

# **Health Status Profile of American Indians in Arizona**



ARIZONA DEPARTMENT  
OF HEALTH SERVICES

## **2019 Data Book**

~ Health and Wellness for all Arizonans ~



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State of Arizona

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# **HEALTH STATUS PROFILE OF AMERICAN INDIANS IN ARIZONA: 2019 DATA BOOK**

by

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# HEALTH STATUS PROFILE OF AMERICAN INDIANS IN ARIZONA 2019 DATA BOOK

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## INTRODUCTION

The report *Health Status Profile of American Indians in Arizona: 2019 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 2019.

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 2019 *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 2019 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 2009-2019 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 2019. 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 2009-2019 are classified by the Tenth Revision (ICD-10).

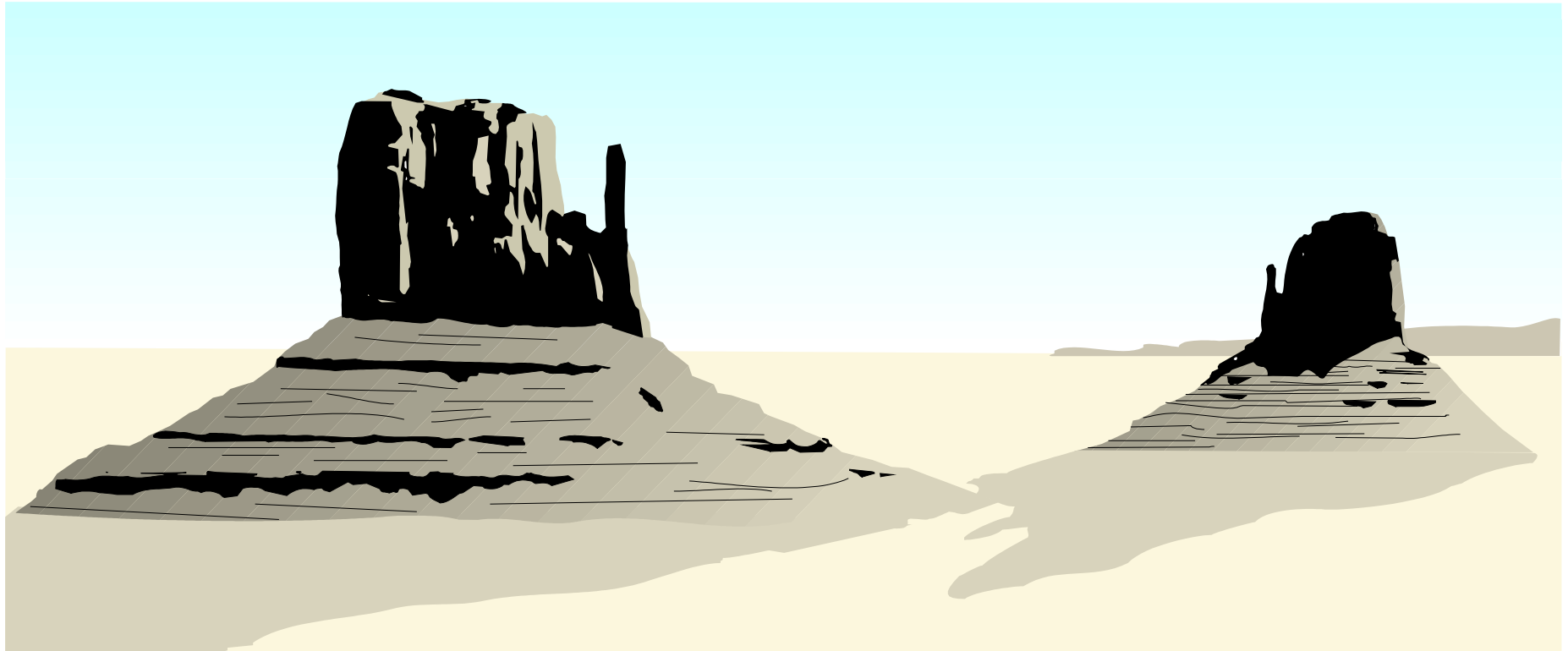
Identifying whether the vital events occurring to Arizona's Native American population were to those living on tribal reservations has posed a persistent challenge. Beginning with the first edition of this report published in 1995, vital events occurring on reservation were identified by place of residence. 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 2019 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: 2019 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 1998–2019 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 2019**



The risk profile presented on the following page summarizes how American Indians as a group compared in 2019 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 2019, AMERICAN INDIAN RESIDENTS OF ARIZONA:**

- **ranked worse than the statewide average on 53 of 65 health indicators;**
- **had high mortality from alcohol-induced causes, chronic liver disease and cirrhosis, diabetes, septicemia, motor vehicle accidents, nephritis, assault, unintentional injuries, influenza and pneumonia, post-neonatal mortality, drowning, and sudden infant death syndrome: all contributing to the premature death rate of 77.9 percent.**
- **ranked poorly on measures of maternal lifestyle and health, as well as in utilization of prenatal care;**
- **on average were 16 years younger at time of death compared to all racial/ethnic groups;**
- **ranked better than average on a number of health indicators including: mortality rates for several chronic diseases (lung cancer, chronic lower respiratory disease, Alzheimer's disease, cervical cancer, coronary heart disease, breast cancer, diseases of the heart, and malignant neoplasms).**

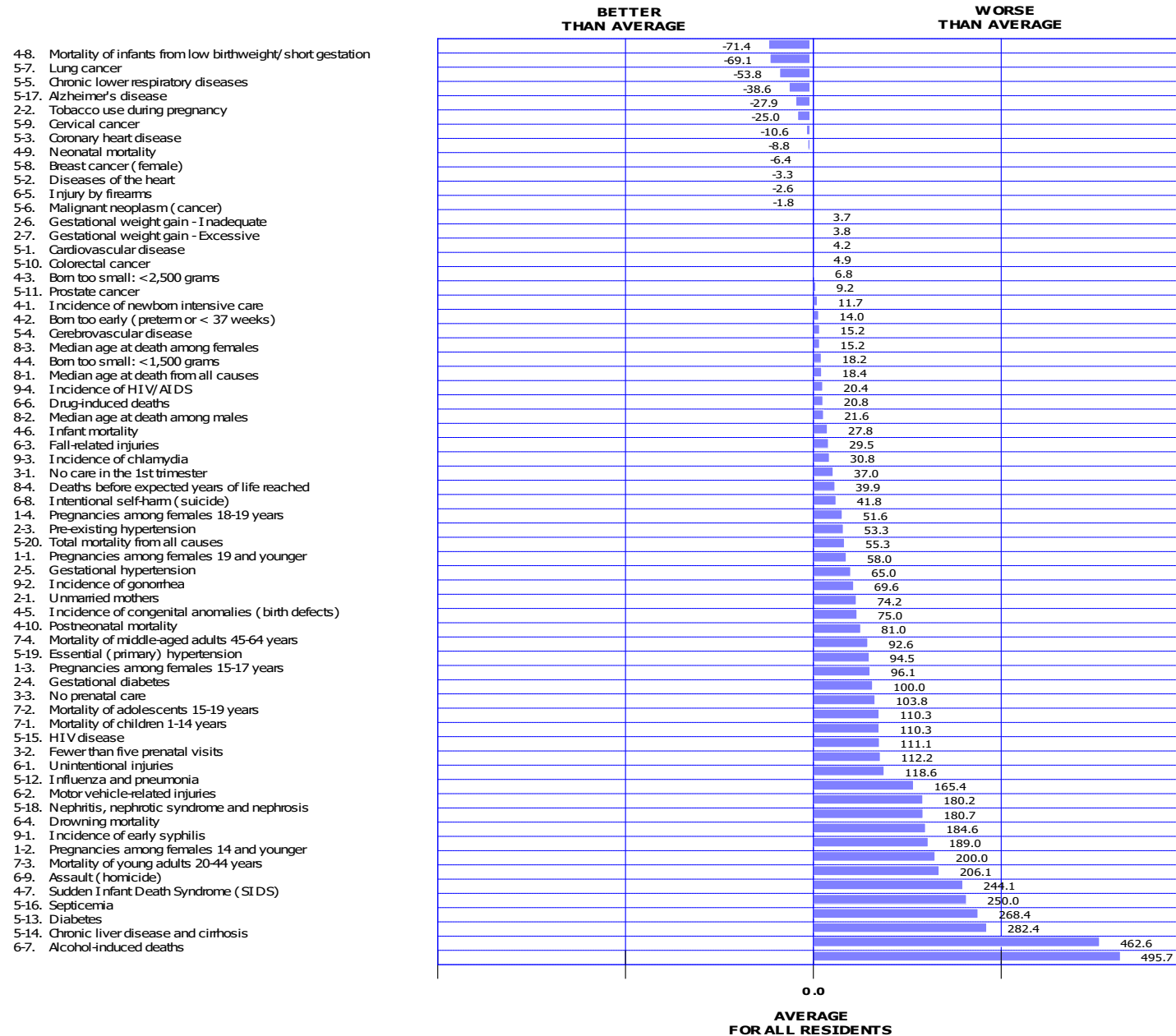
\* The comparative risk profiles for American Indian or Alaska Native, White non-Hispanic, Hispanic or Latino, Black or African American, and Asian or Pacific Islander residents of Arizona were developed for a report "**Differences in the Health Status among Racial/Ethnic Groups**". This publication 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 these indicators. A lower-than-average median age at death obviously reflects a worse off life expectancy.



## 2019 RISK PROFILE OF AMERICAN INDIANS

(Percent above or below the average rate or ratio of all Arizona residents in 2019)



## AMERICAN INDIANS' STANDING IN ARIZONA IN 2019 ON 65 INDICATORS OF HEALTH STATUS

### 1. TEEN PREGNANCIES

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

| Figure Number | Indicator                                 | 2019 rate for American Indians | Percent above or below the average rate for all groups | Average rate for all groups in 2019 | Definitions   |
|---------------|---|--------------------------------|--|-------------------------------------|---|
| 1-1           | Pregnancies among females 19 and younger  | 18.8                           | <b>58.0</b>  | 11.9                                | 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                            | <b>200.0</b>   | 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 | 20.0                           | <b>96.1</b>  | 10.2                                | 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 | 64.9                           | <b>51.6</b>  | 42.8                                | 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                            | 2019 rate for American Indians | Percent above or below the average rate for all groups | Average rate for all groups in 2019 | Definitions   |
|---------------|--------------------------------------|--------------------------------|--|-------------------------------------|---|
| 2-1           | Unmarried mothers                    | 78.4                           | <b>74.2</b>  | 45.0                                | The number of births to unmarried mothers per 100 births.   |
| 2-2           | Tobacco use during pregnancy         | 3.1                            | <b>-27.9</b>   | 4.3                                 | The number of mothers giving birth who self-reported tobacco use during pregnancy per 100 births.   |
| 2-3           | Pre-existing hypertension            | 2.3                            | <b>53.3</b>  | 1.5                                 | 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                 | 17.4                           | <b>100.0</b>   | 8.7                                 | 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             | 13.2                           | <b>65.0</b>  | 8.0                                 | 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 | 22.3                           | <b>3.7</b>   | 21.5                                | 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  | 48.8                           | <b>3.8</b>   | 47.0                                | 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 2019  
ON 65 INDICATORS OF HEALTH STATUS (continued)**

**3. UTILIZATION OF PRENATAL CARE SERVICES**

(Per 100 live births)

| Figure Number | Indicator                                | 2019 rate for American Indians | Percent above or below the average rate for all groups | Average rate for all groups in 2019 | Definitions  |
|---------------|--|--------------------------------|--|-------------------------------------|--|
| 3-1           | No care in the 1 <sup>st</sup> trimester | 42.6                           | <b>37.0</b>  | 31.1                                | The number of mothers giving birth who received no prenatal care in the 1 <sup>st</sup> trimester of pregnancy per 100 births. |
| 3-2           | Fewer than five prenatal visits          | 17.4                           | <b>112.2</b>   | 8.2                                 | The number of mothers giving birth who had fewer than five prenatal visits during pregnancy per 100 births.                    |
| 3-3           | No prenatal care                         | 5.3                            | <b>103.8</b>   | 2.6                                 | 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   | 2019 rate for American Indians | Percent above or below the average rate for all groups | Average rate for all groups in 2019 | Definitions   |
|---------------|---|--------------------------------|--|-------------------------------------|---|
| 4-1           | Incidence of newborn intensive care                       | 8.6                            | <b>11.7</b>  | 7.7                                 | The number of babies admitted to Newborn Intensive Care units per 100 births.   |
| 4-2           | Born too early (preterm or < 37 weeks)                    | 10.6                           | <b>14.0</b>  | 9.3                                 | 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 37 <sup>th</sup> week (259 <sup>th</sup> day), following onset of the last menstrual period. |
| 4-3           | Born too small: low-birthweight (<2,500 grams)            | 7.9                            | <b>6.8</b>   | 7.4                                 | 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)       | 1.3                            | <b>18.2</b>  | 1.1                                 | 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)         | 0.7                            | <b>75.0</b>  | 0.4                                 | The numbers of babies born with birth defects per 100 births.   |
| 4-6           | Infant mortality  | 6.9                            | <b>27.8</b>  | 5.4                                 | 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)                       | 0.7                            | <b>250.0</b>   | 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 | 0.2                            | <b>-71.4</b>   | 0.7                                 | The number of infant deaths from low-birthweight/short gestation (ICD-10 code P07) per 1,000 live births.   |
| 4-9           | Neonatal mortality  | 3.1                            | <b>-8.8</b>  | 3.4                                 | 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                                    | 3.8                            | <b>81.0</b>  | 2.1                                 | 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 2019  
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  | 2019 rate for American Indians | Percent above or below the average rate for all groups | Average rate for all groups in 2019 | Definitions  |
|---------------|--|--------------------------------|--|-------------------------------------|--|
| 5-1           | Cardiovascular disease                                       | 192.7                          | <b>4.2</b>   | 184.9                               | The number of deaths from cardiovascular diseases (ICD-10 codes I00-I78) per 100,000 age-adjusted population.  |
| 5-2           | Diseases of the heart  | 132.8                          | <b>-3.3</b>  | 137.3                               | 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                                       | 87.8                           | <b>-10.6</b>   | 98.2                                | The number of deaths from coronary heart disease (ICD-10 codes I200-I259) per 100,000 age-adjusted population.                                       |
| 5-4           | Cerebrovascular disease                                      | 35.7                           | <b>15.2</b>  | 31.0                                | The number of deaths from cerebrovascular disease (ICD-10 codes I60-I69) per 100,000 age-adjusted population.  |
| 5-5           | Chronic lower respiratory diseases                           | 18.1                           | <b>-53.8</b>   | 39.2                                | 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)                                  | 132.3                          | <b>-1.8</b>  | 134.7                               | The number of deaths from cancer (ICD-10 codes C00-C97) per 100,000 age-adjusted population.   |
| 5-7           | Lung cancer  | 8.1                            | <b>-69.1</b>   | 26.2                                | The number of deaths from lung cancer (ICD-10 codes C33-C34) per 100,000 age-adjusted population.  |
| 5-8           | Breast cancer  | 17.6                           | <b>-6.4</b>  | 18.8                                | The number of deaths from breast cancer (ICD-10 code C50) per 100,000 age-adjusted female population.  |
| 5-9           | Cervical cancer  | 1.5                            | <b>-25.0</b>   | 2.0                                 | The number of deaths from cervical cancer (ICD-10 code C53) per 100,000 age-adjusted female population.  |
| 5-10          | Colorectal cancer  | 12.9                           | <b>4.9</b>   | 12.3                                | The number of deaths from colorectal cancer (ICD-10 codes C18-C21) per 100,000 age-adjusted population.  |
| 5-11          | Prostate cancer  | 19.0                           | <b>9.2</b>   | 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                                      | 27.6                           | <b>165.4</b>   | 10.4                                | The number of deaths from influenza and pneumonia (ICD-10 codes J10-J18) per 100,000 age-adjusted population.  |
| 5-13          | Diabetes   | 91.4                           | <b>282.4</b>   | 23.9                                | The number of deaths from diabetes (ICD-10 codes E10-E14) per 100,000 age-adjusted population.   |
| 5-14          | Chronic liver disease and cirrhosis                          | 82.7                           | <b>462.6</b>   | 14.7                                | 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  | 1.9                            | <b>111.1</b>   | 0.9                                 | The number of deaths from HIV disease (ICD-10 codes B20-B24) per 100,000 age-adjusted population.  |
| 5-16          | Septicemia   | 14.0                           | <b>268.4</b>   | 3.8                                 | The number of deaths from septicemia (ICD-10 codes A40-A41) per 100,000 age-adjusted population.   |
| 5-17          | Alzheimer's disease  | 20.4                           | <b>-38.6</b>   | 33.2                                | 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) | 23.3                           | <b>180.7</b>   | 8.3                                 | 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                             | 21.4                           | <b>94.5</b>  | 11.0                                | 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                              | 1051.0                         | <b>55.3</b>  | 676.6                               | Total number of deaths from all causes per 100,000 age-adjusted population.  |



## AMERICAN INDIANS' STANDING IN ARIZONA IN 2019 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                       | 2019 rate for American Indians | Percent above or below the average rate for all groups | Average rate for all groups in 2019 | Definitions  |
|---------------|---------------------------------|--------------------------------|--|-------------------------------------|--|
| 6-1           | Unintentional injuries          | 129.4                          | <b>118.6</b>   | 59.2                                | 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  | 36.7                           | <b>180.2</b>   | 13.1                                | 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           | 15.8                           | <b>29.5</b>  | 12.2                                | The number of deaths from fall-related injuries (ICD-10 codes W00–W19) per 100,000 age-adjusted population.  |
| 6-4           | Drowning mortality              | 3.7                            | <b>184.6</b>   | 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              | 14.9                           | <b>-2.6</b>  | 15.3                                | 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             | 34.3                           | <b>20.8</b>  | 28.4                                | 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          | 96.5                           | <b>495.7</b>   | 16.2                                | 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) | 26.8                           | <b>41.8</b>  | 18.9                                | 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)              | 20.3                           | <b>244.1</b>   | 5.9                                 | 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 2019  
ON 65 INDICATORS OF HEALTH STATUS (continued)**

**7. PREMATURE MORTALITY**

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

| Figure Number | Indicator                                       | 2019 rate for American Indians | Percent above or below the average rate for all groups | Average rate for all groups in 2019 | Definitions  |
|---------------|---|--------------------------------|--|-------------------------------------|--|
| 7-1           | Mortality of children 1-14 years old            | 36.8                           | <b>110.3</b>   | 17.5                                | The number of deaths per 100,000 children 1-14 years old.            |
| 7-2           | Mortality of adolescents 15-19 years old        | 132.9                          | <b>110.3</b>   | 63.2                                | The number of deaths per 100,000 adolescents 15-19 years old.        |
| 7-3           | Mortality of young adults 20-44 years old       | 514.8                          | <b>206.1</b>   | 168.2                               | The number of deaths per 100,000 young adults 20-44 years old.       |
| 7-4           | Mortality of middle-aged adults 45-64 years old | 1213.0                         | <b>92.6</b>  | 629.7                               | The number of deaths per 100,000 middle-aged adults 45-64 years old. |

**8. AGE-SPECIFIC MORTALITY**

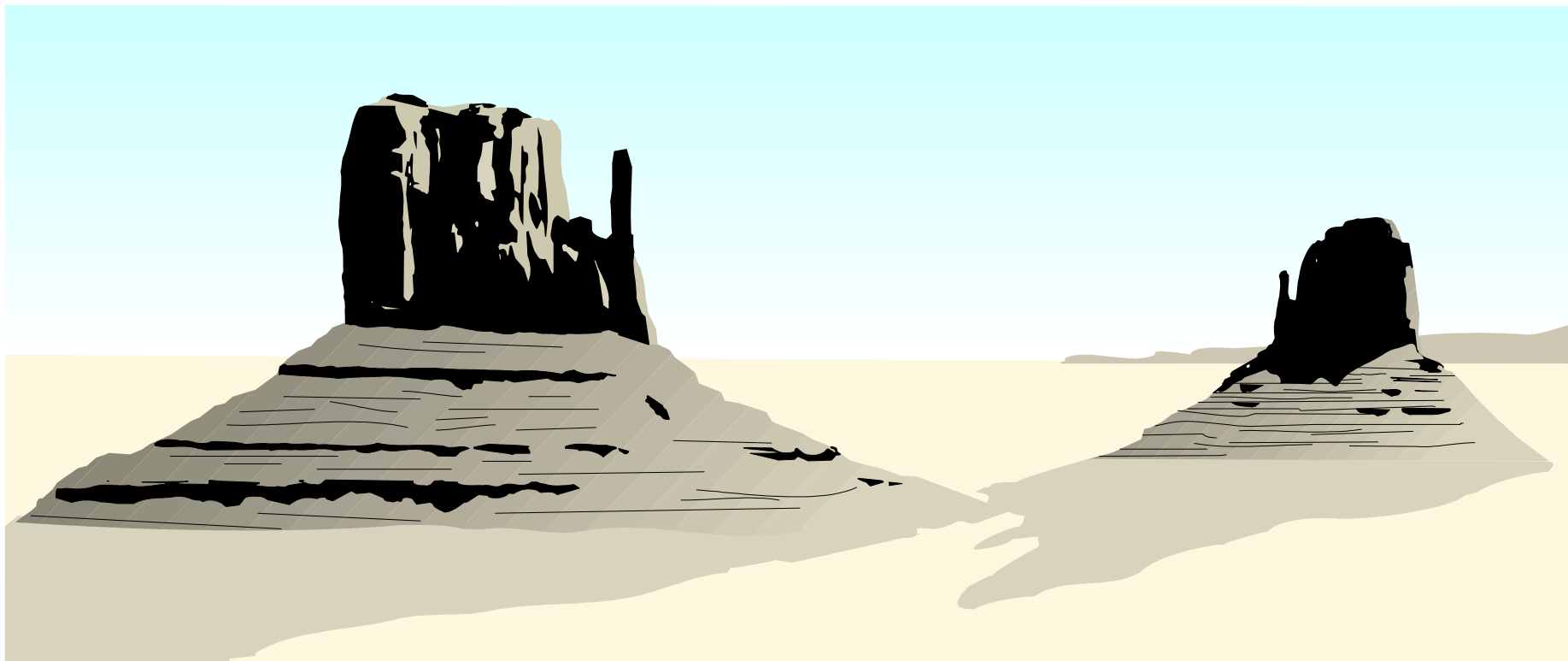
| Figure Number | Indicator   | 2019 rate for American Indians | Percent above or below the average for all groups* | Average rate for all groups in 2019 | Definitions   |
|---------------|---|--------------------------------|--|-------------------------------------|---|
| 8-1           | Median age at death from all causes                           | 62.0                           | <b>18.4</b>  | 76.0                                | The median age (the age in the middle) of Arizonans who died in 2019.   |
| 8-2           | Median age at death from all causes among males               | 58.0                           | <b>21.6</b>  | 74.0                                | The median age (the age in the middle) of Arizona males who died in 2019.   |
| 8-3           | Median age at death from all causes among females             | 67.0                           | <b>15.2</b>  | 79.0                                | The median age (the age in the middle) of Arizona females who died in 2019.   |
| 8-4           | Percent of total deaths before expected years of life reached | 77.8                           | <b>39.9</b>  | 55.6                                | The number of deaths before reaching 78.8 years (the life expectancy of all U.S. residents in 2019) 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                   | 2019 rate for American Indians | Percent above or below the average rate for all groups | Average rate for all groups in 2019 | Definitions  |
|---------------|-----------------------------|--------------------------------|--|-------------------------------------|--|
| 9-1           | Incidence of early syphilis | 100.0                          | <b>189.0</b>   | 34.6                                | Number of reported cases of early syphilis per 100,000 population. |
| 9-2           | Incidence of gonorrhea      | 359.7                          | <b>69.6</b>  | 212.1                               | Number of reported cases of gonorrhea per 100,000 population.      |
| 9-3           | Incidence of chlamydia      | 786.6                          | <b>30.8</b>  | 601.2                               | Number of reported cases of chlamydia per 100,000 population.      |
| 9-4           | Incidence of HIV/AIDS       | 13.0                           | <b>20.4</b>  | 10.8                                | Number of reported cases of HIV/AIDS per 100,000 population.       |



