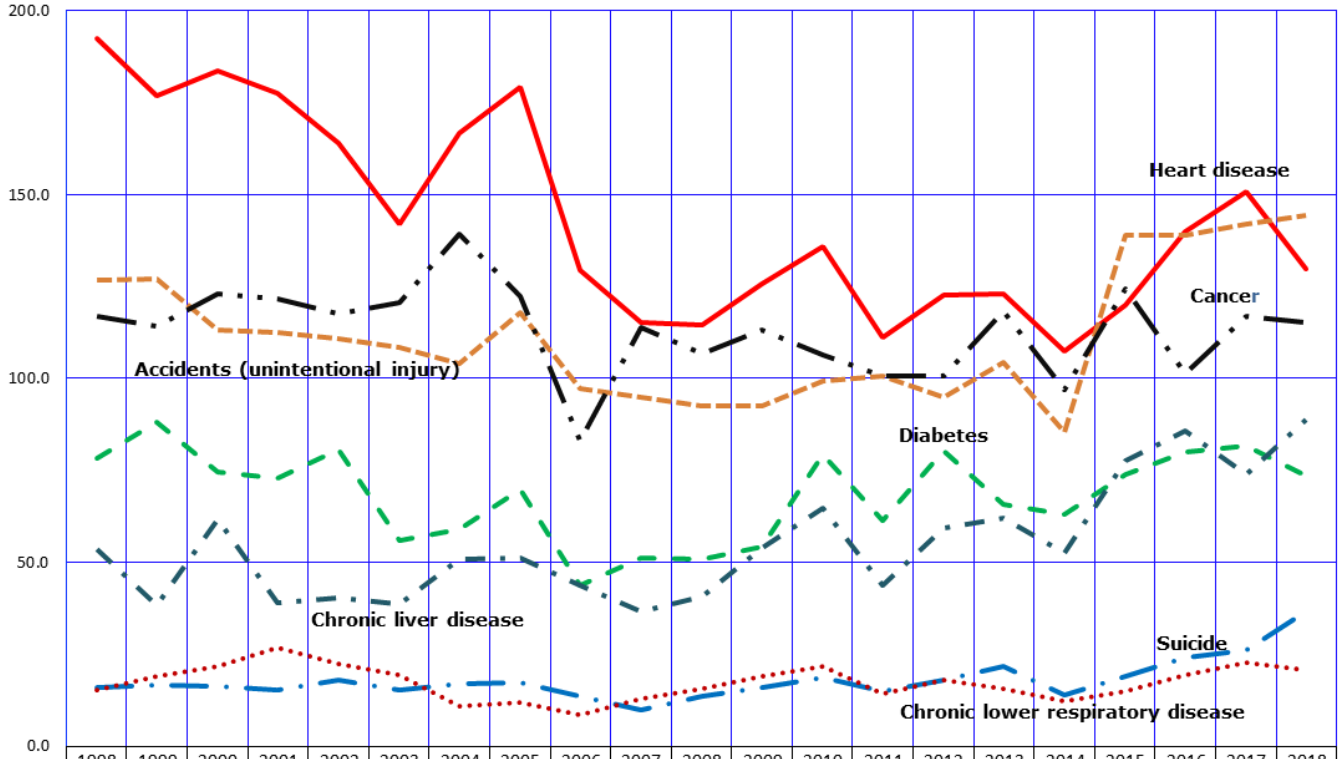
5.12
ALCOHOL-INDUCED DEATHS AMONG AMERICAN INDIANS BY PLACE OF RESIDENCE, GENDER, AND AGE GROUP, ARIZONA, 2018