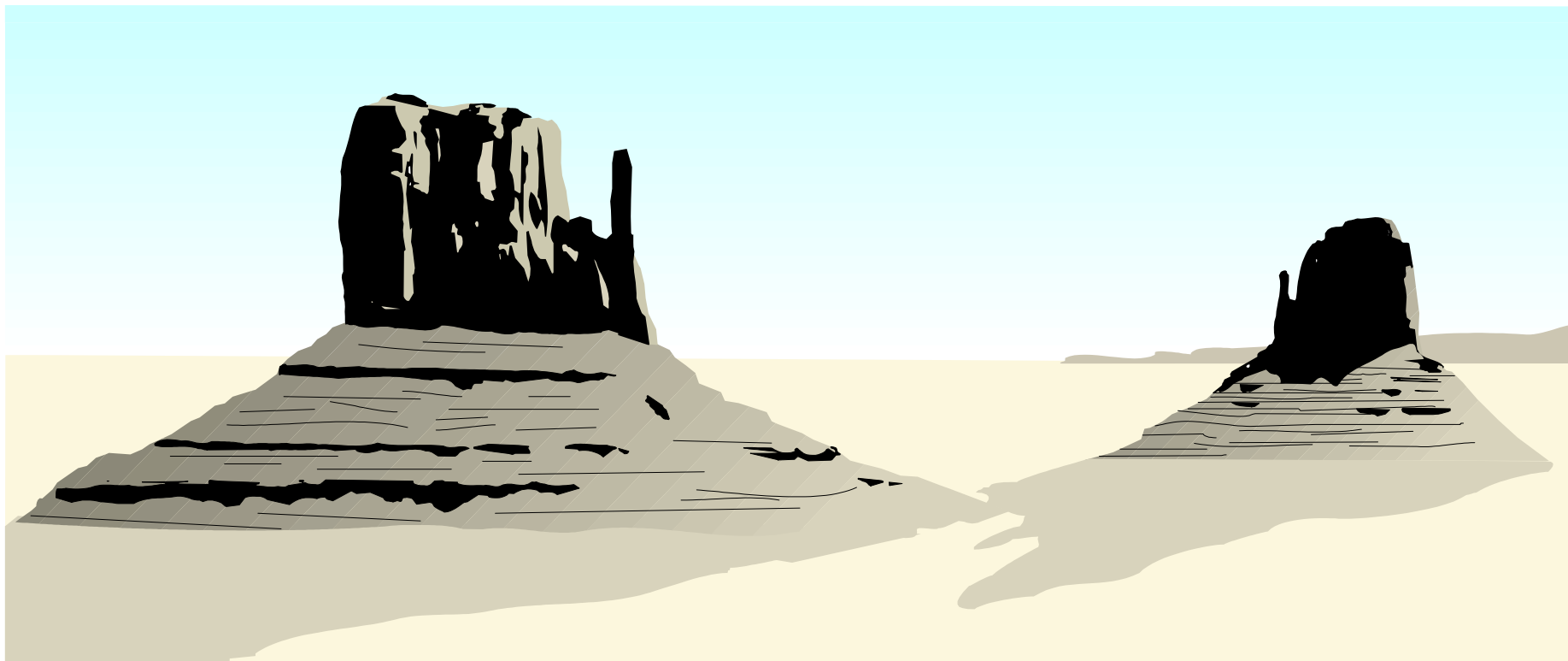
## **II.**

# **COMPARISON OF AMERICAN INDIANS' STANDING IN ARIZONA WITH RESPECT TO SELECTED HEALTH OBJECTIVES FOR THE YEAR 2019**

**COMPARISON OF AMERICAN INDIANS' STANDING IN ARIZONA WITH RESPECT TO  
SELECTED HEALTH OBJECTIVES FOR THE YEAR 2019**

| 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 |      | Year  |       |       |       |       |       |       |       |       |       |       |
|  |  | 2010       | 2020 | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
| 2.1  | Percent of American Indian women giving birth who received early prenatal care   | 90.0       | 77.9 | 66.0  | 69.4  | 68.6  | 68.2  | 68.7  | 58.4  | 58.5  | 60.7  | 59.4  | 56.5  | 57.4  |
| 2.2  | Number of infant deaths per 1,000 American Indian live births (6 per 1,000)  | 6.0        | 6.0  | 8.4   | 8.1   | 7.4   | 7.4   | 6.6   | 8.7   | 7.8   | 8.3   | 9.5   | 9.3   | 6.9   |
| 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  | 4.2   | 4.3   | 4.1   | 3.6   | 2.9   | 3.7   | 4.6   | 4.2   | 5.3   | 4.0   | 3.8   |
| 2.4  | Number of unintentional injury deaths per 100,000 American Indian population <sup>a</sup> (17.5 per 100,000); (36.0 per 100,000)   | 17.5       | 36.0 | 92.6  | 99.2  | 100.6 | 94.8  | 104.5 | 85.4  | 139.0 | 139.1 | 142.0 | 144.5 | 129.4 |
| 2.5  | Number of deaths caused by motor vehicle crashes per 100,000 American Indian population <sup>a</sup> (16 per 100,000); (12.4 per 100,000)  | 16.0       | 12.4 | 36.9  | 41.7  | 44.2  | 37.8  | 31.7  | 35.6  | 54.3  | 52.2  | 54.0  | 60.7  | 36.7  |
| 2.6  | Number of suicides per 100,000 American Indian population <sup>a</sup> (10 per 100,000); (10.2 per 100,000)  | 10.0       | 10.2 | 15.9  | 18.7  | 14.9  | 17.9  | 21.9  | 13.9  | 19.0  | 24.2  | 26.2  | 36.5  | 26.8  |
| 2.7  | Number of homicides per 100,000 American Indian population <sup>a</sup> (5 per 100,000); (5.5 per 100,000)   | 5.0        | 5.5  | 13.2  | 18.0  | 11.9  | 17.3  | 17.7  | 7.3   | 15.7  | 17.6  | 17.9  | 17.9  | 20.3  |
| 2.8  | Number of deaths due to diabetes reported as the underlying or multiple cause of death per 100,000 American Indian population <sup>a</sup> (45 per 100,000); (65.8 per 100,000)              | 45.0       | 65.8 | 111.4 | 130.4 | 105.3 | 155.7 | 146.4 | 129.5 | 171.0 | 175.3 | 192.8 | 171.3 | 179.6 |
| 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 <sup>a</sup> (3 per 100,000); (8.2 per 100,000) | 3.0        | 8.2  | 54.0  | 64.6  | 43.6  | 59.2  | 62.0  | 52.7  | 77.6  | 85.9  | 74.0  | 88.8  | 82.7  |
| 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 <sup>a</sup> (2 per 100,000); (2.2 per 100,000) | 2.0        | 2.2  | 4.1   | 3.0   | 3.1   | 2.8   | 2.0   | 0.0   | 1.9   | 1.9   | 1.8   | 2.2   | 1.5   |

Note: <sup>a</sup> Age-adjusted to the 2000 US standard population.



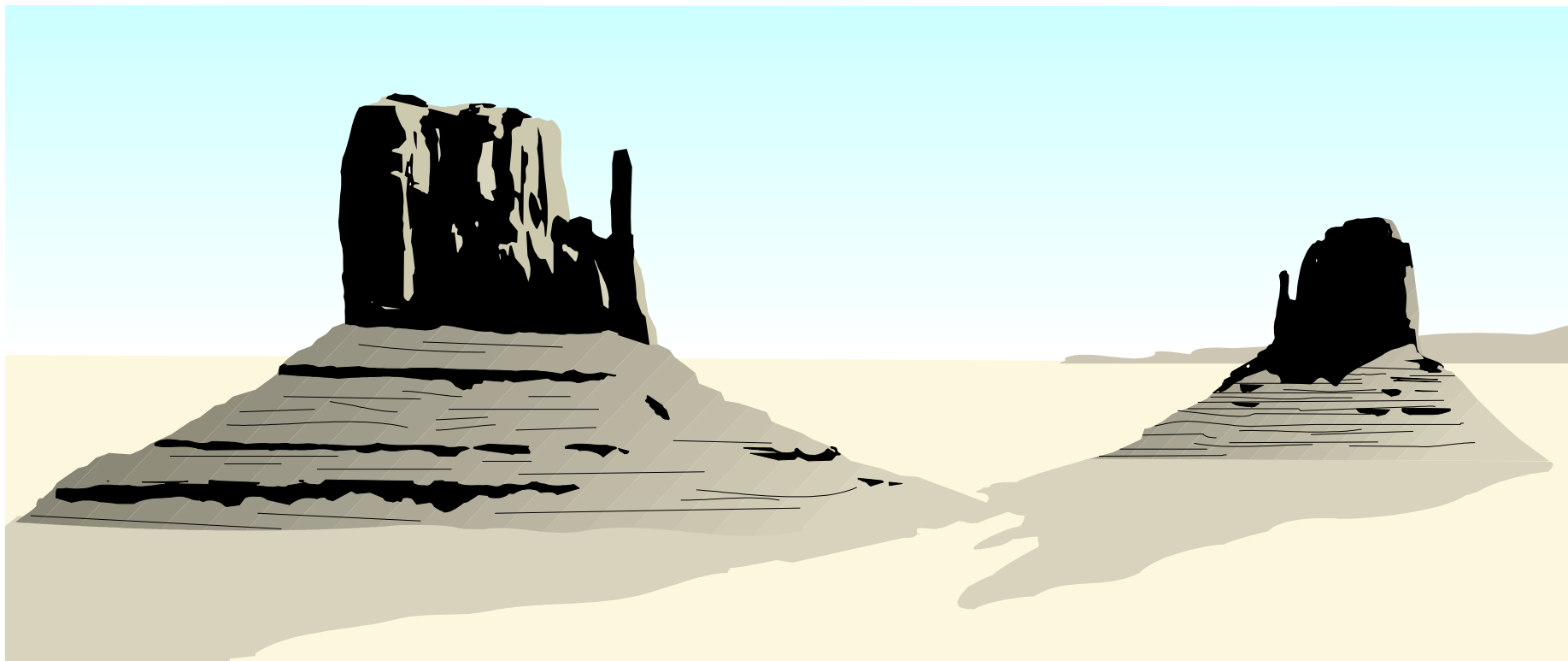
### **III.**

## **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

|  | 2009 | 2010 | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|--|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b><i>Median Age at Death from all Causes</i></b>              |      |      |       |       |       |       |       |       |       |       |       |
| All Arizonans  | 76.0 | 77.0 | 77.0  | 77.0  | 77.0  | 76.0  | 76.0  | 76.0  | 76.0  | 76.0  | 76.0  |
| American Indians   | 59.0 | 58.0 | 60.0  | 60.0  | 60.0  | 61.0  | 60.0  | 60.0  | 61.0  | 60.0  | 62.0  |
| <b><i>Births to Unmarried Mothers<sup>a</sup></i></b>          |      |      |       |       |       |       |       |       |       |       |       |
| All Arizonans  | 45.2 | 44.7 | 44.3  | 45.2  | 45.1  | 44.7  | 45.3  | 44.8  | 44.4  | 44.6  | 45.0  |
| American Indians   | 76.9 | 77.7 | 77.1  | 78.5  | 79.2  | 78.9  | 79.6  | 78.1  | 77.9  | 78.9  | 78.4  |
| <b><i>Incidence of Gonorrhea<sup>b</sup></i></b>               |      |      |       |       |       |       |       |       |       |       |       |
| All Arizonans  | 49.3 | 50.8 | 71.4  | 89.4  | 98.2  | 112.7 | 121.1 | 151.3 | 180.5 | 182.3 | 212.1 |
| American Indians   | 50.0 | 85.1 | 162.8 | 185.7 | 224.6 | 206.5 | 183.1 | 229.0 | 287.7 | 387.4 | 359.7 |
| <b><i>Low-Birthweight Births<sup>a</sup></i></b>               |      |      |       |       |       |       |       |       |       |       |       |
| All Arizonans  | 7.1  | 7.1  | 7.0   | 6.9   | 6.9   | 7.0   | 7.2   | 7.3   | 7.5   | 7.6   | 7.4   |
| American Indians   | 6.4  | 7.0  | 6.9   | 6.7   | 7.2   | 6.1   | 7.3   | 7.2   | 7.7   | 7.9   | 7.9   |
| <b><i>Births to Teenage Mothers<sup>a</sup></i></b>            |      |      |       |       |       |       |       |       |       |       |       |
| All Arizonans  | 11.8 | 10.8 | 9.9   | 9.5   | 8.5   | 7.6   | 6.9   | 6.4   | 6.2   | 5.8   | 5.5   |
| American Indians   | 19.0 | 17.0 | 16.9  | 16.0  | 14.2  | 11.7  | 11.4  | 10.7  | 10.7  | 9.8   | 9.2   |
| <b><i>Congenital Anomalies (Birth Defects)<sup>a</sup></i></b> |      |      |       |       |       |       |       |       |       |       |       |
| All Arizonans  | 0.6  | 0.6  | 1.1   | 0.8   | 0.7   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.4   |
| American Indians   | 0.8  | 0.6  | 1.4   | 0.9   | 0.8   | 0.8   | 1.0   | 1.2   | 0.8   | 0.9   | 0.7   |
| <b><i>Gestational Hypertension<sup>c</sup></i></b>             |      |      |       |       |       |       |       |       |       |       |       |
| All Arizonans  | 36.1 | 39.1 | 41.9  | 45.2  | 55.8  | 52.4  | 59.9  | 62.4  | 67.4  | 77.1  | 80.0  |
| American Indians   | 55.4 | 61.2 | 62.8  | 64.6  | 74.1  | 85.9  | 102.7 | 104.5 | 112.0 | 127.6 | 131.8 |
| <b><i>Gestational Diabetes<sup>c</sup></i></b>                 |      |      |       |       |       |       |       |       |       |       |       |
| All Arizonans  | 38.7 | 41.8 | 46.4  | 51.2  | 57.2  | 61.3  | 75.5  | 76.0  | 76.5  | 84.9  | 86.9  |
| American Indians   | 82.2 | 77.9 | 93.3  | 99.3  | 111.4 | 121.5 | 144.7 | 146.4 | 148.0 | 172.6 | 173.7 |

Notes: <sup>a</sup> Per 100 live births; <sup>b</sup> Per 100,000 population; <sup>c</sup> Per 1,000 births.

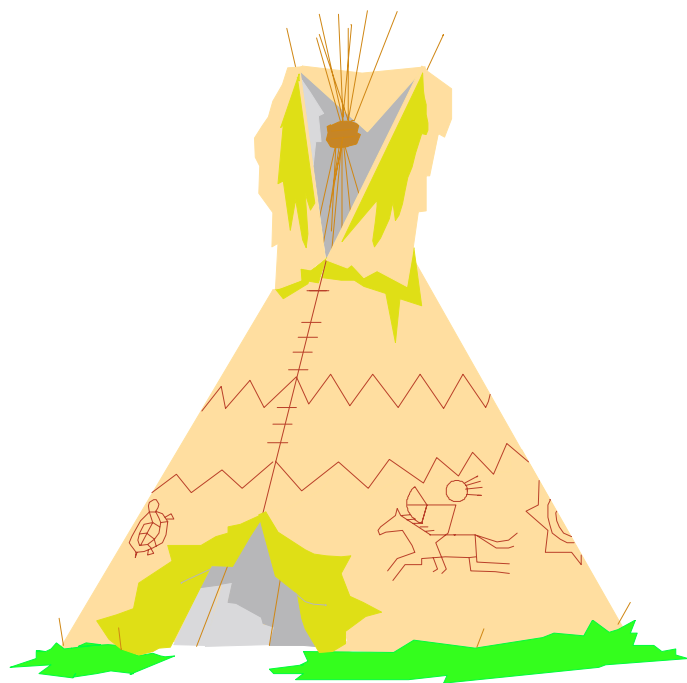


# **IV.**

## **CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND MOTHERS GIVING BIRTH BY PLACE OF RESIDENCE IN ARIZONA IN 2019**







## **SOCIODEMOGRAPHIC CHARACTERISTICS**

**4.1**  
**MATERNAL AGE (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | Mother's age group |       |       |        |        |        |       |       |     |
|---|--|-----------------|--------------------|-------|-------|--------|--------|--------|-------|-------|-----|
|   |  |                 | <15                | 15-17 | 18-19 | 20-24  | 25-29  | 30-34  | 35-39 | 40-44 | 45+ |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 10†                | 120†  | 280†  | 1,150† | 1,360† | 1,000† | 450†  | 90†   | 0†  |
| <b>Resided on reservation</b>                   | <b>Ak-Chin Indian Community</b>                  | 10†             | 0                  | *     | *     | 0      | *      | 6      | 0     | *     | 0   |
|   | <b>Cocopah Tribe</b>                             | 10†             | 0                  | 0     | *     | *      | *      | *      | *     | 0     | 0   |
|   | <b>Colorado River Indian Tribe</b>               | 20†             | 0                  | 0     | *     | 6      | 7      | *      | *     | 0     | 0   |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 20†             | 0                  | 0     | 0     | 7      | 6      | *      | *     | *     | 0   |
|   | <b>Fort Mohave Indian Tribe</b>                  | 10†             | 0                  | 0     | 0     | *      | *      | *      | 0     | 0     | 0   |
|   | <b>Gila River Indian Community</b>               | 210†            | 0                  | 10    | 13    | 62     | 67     | 37     | 13    | *     | 0   |
|   | <b>Havasupai Tribe</b>                           | 10†             | 0                  | *     | *     | *      | *      | 0      | *     | 0     | 0   |
|   | <b>Hopi Tribe</b>                                | 90†             | 0                  | *     | *     | 15     | 30     | 21     | 16    | *     | 0   |
|   | <b>Hualapai Tribe</b>                            | 30†             | 0                  | *     | *     | 7      | 7      | *      | *     | 0     | 0   |
|   | <b>Navajo Nation</b>                             | 1,150†          | *                  | 30    | 68    | 298    | 341    | 257    | 127   | 24    | 0   |
|   | <b>Pascua Yaqui Tribe</b>                        | 10†             | 0                  | 0     | *     | *      | *      | *      | 0     | 0     | 0   |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 90†             | 0                  | *     | 9     | 20     | 30     | 19     | 9     | *     | 0   |
|   | <b>San Carlos Apache Tribe</b>                   | 200†            | *                  | 12    | 13    | 48     | 59     | 46     | 13    | *     | *   |
|   | <b>Tohono O'Odham Nation</b>                     | 100†            | 0                  | 6     | 7     | 17     | 30     | 28     | 10    | *     | 0   |
|   | <b>White Mountain Apache Tribe</b>               | 230†            | 0                  | 14    | 14    | 53     | 75     | 48     | 19    | *     | 0   |
|   | <b>Yavapai-Apache Nation</b>                     | 10†             | 0                  | 0     | *     | *      | *      | *      | 0     | 0     | 0   |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†              | 0                  | 0     | *     | 0      | 0      | 0      | 0     | 0     | 0   |
|   | <b>TOTAL</b>                                     | 2,180†          | 0†                 | 80†   | 140†  | 540†   | 670†   | 480†   | 220†  | 40†   | 0†  |
| <b>Resided off reservation</b>                  | <b>---in Maricopa County</b>                     | 1,180†          | 0                  | 20    | 74    | 315    | 349    | 266    | 124   | 28    | *   |
|   | <b>---in Pima County</b>                         | 330†            | *                  | *     | 24    | 92     | 93     | 78     | 30    | *     | 0   |
|   | <b>---in Coconino County</b>                     | 257             | 0                  | 8     | 7     | 68     | 73     | 63     | 30    | 8     | 0   |
|   | <b>---elsewhere in Arizona</b>                   | 530†            | *                  | 9     | 36    | 132    | 173    | 114    | 50    | 10    | 0   |
|   | <b>TOTAL</b>                                     | 2,290†          | 0†                 | 40†   | 141   | 607    | 688    | 521    | 234   | 50†   | 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 (2019 STATUS)**

|  |   | TOTAL<br>BIRTHS | Mother's education      |                        |                         |                 |                     |                      |                                |              |
|--|---|-----------------|-------------------------|------------------------|-------------------------|-----------------|---------------------|----------------------|--------------------------------|--------------|
|  |   |                 | 8th<br>Grade or<br>Less | Some<br>High<br>School | High<br>School /<br>GED | Some<br>College | Associate<br>Degree | Bachelor's<br>Degree | Post-<br>graduate<br>Education | Un-<br>known |
| ALL AMERICAN INDIAN RESIDENTS OF ARIZONA |   | 4,460†          | 70†                     | 990†                   | 1,580†                  | 1,210†          | 350†                | 180†                 | 70†                            | 10†          |
| Resided on<br>reservation                | Ak-Chin Indian Community                  | 10†             | 0                       | *                      | *                       | *               | *                   | 0                    | 0                              | 0            |
|  | Cocopah Tribe                             | 10†             | 0                       | *                      | *                       | *               | 0                   | 0                    | 0                              | 0            |
|  | Colorado River Indian Tribe               | 20†             | 0                       | 6                      | 11                      | *               | 0                   | 0                    | 0                              | *            |
|  | Fort McDowell Yavapai Nation Reservation  | 20†             | 0                       | *                      | 7                       | 6               | *                   | *                    | 0                              | 0            |
|  | Fort Mohave Indian Tribe                  | 10†             | 0                       | *                      | *                       | *               | 0                   | *                    | 0                              | 0            |
|  | Gila River Indian Community               | 210†            | 11                      | 85                     | 68                      | 35              | *                   | *                    | 0                              | *            |
|  | Havasupai Tribe                           | 10†             | *                       | *                      | *                       | 0               | 0                   | 0                    | 0                              | 0            |
|  | Hopi Tribe                                | 90†             | *                       | 9                      | 33                      | 26              | 17                  | *                    | *                              | 0            |
|  | Hualapai Tribe                            | 30†             | 0                       | 15                     | 7                       | *               | 0                   | *                    | 0                              | 0            |
|  | Navajo Nation                             | 1,147           | 7                       | 169                    | 420                     | 351             | 121                 | 57                   | 19                             | *            |
|  | Pascua Yaqui Tribe                        | 10†             | 0                       | *                      | *                       | *               | *                   | 0                    | 0                              | 0            |
|  | Salt River Pima-Maricopa Indian Community | 90†             | *                       | 41                     | 21                      | 20              | *                   | *                    | 0                              | 0            |
|  | San Carlos Apache Tribe                   | 200†            | 6                       | 59                     | 88                      | 24              | 9                   | *                    | *                              | *            |
|  | Tohono O'Odham Nation                     | 100†            | *                       | 34                     | 41                      | 12              | 8                   | *                    | 0                              | 0            |
|  | White Mountain Apache Tribe               | 230†            | 7                       | 85                     | 92                      | 35              | *                   | *                    | *                              | 0            |
|  | Yavapai-Apache Nation                     | 10†             | 0                       | *                      | *                       | *               | 0                   | *                    | 0                              | 0            |
|  | Yavapai-Prescott Indian Tribe             | 0†              | 0                       | *                      | 0                       | 0               | 0                   | 0                    | 0                              | 0            |
|  | TOTAL                                     |                 | 2,180†                  | 40†                    | 530†                    | 800†            | 520†                | 170†                 | 80†                            | 30†          |
| Resided off<br>reservation               | ---in Maricopa County                     | 1,178           | 20                      | 241                    | 365                     | 385             | 95                  | 51                   | 19                             | *            |
|  | ---in Pima County                         | 325             | 7                       | 71                     | 132                     | 74              | 16                  | 17                   | 8                              | 0            |
|  | ---in Coconino County                     | 257             | 0                       | 33                     | 91                      | 85              | 23                  | 16                   | 9                              | 0            |
|  | ---elsewhere in Arizona                   | 530†            | *                       | 114                    | 192                     | 147             | 43                  | 21                   | *                              | *            |
|  | TOTAL                                     |                 | 2,285                   | 30†                    | 459                     | 780             | 691                 | 177                  | 105                            | 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.