			Resided on reservation						Resided off reservation				
		TOTAL	Hopi Tribe	Navajo Nation	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	White Mountain Apache Tribe	TOTAL	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	TOTAL
TOTAL	**ALL AGES**	280†	10†	80†	10†	10†	20†	130†	50†	30†	20†	60†	160†
	<1	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	0	0	0	0	0	0	0	0	0	0	0	0
	5-14	0	0	0	0	0	0	0	0	0	0	0	0
	15-24	0†	0	0	0	*	0	0†	0	*	0	*	0†
	25-34	38	0	9	0	0	8	17	6	*	*	7	20†
	35-44	70	*	16	*	*	*	30†	16	*	8	11	40†
	45-54	81	*	23	0	*	*	30†	14	13	7	16	50
	55-64	66	*	23	*	*	*	30†	9	*	*	17	30†
	65-74	20	*	6	0	0	0	10	*	0	0	*	10†
	75-84	10†	0	*	*	0	0	0†	0	*	0	0	0†
	85+	0†	0	0	0	*	0	0†	0	0	0	0	0
M	**ALL AGES**	170†	10†	50†	0†	10†	10†	80†	30†	20†	10†	30†	90†
	<1	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	0	0	0	0	0	0	0	0	0	0	0	0
	5-14	0	0	0	0	0	0	0	0	0	0	0	0
	15-24	0†	0	0	0	*	0	0†	0	0	0	*	0†
	25-34	20	0	*	0	0	*	10†	*	*	*	*	10†
	35-44	41	*	*	*	*	*	20†	8	*	6	8	30†
	45-54	44	*	14	0	*	*	20†	11	*	*	9	30†
	55-64	46	*	19	*	*	*	30†	*	*	*	8	20†
	65-74	15	*	6	0	0	0	9	*	0	0	*	10†
	75-84	0†	0	*	*	0	0	0†	0	*	0	0	0†
	85+	0†	0	0	0	*	0	0†	0	0	0	0	0
F	**ALL AGES**	110†	0†	30†	0†	10†	10†	50†	20†	10†	10†	20†	70†
	<1	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	0	0	0	0	0	0	0	0	0	0	0	0
	5-14	0	0	0	0	0	0	0	0	0	0	0	0
	15-24	0†	0	0	0	0	0	0	0	*	0	0	0†
	25-34	18	0	*	0	0	*	10†	*	*	*	*	10†
	35-44	29	0	12	*	*	0	20†	8	*	*	*	10†
	45-54	37	0	9	0	*	*	10†	*	8	*	7	20†
	55-64	20†	*	*	0	0	0	10†	*	0	*	9	20†
	65-74	10†	*	0	0	0	0	1	*	0	0	*	0†
	75-84	0†	0	*	0	0	0	0†	0	0	0	0	0
	85+	0	0	0	0	0	0	0	0	0	0	0	0

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

Comparative Cause-Specific Mortality

5.13
Temporal Changes[a] in the Selected Leading Causes of Death among American Indian Residents of Arizona, 1998-2018



	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Heart disease	192.4	177.0	183.8	177.7	164.0	141.9	166.9	179.1	129.4	115.2	114.6	125.8	135.9	111.1	122.7	122.9	107.5	119.9	139.9	150.9	129.9
Accidents (unintentional injury)	126.8	127.0	113.1	112.7	111.0	108.6	103.9	117.8	97.2	95.0	92.6	92.6	99.2	100.6	94.8	104.5	85.4	139.0	139.1	142.0	144.5
Cancer	117.0	114.1	123.0	121.7	117.6	120.7	139.3	122.2	83.1	113.9	106.7	113.3	106.4	100.8	100.8	118.2	97.1	124.4	101.2	117.1	115.3
Diabetes	78.4	88.3	74.6	72.8	80.8	55.8	59.0	69.9	43.9	51.1	50.8	54.2	79.3	61.3	80.2	65.7	63.2	73.9	79.9	81.6	73.6
Chronic liver disease	53.5	38.5	61.7	39.1	40.5	38.8	51.0	51.2	43.6	36.8	40.7	54.0	64.6	43.6	59.2	62.0	52.7	77.6	85.9	74.0	88.8
Suicide	16.1	16.6	16.2	15.4	17.9	15.2	17.0	17.5	13.7	9.8	13.5	15.9	18.7	14.9	17.9	21.9	13.9	19.0	24.2	26.2	36.5
Chronic lower respiratory disease	15.2	19.2	21.9	26.8	22.3	19.4	10.8	12.0	8.4	13.0	15.8	19.2	21.7	14.4	18.0	15.5	12.4	14.8	19.5	22.9	20.8

Notes: [a] Based on age-adjusted mortality rates: Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

5.14
Five Leading Causes of Death[a] by Gender among American Indian Residents of Arizona in 2018

Rank	Female	Both	Male
1	Diseases of heart 108.6	Accidents (unintentional injury) 144.5	Accidents (unintentional injury) 224.0
2	Cancer 92.6	Diseases of heart 129.9	Diseases of heart 156.0
3	Chronic liver disease and cirrhosis 77.1	Cancer 115.3	Cancer 149.6
4	Accidents (unintentional injury) 74.5	Chronic liver disease and cirrhosis 88.8	Chronic liver disease and cirrhosis 101.9
5	Diabetes 59.1	Diabetes 73.6	Diabetes 92.4

Notes: [a] Based on age-adjusted mortality rates: Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.
Source: Table 2B-4 in the "Arizona Health Status and Vital Statistics 2018" report.

5.15
Five Leading Causes of Death[a] among American Indians by Gender and Residence On or Off Reservation, Arizona, 2018

Rank	Female, resided on reservation	Female, resided off reservation	Male, resided on reservation	Male, resided off reservation
1	Diseases of heart 11.4	Diseases of heart 13.5	Accidents (unintentional injury) 21.2	Accidents (unintentional injury) 19.3
2	Cancer 11.4	Cancer 12.0	Cancer 10.6	Diseases of heart 11.6
3	Accidents (unintentional injury) 10.3	Chronic liver disease and cirrhosis 10.6	Diseases of heart 10.0	Chronic liver disease and cirrhosis 10.1
4	Chronic liver disease and cirrhosis 8.9	Accidents (unintentional injury) 9.6	Intentional self-harm (suicide) 8.7	Cancer 9.5
5	Diabetes 6.8	Diabetes 8.2	Chronic liver disease and cirrhosis 7.5	Diabetes 8.1

Note: [a] Percent of total deaths in specified group.

5.16
Proportional Mortality[a] by Type of Cancer and Gender among American Indians and all Residents of Arizona, 2008-2018

Rank	Arizona male[b]	American Indian male	Arizona female[b]	American Indian female
1	Trachea, bronchus, lung 24.7	Liver 13.2	Trachea, bronchus, lung 24.3	Breast 11.4
2	Lymphoma 10.8	Prostate 11.8	Breast 15.2	Lymphoma 9.6
3	Prostate 10.1	Colon, rectum, anus 10.3	Lymphoma 9.1	Colon, rectum, anus 8.6
4	Colon, rectum, anus 9.0	Lymphoma 10.0	Colon, rectum, anus 9.0	Liver 8.5
5	Pancreas 7.0	Kidney 8.4	Pancreas 7.3	Ovary 8.0
6	Liver 5.4	Trachea, bronchus, lung 8.1	Ovary 5.7	Trachea, bronchus, lung 7.7
7	Leukemia 4.5	Stomach 7.6	Leukemia 3.6	Pancreas 7.5
8	Esophagus 4.1	Pancreas 6.2	Non-Hodgkin's lymphoma 3.4	Corpus uteri and uterus 4.8
9	Bladder 4.0	Leukemia 3.7	Liver 3.1	Stomach 4.6
10	Non-Hodgkin's lymphoma 3.7	Esophagus 3.6	Corpus uteri and uterus 3.0	Kidney 4.3

Notes: [a] Percent of cancer deaths in specified group in 2008-2018.
[b] All race/ethnic groups combined.
Source: Table 5-18 for percentages based on frequency counts.

5.17
Proportional Mortality[a] by Mechanism of Unintentional Injury and Gender among American Indians and all Residents of Arizona, 2008-2018

Rank	Arizona male[b]	American Indian male	Arizona female[b]	American Indian female
1	Poisoning by drugs 29.5	Motor vehicle-related 41.5	Falls 38.2	Motor vehicle-related 48.5
2	Motor vehicle accidents 28.8	Poisoning by gases 16.6	Poisoning by drugs 26.7	Falls 13.3
3	Falls 20.7	Poisoning by drugs 12.5	Motor vehicle-related 19.8	Poisoning by drugs 12.9
4	Poisoning by gases 3.8	Falls 8.0	Misadventures to patients 2.0	Poisoning by gases 9.4
5	Accidental drowning 3.1	Exposure to cold 4.1	Accidental drowning 1.9	Misadventures to patients 2.0
6	Exposure to heat 2.1	Accidental drowning 2.8	Poisoning by gases 1.9	Accidental drowning 1.9
7	Choked on other objects 1.4	Exposure to heat 1.7	Choked on other objects 1.6	Exposure to heat 1.8
8	Misadventures to patients 1.2	Mechanical suffocation 1.5	Exposure to heat 1.5	Exposure to cold 1.8
9	Fire, flames, smoke 1.2	Fire, flames, smoke 1.4	Choked on food 1.3	Mechanical suffocation 1.7
10	Choked on food 1.0	Choked on other objects 1.2	Fire, flames, smoke 1.1	Fire, flames, smoke 1.3

Notes: [a] Percent of unintentional injury deaths in specified group in 2008-2018.
[b] All race/ethnic groups combined.
Source: Table 5-19 for percentages based on frequency counts.