**4.3**  
**MARITAL STATUS OF MOTHER (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | Marital status |           |         |
|---|--|-----------------|----------------|-----------|---------|
|   |  |                 | Married        | Unmarried | Unknown |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 900†           | 3,500†    | 60†     |
| <b>Resided on reservation</b>                   | <b>Ak-Chin Indian Community</b>                  | 10†             | *              | 6         | 0       |
|   | <b>Cocopah Tribe</b>                             | 8               | 0              | 8         | 0       |
|   | <b>Colorado River Indian Tribe</b>               | 20†             | *              | 18        | 0       |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 20†             | *              | 17        | *       |
|   | <b>Fort Mohave Indian Tribe</b>                  | 10†             | *              | 6         | 0       |
|   | <b>Gila River Indian Community</b>               | 210†            | 20             | 181       | *       |
|   | <b>Havasupai Tribe</b>                           | 7               | 0              | 7         | 0       |
|   | <b>Hopi Tribe</b>                                | 90†             | 12             | 77        | *       |
|   | <b>Hualapai Tribe</b>                            | 30†             | *              | 23        | 0       |
|   | <b>Navajo Nation</b>                             | 1,147           | 198            | 934       | 15      |
|   | <b>Pascua Yaqui Tribe</b>                        | 11              | 0              | 11        | 0       |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 90†             | 19             | 73        | *       |
|   | <b>San Carlos Apache Tribe</b>                   | 200†            | 31             | 163       | *       |
|   | <b>Tohono O'Odham Nation</b>                     | 100†            | 10             | 89        | *       |
|   | <b>White Mountain Apache Tribe</b>               | 230†            | 54             | 167       | *       |
|   | <b>Yavapai-Apache Nation</b>                     | 10†             | *              | 7         | 0       |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†              | 0              | *         | 0       |
|   | <b>TOTAL</b>                                     | 2,180†          | 360†           | 1,790†    | 30†     |
| <b>Resided off reservation</b>                  | <b>---in Maricopa County</b>                     | 1,178           | 278            | 883       | 17      |
|   | <b>---in Pima County</b>                         | 330†            | 78             | 243       | *       |
|   | <b>---in Coconino County</b>                     | 260†            | 70             | 185       | *       |
|   | <b>---elsewhere in Arizona</b>                   | 525             | 119            | 399       | 7       |
|   | <b>TOTAL</b>                                     | 2,285           | 545            | 1,710     | 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 (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | Father's race/ethnicity |                       |                                 |   |                                 |
|---|--|-----------------|-------------------------|-----------------------|---------------------------------|---|---------------------------------|
|   |  |                 | White non-<br>Hispanic  | Hispanic or<br>Latino | Black or<br>African<br>American | American<br>Indian or<br>Alaska<br>Native | Asian or<br>Pacific<br>Islander |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 1,260†                  | 600†                  | 100†                            | 2,490†                                    | 20†                             |
| <b>Resided on<br/>reservation</b>               | <b>Ak-Chin Indian Community</b>                  | 10†             | *                       | *                     | 0                               | *   | 0                               |
|   | <b>Cocopah Tribe</b>                             | 10†             | *                       | 0                     | *                               | *   | 0                               |
|   | <b>Colorado River Indian Tribe</b>               | 20†             | 8                       | *                     | 0                               | 10  | 0                               |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 20†             | 12                      | *                     | *                               | 6   | 0                               |
|   | <b>Fort Mohave Indian Tribe</b>                  | 10†             | *                       | 0                     | *                               | *   | 0                               |
|   | <b>Gila River Indian Community</b>               | 210†            | 64                      | 22                    | *                               | 115                                       | 0                               |
|   | <b>Havasupai Tribe</b>                           | 10†             | *                       | 0                     | 0                               | *   | 0                               |
|   | <b>Hopi Tribe</b>                                | 90†             | 22                      | *                     | 0                               | 69  | 0                               |
|   | <b>Hualapai Tribe</b>                            | 30†             | *                       | 0                     | 0                               | 21  | 0                               |
|   | <b>Navajo Nation</b>                             | 1,150†          | 223                     | 13                    | *                               | 904                                       | *                               |
|   | <b>Pascua Yaqui Tribe</b>                        | 10†             | *                       | *                     | 0                               | *   | 0                               |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 90†             | 28                      | 17                    | *                               | 47  | 0                               |
|   | <b>San Carlos Apache Tribe</b>                   | 200†            | 73                      | *                     | 0                               | 121                                       | 0                               |
|   | <b>Tohono O'Odham Nation</b>                     | 100             | 32                      | 6                     | 0                               | 62  | 0                               |
|   | <b>White Mountain Apache Tribe</b>               | 225             | 57                      | 6                     | 0                               | 162                                       | 0                               |
|   | <b>Yavapai-Apache Nation</b>                     | 10†             | *                       | *                     | 0                               | *   | 0                               |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†              | 0                       | *                     | 0                               | 0   | 0                               |
|   | <b>TOTAL</b>                                     | 2,180†          | 540†                    | 80†                   | 10†                             | 1,540†                                    | 0†                              |
| <b>Resided off<br/>reservation</b>              | <b>---in Maricopa County</b>                     | 1,178           | 355                     | 309                   | 65                              | 433                                       | 16                              |
|   | <b>---in Pima County</b>                         | 330†            | 115                     | 97                    | 10                              | 101                                       | *                               |
|   | <b>---in Coconino County</b>                     | 260†            | 69                      | 9                     | *                               | 175                                       | 0                               |
|   | <b>---elsewhere in Arizona</b>                   | 530†            | 178                     | 101                   | 10                              | 233                                       | *                               |
|   | <b>TOTAL</b>                                     | 2,285           | 717                     | 516                   | 90†                             | 942                                       | 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.

**4.5**  
**AGE OF FATHER (2019 STATUS)**

|  |   | TOTAL<br>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 |   | 4,460†          | 0†                 | 50†   | 190†  | 770†  | 980†  | 800†  | 450†  | 220†  | 80†   | 30†   | 20† | 870†    |
| Resided on reservation                   | Ak-Chin Indian Community                  | 10†             | 0                  | 0     | 0     | 0     | *     | *     | *     | 0     | 0     | *     | 0   | *       |
|  | Cocopah Tribe                             | 10†             | 0                  | 0     | 0     | *     | *     | *     | *     | 0     | 0     | 0     | 0   | *       |
|  | Colorado River Indian Tribe               | 20†             | 0                  | 0     | *     | *     | *     | *     | *     | 0     | 0     | 0     | 0   | 7       |
|  | Fort McDowell Yavapai Nation Reservation  | 20†             | 0                  | 0     | 0     | *     | *     | *     | *     | 0     | *     | 0     | 0   | 11      |
|  | Fort Mohave Indian Tribe                  | 10†             | 0                  | 0     | 0     | *     | *     | *     | *     | 0     | 0     | 0     | 0   | *       |
|  | Gila River Indian Community               | 210†            | 0                  | *     | 14    | 42    | 36    | 25    | 17    | *     | *     | *     | 0   | 60      |
|  | Havasupai Tribe                           | 10†             | 0                  | 0     | 0     | *     | *     | 0     | *     | 0     | 0     | 0     | 0   | *       |
|  | Hopi Tribe                                | 90†             | 0                  | 0     | *     | 7     | 26    | 20    | 10    | 6     | *     | 0     | 0   | 17      |
|  | Kaibab Indian Reservation                 | 30†             | 0                  | 0     | *     | 7     | *     | *     | *     | 0     | 0     | *     | 0   | *       |
|  | Navajo Nation                             | 1,147           | 0                  | 14    | 56    | 207   | 257   | 211   | 115   | 70    | 24    | 8     | 8   | 177     |
|  | Pascua Yaqui Tribe                        | 10†             | 0                  | 0     | 0     | *     | *     | *     | *     | 0     | 0     | 0     | 0   | *       |
|  | Salt River Pima-Maricopa Indian Community | 90†             | 0                  | *     | 6     | 14    | 21    | 13    | *     | *     | *     | *     | *   | 25      |
|  | San Carlos Apache Tribe                   | 200†            | 0                  | *     | 9     | 24    | 35    | 23    | 18    | 11    | *     | 0     | 0   | 71      |
|  | Tohono O'Odham Nation                     | 100†            | *                  | *     | *     | 14    | 11    | 20    | 8     | *     | *     | *     | 0   | 31      |
|  | White Mountain Apache Tribe               | 230†            | *                  | 7     | 15    | 29    | 44    | 48    | 15    | 8     | *     | 0     | 0   | 54      |
|  | 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                                     |                 | 2,180†             | 0†    | 30†   | 110†  | 360†  | 450†  | 380†  | 200†  | 100†  | 40†   | 20† | 10†     |
| Resided off reservation                  | ---in Maricopa County                     | 1,180†          | 0                  | 7     | 36    | 219   | 281   | 212   | 129   | 66    | 21    | 10    | *   | 192     |
|  | ---in Pima County                         | 330†            | 0                  | *     | 8     | 59    | 66    | 55    | 43    | 18    | *     | *     | *   | 67      |
|  | ---in Coconino County                     | 260†            | 0                  | 0     | 9     | 44    | 63    | 51    | 33    | 14    | 6     | 0     | *   | 34      |
|  | ---elsewhere in Arizona                   | 530†            | 0                  | *     | 21    | 94    | 123   | 96    | 47    | 15    | 12    | *     | *   | 108     |
|  | TOTAL                                     |                 | 2,285              | 0     | 10†   | 74    | 416   | 533   | 414   | 252   | 113   | 40†   | 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.

**4.6**  
**SOURCE OF PAYMENT FOR LABOR AND DELIVERY (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | Payer for births    |      |                      |          |         |
|---|--|-----------------|---------------------|------|----------------------|----------|---------|
|   |  |                 | AHCCCS <sup>a</sup> | IHS  | Private<br>insurance | Self-pay | Unknown |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 3,050†              | 670† | 610†                 | 90†      | 50†     |
| <b>Resided on<br/>reservation</b>               | <b>Ak-Chin Indian Community</b>                  | 10†             | *                   | 6    | 0                    | 0        | 0       |
|   | <b>Cocopah Tribe</b>                             | 10†             | *                   | *    | 0                    | 0        | 0       |
|   | <b>Colorado River Indian Tribe</b>               | 20†             | 15                  | *    | 0                    | *        | 0       |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 20†             | 8                   | *    | 11                   | 0        | 0       |
|   | <b>Fort Mohave Indian Tribe</b>                  | 10†             | *                   | 0    | *                    | 0        | *       |
|   | <b>Gila River Indian Community</b>               | 210†            | 89                  | 83   | 28                   | *        | *       |
|   | <b>Havasupai Tribe</b>                           | 7               | 7                   | 0    | 0                    | 0        | 0       |
|   | <b>Hopi Tribe</b>                                | 90†             | 73                  | *    | 14                   | 0        | *       |
|   | <b>Hualapai Tribe</b>                            | 30†             | 22                  | 0    | *                    | 0        | *       |
|   | <b>Navajo Nation</b>                             | 1,147           | 933                 | 77   | 84                   | 45       | 8       |
|   | <b>Pascua Yaqui Tribe</b>                        | 10†             | 8                   | *    | 0                    | 0        | 0       |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 90†             | 75                  | 7    | 10                   | *        | 0       |
|   | <b>San Carlos Apache Tribe</b>                   | 200†            | 31                  | 144  | 18                   | *        | 0       |
|   | <b>Tohono O'Odham Nation</b>                     | 100†            | 39                  | 37   | 23                   | *        | 0       |
|   | <b>White Mountain Apache Tribe</b>               | 230†            | 204                 | 10   | 7                    | *        | 0       |
|   | <b>Yavapai-Apache Nation</b>                     | 10†             | *                   | *    | *                    | 0        | 0       |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†              | *                   | 0    | 0                    | 0        | 0       |
|   | <b>TOTAL</b>                                     | 2,180†          | 1,520†              | 380† | 200†                 | 60†      | 10†     |
| <b>Resided off<br/>reservation</b>              | <b>---in Maricopa County</b>                     | 1,178           | 805                 | 121  | 224                  | 15       | 13      |
|   | <b>---in Pima County</b>                         | 325             | 182                 | 74   | 56                   | 6        | 7       |
|   | <b>---in Coconino County</b>                     | 260†            | 193                 | 9    | 50                   | *        | *       |
|   | <b>---elsewhere in Arizona</b>                   | 525             | 345                 | 81   | 77                   | 14       | 8       |
|   | <b>TOTAL</b>                                     | 2,285           | 1,525               | 285  | 407                  | 40†      | 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; <sup>a</sup> 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 (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | Weight gain |          |           |         |
|---|--|-----------------|-------------|----------|-----------|---------|
|   |  |                 | Inadequate  | Adequate | Excessive | Unknown |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 990†        | 1,220†   | 2,180†    | 70†     |
| <b>Resided on<br/>reservation</b>               | <b>Ak-Chin Indian Community</b>                  | 10†             | *           | *        | 6         | 0       |
|   | <b>Cocopah Tribe</b>                             | 10†             | *           | *        | *         | 0       |
|   | <b>Colorado River Indian Tribe</b>               | 20†             | *           | 6        | 10        | *       |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 20†             | *           | *        | 14        | 0       |
|   | <b>Fort Mohave Indian Tribe</b>                  | 10†             | *           | *        | *         | *       |
|   | <b>Gila River Indian Community</b>               | 210†            | 40          | 37       | 126       | *       |
|   | <b>Havasupai Tribe</b>                           | 10†             | *           | *        | *         | 0       |
|   | <b>Hopi Tribe</b>                                | 92              | 15          | 30       | 47        | 0       |
|   | <b>Hualapai Tribe</b>                            | 30†             | 8           | *        | 12        | 0       |
|   | <b>Navajo Nation</b>                             | 1,147           | 293         | 362      | 466       | 26      |
|   | <b>Pascua Yaqui Tribe</b>                        | 10†             | *           | *        | *         | 0       |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 90†             | 12          | 22       | 55        | *       |
|   | <b>San Carlos Apache Tribe</b>                   | 200†            | 41          | 43       | 108       | *       |
|   | <b>Tohono O'Odham Nation</b>                     | 100             | 23          | 26       | 51        | 0       |
|   | <b>White Mountain Apache Tribe</b>               | 230†            | 47          | 66       | 108       | *       |
|   | <b>Yavapai-Apache Nation</b>                     | 10†             | *           | 0        | 6         | 0       |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†              | 0           | *        | 0         | 0       |
|   | <b>TOTAL</b>                                     | 2,180†          | 500†        | 620†     | 1,030†    | 40†     |
| <b>Resided off<br/>reservation</b>              | <b>---in Maricopa County</b>                     | 1,178           | 251         | 308      | 602       | 17      |
|   | <b>---in Pima County</b>                         | 330†            | 71          | 88       | 164       | *       |
|   | <b>---in Coconino County</b>                     | 257             | 47          | 82       | 121       | 7       |
|   | <b>---elsewhere in Arizona</b>                   | 530†            | 130         | 129      | 264       | *       |
|   | <b>TOTAL</b>                                     | 2,285           | 499         | 607      | 1,151     | 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 (2019 STATUS)**

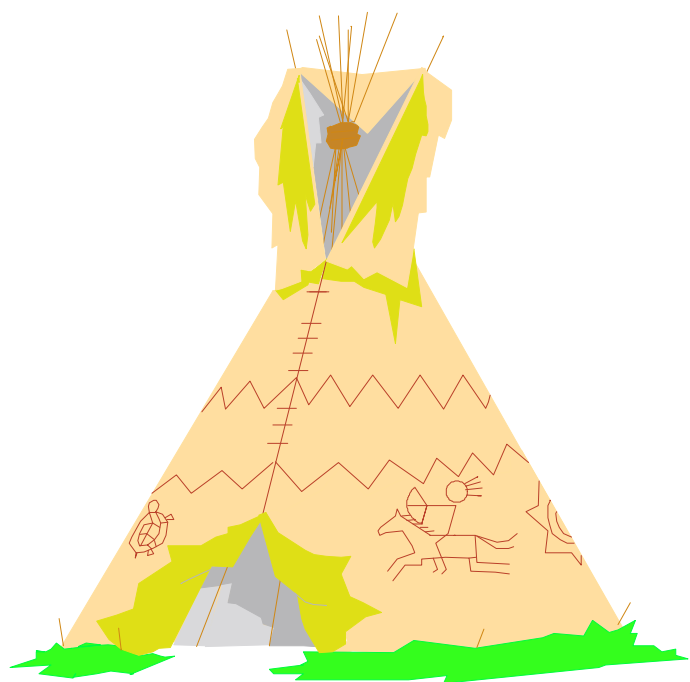
|  |   | TOTAL BIRTHS | Births with medical risk factors | Medical risk factors <sup>a</sup> |                      |                           |                          |           |                        |                                       |           |          |           |             |             |
|--|---|--------------|----------------------------------|-----------------------------------|----------------------|---------------------------|--------------------------|-----------|------------------------|---------------------------------------|-----------|----------|-----------|-------------|-------------|
|  |   |              |                                  | 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 |   | 4,460†       | 1,936                            | 155                               | 775                  | 102                       | 588                      | 16        | 244                    | 189                                   | 54        | 42       | 327       | 10†         | 13          |
| Resided on reservation                   | Ak-Chin Indian Community                  | 11           | 10†                              | *                                 | *                    | *                         | *                        | 0         | 0                      | 0                                     | 0         | 0        | *         | 0           | 0           |
|  | Cocopah Tribe                             | 8            | 10†                              | 0                                 | *                    | 0                         | 0                        | 0         | 0                      | 0                                     | *         | 0        | *         | 0           | 0           |
|  | Colorado River Indian Tribe               | 19           | 0†                               | *                                 | *                    | 0                         | 0                        | 0         | 0                      | 0                                     | *         | *        | *         | 0           | 0           |
|  | Fort McDowell Yavapai Nation Reservation  | 21           | 0†                               | *                                 | *                    | 0                         | *                        | 0         | *                      | *                                     | 0         | 0        | 0         | 0           | 0           |
|  | Fort Mohave Indian Tribe                  | 8            | 0†                               | 0                                 | *                    | 0                         | *                        | 0         | 0                      | 0                                     | *         | 0        | 0         | 0           | 0           |
|  | Gila River Indian Community               | 205          | 90†                              | 18                                | 27                   | *                         | 32                       | *         | 8                      | 7                                     | 6         | 9        | 16        | *           | *           |
|  | Havasupai Tribe                           | 7            | 0                                | 0                                 | 0                    | 0                         | 0                        | 0         | 0                      | 0                                     | 0         | 0        | 0         | 0           | 0           |
|  | Hopi Tribe                                | 92           | 50†                              | *                                 | 15                   | *                         | 25                       | *         | *                      | *                                     | *         | 0        | 9         | 0           | 0           |
|  | Hualapai Tribe                            | 25           | 10†                              | 0                                 | *                    | 0                         | *                        | *         | 0                      | 0                                     | 0         | 0        | *         | 0           | 0           |
|  | Navajo Nation                             | 1,147        | 560†                             | 40                                | 213                  | 34                        | 180                      | *         | 49                     | 67                                    | 22        | *        | 118       | *           | *           |
|  | Pascua Yaqui Tribe                        | 11           | 0†                               | 0                                 | *                    | 0                         | 0                        | 0         | *                      | *                                     | 0         | 0        | 0         | 0           | 0           |
|  | Salt River Pima-Maricopa Indian Community | 93           | 40†                              | 6                                 | 15                   | *                         | 9                        | 0         | 9                      | *                                     | 0         | *        | *         | 0           | 0           |
|  | San Carlos Apache Tribe                   | 195          | 90†                              | 7                                 | 15                   | *                         | 39                       | *         | 9                      | *                                     | *         | 9        | 24        | 0           | 0           |
|  | Tohono O'Odham Nation                     | 100          | 50†                              | *                                 | 22                   | *                         | 14                       | 0         | 6                      | 10                                    | *         | 0        | *         | 0           | *           |
|  | White Mountain Apache Tribe               | 225          | 110†                             | 9                                 | 38                   | *                         | 41                       | *         | 29                     | *                                     | *         | *        | 16        | *           | *           |
|  | Yavapai-Apache Nation                     | 9            | 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                                     |              | 2,180†                           | 1,020†                            | 90†                  | 350†                      | 50†                      | 350†      | 10†                    | 120†                                  | 100†      | 40†      | 30†       | 200†        | 0†          |
| Resided off reservation                  | ---in Maricopa County                     | 1,178        | 460†                             | 30                                | 239                  | 24                        | 105                      | *         | 52                     | 28                                    | 9         | 9        | 70        | *           | *           |
|  | ---in Pima County                         | 325          | 160†                             | *                                 | 52                   | 7                         | 51                       | 0         | 28                     | 44                                    | *         | 0        | 19        | *           | *           |
|  | ---in Coconino County                     | 257          | 90†                              | 7                                 | 44                   | 7                         | 33                       | *         | 14                     | *                                     | *         | *        | 11        | *           | 0           |
|  | ---elsewhere in Arizona                   | 525          | 200†                             | 23                                | 87                   | 10                        | 53                       | *         | 31                     | 17                                    | *         | *        | 29        | 0           | *           |
|  | TOTAL                                     |              | 2,285                            | 913                               | 70†                  | 422                       | 48                       | 242       | 10†                    | 125                                   | 90†       | 10†      | 10†       | 129         | 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; <sup>a</sup> 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 (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | Smoking during pregnancy |              |              |         |
|---|--|-----------------|--------------------------|--------------|--------------|---------|
|   |  |                 | Non Smoker               | Light Smoker | Heavy Smoker | Unknown |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 4,110†                   | 110†         | 30†          | 220†    |
| <b>Resided on reservation</b>                   | <b>Ak-Chin Indian Community</b>                  | 11              | 11                       | 0            | 0            | 0       |
|   | <b>Cocopah Tribe</b>                             | 8               | 8                        | 0            | 0            | 0       |
|   | <b>Colorado River Indian Tribe</b>               | 20†             | 18                       | 0            | 0            | *       |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 20†             | 20                       | 0            | *            | 0       |
|   | <b>Fort Mohave Indian Tribe</b>                  | 8               | 8                        | 0            | 0            | 0       |
|   | <b>Gila River Indian Community</b>               | 205             | 195                      | 10           | 0            | 0       |
|   | <b>Havasupai Tribe</b>                           | 7               | 7                        | 0            | 0            | 0       |
|   | <b>Hopi Tribe</b>                                | 90†             | 89                       | *            | 0            | 0       |
|   | <b>Hualapai Tribe</b>                            | 25              | 25                       | 0            | 0            | 0       |
|   | <b>Navajo Nation</b>                             | 1,150†          | 962                      | 17           | *            | 164     |
|   | <b>Pascua Yaqui Tribe</b>                        | 11              | 11                       | 0            | 0            | 0       |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 90†             | 88                       | *            | 0            | 0       |
|   | <b>San Carlos Apache Tribe</b>                   | 200†            | 184                      | 9            | *            | *       |
|   | <b>Tohono O'Odham Nation</b>                     | 100†            | 97                       | *            | 0            | 0       |
|   | <b>White Mountain Apache Tribe</b>               | 230†            | 209                      | 12           | 0            | *       |
|   | <b>Yavapai-Apache Nation</b>                     | 10†             | 8                        | *            | 0            | 0       |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†              | *                        | 0            | 0            | 0       |
|   | <b>TOTAL</b>                                     | 2,180†          | 1,940†                   | 60†          | 10†          | 170†    |
| <b>Resided off reservation</b>                  | <b>---in Maricopa County</b>                     | 1,178           | 1,137                    | 21           | 9            | 11      |
|   | <b>---in Pima County</b>                         | 330†            | 305                      | 9            | 9            | *       |
|   | <b>---in Coconino County</b>                     | 260†            | 250                      | *            | *            | *       |
|   | <b>---elsewhere in Arizona</b>                   | 530†            | 477                      | 14           | *            | 29      |
|   | <b>TOTAL</b>                                     | 2,285           | 2,169                    | 50†          | 20†          | 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.