5.18
COMPARISON OF MORTALITY BY SPECIFIC TYPE OF CANCER BY GENDER AMONG AMERICAN INDIANS AND ALL RESIDENTS[a] OF ARIZONA, 2008-2018

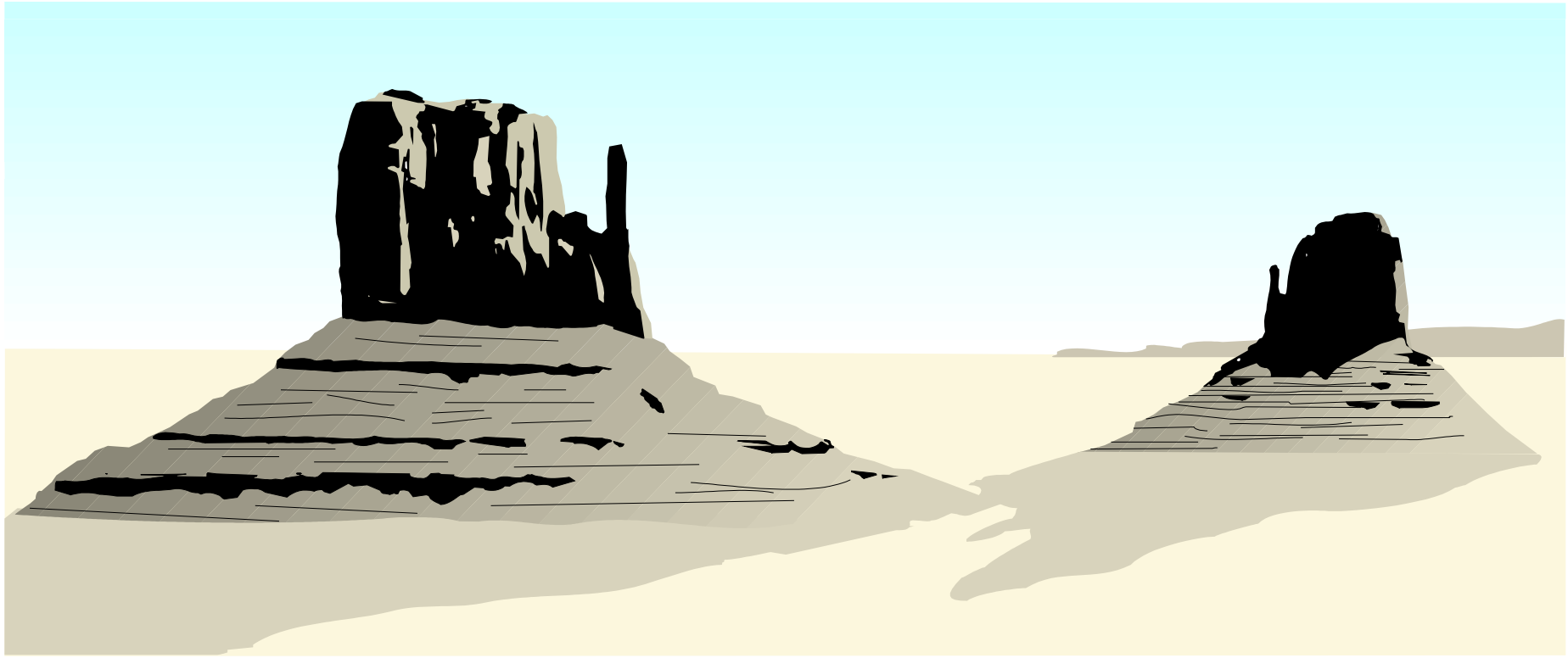
	ALL RESIDENTS OF ARIZONA			AMERICAN INDIANS OR ALASKA NATIVES		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Malignant neoplasms, total	121,164	65,548	55,614	2,548	1,254	1,294
Malignant neoplasm of lip, oral cavity and pharynx	1,683	1,219	464	25	18	7
Malignant neoplasm of esophagus	3,298	2,664	634	66	45	21
Malignant neoplasm of stomach	2,257	1,336	921	154	95	59
Malignant neoplasm of colon, rectum and anus	10,894	5,913	4,980	240	129	111
Malignant neoplasm of liver and intrahepatic bile ducts	5,283	3,540	1,743	275	165	110
Malignant neoplasm of pancreas	8,629	4,566	4,063	175	78	97
Malignant neoplasm of larynx	652	519	133	10†	*	*
Malignant neoplasm of trachea, bronchus and lung	29,681	16,186	13,495	202	102	100
Malignant melanoma of skin	2,228	1,516	712	10†	6	*
Malignant neoplasm of breast	8,552	84	8,468	150†	*	147
Malignant neoplasm of cervix uteri	820	0	820	37	0	37
Malignant neoplasm of corpus uteri and uterus, part unspecified	1,695	0	1,695	62	0	62
Malignant neoplasm of ovary	3,149	0	3,149	103	0	103
Malignant neoplasm of prostate	6,649	6,649	0	148	148	0
Malignant neoplasm of kidney and renal pelvis	3,111	2,096	1,015	160	105	55
Malignant neoplasm of bladder	3,480	2,609	870	21	13	8
Malignant neoplasm of meninges, brain and other parts of central nervous system	3,455	1,948	1,507	47	27	20
Malignant neoplasm of lymphoid, hematopoietic and related tissue	12,127	7,054	5,073	250	126	124
Hodgkin's disease	234	132	102	10†	*	*
Non-Hodgkin's lymphoma	4,333	2,446	1,887	75	37	38
Leukemia	4,989	2,965	2,024	88	46	42
Multiple myeloma and immunoproliferative neoplasms	2,556	1,501	1,055	82	40	42
Other and unspecified malignant neoplasms of lymphoid tissue	20†	10	*	0	0	0
All other and unspecified malignant neoplasms	13,521	7,652	5,869	416	190	226