## Utilization of Medical Services

**4.10**  
**TRIMESTER OF PREGNANCY PRENATAL CARE BEGAN (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | Prenatal care |                  |                  |                  |         |
|---|--|-----------------|---------------|------------------|------------------|------------------|---------|
|   |  |                 | No care       | 1st<br>trimester | 2nd<br>trimester | 3rd<br>trimester | Unknown |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 240†          | 2,560†           | 1,070†           | 400†             | 200†    |
| <b>Resided on<br/>reservation</b>               | <b>Ak-Chin Indian Community</b>                  | 10†             | *             | *                | *                | 0                | 0       |
|   | <b>Cocopah Tribe</b>                             | 10†             | 0             | *                | *                | *                | *       |
|   | <b>Colorado River Indian Tribe</b>               | 20†             | *             | *                | 7                | *                | *       |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 20†             | *             | 13               | *                | *                | 0       |
|   | <b>Fort Mohave Indian Tribe</b>                  | 10†             | *             | *                | *                | *                | 0       |
|   | <b>Gila River Indian Community</b>               | 205             | 13            | 108              | 55               | 22               | 7       |
|   | <b>Havasupai Tribe</b>                           | 10†             | *             | *                | *                | *                | 0       |
|   | <b>Hopi Tribe</b>                                | 90†             | *             | 42               | 27               | 11               | 9       |
|   | <b>Hualapai Tribe</b>                            | 30†             | *             | 6                | 7                | 8                | *       |
|   | <b>Navajo Nation</b>                             | 1,147           | 58            | 689              | 287              | 72               | 41      |
|   | <b>Pascua Yaqui Tribe</b>                        | 10†             | *             | *                | *                | 0                | 0       |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 93              | 10            | 57               | 18               | 7                | *       |
|   | <b>San Carlos Apache Tribe</b>                   | 195             | 22            | 98               | 40               | 27               | 8       |
|   | <b>Tohono O'Odham Nation</b>                     | 100             | 10            | 43               | 26               | 19               | *       |
|   | <b>White Mountain Apache Tribe</b>               | 225             | 14            | 124              | 53               | 31               | *       |
|   | <b>Yavapai-Apache Nation</b>                     | 10†             | 0             | *                | *                | *                | *       |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†              | 0             | *                | 0                | 0                | 0       |
|   | <b>TOTAL</b>                                     | 2,180†          | 140†          | 1,210†           | 540†             | 210†             | 80†     |
| <b>Resided off<br/>reservation</b>              | <b>---in Maricopa County</b>                     | 1,178           | 53            | 716              | 261              | 98               | 50      |
|   | <b>---in Pima County</b>                         | 325             | 19            | 194              | 86               | 23               | *       |
|   | <b>---in Coconino County</b>                     | 257             | 6             | 151              | 49               | 16               | 35      |
|   | <b>---elsewhere in Arizona</b>                   | 525             | 18            | 295              | 125              | 59               | 28      |
|   | <b>TOTAL</b>                                     | 2,285           | 96            | 1,356            | 521              | 196              | 120†    |

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 (2019 STATUS)**

|  |   | TOTAL<br>BIRTHS | Prenatal visits |            |            |             |            |         |
|--|---|-----------------|-----------------|------------|------------|-------------|------------|---------|
|  |   |                 | No visits       | 1-4 visits | 5-8 visits | 9-12 visits | 13+ visits | Unknown |
| ALL AMERICAN INDIAN RESIDENTS OF ARIZONA |   | 4,460†          | 240†            | 540†       | 1,090†     | 1,650†      | 830†       | 110†    |
| Resided on<br>reservation                | Ak-Chin Indian Community                  | 10†             | *               | *          | *          | *           | *          | 0       |
|  | Cocopah Tribe                             | 10†             | 0               | *          | 0          | *           | *          | *       |
|  | Colorado River Indian Tribe               | 20†             | *               | *          | 8          | *           | *          | *       |
|  | Fort McDowell Yavapai Nation Reservation  | 20†             | *               | *          | *          | 10          | *          | 0       |
|  | Fort Mohave Indian Tribe                  | 10†             | *               | *          | *          | *           | 0          | 0       |
|  | Gila River Indian Community               | 205             | 13              | 27         | 39         | 75          | 45         | 6       |
|  | Havasupai Tribe                           | 10†             | *               | *          | *          | *           | 0          | 0       |
|  | Hopi Tribe                                | 90†             | *               | 12         | 21         | 34          | 14         | 8       |
|  | Hualapai Tribe                            | 30†             | *               | *          | 7          | 9           | *          | 0       |
|  | Navajo Nation                             | 1,147           | 58              | 107        | 244        | 455         | 256        | 27      |
|  | Pascua Yaqui Tribe                        | 10†             | *               | *          | *          | *           | *          | 0       |
|  | Salt River Pima-Maricopa Indian Community | 93              | 10              | 10         | 29         | 32          | 11         | *       |
|  | San Carlos Apache Tribe                   | 195             | 22              | 56         | 58         | 34          | 21         | *       |
|  | Tohono O’Odham Nation                     | 100             | 10              | 31         | 25         | 28          | 6          | 0       |
|  | White Mountain Apache Tribe               | 225             | 14              | 36         | 65         | 81          | 27         | *       |
|  | Yavapai-Apache Nation                     | 10†             | 0               | *          | *          | *           | *          | *       |
|  | Yavapai-Prescott Indian Tribe             | 0†              | 0               | 0          | 0          | *           | 0          | 0       |
|  | TOTAL                                     |                 | 2,180†          | 140†       | 300†       | 520†        | 780†       | 390†    |
| Resided off<br>reservation               | ---in Maricopa County                     | 1,178           | 53              | 123        | 301        | 460         | 213        | 28      |
|  | ---in Pima County                         | 325             | 19              | 41         | 98         | 113         | 53         | *       |
|  | ---in Coconino County                     | 257             | 6               | 15         | 54         | 100         | 59         | 23      |
|  | ---elsewhere in Arizona                   | 525             | 18              | 59         | 121        | 203         | 115        | 9       |
|  | TOTAL                                     | 2,285           | 96              | 238        | 574        | 876         | 440        | 60†     |

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 (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | Births with<br>obstetrics<br>procedure | Obstetric procedures <sup>a</sup> |                          |                      |           |  |  |
|---|--|-----------------|--|-----------------------------------|--------------------------|----------------------|-----------|--|--|
|   |  |                 |  | Induction of<br>labor             | Augmentation<br>of labor | Cervical<br>cerclage | Tocolysis | External<br>cephalic version<br>successful | External<br>cephalic version<br>failed |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 2,340†                                 | 1,400†                            | 1,250†                   | 10†                  | 40†       | 10†  | 10†                                    |
| <b>Resided on<br/>reservation</b>               | <b>Ak-Chin Indian Community</b>                  | 10†             | *                                      | *                                 | *                        | 0                    | 0         | 0  | 0                                      |
|   | <b>Cocopah Tribe</b>                             | 10†             | *                                      | *                                 | *                        | 0                    | 0         | 0  | 0                                      |
|   | <b>Colorado River Indian Tribe</b>               | 20†             | *                                      | *                                 | *                        | 0                    | 0         | 0  | 0                                      |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 20†             | 8                                      | *                                 | 7                        | 0                    | 0         | 0  | 0                                      |
|   | <b>Fort Mohave Indian Tribe</b>                  | 10†             | *                                      | *                                 | *                        | 0                    | 0         | 0  | 0                                      |
|   | <b>Gila River Indian Community</b>               | 205             | 76                                     | 49                                | 40                       | 0                    | 0         | 0  | 0                                      |
|   | <b>Havasupai Tribe</b>                           | 10†             | *                                      | *                                 | *                        | 0                    | 0         | 0  | 0                                      |
|   | <b>Hopi Tribe</b>                                | 90†             | 47                                     | 33                                | 19                       | 0                    | 0         | 0  | *                                      |
|   | <b>Hualapai Tribe</b>                            | 30†             | 12                                     | 8                                 | *                        | 0                    | 0         | 0  | 0                                      |
|   | <b>Navajo Nation</b>                             | 1,150†          | 641                                    | 417                               | 296                      | 0                    | *         | 8  | 7                                      |
|   | <b>Pascua Yaqui Tribe</b>                        | 10†             | 8                                      | *                                 | *                        | 0                    | 0         | 0  | 0                                      |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 93              | 40                                     | 22                                | 28                       | 0                    | 0         | 0  | 0                                      |
|   | <b>San Carlos Apache Tribe</b>                   | 200†            | 109                                    | 63                                | 48                       | *                    | 10        | *  | 0                                      |
|   | <b>Tohono O'Odham Nation</b>                     | 100†            | 63                                     | 25                                | 43                       | *                    | 6         | 0  | 0                                      |
|   | <b>White Mountain Apache Tribe</b>               | 230†            | 103                                    | 62                                | 39                       | 0                    | *         | 0  | *                                      |
|   | <b>Yavapai-Apache Nation</b>                     | 10†             | 8                                      | 6                                 | *                        | 0                    | 0         | 0  | 0                                      |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†              | *                                      | *                                 | 0                        | 0                    | 0         | 0  | 0                                      |
|   | <b>TOTAL</b>                                     | 2,180†          | 1,130†                                 | 700†                              | 550†                     | 0†                   | 20†       | 10†  | 10†                                    |
| <b>Resided off<br/>reservation</b>              | <b>---in Maricopa County</b>                     | 1,180†          | 593                                    | 346                               | 364                      | 0                    | *         | *  | 0                                      |
|   | <b>---in Pima County</b>                         | 330†            | 217                                    | 105                               | 123                      | *                    | 9         | 0  | 0                                      |
|   | <b>---in Coconino County</b>                     | 260†            | 136                                    | 89                                | 74                       | 0                    | *         | *  | *                                      |
|   | <b>---elsewhere in Arizona</b>                   | 530†            | 259                                    | 160                               | 138                      | *                    | *         | *  | 0                                      |
|   | <b>TOTAL</b>                                     | 2,290†          | 1,205                                  | 700                               | 699                      | 10†                  | 20†       | 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; <sup>a</sup> 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 (2019 STATUS)

|  |   | TOTAL<br>BIRTHS | Births with<br>complications of labor<br>and or delivery | Births with complications of labor and delivery <sup>a</sup> |                   |                 |                     |                  |  |                   |                         |  |                 |                           |                                     |   |
|--|---|-----------------|--|--|-------------------|-----------------|---------------------|------------------|--|-------------------|-------------------------|--|-----------------|---------------------------|-------------------------------------|---|
|  |   |                 |  | Premature rupture<br>of the membranes                        | Precipitous labor | Prolonged labor | Breech presentation | Chorioamnionitis | Meconium staining<br>of the amniotic fluid | Fetal intolerance | Maternal<br>transfusion | Third or fourth<br>degree perineal<br>laceration | Ruptured uterus | Unplanned<br>Hysterectomy | Admission to<br>intensive care unit | Unplanned surgery<br>following delivery |
| ALL AMERICAN INDIAN RESIDENTS OF ARIZONA |   | 4,460†          | 1,400†   | 370†   | 260†              | 180†            | 180†                | 90†              | 310†                                       | 310†              | 70†                     | 30†  | 0†              | 10†                       | 20†                                 | 20†                                     |
| Resided on<br>reservation                | Ak-Chin Indian Community                  | 11              | 0†   | *  | 0                 | *               | *                   | *                | *  | 0                 | 0                       | 0  | 0               | 0                         | 0                                   | 0                                       |
|  | Cocopah Tribe                             | 8               | 10†  | *  | *                 | 0               | 0                   | *                | *  | 0                 | 0                       | 0  | 0               | 0                         | 0                                   | 0                                       |
|  | Colorado River Indian Tribe               | 19              | 10†  | *  | *                 | 0               | 0                   | 0                | *  | *                 | *                       | 0  | 0               | 0                         | *                                   | 0                                       |
|  | Fort McDowell Yavapai Nation Reservation  | 21              | 10†  | 0  | *                 | *               | *                   | *                | *  | *                 | 0                       | 0  | 0               | 0                         | 0                                   | 0                                       |
|  | Fort Mohave Indian Tribe                  | 8               | 0†   | *  | *                 | *               | 0                   | 0                | 0  | *                 | 0                       | 0  | 0               | 0                         | 0                                   | 0                                       |
|  | Gila River Indian Community               | 205             | 70†  | 12   | 9                 | *               | 12                  | *                | 20   | 14                | 6                       | *  | 0               | *                         | *                                   | 0                                       |
|  | Havasupai Tribe                           | 7               | 0†   | *  | 0                 | 0               | 0                   | 0                | *  | 0                 | 0                       | 0  | 0               | 0                         | 0                                   | 0                                       |
|  | Hopi Tribe                                | 92              | 30†  | 9  | 6                 | *               | *                   | *                | 7  | 7                 | *                       | 0  | 0               | 0                         | 0                                   | 0                                       |
|  | Hualapai Tribe                            | 25              | 10†  | 0  | *                 | *               | *                   | *                | 0  | 0                 | 0                       | 0  | 0               | 0                         | 0                                   | 0                                       |
|  | Navajo Nation                             | 1,147           | 360†   | 116  | 93                | 44              | 46                  | 19               | 55   | 64                | 14                      | 10   | *               | *                         | *                                   | 10                                      |
|  | Pascua Yaqui Tribe                        | 11              | 0†   | *  | 0                 | *               | *                   | 0                | *  | 0                 | 0                       | 0  | 0               | 0                         | 0                                   | 0                                       |
|  | Salt River Pima-Maricopa Indian Community | 93              | 30†  | *  | 14                | *               | *                   | *                | 8  | 6                 | *                       | 0  | 0               | 0                         | 0                                   | 0                                       |
|  | San Carlos Apache Tribe                   | 195             | 80†  | 13   | 16                | 12              | 15                  | *                | 16   | 31                | *                       | 0  | 0               | 0                         | 0                                   | *                                       |
|  | Tohono O'Odham Nation                     |                 | 30†  | *  | 9                 | *               | *                   | *                | *  | *                 | *                       | *  | 0               | 0                         | 0                                   | 0                                       |
|  | White Mountain Apache Tribe               | 225             | 70†  | *  | 17                | 14              | 13                  | *                | 14   | 8                 | 9                       | *  | 0               | 0                         | *                                   | *                                       |
|  | Yavapai-Apache Nation                     | 9               | 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                                     |                 | 2,180†   | 710†   | 170†              | 170†            | 90†                 | 100†             | 40†  | 140†              | 140†                    | 40†  | 10†             | 0†                        | 0†                                  | 0†                                      |
| Resided off<br>reservation               | ---in Maricopa County                     | 1,178           | 110†   | 103  | 40                | 47              | 36                  | 28               | 105  | 126               | 13                      | 6  | *               | *                         | 8                                   | *                                       |
|  | ---in Pima County                         | 325             | 80†  | 36   | 26                | 11              | 14                  | 6                | 25   | 9                 | 7                       | *  | *               | *                         | *                                   | 0                                       |
|  | ---in Coconino County                     | 257             | 130†   | 25   | 8                 | 17              | 11                  | *                | 12   | 16                | *                       | *  | 0               | 0                         | *                                   | *                                       |
|  | ---elsewhere in Arizona                   | 525             | 710†   | 33   | 18                | 14              | 20                  | 10               | 32   | 23                | *                       | *  | 0               | 0                         | *                                   | *                                       |
|  | TOTAL                                     | 2,285           | 692  | 197  | 92                | 89              | 81                  | 50†              | 174  | 174               | 30†                     | 10†  | 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; <sup>a</sup> 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 (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | Method of delivery <sup>a</sup> |           |         |        |
|---|--|-----------------|---------------------------------|-----------|---------|--------|
|   |  |                 | Vaginal                         | C-Section | Forceps | Vacuum |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 3,290†                          | 1,100†    | 10†     | 70†    |
| <b>Resided on reservation</b>                   | <b>Ak-Chin Indian Community</b>                  | 11              | 9                               | *         | 0       | 0      |
|   | <b>Cocopah Tribe</b>                             | 8               | *                               | 6         | 0       | 0      |
|   | <b>Colorado River Indian Tribe</b>               | 19              | 14                              | *         | 0       | 0      |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 21              | 15                              | 6         | 0       | 0      |
|   | <b>Fort Mohave Indian Tribe</b>                  | 8               | *                               | *         | 0       | *      |
|   | <b>Gila River Indian Community</b>               | 205             | 128                             | 77        | 0       | 0      |
|   | <b>Havasupai Tribe</b>                           | 7               | 6                               | *         | 0       | 0      |
|   | <b>Hopi Tribe</b>                                | 92              | 74                              | 17        | 0       | *      |
|   | <b>Hualapai Tribe</b>                            | 25              | 18                              | 7         | 0       | 0      |
|   | <b>Navajo Nation</b>                             | 1,147           | 942                             | 195       | *       | 8      |
|   | <b>Pascua Yaqui Tribe</b>                        | 11              | 10                              | *         | 0       | 0      |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 93              | 59                              | 32        | 0       | *      |
|   | <b>San Carlos Apache Tribe</b>                   | 195             | 123                             | 63        | *       | 6      |
|   | <b>Tohono O'Odham Nation</b>                     | 100             | 80                              | 18        | 0       | *      |
|   | <b>White Mountain Apache Tribe</b>               | 225             | 148                             | 71        | 0       | 6      |
|   | <b>Yavapai-Apache Nation</b>                     | 9               | 8                               | *         | 0       | 0      |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | *               | *                               | 0         | 0       | 0      |
|   | <b>TOTAL</b>                                     | 2,180†          | 1,640†                          | 500†      | 10†     | 30†    |
| <b>Resided off reservation</b>                  | <b>---in Maricopa County</b>                     | 1,178           | 819                             | 337       | *       | 17     |
|   | <b>---in Pima County</b>                         | 325             | 251                             | 67        | 0       | 7      |
|   | <b>---in Coconino County</b>                     | 257             | 189                             | 62        | 0       | 6      |
|   | <b>---elsewhere in Arizona</b>                   | 525             | 384                             | 127       | *       | 12     |
|   | <b>TOTAL</b>                                     | 2,285           | 1,643                           | 593       | 10†     | 42     |