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; [a] All racial/ethnic groups combined.

5.19
UNINTENTIONAL INJURY DEATHS BY MECHANISM AND GENDER AMONG AMERICAN INDIANS AND ALL RESIDENTS[a] OF ARIZONA, 2008-2018

	ALL RESIDENTS OF ARIZONA			AMERICAN INDIANS OR ALASKA NATIVES		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Unintentional injury, total	36,181	22,733	13,448	3,410	2,434	976
Railway accidents	90	77	13	30†	26	*
Motor vehicle accidents	9,209	6,541	2,668	1,484	1,011	473
Water transport accident	30†	29	*	0†	*	0
Accident involving aircraft	155	126	29	0†	*	0
Poisoning by drugs/medicaments	10,283	6,695	3,588	431	305	126
Poisoning by gases and vapors	1,120	867	253	496	404	92
Falls	9,833	4,697	5,136	324	194	130
Fire, flames, smoke	419	269	150	48	35	13
Excessive natural heat	665	467	198	60	42	18
Excessive natural cold	224	176	48	119	101	18
Contact with venomous snakes and lizards	10	10	0	0†	*	0
Contact with venomous spiders	0†	0	*	0	0	0
Contact with scorpions	0†	*	0	0	0	0
Contact with hornets, wasps, bees	12	12	0	0†	*	0
Bitten or struck by dog	17	9	8	10†	*	*
Lightning	10†	9	*	0†	*	0
Storms and floods	16	9	7	0	0	0
Accidental drowning and submersion	966	709	257	86	67	19
Choked on food	396	226	170	20†	16	*
Choked on other objects	519	310	209	40	28	12
Mechanical suffocation	327	219	108	53	36	17
Accidental discharge of firearms	84	76	8	11	11	0
Exposure to electric current	49	49	0	0†	*	0
Overexertion	0†	*	*	0	0	0
Adverse effects of drugs in therapeutic use	88	33	55	10†	*	0
Misadventures to patients during medical/surgical care	550	280	270	32	12	20

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; [a] All racial/ethnic groups combined.



TECHNICAL NOTES

Sources of Data

The tables in Sections I and II are based on rates and ratios published in the ***Arizona Health Status and Vital Statistics*** annual report.

Information on live births and deaths in Sections III and IV is compiled from the original documents filed with the Arizona Department of Health Services' Office of Vital Records, and from transcripts of original certificates filed in other states but affecting Arizona residents (copies of certificates for births and deaths occurring to Arizona residents outside the United States are not sent to Arizona).

Definitions

Rates

Rate is a measure of the frequency of some event in relation to a unit of population during a specified time period such as a year; events in the numerator of the year occur to individuals in the denominator. Rates express the likelihood (or risk) of the event in the specified population during a particular time and are generally expressed as units of population in the denominator (per 1,000, per 100,000, and so forth).

Terms Related to Reproductive Health

Birth or Live Birth - The complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy which, after such expulsion or extraction, breaths or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached.
Birth weight - The weight of a neonate determined immediately after delivery or as soon thereafter as possible.
Infant death - Any death at any time from birth up to, but not including, the first year of age (364 days, 23 hours, 59 minutes from the moment of birth).
Infant mortality rate - Number of infant deaths per 1,000 live births.
Low-birthweight - Any neonate weighing less than 2,500 grams at birth (less than 5 pounds 8 ounces).
Neonatal death - Death of a live-born neonate before the neonate becomes 28 days old (up to and including 27 days, 23 hours, 59 minutes from the moment of birth).
Neonatal mortality rate - Number of neonatal deaths per 1,000 live births.
Postneonatal death - Any death of a live-born infant at least 28 days of age but less than one year of age.
Postneonatal mortality rate - Number of postneonatal deaths per 1,000 live births.
Very low-birthweight - Any neonate whose weight at birth is 1,500 grams or less (less than 3 pounds 5 ounces).