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; <sup>a</sup> 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 (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | M.D.   | C.N.M /<br>C.M. | Hospital<br>admin | Midwife | D.O. | Other | Unknown |
|---|--|-----------------|--------|-----------------|-------------------|---------|------|-------|---------|
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 2,580† | 1,210†          | 0                 | 0       | 440† | 230†  | 0†      |
| <b>Resided on<br/>reservation</b>               | <b>Ak-Chin Indian Community</b>                  | 10†             | 9      | 0               | 0                 | 0       | *    | 0     | 0       |
|   | <b>Cocopah Tribe</b>                             | 10†             | 7      | *               | 0                 | 0       | 0    | 0     | 0       |
|   | <b>Colorado River Indian Tribe</b>               | 20†             | 18     | 0               | 0                 | 0       | *    | 0     | 0       |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 20†             | 17     | *               | 0                 | 0       | *    | 0     | 0       |
|   | <b>Fort Mohave Indian Tribe</b>                  | 10†             | 7      | *               | 0                 | 0       | 0    | 0     | 0       |
|   | <b>Gila River Indian Community</b>               | 210†            | 165    | *               | 0                 | 0       | 34   | *     | 0       |
|   | <b>Havasupai Tribe</b>                           | 10†             | *      | *               | 0                 | 0       | *    | 0     | 0       |
|   | <b>Hopi Tribe</b>                                | 90†             | 39     | 49              | 0                 | 0       | *    | *     | 0       |
|   | <b>Hualapai Tribe</b>                            | 25              | 18     | 0               | 0                 | 0       | 7    | 0     | 0       |
|   | <b>Navajo Nation</b>                             | 1,147           | 299    | 661             | 0                 | 0       | 21   | 165   | *       |
|   | <b>Pascua Yaqui Tribe</b>                        | 10†             | *      | 6               | 0                 | 0       | 0    | 0     | 0       |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 93              | 69     | 13              | 0                 | 0       | 11   | 0     | 0       |
|   | <b>San Carlos Apache Tribe</b>                   | 200†            | 188    | *               | 0                 | 0       | *    | *     | 0       |
|   | <b>Tohono O'Odham Nation</b>                     | 100†            | 89     | *               | 0                 | 0       | 7    | 0     | 0       |
|   | <b>White Mountain Apache Tribe</b>               | 230†            | 88     | 0               | 0                 | 0       | 132  | *     | 0       |
|   | <b>Yavapai-Apache Nation</b>                     | 10†             | 6      | *               | 0                 | 0       | 0    | 0     | 0       |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†              | *      | 0               | 0                 | 0       | 0    | 0     | 0       |
|   | <b>TOTAL</b>                                     | 2,180†          | 1,030† | 750†            | 0                 | 0       | 220† | 170†  | 0†      |
| <b>Resided off<br/>reservation</b>              | <b>---in Maricopa County</b>                     | 1,178           | 782    | 280             | 0                 | 0       | 103  | 13    | 0       |
|   | <b>---in Pima County</b>                         | 330†            | 276    | 41              | 0                 | 0       | *    | *     | 0       |
|   | <b>---in Coconino County</b>                     | 260†            | 174    | 58              | 0                 | 0       | 20   | *     | 0       |
|   | <b>---elsewhere in Arizona</b>                   | 525             | 318    | 77              | 0                 | 0       | 95   | 35    | 0       |
|   | <b>TOTAL</b>                                     | 2,285           | 1,550  | 456             | 0                 | 0       | 220† | 60†   | 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 (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | Length of gestation |             |           |         |
|---|--|-----------------|---------------------|-------------|-----------|---------|
|   |  |                 | <37 weeks           | 37-41 weeks | 42+ weeks | Unknown |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 480†                | 3,960†      | 10†       | 20†     |
| <b>Resided on reservation</b>                   | <b>Ak-Chin Indian Community</b>                  | 10†             | *                   | 7           | 0         | 0       |
|   | <b>Cocopah Tribe</b>                             | 10†             | *                   | 7           | 0         | 0       |
|   | <b>Colorado River Indian Tribe</b>               | 20†             | *                   | 14          | 0         | 0       |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 20†             | *                   | 18          | 0         | 0       |
|   | <b>Fort Mohave Indian Tribe</b>                  | 8               | 0                   | 8           | 0         | 0       |
|   | <b>Gila River Indian Community</b>               | 205             | 33                  | 172         | 0         | 0       |
|   | <b>Havasupai Tribe</b>                           | 10†             | *                   | *           | *         | *       |
|   | <b>Hopi Tribe</b>                                | 92              | 7                   | 84          | 0         | *       |
|   | <b>Hualapai Tribe</b>                            | 30†             | *                   | 23          | 0         | 0       |
|   | <b>Navajo Nation</b>                             | 1,150†          | 120                 | 1,018       | *         | 8       |
|   | <b>Pascua Yaqui Tribe</b>                        | 10†             | *                   | 8           | 0         | 0       |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 93              | 6                   | 87          | 0         | 0       |
|   | <b>San Carlos Apache Tribe</b>                   | 195             | 33                  | 160         | 0         | *       |
|   | <b>Tohono O'Odham Nation</b>                     | 100†            | 8                   | 90          | *         | *       |
|   | <b>White Mountain Apache Tribe</b>               | 230†            | 25                  | 199         | *         | 0       |
|   | <b>Yavapai-Apache Nation</b>                     | 10†             | *                   | 8           | 0         | 0       |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†              | 0                   | *           | 0         | 0       |
|   | <b>TOTAL</b>                                     | 1,180†          | 250†                | 1,910†      | 0†        | 10†     |
| <b>Resided off reservation</b>                  | <b>---in Maricopa County</b>                     | 1,180†          | 111                 | 1,062       | *         | 0       |
|   | <b>---in Pima County</b>                         | 325             | 26                  | 299         | 0         | 0       |
|   | <b>---in Coconino County</b>                     | 257             | 33                  | 224         | 0         | 0       |
|   | <b>---elsewhere in Arizona</b>                   | 530†            | 53                  | 467         | *         | *       |
|   | <b>TOTAL</b>                                     | 2,285           | 223                 | 2,052       | 10†       | 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.

**4.17**  
**WEIGHT AT BIRTH (2019 STATUS)**

|   |  | TOTAL<br>BIRTHS | Weight at birth |                 |                 |                 |       |
|---|--|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
|   |  |                 | <1,000<br>grams | 1,000-<br>1,499 | 1,500-<br>2,499 | 2,500-<br>3,999 | 4000+ |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 4,460†          | 20†             | 30†             | 300†            | 3,700†          | 410†  |
| <b>Resided on<br/>reservation</b>               | <b>Ak-Chin Indian Community</b>                  | 10†             | 0               | 0               | *               | 6               | *     |
|   | <b>Cocopah Tribe</b>                             | 10†             | 0               | 0               | *               | *               | *     |
|   | <b>Colorado River Indian Tribe</b>               | 20†             | 0               | 0               | *               | 15              | *     |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 20†             | 0               | 0               | *               | 15              | *     |
|   | <b>Fort Mohave Indian Tribe</b>                  | 10†             | 0               | 0               | 0               | 6               | *     |
|   | <b>Gila River Indian Community</b>               | 210†            | *               | *               | 16              | 155             | 29    |
|   | <b>Havasupai Tribe</b>                           | 10†             | 0               | 0               | *               | 6               | 0     |
|   | <b>Hopi Tribe</b>                                | 90†             | 0               | 0               | 8               | 79              | *     |
|   | <b>Hualapai Tribe</b>                            | 30†             | 0               | 0               | *               | 23              | *     |
|   | <b>Navajo Nation</b>                             | 1,150†          | *               | 11              | 73              | 979             | 80    |
|   | <b>Pascua Yaqui Tribe</b>                        | 10†             | 0               | *               | *               | 9               | 0     |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 90†             | 0               | 0               | *               | 75              | 17    |
|   | <b>San Carlos Apache Tribe</b>                   | 200†            | *               | *               | 18              | 159             | 14    |
|   | <b>Tohono O'Odham Nation</b>                     | 100†            | *               | *               | *               | 84              | 9     |
|   | <b>White Mountain Apache Tribe</b>               | 230†            | *               | *               | 22              | 183             | 12    |
|   | <b>Yavapai-Apache Nation</b>                     | 10†             | 0               | 0               | *               | 7               | *     |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†              | 0               | 0               | 0               | *               | 0     |
|   | <b>TOTAL</b>                                     | 2,180†          | 10†             | 20†             | 150†            | 1,810†          | 180†  |
| <b>Resided off<br/>reservation</b>              | <b>---in Maricopa County</b>                     | 1,180†          | 6               | *               | 58              | 974             | 135   |
|   | <b>---in Pima County</b>                         | 330†            | 0               | *               | 29              | 265             | 29    |
|   | <b>---in Coconino County</b>                     | 260†            | *               | *               | 17              | 223             | 14    |
|   | <b>---elsewhere in Arizona</b>                   | 530†            | *               | *               | 38              | 436             | 45    |
|   | <b>TOTAL</b>                                     | 2,285           | 10†             | 10†             | 142             | 1,898           | 223   |

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 (2019 STATUS)**

|  |   | TOTAL<br>BIRTHS | Births with abnormal<br>conditions of the<br>newborn | Abnormal conditions <sup>a</sup>                      |  |                                   |                              |   |                             |
|--|---|-----------------|--|---|--|-----------------------------------|------------------------------|---|-----------------------------|
|  |   |                 |  | Assisted ventilation<br>immediately after<br>delivery | Assisted ventilation<br>for more than 6<br>hours | Surfactant<br>replacement therapy | Suspected neonatal<br>sepsis | Seizure or serious<br>neurologic<br>dysfunction | Significant birth<br>injury |
| ALL AMERICAN INDIAN RESIDENTS OF ARIZONA |   | 4,460†          | 254  | 160†  | 90†  | 20†                               | 120†                         | 0†  | 10†                         |
| Resided on<br>reservation                | Ak-Chin Indian Community                  | 11              | *  | 0   | 0  | 0                                 | *                            | 0   | 0                           |
|  | Cocopah Tribe                             | 8               | *  | *   | *  | 0                                 | *                            | 0   | 0                           |
|  | Colorado River Indian Tribe               | 19              | *  | *   | *  | *                                 | *                            | 0   | 0                           |
|  | Fort McDowell Yavapai Nation Reservation  | 21              | *  | *   | *  | 0                                 | *                            | 0   | 0                           |
|  | Fort Mohave Indian Tribe                  | 8               | 0  | 0   | 0  | 0                                 | 0                            | 0   | 0                           |
|  | Gila River Indian Community               | 205             | 24   | 12  | 8  | *                                 | 17                           | 0   | 0                           |
|  | Havasupai Tribe                           | 7               | 0  | 0   | 0  | 0                                 | 0                            | 0   | 0                           |
|  | Hopi Tribe                                | 92              | *  | *   | 0  | 0                                 | *                            | 0   | 0                           |
|  | Hualapai Tribe                            | 25              | 0  | 0   | 0  | 0                                 | 0                            | 0   | 0                           |
|  | Navajo Nation                             | 1,147           | 54   | 37  | 19   | *                                 | 14                           | *   | *                           |
|  | Pascua Yaqui Tribe                        | 11              | *  | *   | *  | *                                 | *                            | 0   | 0                           |
|  | Salt River Pima-Maricopa Indian Community | 93              | *  | 0   | 0  | 0                                 | *                            | 0   | 0                           |
|  | San Carlos Apache Tribe                   | 195             | 18   | 13  | *  | *                                 | 6                            | 0   | *                           |
|  | Tohono O'Odham Nation                     | 100             | 8  | *   | *  | *                                 | 7                            | 0   | 0                           |
|  | White Mountain Apache Tribe               | 225             | 26   | 16  | 17   | *                                 | 13                           | 0   | 0                           |
|  | Yavapai-Apache Nation                     | 9               | *  | 0   | 0  | 0                                 | 0                            | 0   | *                           |
|  | Yavapai-Prescott Indian Tribe             | *               | 0  | 0   | 0  | 0                                 | 0                            | 0   | 0                           |
|  | TOTAL                                     |                 | 1,180†   | 140†  | 90†  | 60†                               | 10†                          | 70†   | 0†                          |
| Resided off<br>reservation               | ---in Maricopa County                     | 325             | 45   | 31  | 15   | 6                                 | 23                           | 0   | *                           |
|  | ---in Pima County                         | 257             | 20   | 11  | 9  | *                                 | 10                           | 0   | 0                           |
|  | ---in Coconino County                     | 525             | 15   | 14  | *  | *                                 | *                            | 0   | *                           |
|  | ---elsewhere in Arizona                   | 2,177           | 30   | 19  | 9  | 0                                 | 10                           | 0   | *                           |
|  | TOTAL                                     | 2,285           | 110  | 75  | 40†  | 10†                               | 50†                          | 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; <sup>a</sup> 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 (2019 STATUS)**

|  |   | TOTAL BIRTHS | Births with congenital anomalies | Congenital anomalies of the newborn <sup>a</sup> |                            |                                   |                                 |                             |                       |                    |               |                                |             |                              |
|--|---|--------------|----------------------------------|--|----------------------------|-----------------------------------|---------------------------------|-----------------------------|-----------------------|--------------------|---------------|--------------------------------|-------------|------------------------------|
|  |   |              |                                  | Anencephalus                                     | Spina bifida / Meningocele | Cyanotic congenital heart disease | Congenital 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 |   | 4,462        | 30                               | 0†   | 0†                         | 0†                                | 0                               | 0                           | 0†                    | 10†                | 0†            | 0†                             | 0†          | 10†                          |
| Resided on reservation                   | Ak-Chin Indian Community                  | 11           | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | Cocopah Tribe                             | 8            | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | Colorado River Indian Tribe               | 19           | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | Fort McDowell Yavapai Nation Reservation  | 21           | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | Fort Mohave Indian Tribe                  | 8            | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | Gila River Indian Community               | 205          | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | Havasupai Tribe                           | 7            | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | Hopi Tribe                                | 92           | *                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | *                  | 0             | 0                              | 0           | 0                            |
|  | Hualapai Tribe                            | 25           | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | Navajo Nation                             | 1,147        | 7                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | *                  | *             | 0                              | 0           | *                            |
|  | Pascua Yaqui Tribe                        | 11           | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | Salt River Pima-Maricopa Indian Community | 93           | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | San Carlos Apache Tribe                   | 195          | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | Tohono O'Odham Nation                     | 100          | 0                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | 0           | 0                            |
|  | White Mountain Apache Tribe               | 225          | *                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | *                  | 0             | 0                              | 0           | 0                            |
|  | Yavapai-Apache Nation                     | 9            | 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                                     |              | 2,180†                           | 10†  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 10†           | 0†                             | 0           | 0                            |
| Resided off reservation                  | ---in Maricopa County                     | 1,178        | 10                               | *  | *                          | *                                 | 0                               | 0                           | 0                     | *                  | *             | *                              | 0           | *                            |
|  | ---in Pima County                         | 325          | *                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | *             | *                              | 0           | 0                            |
|  | ---in Coconino County                     | 257          | *                                | 0  | 0                          | 0                                 | 0                               | 0                           | 0                     | 0                  | 0             | 0                              | *           | *                            |
|  | ---elsewhere in Arizona                   | 525          | 6                                | 0  | *                          | *                                 | 0                               | 0                           | *                     | *                  | *             | *                              | 0           | *                            |
|  | TOTAL                                     |              | 2,285                            | 20†  | 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; <sup>a</sup> 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, 2019**

|   | TOTAL STATE | Resided on reservation      |                             |               |   |                         |                             |       | Resided off reservation |                   |                       |                         |       |
|---|-------------|-----------------------------|-----------------------------|---------------|---|-------------------------|-----------------------------|-------|-------------------------|-------------------|-----------------------|-------------------------|-------|
|   |             | Colorado River Indian Tribe | Gila River Indian Community | 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 |
| <b>Total, all causes</b>                                      | 31          | 0†                          | 0†                          | 10†           | 1   | 0†                      | 0†                          | 10†   | 10†                     | 0†                | 0†                    | 0†                      | 20†   |
| <b>Certain conditions originating in the perinatal period</b> | 10†         | *                           | *                           | *             | 0   | 0                       | *                           | 10†   | *                       | 0                 | *                     | *                       | 0†    |
| <b>Maternal complications</b>                                 | 0           | 0                           | 0                           | 0             | 0   | 0                       | 0                           | 0     | 0                       | 0                 | 0                     | 0                       | 0     |
| <b>Complications of placenta, cord and membrane</b>           | 0           | 0                           | 0                           | 0             | 0   | 0                       | 0                           | 0     | 0                       | 0                 | 0                     | 0                       | 0     |
| <b>Short gestation and low birth weight</b>                   | 0†          | 0                           | 0                           | 0             | 0   | 0                       | 0                           | 0     | *                       | 0                 | 0                     | 0                       | 0†    |
| <b>Bacterial sepsis of newborn</b>                            | 0†          | 0                           | 0                           | 0             | 0   | 0                       | 0                           | 0     | *                       | 0                 | 0                     | 0                       | 0†    |
| <b>Congenital malformations</b>                               | 10†         | 0                           | 0                           | *             | 0   | *                       | *                           | 0†    | *                       | 0                 | 0                     | 0                       | 0†    |
| <b>of heart</b>   | 0†          | 0                           | 0                           | *             | 0   | *                       | 0                           | 0†    | 0                       | 0                 | 0                     | 0                       | 0     |
| <b>of brain, spinal cord or nervous system</b>                | 0†          | 0                           | 0                           | 0             | 0   | 0                       | *                           | 0†    | *                       | 0                 | 0                     | 0                       | 0†    |
| <b>Sudden infant death syndrome</b>                           | 0†          | 0                           | 0                           | *             | 0   | 0                       | *                           | 0†    | 0                       | *                 | 0                     | 0                       | 0†    |
| <b>Accidents (unintentional injury)</b>                       | 0†          | 0                           | 0                           | *             | 0   | 0                       | 0                           | 0†    | 0                       | 0                 | *                     | 0                       | 0†    |
| <b>Influenza and pneumonia</b>                                | 0           | 0                           | 0                           | 0             | 0   | 0                       | 0                           | 0     | 0                       | 0                 | 0                     | 0                       | 0     |
| <b>Diseases of the digestive system</b>                       | 0           | 0                           | 0                           | 0             | 0   | 0                       | 0                           | 0     | 0                       | 0                 | 0                     | 0                       | 0     |
| <b>Infectious and parasitic diseases</b>                      | 0           | 0                           | 0                           | 0             | 0   | 0                       | 0                           | 0     | 0                       | 0                 | 0                     | 0                       | 0     |
| <b>Diseases of the nervous system</b>                         | 0†          | 0                           | 0                           | 0             | 0   | 0                       | 0                           | 0     | 0                       | 0                 | 0                     | *                       | 0†    |
| <b>Mechanical suffocation</b>                                 | 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.

**4.21**  
**COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY**  
**COUNTY OF RESIDENCE, ARIZONA, 2019**

|                            |                               | Total State | Apache | Cochise | Coconino | Gila | Graham | Greenlee | La Paz | Maricopa | Mohave | Navajo | Pima | Pinal | Santa Cruz | Yavapai | Yuma |
|----------------------------|-------------------------------|-------------|--------|---------|----------|------|--------|----------|--------|----------|--------|--------|------|-------|------------|---------|------|
| <b>Total births</b>        |                               | 4,462       | 700+   | 20+     | 540+     | 150+ | 70+    | 0+       | 50+    | 1,340+   | 60+    | 710+   | 440+ | 310+  | 0+         | 40+     | 40+  |
| <b>Mother's age group</b>  | <b>&lt;15</b>                 | 10+         | *      | 0       | 0        | *    | 0      | 0        | *      | 0        | 0      | 0      | *    | 0     | 0          | 0       | 0    |
|                            | <b>15-17</b>                  | 120+        | 15     | 0       | 14       | 10   | *      | 0        | *      | 29       | *      | 27     | 10   | 12    | 0          | 0       | 0    |
|                            | <b>18-19</b>                  | 280+        | 40     | *       | 25       | 8    | 8      | 0        | *      | 88       | 6      | 44     | 32   | 20    | 0          | *       | *    |
|                            | <b>20-24</b>                  | 1,150+      | 189    | *       | 142      | 33   | 17     | 0        | 9      | 354      | 17     | 157    | 112  | 86    | *          | 9       | 18   |
|                            | <b>25-29</b>                  | 1,360+      | 207    | 7       | 160      | 47   | 23     | *        | 24     | 402      | 15     | 223    | 126  | 96    | 0          | 16      | 10   |
|                            | <b>30-34</b>                  | 1,000+      | 167    | *       | 120      | 36   | 15     | 0        | *      | 293      | 12     | 162    | 109  | 66    | 0          | 8       | 6    |
|                            | <b>35-39</b>                  | 450+        | 69     | *       | 67       | 7    | 7      | 0        | 7      | 143      | *      | 80     | 40   | 23    | 0          | *       | *    |
|                            | <b>40-44</b>                  | 90+         | 12     | 0       | 14       | *    | 0      | 0        | 0      | 30       | *      | 18     | *    | *     | 0          | *       | *    |
|                            | <b>45+</b>                    | 0+          | 0      | 0       | 0        | *    | 0      | 0        | 0      | *        | 0      | 0      | 0    | 0     | 0          | 0       | 0    |
|                            | <b>Unknown</b>                | 0           | 0      | 0       | 0        | 0    | 0      | 0        | 0      | 0        | 0      | 0      | 0    | 0     | 0          | 0       | 0    |
| <b>Payee for births</b>    | <b>AHCCCS</b>                 | 3,047       | 568    | 10      | 412      | 35   | 14     | 0        | 36     | 917      | 41     | 606    | 229  | 137   | 0          | 24      | 18   |
|                            | <b>IHS</b>                    | 670+        | 46     | 0       | 38       | 102  | 45     | 0        | 7      | 142      | *      | 34     | 114  | 116   | 0          | 6       | 12   |
|                            | <b>Private insurance</b>      | 610+        | 45     | *       | 82       | 6    | 14     | *        | *      | 253      | 8      | 50     | 78   | 47    | *          | 9       | 6    |
|                            | <b>Self-pay</b>               | 90+         | 40     | 0       | *        | *    | *      | 0        | *      | 16       | 0      | 15     | 7    | *     | 0          | 0       | *    |
|                            | <b>Unknown</b>                | 50+         | *      | *       | 7        | 0    | 0      | 0        | 0      | 13       | *      | 6      | 7    | *     | 0          | 0       | 0    |
| <b>Mother's education</b>  | <b>8th Grade or Less</b>      | 70+         | *      | 0       | *        | *    | *      | 0        | 0      | 26       | 0      | 11     | 11   | 8     | 0          | 0       | *    |
|                            | <b>Some High School</b>       | 990+        | 86     | *       | 86       | 40   | 22     | 0        | 14     | 307      | 19     | 166    | 108  | 117   | 0          | 10      | 10   |
|                            | <b>High School / GED</b>      | 1,580+      | 230    | 6       | 212      | 65   | 34     | *        | 25     | 412      | 23     | 274    | 176  | 91    | 0          | 13      | 21   |
|                            | <b>Some College</b>           | 1,210+      | 236    | 7       | 159      | 27   | *      | 0        | 6      | 418      | 13     | 173    | 88   | 62    | *          | 13      | 6    |
|                            | <b>Associate Degree</b>       | 350+        | 92     | *       | 41       | *    | 6      | 0        | 0      | 102      | 0      | 55     | 26   | 19    | 0          | 0       | *    |
|                            | <b>Bachelor's Degree</b>      | 180+        | 39     | 0       | 27       | *    | *      | 0        | *      | 55       | *      | 23     | 18   | 9     | 0          | *       | 0    |
|                            | <b>Postgraduate Education</b> | 70+         | 11     | 0       | 14       | *    | 0      | 0        | *      | 19       | 0      | 9      | 8    | 0     | 0          | 0       | *    |
|                            | <b>Unknown</b>                | 10+         | *      | 0       | 0        | *    | 0      | 0        | *      | *        | 0      | 0      | 0    | *     | 0          | 0       | 0    |
| <b>Marital status</b>      | <b>Married</b>                | 904         | 120    | 8       | 127      | 24   | 10     | 0        | 10     | 302      | 11     | 138    | 88   | 48    | 0          | 9       | 9    |
|                            | <b>Unmarried*</b>             | 3,500+      | 571    | 9       | 408      | 120  | 64     | *        | 39     | 1,020    | 44     | 564    | 342  | 254   | *          | 30      | 30   |
|                            | <b>Unknown</b>                | 60+         | 10     | 0       | 7        | *    | 0      | 0        | 0      | 19       | *      | 9      | *    | 6     | 0          | 0       | *    |
| <b>Weight gain</b>         | <b>Inadequate</b>             | 990+        | 183    | *       | 118      | 30   | 19     | 0        | 9      | 274      | 12     | 170    | 97   | 60    | 0          | 11      | 7    |
|                            | <b>Adequate</b>               | 1,220+      | 209    | *       | 178      | 36   | 14     | *        | 13     | 348      | 13     | 217    | 116  | 60    | 0          | 6       | 7    |
|                            | <b>Excessive</b>              | 2,180+      | 297    | 9       | 232      | 77   | 40     | *        | 26     | 698      | 31     | 311    | 220  | 186   | *          | 22      | 26   |
|                            | <b>Unknown</b>                | 70+         | 12     | 0       | 14       | *    | *      | 0        | *      | 21       | *      | 13     | *    | *     | 0          | 0       | 0    |
| <b>Substance use</b>       | <b>Non Smoker</b>             | 4,110+      | 535    | 14      | 528      | 138  | 69     | *        | 47     | 1,293    | 52     | 648    | 412  | 296   | *          | 36      | 39   |
|                            | <b>Light Smoker</b>           | 110+        | *      | *       | 6        | 6    | *      | 0        | 0      | 27       | *      | 32     | 12   | 11    | 0          | *       | 0    |
|                            | <b>Heavy Smoker</b>           | 30+         | *      | *       | *        | 0    | *      | 0        | 0      | 10       | *      | *      | 9    | 0     | 0          | *       | 0    |
|                            | <b>Unknown</b>                | 220+        | 159    | 0       | 7        | *    | 0      | 0        | *      | 11       | *      | 28     | *    | *     | 0          | 0       | *    |
| <b>Length of gestation</b> | <b>&lt;37 weeks</b>           | 480+        | 66     | 0       | 63       | 27   | 8      | 0        | 12     | 130      | *      | 80     | 36   | 42    | 0          | *       | 6    |
|                            | <b>37-41 weeks</b>            | 3,960+      | 628    | 16      | 474      | 117  | 65     | *        | 37     | 1,206    | 54     | 629    | 397  | 263   | *          | 37      | 34   |
|                            | <b>42+ weeks</b>              | 10+         | 0      | 0       | *        | 0    | 0      | 0        | 0      | *        | 0      | *      | *    | *     | 0          | 0       | 0    |
|                            | <b>Unknown</b>                | 20+         | 7      | *       | *        | *    | *      | 0        | 0      | 0        | 0      | *      | *    | 0     | 0          | 0       | 0    |