Medical Terms Used on the Birth Certificate

Births with medical risk factors

Pre-existing diabetes - Metabolic disorder characterized by excessive discharge of urine and persistent thirst diagnosed prior to onset of pregnancy.
Gestational diabetes – The occurrence of diabetes during pregnancy.
Pre-existing hypertension - Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20th week of gestation.
Gestational hypertension - An increase in blood pressure of at least 30 mm hg systolic or 15 mm hg diastolic on two measurements taken 6 hours apart after the 20th week of gestation.
Eclampsia - The occurrence of convulsions and/or coma unrelated to other cerebral conditions in women with signs and symptoms of preeclampsia.
Previous preterm - Previous birth of an infant prior to term, before 37 completed weeks of gestation.
Other previous poor pregnancy outcome – History of pregnancies continuing into the 20th week of gestation and resulting in perinatal death, small-for-gestational age or intrauterine growth restricted birth.
Gonorrhea – A highly contagious sexually transmissible disease that is caused by bacterium Neisseria gonorrhea.
Syphilis – A sexually transmitted infection that can cause serious health problems if it is not treated. Syphilis is divided into stages (primary, secondary, latent, and tertiary), and there are different signs and symptoms associated with each stage.
Chlamydia – A wide-spread sexually transmissible disease caused by the bacterium Chlamydia trachomatis. Chlamydia during pregnancy can increase the risk of stillbirth or premature birth.
Hepatitis B – A potentially serious form of liver inflammation due to infection by the hepatitis B virus.
Hepatitis C – Type of liver inflammation that causes primarily a long-lasting disease.

Births with complications of labor and/or delivery

Premature rupture of membranes (more than 12 hours) - Rupture of membranes at any time during pregnancy and 12 hours before the onset of labor.
Precipitous labor - Extremely rapid labor and delivery lasting less than 3 hours.
Prolonged labor - Abnormally slow progress of labor lasting for 20 hours or more.
Breech presentation - At birth, presentation of the fetus in which the buttocks or feet appear first as opposed to head.
Chorioamnionitis – Acute inflammation of the membranes and chorion of the placenta, typically due to ascending infectious organisms in the setting of membrane rupture. Clinical signs of chorioamnionitis include fundal tenderness, maternal tachycardia (>100/min), fetal tachycardia (>160/min) and purulent or foul amniotic fluid.

Meconium staining of the amniotic fluid – Fetal defecation of meconium while in utero resulting in amniotic fluid with greenish discoloration. Moderate to heavy amounts of meconium in the amniotic fluid noted during labor and/or delivery indicate fetal distress.
Fetal intolerance - Fetal intolerance of fetus to labor such that one or more of the following actions, that is, in utero resuscitation measures, further fetal assessment, or operative delivery are taken to relieve fetal distress. In utero resuscitative measures include any of the following: maternal position change, oxygen administration to the mother, intravenous fluid administered to the mother, amnioinfusion, support of maternal blood pressure, and administration of uterine relaxing agents.
Maternal transfusion – Infusion of blood or blood components occurring 24 hours prior delivery or within 24 hours of delivery.
Third or fourth degree perineal laceration – Serious types of perineal injury that can be sustained during childbirth. A third-degree perineal laceration is a severe tear in the vaginal tissue, perineal skin, and perineal muscles that extends into the anal sphincter. A fourth-degree laceration is the most severe type of perineal injury; the tear goes completely into the anal sphincter through the rectal mucosa.
Ruptured uterus – Tearing of the uterus wall during labor and delivery.
Unplanned hysterectomy – Surgical removal of the uterus that was not planned prior to admission for delivery.
Admission to intensive care unit – Any admission, planned or unplanned, of the mother to a facility/unit designated as providing intensive care.
Unplanned surgery following delivery – Any unplanned operative procedure, excluding postpartum tubal ligations, prior to the admission for delivery.