**4.21 (continued)**  
**COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY**  
**COUNTY OF RESIDENCE, ARIZONA, 2019**

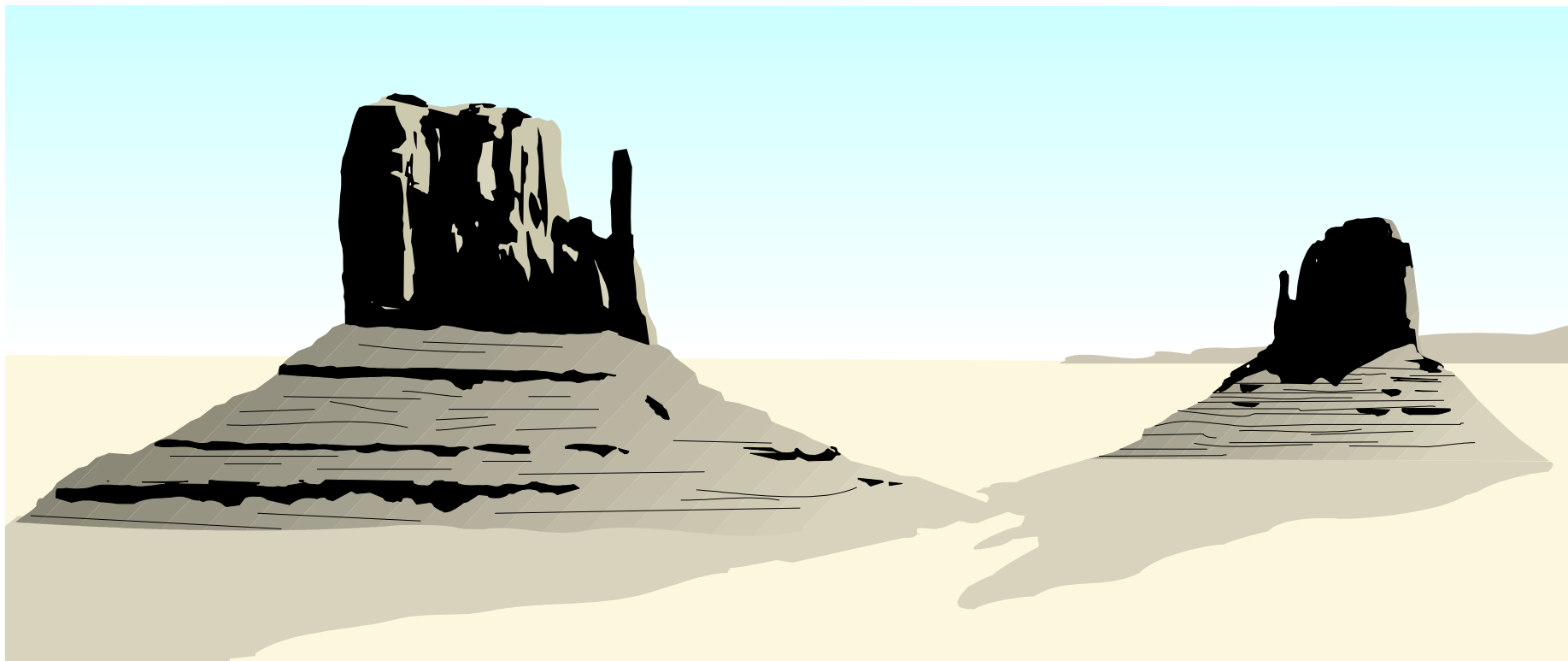
|   |  | Total State | Apache | Cochise | Coconino | Gila | Graham | Greenlee | La Paz | Maricopa | Mohave | Navajo | Pima | Pinal | Santa Cruz | Yavapai | Yuma |
|---|--|-------------|--------|---------|----------|------|--------|----------|--------|----------|--------|--------|------|-------|------------|---------|------|
| <b>Weight at birth</b>                              | <b>&lt;1,000 grams</b>                       | 20+         | *      | 0       | *        | *    | *      | 0        | 0      | 7        | 0      | *      | 0    | *     | 0          | 0       | 0    |
|   | <b>1,000-1,499</b>                           | 30+         | 6      | 0       | *        | *    | 0      | 0        | 0      | *        | 0      | 12     | *    | *     | 0          | 0       | 0    |
|   | <b>1,500-2,499</b>                           | 300+        | 43     | *       | 36       | 14   | *      | 0        | 6      | 63       | *      | 60     | 35   | 26    | 0          | *       | *    |
|   | <b>2,500-3,999</b>                           | 3,700+      | 601    | 15      | 463      | 119  | 62     | *        | 38     | 1,102    | 52     | 599    | 358  | 229   | *          | 34      | 29   |
|   | <b>4000+</b>                                 | 410+        | 47     | *       | 39       | 8    | 7      | 0        | *      | 164      | *      | 37     | 38   | 46    | 0          | *       | 6    |
|   | <b>Unknown</b>                               | 0           | 0      | 0       | 0        | 0    | 0      | 0        | 0      | 0        | 0      | 0      | 0    | 0     | 0          | 0       | 0    |
| <b>Prenatal care</b>                                | <b>No care</b>                               | 240+        | 48     | *       | 14       | 13   | 9      | 0        | *      | 68       | *      | 31     | 30   | 13    | 0          | 0       | 0    |
|   | <b>1st trimester</b>                         | 2,560+      | 416    | 6       | 330      | 72   | 40     | *        | *      | 813      | 26     | 398    | 242  | 171   | *          | 17      | 24   |
|   | <b>2nd trimester</b>                         | 1,065       | 174    | 7       | 111      | 34   | 11     | 0        | 18     | 295      | 13     | 180    | 116  | 80    | 0          | 13      | 13   |
|   | <b>3rd trimester</b>                         | 400+        | 48     | *       | 34       | 19   | 13     | *        | 9      | 112      | 11     | 66     | 42   | 36    | 0          | 8       | *    |
|   | <b>Unknown</b>                               | 200+        | 15     | *       | 53       | 7    | *      | 0        | 12     | 53       | *      | 36     | *    | 8     | 0          | *       | *    |
| <b>Prenatal visits</b>                              | <b>No visits</b>                             | 240+        | 48     | *       | 14       | 13   | 9      | 0        | *      | 68       | *      | 31     | 30   | 13    | 0          | 0       | 0    |
|   | <b>1-4 visits</b>                            | 540+        | 67     | *       | 42       | 40   | 21     | 0        | 10     | 144      | 8      | 83     | 72   | 37    | *          | *       | 6    |
|   | <b>5-8 visits</b>                            | 1,090+      | 136    | *       | 114      | 41   | 24     | *        | 18     | 345      | 17     | 179    | 127  | 64    | 0          | 11      | 7    |
|   | <b>9-12 visits</b>                           | 1,650+      | 279    | 7       | 209      | 27   | 14     | *        | 9      | 516      | 22     | 278    | 144  | 113   | 0          | 16      | 19   |
|   | <b>13+ visits</b>                            | 830+        | 164    | *       | 127      | 21   | *      | 0        | *      | 238      | *      | 118    | 61   | 73    | 0          | 6       | 7    |
|   | <b>Unknown</b>                               | 110+        | 7      | 0       | 36       | *    | *      | 0        | *      | 30       | 0      | 22     | *    | 8     | 0          | *       | *    |
| <b>Newborn intensive care</b>                       | <b>Yes</b>                                   | 390+        | 53     | *       | 38       | 8    | *      | 0        | 6      | 102      | 0      | 63     | 48   | 57    | 0          | 0       | *    |
|   | <b>No</b>                                    | 4,080+      | 648    | 16      | 504      | 137  | 70     | *        | 43     | 1,239    | 57     | 648    | 387  | 251   | *          | 39      | 35   |
| <b>Method of delivery</b>                           | <b>Vaginal</b>                               | 3,290+      | 571    | 11      | 422      | 96   | 43     | *        | 37     | 923      | 38     | 544    | 340  | 208   | *          | 27      | 22   |
|   | <b>C-Section</b>                             | 1,097       | 123    | 6       | 111      | 44   | 25     | 0        | 12     | 394      | 17     | 151    | 86   | 99    | 0          | 12      | 17   |
|   | <b>Forceps</b>                               | 10+         | *      | 0       | *        | *    | *      | 0        | 0      | *        | *      | 0      | 0    | 0     | 0          | 0       | 0    |
|   | <b>Vacuum</b>                                | 70+         | 6      | 0       | 8        | *    | *      | 0        | 0      | 19       | *      | 16     | 9    | *     | 0          | 0       | *    |
|   | <b>Unknown</b>                               | 0           | 0      | 0       | 0        | 0    | 0      | 0        | 0      | 0        | 0      | 0      | 0    | 0     | 0          | 0       | 0    |
| <b>Obstetric procedures<sup>b</sup></b>             | <b>Total</b>                                 | 2,338       | 376    | 7       | 308      | 86   | 34     | 0        | 7      | 659      | 30     | 361    | 288  | 134   | 0          | 24      | 24   |
|   | <b>Induction of labor</b>                    | 1,400+      | 231    | *       | 210      | 47   | 24     | 0        | 7      | 382      | 16     | 236    | 133  | 83    | 0          | 16      | 13   |
|   | <b>Augmentation of labor</b>                 | 1,250+      | 178    | *       | 155      | 41   | 11     | 0        | *      | 410      | 14     | 151    | 171  | 78    | 0          | 12      | 19   |
|   | <b>Cervical cerclage</b>                     | 10+         | 0      | 0       | 0        | *    | 0      | 0        | 0      | 0        | 0      | *      | *    | 0     | 0          | 0       | *    |
|   | <b>Tocolysis</b>                             | 40+         | *      | 0       | *        | 9    | *      | 0        | 0      | *        | 0      | *      | 15   | *     | 0          | 0       | 0    |
|   | <b>External cephalic version successful</b>  | 10+         | *      | 0       | *        | *    | 0      | 0        | 0      | *        | 0      | *      | 0    | 0     | 0          | 0       | 0    |
|   | <b>External cephalic version failed</b>      | 10+         | *      | 0       | *        | 0    | 0      | 0        | 0      | 0        | 0      | *      | 0    | 0     | 0          | 0       | 0    |
| <b>Births with medical risk factors<sup>b</sup></b> | <b>Total</b>                                 | 1,940+      | 324    | *       | 243      | 65   | 31     | 0        | 10     | 528      | 10     | 351    | 215  | 126   | 0          | 10      | 20   |
|   | <b>Pre-existing diabetes</b>                 | 160+        | 33     | 0       | 14       | 6    | *      | 0        | *      | 43       | 0      | 19     | 10   | 24    | 0          | 0       | *    |
|   | <b>Gestational diabetes</b>                  | 780+        | 109    | 0       | 108      | 11   | 8      | 0        | *      | 260      | *      | 141    | 75   | 46    | 0          | *       | *    |
|   | <b>Pre-existing hypertension</b>             | 100+        | 22     | *       | 18       | *    | *      | 0        | 0      | 28       | 0      | 12     | 10   | *     | 0          | 0       | *    |
|   | <b>Gestational hypertension</b>              | 590+        | 95     | 0       | 84       | 25   | 14     | 0        | *      | 120      | *      | 132    | 65   | 43    | 0          | *       | *    |
|   | <b>Eclampsia</b>                             | 20+         | 0      | 0       | *        | *    | 0      | 0        | 0      | *        | *      | 6      | 0    | *     | 0          | 0       | 0    |
|   | <b>Previous preterm birth</b>                | 240+        | 29     | *       | 28       | 8    | *      | 0        | 0      | 64       | *      | 51     | 35   | 16    | 0          | *       | 7    |
|   | <b>Other previous poor pregnancy outcome</b> | 190+        | 57     | *       | 7        | *    | *      | 0        | 0      | 36       | 0      | 24     | 56   | *     | 0          | 0       | *    |
|   | <b>Gonorrhea</b>                             | 50+         | 11     | 0       | 6        | *    | *      | 0        | *      | 12       | *      | 10     | *    | *     | 0          | 0       | *    |
|   | <b>Syphilis</b>                              | 40+         | *      | 0       | *        | 7    | *      | 0        | *      | 14       | 0      | 7      | 0    | 6     | 0          | 0       | 0    |
|   | <b>Chlamydia</b>                             | 330+        | 60     | 0       | 41       | 20   | *      | 0        | *      | 77       | *      | 72     | 23   | 16    | 0          | 0       | 8    |
|   | <b>Hepatitis B</b>                           | 10+         | *      | 0       | *        | 0    | 0      | 0        | 0      | *        | 0      | *      | *    | *     | 0          | 0       | 0    |
|   | <b>Hepatitis C</b>                           | 10+         | *      | 0       | 0        | 0    | 0      | 0        | 0      | *        | 0      | *      | *    | *     | 0          | 0       | 0    |

**4.21 (continued)**  
**COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY**  
**COUNTY OF RESIDENCE, ARIZONA, 2019**

|  |   | Total State | Apache | Cochise | Coconino | Gila | Graham | Greenlee | La Paz | Maricopa | Mohave | Navajo | Pima | Pinal | Santa Cruz | Yavapai | Yuma |
|--|---|-------------|--------|---------|----------|------|--------|----------|--------|----------|--------|--------|------|-------|------------|---------|------|
| <b>Births with complications of labor and delivery<sup>b</sup></b> | <b>Total</b>                                    | 1,399       | 224    | 6       | 166      | 63   | 25     | 0        | 9      | 426      | 14     | 207    | 139  | 90    | 0          | 8       | 22   |
|  | Premature rupture of the membranes              | 370†        | 73     | *       | 49       | 12   | *      | 0        | *      | 109      | *      | 47     | 42   | 19    | 0          | *       | *    |
|  | Precipitous labor                               | 260†        | 60     | *       | 22       | 14   | *      | 0        | *      | 59       | *      | 51     | 35   | 9     | 0          | 0       | *    |
|  | Prolonged labor                                 | 180†        | 29     | *       | 30       | 8    | *      | 0        | *      | 52       | 6      | 24     | 15   | 6     | 0          | *       | *    |
|  | Breech presentation                             | 180†        | 26     | 0       | 23       | 9    | 6      | 0        | 0      | 44       | *      | 34     | 19   | 17    | 0          | *       | *    |
|  | Chorioamnionitis                                | 90†         | 9      | 0       | 11       | *    | *      | 0        | 0      | 31       | *      | 8      | 8    | 10    | 0          | 0       | *    |
|  | Meconium staining of the amniotic fluid         | 310†        | 33     | *       | 27       | 11   | 6      | 0        | *      | 115      | *      | 41     | 31   | 31    | 0          | *       | 10   |
|  | Fetal intolerance                               | 310†        | 32     | *       | 39       | 26   | 8      | 0        | *      | 137      | *      | 30     | 12   | 17    | 0          | *       | *    |
|  | Maternal transfusion                            | 70†         | 9      | 0       | *        | *    | *      | 0        | *      | 15       | 0      | 16     | 10   | 7     | 0          | 0       | 0    |
|  | Third or fourth degree perineal laceration      | 30†         | 6      | 0       | *        | 0    | 0      | 0        | 0      | 6        | 0      | *      | *    | *     | 0          | 0       | 0    |
|  | Ruptured uterus                                 | 0†          | *      | 0       | 0        | 0    | 0      | 0        | 0      | *        | 0      | 0      | *    | 0     | 0          | 0       | 0    |
|  | Unplanned hysterectomy                          | 10†         | *      | 0       | *        | 0    | 0      | 0        | 0      | *        | 0      | 0      | *    | *     | 0          | 0       | 0    |
|  | Admission to intensive care unit                | 20†         | 0      | 0       | *        | 0    | 0      | 0        | *      | 8        | 0      | *      | *    | *     | 0          | 0       | 0    |
|  | Unplanned surgery following delivery            | 20†         | 8      | 0       | *        | *    | 0      | 0        | 0      | *        | 0      | *      | 0    | *     | 0          | 0       | *    |
| <b>Abnormal conditions of the newborn<sup>b</sup></b>              | <b>Total</b>                                    | 250†        | 32     | *       | 30       | 12   | 7      | 0        | *      | 53       | 0      | 49     | 29   | 34    | 0          | *       | *    |
|  | Assisted ventilation immediately after delivery | 160†        | 20     | 0       | 23       | 10   | *      | 0        | *      | 36       | 0      | 37     | 16   | 13    | 0          | 0       | *    |
|  | Assisted ventilation for more than 6 hours      | 90†         | 14     | 0       | *        | *    | *      | 0        | *      | 18       | 0      | 24     | 13   | 10    | 0          | 0       | *    |
|  | Surfactant replacement therapy                  | 20†         | *      | 0       | *        | *    | 0      | 0        | *      | 7        | 0      | *      | 6    | *     | 0          | 0       | 0    |
|  | Suspected neonatal sepsis                       | 120†        | 14     | *       | 6        | *    | *      | 0        | *      | 28       | 0      | 15     | 18   | 24    | 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                        | 10†         | *      | 0       | *        | 0    | *      | 0        | 0      | *        | 0      | *      | 0    | *     | 0          | *       | 0    |
| <b>Congenital anomalies of the newborn<sup>b</sup></b>             | <b>Total</b>                                    | 30†         | 6      | 0       | 6        | *    | 0      | 0        | 0      | 10       | *      | *      | *    | *     | 0          | 0       | 0    |
|  | Anencephalus                                    | 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               | 0†          | 0      | 0       | 0        | 0    | 0      | 0        | 0      | *        | 0      | 0      | 0    | *     | 0          | 0       | 0    |
|  | Congenital diaphragmatic hernia                 | 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     | 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          | 0       | 0    |
|  | Down syndrome                                   | 0†          | 0      | 0       | *        | 0    | 0      | 0        | 0      | *        | 0      | 0      | *    | *     | 0          | 0       | 0    |
|  | Suspected chromosomal disorder                  | 0†          | 0      | 0       | 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    |
| <b>Infant mortality<sup>c</sup></b>                                | <b>Total</b>                                    | 30†         | 0†     | 0       | 0†       | 0†   | 0      | 0        | 0†     | 10†      | 0      | 10†    | 0†   | 0†    | 0          | 0       | 0    |
|  | Neonatal  | 10†         | *      | 0       | *        | 0    | 0      | 0        | *      | *        | 0      | *      | 0    | *     | 0          | 0       | 0    |
|  | Postneonatal                                    | 20†         | *      | 0       | *        | *    | 0      | 0        | 0      | 6        | 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; <sup>a</sup> The coding of marital status has changed as such unmarried category includes divorced; <sup>b</sup> 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; <sup>c</sup> Total infant mortality includes unknown county of residence.





**V.**  
**PATTERNS OF MORTALITY AMONG AMERICAN INDIANS**  
**BY PLACE OF RESIDENCE IN ARIZONA**  
**IN 2019**







## **AGE-SPECIFIC MORTALITY**

**5.1**  
**AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIANS IN 2019**

|  |   | TOTAL <sup>a</sup> | 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 |   | 2,600†             | 30†       | 10† | 20†  | 80†   | 240†  | 280†  | 340†  | 430†  | 440†  | 400†  | 330† |
| Resided on reservation                   | Ak-Chin Indian Community                  | 0†                 | 0         | 0   | 0    | 0     | 0     | 0     | *     | 0     | *     | *     | 0    |
|  | Cocopah Tribe                             | 10†                | 0         | 0   | 0    | 0     | *     | 0     | *     | *     | *     | *     | 0    |
|  | Colorado River Indian Tribe               | 20†                | *         | 0   | 0    | *     | *     | *     | *     | *     | *     | *     | 0    |
|  | Fort McDowell Yavapai Nation Reservation  | 20†                | 0         | 0   | 0    | 0     | *     | *     | 0     | 6     | *     | *     | 0    |
|  | Fort Mohave Reservation                   | 0†                 | 0         | 0   | 0    | 0     | *     | 0     | 0     | *     | 0     | *     | 0    |
|  | Gila River Indian Community               | 150†               | *         | *   | 0    | 9     | 14    | 21    | 22    | 32    | 26    | 16    | 8    |
|  | Havasupai Tribe                           | 0†                 | 0         | 0   | 0    | 0     | 0     | *     | 0     | *     | 0     | 0     | 0    |
|  | Hopi Tribe                                | 90†                | 0         | 0   | 0    | *     | *     | *     | 9     | 22    | 13    | 13    | 21   |
|  | Hualapai Tribe                            | 20†                | 0         | 0   | *    | 0     | *     | *     | *     | *     | *     | *     | 0    |
|  | Kaibab Indian Reservation                 | 0†                 | 0         | 0   | 0    | 0     | *     | *     | 0     | *     | *     | 0     | 0    |
|  | Navajo Nation                             | 830†               | 7         | *   | *    | 26    | 71    | 71    | 98    | 107   | 122   | 161   | 159  |
|  | Pascua Yaqui Tribe                        | 10†                | 0         | 0   | 0    | 0     | 0     | *     | 0     | *     | 0     | *     | *    |
|  | Salt River Pima-Maricopa Indian Community | 60†                | *         | 0   | 0    | *     | 6     | 7     | 10    | 14    | 10    | 7     | *    |
|  | San Carlos Apache Tribe                   | 120†               | *         | *   | *    | *     | 8     | 19    | 17    | 22    | 24    | 13    | 8    |
|  | Tohono O'Odham Nation                     | 80†                | 0         | 0   | *    | *     | 7     | 10    | 8     | 17    | 17    | 8     | 8    |
|  | White Mountain Apache Tribe               | 130†               | *         | 0   | *    | *     | 13    | 14    | 19    | 27    | 22    | 20    | 10   |
|  | Yavapai-Apache Nation                     | 10†                | 0         | 0   | 0    | 0     | *     | *     | *     | *     | 0     | 0     | *    |
|  | Yavapai-Prescott Indian Tribe             | 0†                 | 0         | 0   | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | *    |
|  | TOTAL                                     |                    | 1,540†    | 10† | 0†   | 10†   | 50†   | 130†  | 160†  | 190†  | 260†  | 250†  | 250† |
| Resided off reservation                  | ---in Maricopa County                     | 440†               | 8         | *   | *    | 17    | 45    | 62    | 66    | 73    | 75    | 57    | 34   |
|  | ---in Pima County                         | 180†               | *         | *   | *    | 7     | 14    | 17    | 27    | 22    | 34    | 31    | 19   |
|  | ---in Coconino County                     | 80†                | *         | 0   | *    | *     | 12    | 10    | 9     | 10    | 11    | 9     | 15   |
|  | ---elsewhere in Arizona                   | 360†               | *         | *   | *    | 8     | 34    | 35    | 46    | 61    | 68    | 50    | 46   |
|  | TOTAL <sup>a</sup>                        |                    | 1,060†    | 20† | 10†  | 10†   | 40†   | 105   | 124   | 148   | 166   | 188   | 147  |

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; <sup>a</sup> total may include cases with unknown gender.

**5.2**  
**AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIAN MALES IN 2019**

|  |   | 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 |   | 1,460† | 20†       | 0†  | 10†  | 60†   | 160†  | 170†  | 210†  | 260†  | 230†  | 200†  | 130† |
| Resided on reservation                   | Ak-Chin Indian Community                  | 0†     | 0         | 0   | 0    | 0     | 0     | 0     | *     | 0     | *     | *     | 0    |
|  | Cocopah Tribe                             | 0†     | 0         | 0   | 0    | 0     | 0     | 0     | *     | 0     | *     | *     | 0    |
|  | Colorado River Indian Tribe               | 10†    | 0         | 0   | 0    | *     | *     | *     | 0     | *     | *     | *     | 0    |
|  | Fort McDowell Yavapai Nation Reservation  | 10†    | 0         | 0   | 0    | 0     | 0     | *     | 0     | *     | *     | *     | 0    |
|  | Fort Mohave Reservation                   | 0†     | 0         | 0   | 0    | 0     | 0     | 0     | 0     | *     | 0     | *     | 0    |
|  | Gila River Indian Community               | 80†    | 0         | 0   | 0    | 6     | 8     | 13    | 11    | 18    | 14    | 6     | *    |
|  | Havasupai Tribe                           | 0†     | 0         | 0   | 0    | 0     | 0     | *     | 0     | *     | 0     | 0     | 0    |
|  | Hopi Tribe                                | 50†    | 0         | 0   | 0    | 0     | *     | *     | 7     | 14    | 7     | 8     | *    |
|  | Hualapai Tribe                            | 10†    | 0         | 0   | 0    | 0     | *     | *     | *     | *     | *     | *     | 0    |
|  | Kaibab Indian Reservation                 | 0†     | 0         | 0   | 0    | 0     | *     | 0     | 0     | 0     | 0     | 0     | 0    |
|  | Navajo Nation                             | 490†   | *         | 0   | *    | 20    | 48    | 50    | 69    | 73    | 72    | 84    | 66   |
|  | Pascua Yaqui Tribe                        | 10†    | 0         | 0   | 0    | 0     | 0     | *     | 0     | *     | 0     | 0     | *    |
|  | Salt River Pima-Maricopa Indian Community | 30†    | *         | 0   | 0    | 0     | *     | *     | 6     | 8     | *     | *     | 0    |
|  | San Carlos Apache Tribe                   | 70†    | *         | 0   | *    | *     | *     | 13    | 12    | 12    | 12    | 8     | *    |
|  | Tohono O'Odham Nation                     | 50†    | 0         | 0   | *    | *     | 6     | 6     | 6     | 9     | 8     | *     | *    |
|  | White Mountain Apache Tribe               | 80†    | *         | 0   | *    | *     | 7     | 9     | 8     | 21    | 17    | 7     | *    |
|  | Yavapai-Apache Nation                     | 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                                     |        | 890†      | 10† | 0    | 10†   | 40†   | 80†   | 110†  | 120†  | 170†  | 140†  | 130† |
| Resided off reservation                  | ---in Maricopa County                     | 230†   | *         | 0   | *    | 13    | 33    | 31    | 34    | 37    | 37    | 26    | 9    |
|  | ---in Pima County                         | 100†   | *         | *   | *    | 6     | 10    | 10    | 21    | 11    | 14    | 17    | *    |
|  | ---in Coconino County                     | 40†    | *         | 0   | 0    | *     | 9     | *     | 7     | *     | 6     | *     | *    |
|  | ---elsewhere in Arizona                   | 210†   | *         | *   | *    | 6     | 24    | 20    | 26    | 37    | 35    | 28    | 23   |
|  | TOTAL                                     |        | 580†      | 10† | 0†   | 10†   | 30†   | 76    | 70†   | 88    | 90†   | 92    | 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.

**5.3**  
**AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIAN FEMALES IN 2019**

|   |  | TOTAL  | Age group |     |      |       |       |       |       |       |       |       |      |
|---|--|--------|-----------|-----|------|-------|-------|-------|-------|-------|-------|-------|------|
|   |  |        | <1        | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+  |
| <b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b> |  | 1,140† | 10†       | 10† | 0†   | 20†   | 80†   | 110†  | 130†  | 170†  | 210†  | 200†  | 200† |
| <b>Resided on reservation</b>                   | <b>Ak-Chin Indian Community</b>                  | 0      | 0         | 0   | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    |
|   | <b>Cocopah Tribe</b>                             | 10†    | 0         | 0   | 0    | 0     | *     | 0     | *     | *     | *     | 0     | 0    |
|   | <b>Colorado River Indian Tribe</b>               | 10†    | *         | 0   | 0    | 0     | *     | 0     | *     | *     | *     | *     | 0    |
|   | <b>Fort McDowell Yavapai Nation Reservation</b>  | 10†    | 0         | 0   | 0    | 0     | *     | *     | 0     | *     | *     | *     | 0    |
|   | <b>Fort Mohave Reservation</b>                   | 0†     | 0         | 0   | 0    | 0     | *     | 0     | 0     | 0     | 0     | 0     | 0    |
|   | <b>Gila River Indian Community</b>               | 70†    | *         | *   | 0    | *     | 6     | 8     | 11    | 14    | 12    | 10    | 6    |
|   | <b>Havasupai Tribe</b>                           | 0      | 0         | 0   | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    |
|   | <b>Hopi Tribe</b>                                | 40†    | 0         | 0   | 0    | *     | 0     | *     | *     | 8     | 6     | *     | 16   |
|   | <b>Hualapai Tribe</b>                            | 10†    | 0         | 0   | *    | 0     | 0     | 0     | *     | *     | *     | *     | 0    |
|   | <b>Kaibab Indian Reservation</b>                 | 0†     | 0         | 0   | 0    | 0     | 0     | *     | 0     | *     | *     | 0     | 0    |
|   | <b>Navajo Nation</b>                             | 340†   | *         | *   | 0    | 6     | 23    | 21    | 29    | 34    | 50    | 77    | 93   |
|   | <b>Pascua Yaqui Tribe</b>                        | 0†     | 0         | 0   | 0    | 0     | 0     | 0     | 0     | 0     | 0     | *     | 0    |
|   | <b>Salt River Pima-Maricopa Indian Community</b> | 30†    | 0         | 0   | 0    | *     | *     | *     | *     | 6     | 7     | *     | *    |
|   | <b>San Carlos Apache Tribe</b>                   | 50†    | 0         | *   | 0    | 0     | *     | 6     | *     | 10    | 12    | *     | *    |
|   | <b>Tohono O'Odham Nation</b>                     | 30†    | 0         | 0   | 0    | 0     | *     | *     | *     | 8     | 9     | *     | *    |
|   | <b>White Mountain Apache Tribe</b>               | 60†    | *         | 0   | 0    | *     | 6     | *     | 11    | 6     | *     | 13    | 7    |
|   | <b>Yavapai-Apache Nation</b>                     | 0†     | 0         | 0   | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | *    |
|   | <b>Yavapai-Prescott Indian Tribe</b>             | 0†     | 0         | 0   | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | *    |
|   | <b>TOTAL</b>                                     | 650†   | 10†       | 0†  | 1    | 10†   | 50†   | 50†   | 70†   | 100†  | 110†  | 130†  | 130† |
| <b>Resided off reservation</b>                  | <b>---in Maricopa County</b>                     | 210†   | *         | *   | 0    | *     | 12    | 31    | 32    | 36    | 38    | 31    | 25   |
|   | <b>---in Pima County</b>                         | 80†    | *         | 0   | *    | *     | *     | 7     | 6     | 11    | 20    | 14    | 14   |
|   | <b>---in Coconino County</b>                     | 40†    | *         | 0   | *    | *     | *     | *     | *     | *     | *     | 7     | 11   |
|   | <b>---elsewhere in Arizona</b>                   | 150†   | 0         | *   | 0    | *     | 10    | 15    | 20    | 24    | 33    | 22    | 23   |
|   | <b>TOTAL</b>                                     | 490†   | 10†       | 0†  | 0†   | 10†   | 30†   | 60†   | 60†   | 80†   | 100†  | 74    | 73   |

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, 2019**

| <b>Cause of death</b><br>(Tenth Revision, International Statistical Classification of Diseases) | <b>TOTAL</b> | <b>MALE</b> | <b>FEMALE</b> |
|---|--------------|-------------|---------------|
| <b>Total, all causes</b>  | 2,599        | 1,463       | 1,136         |
| Salmonella infections   | 0†           | 0           | *             |
| Shigellosis and amebiasis   | 0            | 0           | 0             |
| Certain other intestinal infections   | 10†          | *           | 6             |
| Enterocolitis due to Clostridium difficile  | 10†          | *           | *             |
| Tuberculosis  | 0            | 0           | 0             |
| Respiratory tuberculosis  | 0            | 0           | 0             |
| Other tuberculosis  | 0            | 0           | 0             |
| Whooping cough  | 0            | 0           | 0             |
| Scarlet fever and erysipelas  | 0            | 0           | 0             |
| Meningococcal infection   | 0            | 0           | 0             |
| Septicemia  | 36           | 21          | 15            |
| Syphilis  | 0            | 0           | 0             |
| Acute poliomyelitis   | 0            | 0           | 0             |
| Arthropod-borne encephalitis  | 0            | 0           | 0             |
| Measles   | 0            | 0           | 0             |
| Viral hepatitis   | 10†          | 6           | *             |
| Human immunodeficiency virus (HIV) disease  | 10†          | *           | *             |
| Malaria   | 0            | 0           | 0             |
| Other and unspecified infectious and parasitic diseases   | 17           | 9           | 8             |
| Malignant neoplasms   | 329          | 172         | 157           |
| Malignant neoplasm of lip, oral cavity and pharynx  | 0†           | 0           | *             |
| Malignant neoplasm of esophagus   | 10†          | 6           | *             |
| Malignant neoplasm of stomach   | 21           | 15          | 6             |
| Malignant neoplasm of colon, rectum and anus  | 32           | 16          | 16            |
| Malignant neoplasm of liver and intrahepatic bile ducts   | 42           | 28          | 14            |
| Malignant neoplasm of pancreas  | 25           | 14          | 11            |
| Malignant neoplasm of larynx  | 0†           | *           | 0             |
| Malignant neoplasm of trachea, bronchus and lung  | 20           | 10          | 10            |
| Malignant melanoma of skin  | 0†           | *           | 0             |
| Malignant neoplasm of breast  | 24           | 0           | 24            |
| Malignant neoplasm of cervix uteri  | 0†           | 0           | *             |
| Malignant neoplasm of corpus uteri and uterus, part unspecified                                 | 13           | 0           | 13            |
| Malignant neoplasm of ovary   | 10           | 0           | 10            |
| Malignant neoplasm of prostate  | 15           | 15          | 0             |
| Malignant neoplasm of kidney and renal pelvis   | 17           | 8           | 9             |
| Malignant neoplasm of bladder   | 0†           | *           | 0             |

**5.4 (continued)**  
**DEATHS BY GENDER FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2019**

| <b>Cause of death</b><br>(Tenth Revision, International Statistical Classification of Diseases) | <b>TOTAL</b> | <b>MALE</b> | <b>FEMALE</b> |
|---|--------------|-------------|---------------|
| Malignant neoplasm of meninges, brain and other parts of central nervous system                 | 10†          | *           | *             |
| Malignant neoplasm of lymphoid, hematopoietic and related tissue                                | 33           | 19          | 14            |
| Hodgkin's disease   | 0            | 0           | 0             |
| Non-Hodgkin's lymphoma  | 20†          | 10          | *             |
| Leukemia  | 12           | 6           | 6             |
| Multiple myeloma and immunoproliferative neoplasms  | 10†          | *           | *             |
| Other and unspecified malignant neoplasms of lymphoid tissue                                    | 0            | 0           | 0             |
| All other and unspecified malignant neoplasm  | 54           | 32          | 22            |
| In situ neoplasms   | 10†          | *           | *             |
| Anemias   | 0†           | *           | 0             |
| Diabetes  | 223          | 119         | 104           |
| Nutritional deficiencies  | 13           | 7           | 6             |
| Malnutrition  | 12           | 6           | 6             |
| Other nutritional deficiencies  | 0†           | *           | 0             |
| Obesity   | 15           | 8           | 7             |
| Meningitis  | 0†           | *           | 0             |
| Parkinson's disease   | 23           | 13          | 10            |
| Alzheimer's disease   | 38           | 10          | 28            |
| Major cardiovascular diseases   | 440          | 234         | 206           |
| Diseases of heart   | 306          | 172         | 134           |
| Acute rheumatic fever and chronic rheumatic heart disease                                       | 0†           | 0           | *             |
| Hypertensive heart disease  | 28           | 18          | 10            |
| Hypertensive heart and renal disease  | 0†           | 0           | *             |
| Ischemic heart disease  | 173          | 103         | 70            |
| Acute myocardial infarction   | 45           | 29          | 16            |
| Other acute ischemic heart disease  | 0†           | *           | *             |
| Other forms of chronic ischemic heart disease   | 125          | 73          | 52            |
| Atherosclerotic cardiovascular disease  | 37           | 23          | 14            |
| All other forms of chronic ischemic heart disease   | 88           | 50          | 38            |
| Other heart diseases  | 103          | 51          | 52            |
| Acute and subacute endocarditis   | 0            | 0           | 0             |
| Diseases of pericardium and acute myocarditis   | 0            | 0           | 0             |
| Heart failure   | 26           | 10          | 16            |
| All other forms of heart disease  | 77           | 41          | 36            |
| Essential (primary) hypertension and hypertensive renal disease                                 | 47           | 26          | 21            |
| Cerebrovascular diseases  | 81           | 34          | 47            |

**5.4 (continued)**  
**DEATHS BY GENDER FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2019**

| <b>Cause of death</b><br>(Tenth Revision, International Statistical Classification of Diseases) | <b>TOTAL</b> | <b>MALE</b> | <b>FEMALE</b> |
|---|--------------|-------------|---------------|
| Atherosclerosis   | 0†           | 0           | *             |
| Other diseases of circulatory system  | 10†          | *           | *             |
| Aortic aneurysm and dissection  | 0†           | *           | 0             |
| Other disease of arteries, arterioles and capillaries   | 0†           | 0           | *             |
| Other disorders of circulatory system   | 10†          | *           | *             |
| Influenza and pneumonia   | 61           | 30          | 31            |
| Influenza   | 12           | 6           | 6             |
| Pneumonia   | 49           | 24          | 25            |
| Other acute lower respiratory infections  | 0†           | 0           | *             |
| Acute bronchiolitis   | 0†           | 0           | *             |
| Unspecified acute lower respiratory infection   | 0            | 0           | 0             |
| Chronic lower respiratory diseases  | 40           | 21          | 19            |
| Bronchitis, chronic and unspecified   | 0            | 0           | 0             |
| Emphysema   | 0†           | 0           | *             |
| Asthma  | 0†           | *           | *             |
| Other chronic lower respiratory diseases  | 35           | 19          | 16            |
| Pneumoconioses and chemical effects   | 0†           | *           | 0             |
| Pneumonitis due to solids and liquids   | 19           | 11          | 8             |
| Other disease of respiratory system   | 68           | 35          | 33            |
| Peptic ulcer  | 0†           | *           | *             |
| Diseases of appendix  | 0†           | *           | 0             |
| Hernia  | 0†           | *           | *             |
| Chronic liver disease and cirrhosis   | 222          | 123         | 99            |
| Alcoholic liver disease   | 155          | 86          | 69            |
| Other chronic liver disease and cirrhosis   | 67           | 37          | 30            |
| Cholelithiasis and other disorders of gallbladder   | 0†           | *           | *             |
| Nephritis, nephrotic syndrome and nephrosis   | 53           | 26          | 27            |
| Acute and rapidly progressive nephritic and nephrotic syndrome                                  | 0            | 0           | 0             |
| Chronic glomerulonephritis  | 0            | 0           | 0             |
| Renal failure   | 53           | 26          | 27            |
| Others disorders of kidney  | 0            | 0           | 0             |
| Infections of kidney  | 0†           | 0           | *             |
| Hyperplasia of prostate   | 0            | 0           | 0             |
| Inflammatory diseases of female pelvic organs   | 0            | 0           | 0             |
| Pregnancy, childbirth and the puerperium  | 7            | 0           | 7             |



**5.4 (continued)**  
**DEATHS BY GENDER FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2019**

| <b>Cause of death</b><br>(Tenth Revision, International Statistical Classification of Diseases) | <b>TOTAL</b> | <b>MALE</b> | <b>FEMALE</b> |
|---|--------------|-------------|---------------|
| Pregnancy with abortive outcome   | 0            | 0           | 0             |
| Other complications of pregnancy, childbirth and the puerperium                                 | 7            | 0           | 7             |
| Perinatal conditions  | 10†          | *           | 6             |
| Congenital anomalies, deformations and chromosomal abnormalities                                | 10†          | 7           | *             |
| Symptoms, signs, abnormal findings  | 82           | 51          | 31            |
| Total accidents   | 357          | 239         | 118           |
| Transport accidents   | 123          | 80          | 43            |
| Motor vehicle accidents   | 106          | 66          | 40            |
| Other land transport accidents  | 10†          | 8           | *             |
| Water, air, space   | 10†          | 6           | *             |
| Nontransport accidents  | 234          | 159         | 75            |
| Falls   | 36           | 18          | 18            |
| Accidental discharge of firearms  | 0†           | *           | 0             |
| Accidental drowning and submersion  | 10†          | 9           | *             |
| Accidental exposure to smoke, fire and flames   | 0†           | *           | *             |
| Accidental poisoning  | 133          | 91          | 42            |
| Excessive natural heat  | 10†          | *           | *             |
| Excessive natural cold  | 21           | 15          | 6             |
| Other and unspecified nontransport accidents  | 49           | 38          | 11            |
| Intentional self-harm (suicide)   | 84           | 65          | 19            |
| By discharge of firearms  | 10†          | 10          | *             |
| By other means  | 73           | 55          | 18            |
| Assault (homicide)  | 61           | 48          | 13            |
| By discharge of firearms  | 29           | 23          | 6             |
| By other means  | 32           | 25          | 7             |
| Legal intervention  | 0†           | *           | 0             |
| Events of undetermined intent   | 10†          | 10          | *             |
| Discharge of firearms   | 0            | 0           | 0             |
| Other and unspecified events of undetermined intent   | 10†          | 10          | *             |
| Operations of war   | 0            | 0           | 0             |
| Complications of medical and surgical care  | 10†          | *           | *             |
| Injury by firearms  | 44           | 37          | 7             |
| Drug-induced deaths   | 98           | 60          | 38            |
| Opioid-induced deaths   | 58           | 37          | 21            |
| Alcohol-induced deaths  | 269          | 178         | 91            |

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, 2019**

| <b>Cause of death</b><br>(Tenth Revision, International Statistical Classification of Diseases) | <b>TOTAL</b> | <b>&lt;1</b> | <b>1-4</b> | <b>5-14</b> | <b>15-24</b> | <b>25-34</b> | <b>35-44</b> | <b>45-54</b> | <b>55-64</b> | <b>65-74</b> | <b>75-84</b> | <b>85+</b> |
|---|--------------|--------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| <b>Total, all causes</b>  | 2,599        | 31           | 9          | 16          | 83           | 236          | 282          | 341          | 430          | 438          | 400          | 333        |
| Salmonella infections   | 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            | 0            | *            | *            | *            | *            | *          |
| Enterocolitis due to Clostridium difficile  | 10†          | 0            | 0          | 0           | 0            | 0            | 0            | *            | *            | *            | *            | *          |
| Tuberculosis  | 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          |
| 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  | 40†          | 0            | 0          | 0           | 0            | *            | 6            | 6            | 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            | 0          |
| Human immunodeficiency virus (HIV) disease  | 10†          | 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   | 330†         | 0            | *          | *           | *            | 6            | 20           | 34           | 78           | 93           | 59           | 33         |
| Malignant neoplasm of lip, oral cavity and pharynx  | 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            | *            | *            | *            | 9            | *            | *          |
| Malignant neoplasm of colon, rectum and anus  | 30†          | 0            | 0          | 0           | 0            | *            | *            | *            | 8            | 6            | *            | *          |
| Malignant neoplasm of liver and intrahepatic bile ducts   | 40†          | 0            | 0          | 0           | 0            | *            | 0            | *            | 12           | 13           | 9            | *          |
| Malignant neoplasm of pancreas  | 30†          | 0            | *          | 0           | 0            | 0            | *            | 6            | 6            | *            | *            | *          |
| Malignant neoplasm of larynx  | 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            | 6            | 7            | 0          |
| Malignant melanoma of skin  | 0†           | 0            | 0          | 0           | 0            | 0            | 0            | 0            | *            | 0            | 0            | 0          |
| Malignant neoplasm of breast  | 20†          | 0            | 0          | 0           | 0            | *            | *            | *            | 6            | *            | 6            | 0          |
| Malignant neoplasm of cervix uteri  | 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            | *            | *            | 6            | *            | 0          |
| Malignant neoplasm of ovary   | 10†          | 0            | 0          | 0           | 0            | 0            | *            | *            | *            | *            | *            | *          |
| Malignant neoplasm of prostate  | 20†          | 0            | 0          | 0           | 0            | 0            | 0            | 0            | *            | *            | *            | 6          |