Abnormal conditions of the newborn

Assisted ventilation immediately after delivery - A mechanical method of assisting respiration for newborns with respiratory failure, required immediately following delivery.
Assisted ventilation for more than 6 hours - Newborn placed on assisted ventilation for more than 6 hours.
Surfactant replacement therapy – Endotracheal instillation of a surface active suspension for the treatment of surfactant deficiency resulting in decreased lung compliance. The treatment is administered immediately after birth for extremely premature babies or later once respiratory problems have manifested themselves.
Suspected neonatal sepsis – Neonates presenting signs of sepsis-an invasive infection, commonly bacterial-occurring during the neonatal period. Treatment is with antibacterial drug given systemically (intravenous or intramuscular).
Seizure or serious neurologic dysfunction – A seizure of any etiology; neurologic impairment such as obtundation, stupor, or coma.
Significant* birth *injury - Impairment of the infant's body function or structure due to adverse influences that occurred at birth. Injuries include skeletal fracture(s), peripheral nerve injury and/or soft tissue/solid organ hemorrhage which require intervention. Skeletal fracture includes any bony fracture or weakness or loss of sensation, but excludes fractured clavicles and transient facial nerve palsy. Soft tissue hemorrhage includes sub-galeal (progressive extravasation within the scalp) hemorrhage, giant cephalohematoma, extensive truncal, facial and/or extremity ecchymossi accompanied by evidence of anemia and/or hypovolemia and/or hypotension. Solid organ, hemorrhage includes sub-capsular hematoma of the liver, fractures of the spleen, or adrenal hematoma.

Congenital anomalies of the newborn

Anencephalus – Absence of the cerebral hemispheres.
Spina bifida/meningocele – Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.
Cyanotic congenital heart disease – Congenital anomalies of heart.
Congenital diaphragmatic hernia – Defect in the diaphragm, characterized by an abnormal opening that allows abdominal organs to move into the chest, usually resulting in respiratory distress.
Omphalocele/Gastroschisis – An omphalocele is a protrusion of variable amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.
Limb reduction defect – Complete or partial absence of any part of a limb or limbs, excluding congenital amputation and dwarfing syndromes.
Cleft lip/palate – Cleft lip is a fissure or elongated opening of the lip; cleft palate is a fissure in the roof of the mouth. These are failures of embryonic development.
Down syndrome – The most common chromosomal defect with most cases resulting from an extra chromosome (trisomy 21).
Suspected chromosomal disorder – Any group of congenital malformations resulting from or compatible with known syndromes caused by noticeable defects in chromosome structure.
Hypospadias – Congenital anomaly of the male genitalia characterized by an incomplete closure of the urethra.

Terms Related to Mortality

Age-adjusted mortality rates - Because mortality from most causes of death occurs predominately among the elderly, a population group with a larger proportion of older persons would have a higher mortality rate.

The "age-adjustment" removes the effect of the age differences among sub-populations (or in the same population over time) by placing them all in a population with a standard age distribution. All age-adjusted mortality rates in this report were computed by the direct method, that is by weighting the age-specific rates for a given year by the age distribution of a standard population. The weighted age-specific rates are then added to produce the summary rate for all ages combined.

Beginning with the 2000 data year, a new population standard for the age adjustment of mortality rates has replaced the standard based on the 1940 population and used since 1943.

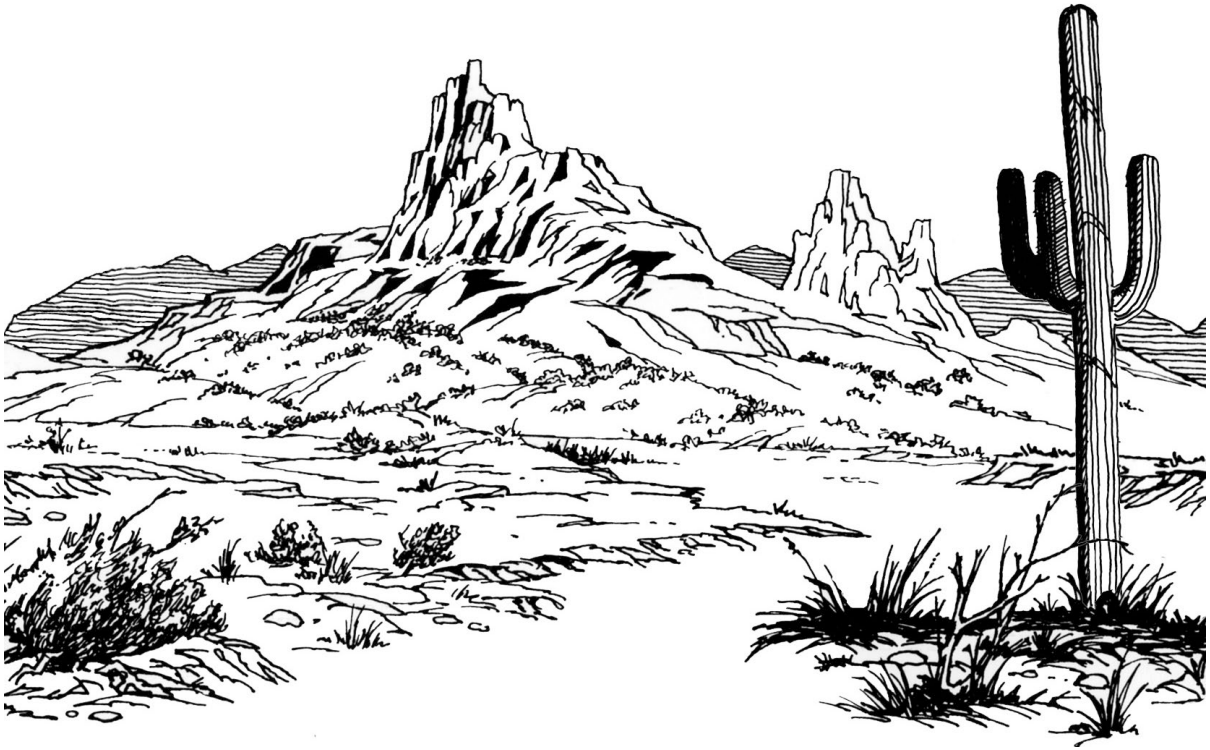
The new standard uses the age composition of the 2000 U.S. projected population. The standard is expressed in terms of a "standard million": the relative distribution of the 2000 population of the United States totaling 1 million in 10-year age groups:

Age group	2018 population of American Indians	2018 deaths among American Indians	Age-specific rates for American Indians in 2018	2000 standard	Age-adjusted rate for American Indians in 2018
A	B	C	D	E	F
			(C/B)*100000		D*E
<1	4,450	44	988.8	0.013818	13.7
1-4	18,866	13	68.9	0.055317	3.8
5-14	49,870	15	30.1	0.145565	4.4
15-24	48,723	95	195.0	0.138646	27.0
25-34	48,909	255	521.4	0.135573	70.7
35-44	36,274	260	716.8	0.162613	116.6
45-54	33,813	353	1044.0	0.134834	140.8
55-64	29,577	421	1423.4	0.087247	124.2
65-74	17,450	387	2217.8	0.066037	146.5
75-84	8,067	373	4623.8	0.044842	207.3
85+	2,662	311	11682.9	0.015508	181.2
	298,661	2,527		TOTAL	**1036.1**

Age-specific mortality - Number of deaths in a specific age group during a calendar year.
Cause of death - For the purpose of national mortality statistics, every death is attributed to one underlying condition, based on information reported on the death certificate and utilizing the international rules for selecting the underlying cause of death from the reported conditions.
Cause-specific mortality - Number of deaths from a specified cause during a calendar year.
Classification of causes of death - The cause of death used in this report is the underlying cause classified according to the *International Classification of Diseases (ICD).* Beginning with the 2000 data year in Arizona (1999 nationally), a new revision of the International Classification of Diseases was implemented. The Tenth Revision (ICD-10) has replaced the Ninth Revision (ICD-9), which was in effect since 1979.
Drug-induced deaths – This category was expanded in 2003. Causes of death attributable to drug-related mortality include mental and behavioral disorders due to psychoactive substance use, accidental poisoning by and exposure to drugs, suicide by drugs, homicide by drugs and poisoning by drugs, undetermined intent.

Opioid-induced deaths – This sub-category was included in 2016. Opioids include drugs such as morphine, heroin, oxycodone, tramadol, and methadone.
Firearm mortality – Causes of death attributable to firearm mortality include accidental discharge of firearms, suicide by firearms, homicide by firearms, legal intervention involving discharge of firearms, terrorism involving firearms and discharge of firearms, undetermined intent.

Our Web site at http://pub.azdhs.gov/health-stats provides access to a wide range of statistical information about the health status of Arizonans. The Arizona Health Status and Vital Statistics annual report examines trends in natality, mortality, and morbidity towards established health objectives. Additional reports and studies include Advance Vital Statistics by County of Residence, Injury Mortality among Arizona Residents (accidents, suicides, homicides, legal intervention, firearm-related fatalities, drug-related deaths, drowning deaths, falls among Arizonans 65 years or older), Hospital Inpatient and Emergency Room Statistics (first-listed diagnosis, procedures, mental disorders, asthma, diabetes, influenza and pneumonia, and substance abuse), Community Vital Statistics, Teenage Pregnancy, Differences in Health Status Among Racial/Ethnic Groups, and Health Status Profile of American Indians in Arizona.



ARIZONA DEPARTMENT OF HEALTH SERVICES
Bureau of Public Health Statistics
Population Health and Vital Statistics Section