**5.5 (continued)**  
**DEATHS BY AGE GROUP FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2019**

| <b>Cause of death</b><br>(Tenth Revision, International Statistical Classification of Diseases) | <b>TOTAL</b> | <b>&lt;1</b> | <b>1-4</b> | <b>5-14</b> | <b>15-24</b> | <b>25-34</b> | <b>35-44</b> | <b>45-54</b> | <b>55-64</b> | <b>65-74</b> | <b>75-84</b> | <b>85+</b> |
|---|--------------|--------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| Malignant neoplasm of kidney and renal pelvis   | 20†          | 0            | 0          | *           | 0            | 0            | *            | *            | *            | 6            | *            | *          |
| Malignant neoplasm of bladder   | 0†           | 0            | 0          | 0           | 0            | 0            | 0            | 0            | 0            | 0            | 0            | *          |
| Malignant neoplasm of meninges, brain and other parts of central nervous system                 | 10†          | 0            | 0          | 0           | 0            | *            | 0            | 0            | *            | *            | *            | 0          |
| Malignant neoplasm of lymphoid, hematopoietic and related tissue                                | 30†          | 0            | 0          | 0           | *            | 0            | *            | *            | 9            | 13           | *            | 0          |
| Hodgkin's disease   | 0            | 0            | 0          | 0           | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0          |
| Non-Hodgkin's lymphoma  | 20†          | 0            | 0          | 0           | 0            | 0            | *            | *            | *            | 6            | *            | 0          |
| Leukemia  | 10†          | 0            | 0          | 0           | *            | 0            | 0            | *            | *            | *            | *            | 0          |
| Multiple myeloma and immunoproliferative neoplasms  | 10†          | 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          |
| All other and unspecified malignant neoplasm  | 50†          | 0            | *          | *           | *            | *            | *            | *            | 12           | 18           | 6            | 6          |
| In situ neoplasms   | 10†          | 0            | 0          | 0           | 0            | 0            | 0            | 0            | *            | *            | 0            | *          |
| Anemias   | 0†           | 0            | 0          | 0           | 0            | 0            | 0            | 0            | 0            | *            | 0            | 0          |
| Diabetes  | 220†         | 0            | 0          | 0           | 0            | *            | 22           | 34           | 49           | 51           | 41           | 22         |
| Nutritional deficiencies  | 10†          | 0            | 0          | 0           | 0            | *            | 0            | *            | 0            | 0            | *            | 6          |
| Malnutrition  | 10†          | 0            | 0          | 0           | 0            | *            | 0            | *            | 0            | 0            | *            | 6          |
| Other nutritional deficiencies  | 0†           | 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          |
| Parkinson's disease   | 20†          | 0            | 0          | 0           | 0            | 0            | 0            | 0            | *            | *            | 8            | 10         |
| Alzheimer's disease   | 40†          | 0            | 0          | 0           | 0            | 0            | 0            | 0            | 0            | *            | 13           | 23         |
| Major cardiovascular diseases   | 440          | 0            | 0          | 0           | 0            | 12           | 27           | 41           | 68           | 98           | 99           | 95         |
| Diseases of heart   | 306          | 0            | 0          | 0           | 0            | 9            | 16           | 33           | 52           | 65           | 69           | 62         |
| 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            | 6          |
| Hypertensive heart and renal disease  | 0†           | 0            | 0          | 0           | 0            | 0            | 0            | 0            | 0            | 0            | *            | 0          |
| Ischemic heart disease  | 170†         | 0            | 0          | 0           | 0            | *            | 6            | 18           | 31           | 39           | 47           | 30         |
| Acute myocardial infarction   | 50†          | 0            | 0          | 0           | 0            | *            | 0            | 6            | 13           | 8            | 9            | 8          |
| Other acute ischemic heart disease  | 0†           | 0            | 0          | 0           | 0            | 0            | 0            | 0            | 0            | 0            | *            | *          |
| Other forms of chronic ischemic heart disease   | 130†         | 0            | 0          | 0           | 0            | *            | 6            | 12           | 18           | 31           | 36           | 21         |
| Atherosclerotic cardiovascular disease  | 40†          | 0            | 0          | 0           | 0            | *            | *            | 7            | 10           | 7            | 7            | *          |
| All other forms of chronic ischemic heart disease   | 90†          | 0            | 0          | 0           | 0            | 0            | *            | *            | 8            | 24           | 29           | 19         |
| Other heart diseases  | 103          | 0            | 0          | 0           | 0            | 6            | 8            | 12           | 15           | 22           | 14           | 26         |
| Acute and subacute endocarditis   | 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          |
| Heart failure   | 30†          | 0            | 0          | 0           | 0            | *            | 0            | *            | *            | *            | *            | 9          |
| All other forms of heart disease  | 80†          | 0            | 0          | 0           | 0            | *            | 8            | 11           | 10           | 18           | 9            | 17         |

**5.5 (continued)**  
**DEATHS BY AGE GROUP FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2019**

| <b>Cause of death</b><br>(Tenth Revision, International Statistical Classification of Diseases) | <b>TOTAL</b> | <b>&lt;1</b> | <b>1-4</b> | <b>5-14</b> | <b>15-24</b> | <b>25-34</b> | <b>35-44</b> | <b>45-54</b> | <b>55-64</b> | <b>65-74</b> | <b>75-84</b> | <b>85+</b> |
|---|--------------|--------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| Essential (primary) hypertension and hypertensive renal disease                                 | 50†          | 0            | 0          | 0           | 0            | *            | 7            | *            | *            | 10           | 8            | 14         |
| Cerebrovascular diseases  | 80†          | 0            | 0          | 0           | 0            | *            | *            | *            | 11           | 23           | 22           | 16         |
| Atherosclerosis   | 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            | *          |
| Aortic aneurysm and dissection  | 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            | *          |
| Other disorders of circulatory system   | 10†          | 0            | 0          | 0           | *            | *            | 0            | *            | 0            | 0            | *            | 0          |
| Influenza and pneumonia   | 60†          | 0            | 0          | 0           | 0            | *            | *            | 9            | *            | 11           | 16           | 13         |
| Influenza   | 10†          | 0            | 0          | 0           | 0            | *            | *            | *            | *            | *            | *            | 0          |
| Pneumonia   | 50†          | 0            | 0          | 0           | 0            | *            | *            | 6            | *            | 8            | 13           | 13         |
| Other acute lower respiratory infections  | 0†           | *            | 0          | 0           | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0          |
| Acute bronchiolitis   | 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            | *            | *            | *            | 9            | 15           | 6          |
| Bronchitis, chronic and unspecified   | 0            | 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            | *          |
| Other chronic lower respiratory diseases  | 40†          | 0            | 0          | *           | 0            | 0            | 0            | *            | *            | 8            | 15           | *          |
| Pneumoconioses and chemical effects   | 0†           | 0            | 0          | 0           | 0            | 0            | 0            | 0            | 0            | 0            | *            | *          |
| Pneumonitis due to solids and liquids   | 20†          | 0            | 0          | 0           | 0            | 0            | 0            | *            | *            | 6            | *            | *          |
| Other disease of respiratory system   | 70†          | 0            | *          | 0           | *            | 0            | 0            | 7            | 9            | 18           | 18           | 13         |
| 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          |
| Hernia  | 0†           | 0            | 0          | 0           | 0            | 0            | 0            | 0            | 0            | *            | 0            | *          |
| Chronic liver disease and cirrhosis   | 220†         | 0            | 0          | 0           | *            | 28           | 49           | 59           | 50           | 23           | 11           | *          |
| Alcoholic liver disease   | 160†         | 0            | 0          | 0           | *            | 23           | 37           | 48           | 35           | 9            | *            | 0          |
| Other chronic liver disease and cirrhosis   | 70†          | 0            | 0          | 0           | 0            | *            | 12           | 11           | 15           | 14           | 9            | *          |
| Cholelithiasis and other disorders of gallbladder   | 0†           | 0            | 0          | 0           | 0            | *            | 0            | 0            | *            | 0            | *            | 0          |
| Nephritis, nephrotic syndrome and nephrosis   | 50†          | 0            | 0          | 0           | 0            | *            | *            | *            | 7            | 14           | 12           | 11         |
| 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           | 0            | *            | *            | *            | 7            | 14           | 12           | 11         |
| 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            | *            | *          |
| 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, 2019**

| <b>Cause of death</b><br>(Tenth Revision, International Statistical Classification of Diseases) | <b>TOTAL</b> | <b>&lt;1</b> | <b>1-4</b> | <b>5-14</b> | <b>15-24</b> | <b>25-34</b> | <b>35-44</b> | <b>45-54</b> | <b>55-64</b> | <b>65-74</b> | <b>75-84</b> | <b>85+</b> |
|---|--------------|--------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| Inflammatory diseases of female pelvic organs   | 0            | 0            | 0          | 0           | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0          |
| Pregnancy, childbirth and the puerperium  | 10†          | 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                                 | 10†          | 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                                | 10†          | *            | 0          | *           | *            | 0            | *            | 0            | *            | 0            | *            | 0          |
| Symptoms, signs, abnormal findings  | 80†          | 8            | 0          | 0           | *            | 6            | 7            | 9            | 14           | 13           | 10           | 12         |
| Total accidents   | 360†         | *            | *          | *           | 38           | 78           | 73           | 62           | 47           | 22           | 19           | 10         |
| Transport accidents   | 120†         | 0            | *          | *           | 19           | 36           | 28           | 13           | 11           | 6            | *            | *          |
| Motor vehicle accidents   | 110†         | 0            | *          | *           | 19           | 32           | 24           | 9            | 9            | *            | *            | *          |
| Other land transport accidents  | 10†          | 0            | 0          | *           | 0            | *            | *            | *            | *            | *            | 0            | 0          |
| Water, air, space   | 10†          | 0            | 0          | 0           | 0            | *            | *            | *            | *            | *            | 0            | 0          |
| Nontransport accidents  | 230†         | *            | 0          | *           | 19           | 42           | 45           | 49           | 36           | 16           | 16           | 7          |
| Falls   | 40†          | 0            | 0          | *           | *            | *            | *            | 7            | *            | 7            | 10           | *          |
| Accidental discharge of firearms  | 0†           | 0            | 0          | 0           | 0            | 0            | *            | *            | 0            | 0            | 0            | 0          |
| Accidental drowning and submersion  | 10†          | 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           | 15           | 32           | 27           | 27           | 25           | *            | *            | 0          |
| Excessive natural heat  | 10†          | 0            | 0          | *           | *            | 0            | *            | *            | 0            | *            | 0            | 0          |
| Excessive natural cold  | 20†          | 0            | 0          | 0           | 0            | *            | 7            | *            | 6            | *            | 0            | *          |
| Other and unspecified nontransport accidents  | 50†          | *            | 0          | *           | *            | *            | 13           | 10           | 7            | *            | *            | *          |
| Intentional self-harm (suicide)   | 80†          | 0            | 0          | *           | 18           | 36           | 11           | 8            | *            | *            | 0            | *          |
| By discharge of firearms  | 10†          | 0            | 0          | 0           | *            | *            | *            | *            | *            | 0            | 0            | 0          |
| By other means  | 70†          | 0            | 0          | *           | 15           | 33           | 9            | 6            | *            | *            | 0            | *          |
| Assault (homicide)  | 60†          | *            | *          | *           | 13           | 18           | 12           | 6            | *            | 0            | *            | 0          |
| By discharge of firearms  | 30†          | 0            | 0          | 0           | 8            | 11           | 7            | *            | 0            | 0            | *            | 0          |
| By other means  | 30†          | *            | *          | *           | *            | 7            | *            | *            | *            | 0            | 0            | 0          |
| Legal intervention  | 0†           | 0            | 0          | 0           | *            | *            | *            | 0            | 0            | 0            | 0            | 0          |
| Events of undetermined intent   | 10†          | *            | 0          | 0           | *            | *            | 0            | *            | *            | *            | 0            | 0          |
| Discharge of firearms   | 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          |
| 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            | 0            | *            | *            | *            | 0          |
| Injury by firearms  | 40†          | 0            | 0          | 0           | 12           | 15           | 10           | *            | *            | 0            | *            | 0          |
| Drug-induced deaths   | 100†         | 0            | 0          | 0           | 13           | 24           | 22           | 21           | 13           | *            | *            | 0          |
| Opioid-induced deaths   | 60†          | 0            | 0          | 0           | 9            | 17           | 14           | 10           | 6            | *            | 0            | 0          |
| Alcohol-induced deaths  | 270†         | 0            | 0          | 0           | *            | 48           | 58           | 71           | 67           | 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.

## 5.6

## DEATHS BY RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2019

| Cause of death<br>(Tenth Revision, International Statistical Classification of Diseases) | ALL AMERICAN INDIAN<br>RESIDENTS OF ARIZONA | Resided on reservation      |               |                                |   |                         |                                |                 |            |                |                              |               |                    |  |                         |                       |                                |                       |                                  |        | Resided off reservation |                |                    |                      |       |
|--|---|-----------------------------|---------------|--------------------------------|---|-------------------------|--------------------------------|-----------------|------------|----------------|------------------------------|---------------|--------------------|--|-------------------------|-----------------------|--------------------------------|-----------------------|----------------------------------|--------|-------------------------|----------------|--------------------|----------------------|-------|
|  |   | Ak-Chin Indian<br>Community | Cocopah Tribe | Colorado River Indian<br>Tribe | Fort McDowell Yavapai<br>Nation Reservation | Fort Mohave Reservation | Gila River Indian<br>Community | Havasupai Tribe | Hopi Tribe | Hualapai Tribe | Kaibab Indian<br>Reservation | Navajo Nation | Pascua Yaqui Tribe | Salt River Pima-Maricopa<br>Indian Community | San Carlos Apache Tribe | Tohono O'Odham Nation | White Mountain Apache<br>Tribe | Yavapai-Apache Nation | Yavapai-Prescott Indian<br>Tribe | Total  | in Maricopa County      | in Pima County | in Coconino County | elsewhere in Arizona | Total |
| Total, all causes  | 2,599                                       | 4                           | 10            | 20                             | 16  | 3                       | 150                            | 2               | 86         | 21             | 4                            | 825           | 6                  | 57   | 117                     | 79                    | 133                            | 5                     | 1                                | 1,540+ | 441                     | 181            | 83                 | 355                  | 1,060 |
| Salmonella infections  | 0+  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 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                              | 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                     | 0                                | 10+    | *                       | 0              | *                  | *                    | 10+   |
| Enterocolitis due to Clostridium difficile   | 10+   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | *          | 0              | 0                            | *             | 0                  | 0  | *                       | 0                     | 0                              | 0                     | 0                                | 0+     | *                       | 0              | *                  | *                    | 10+   |
| Tuberculosis   | 0   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 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                     | 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                              | 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                              | 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                              | 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                              | 0                     | 0                                | 0      | 0                       | 0              | 0                  | 0                    | 0     |
| Septicemia   | 36  | 0                           | *             | 0                              | *   | 0                       | *                              | *               | *          | 0              | 0                            | 14            | *                  | 0  | *                       | *                     | *                              | 0                     | 0                                | 30+    | *                       | *              | *                  | *                    | 10+   |
| Syphilis   | 0   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 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                              | 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                              | 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                              | 0                     | 0                                | 0      | 0                       | 0              | 0                  | 0                    | 0     |
| Viral hepatitis  | 10+   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | *          | 0              | 0                            | *             | 0                  | *  | 0                       | 0                     | 0                              | 0                     | 0                                | 0+     | *                       | *              | 0                  | *                    | 10+   |
| Human immunodeficiency virus (HIV) disease   | 10+   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | *          | 0              | 0                            | 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                              | 0                     | 0                                | 0      | 0                       | 0              | 0                  | 0                    | 0     |
| Other and unspecified infectious and parasitic diseases                                  | 20+   | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | 7             | 0                  | *  | *                       | 0                     | *                              | 0                     | 0                                | 10+    | *                       | *              | 0                  | 0                    | 10+   |
| Malignant neoplasms  | 329   | 0                           | *             | *                              | *   | *                       | 14                             | 0               | 8          | 0              | *                            | 101           | *                  | 7  | 16                      | 8                     | 8                              | 0                     | 0                                | 170+   | 66                      | 24             | 15                 | 52                   | 157   |
| Malignant neoplasm of lip, oral cavity and pharynx                                       | 0+  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 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                     | 0                                | 10+    | *                       | 0              | 0                  | *                    | 0+    |
| Malignant neoplasm of stomach  | 21  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 13            | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 13     | *                       | 0              | *                  | *                    | 10+   |
| Malignant neoplasm of colon, rectum and anus   | 32  | 0                           | 0             | 0                              | *   | 0                       | *                              | 0               | 0          | 0              | 0                            | 9             | 0                  | 0  | *                       | 0                     | *                              | 0                     | 0                                | 20+    | 6                       | *              | *                  | *                    | 20+   |
| Malignant neoplasm of liver and intrahepatic bile ducts                                  | 42  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | *          | 0              | 0                            | 13            | 0                  | 0  | *                       | *                     | *                              | 0                     | 0                                | 20+    | 9                       | *              | *                  | 6                    | 20+   |
| Malignant neoplasm of pancreas   | 25  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | *             | 0                  | *  | *                       | *                     | 0                              | 0                     | 0                                | 10+    | 6                       | *              | *                  | *                    | 10+   |
| Malignant neoplasm of larynx   | 0+  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 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                              | *   | 0                       | *                              | 0               | *          | 0              | 0                            | *             | *                  | *  | 0                       | 0                     | 0                              | 0                     | 0                                | 10+    | *                       | *              | *                  | *                    | 10+   |
| Malignant melanoma of skin   | 0+  | 0                           | 0             | 0                              | 0   | *                       | 0                              | 0               | 0          | 0              | 0                            | 0             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0+     | *                       | 0              | 0                  | 0                    | 0+    |
| Malignant neoplasm of breast   | 24  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | *          | 0              | 0                            | 7             | 0                  | 0  | *                       | 0                     | 0                              | 0                     | 0                                | 10+    | 11                      | 0              | 0                  | *                    | 10+   |
| Malignant neoplasm of cervix uteri   | 0+  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 0             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0      | *                       | 0              | 0                  | *                    | 0+    |
| Malignant neoplasm of corpus uteri and uterus, part unspecified                          | 13  | 0                           | *             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                     | *                              | 0                     | 0                                | 10+    | *                       | *              | 0                  | *                    | 10+   |
| Malignant neoplasm of ovary  | 10+   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 6             | 0                  | 0  | 0                       | 0                     | *                              | 0                     | 0                                | 10+    | *                       | 0              | 0                  | *                    | 0+    |
| Malignant neoplasm of prostate   | 20+   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 8             | 0                  | 0  | *                       | 0                     | *                              | 0                     | 0                                | 10+    | *                       | *              | *                  | *                    | 10+   |
| Malignant neoplasm of kidney and renal pelvis  | 17  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | *                            | *             | 0                  | *  | 0                       | *                     | 0                              | 0                     | 0                                | 10+    | *                       | *              | *                  | *                    | 10    |

**5.6 (continued)**  
**DEATHS BY RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2019**

| Cause of death<br>(Tenth Revision, International Statistical Classification of Diseases) | ALL AMERICAN INDIAN<br>RESIDENTS OF ARIZONA | Resided on reservation      |               |                                |   |                         |                                |                 |            |                |                              |               |                    |  |                         |                       |                                |                       |                                  | Resided off reservation |                    |                |                    |                      |       |
|--|---|-----------------------------|---------------|--------------------------------|---|-------------------------|--------------------------------|-----------------|------------|----------------|------------------------------|---------------|--------------------|--|-------------------------|-----------------------|--------------------------------|-----------------------|----------------------------------|-------------------------|--------------------|----------------|--------------------|----------------------|-------|
|  |   | Ak-Chin Indian<br>Community | Cocopah Tribe | Colorado River Indian<br>Tribe | Fort McDowell Yavapai<br>Nation Reservation | Fort Mohave Reservation | Gila River Indian<br>Community | Havasupai Tribe | Hopi Tribe | Hualapai Tribe | Kaibab Indian<br>Reservation | Navajo Nation | Pascua Yaqui Tribe | Salt River Pima-Maricopa<br>Indian Community | San Carlos Apache Tribe | Tohono O'Odham Nation | White Mountain Apache<br>Tribe | Yavapai-Apache Nation | Yavapai-Prescott Indian<br>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  | 0                       | 0                     | 0                              | 0                     | 0                                | 0                       | *                  | 0              | 0                  | 0                    | 0†    |
| Malignant neoplasm of meninges, brain and other parts of CNS                             | 10†   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0†                      | *                  | *              | 0                  | *                    | 0†    |
| Malignant neoplasm of lymphoid, hematopoietic and related tissue                         | 33  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | *          | 0              | 0                            | 10            | *                  | *  | *                       | 0                     | *                              | 0                     | 0                                | 20†                     | 7                  | *              | 0                  | *                    | 10†   |
| Hodgkin's disease  | 0   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 0             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0                       | 0                  | 0              | 0                  | 0                    | 0     |
| Non-Hodgkin's lymphoma   | 15  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | *          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 10†                     | *                  | *              | 0                  | *                    | 10†   |
| Leukemia   | 10†   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | *                  | 0  | 0                       | 0                     | *                              | 0                     | 0                                | 10†                     | *                  | 0              | 0                  | *                    | 10†   |
| Multiple myeloma and immunoproliferative neoplasms                                       | 6   | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | *             | 0                  | *  | *                       | 0                     | *                              | 0                     | 0                                | 10†                     | 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                              | 0                     | 0                                | 0                       | 0                  | 0              | 0                  | 0                    | 0     |
| All other and unspecified malignant neoplasm   | 54  | 0                           | 0             | *                              | *   | 0                       | *                              | 0               | *          | 0              | 0                            | 16            | 0                  | *  | *                       | *                     | 0                              | 0                     | 0                                | 30†                     | 6                  | *              | 0                  | 14                   | 20†   |
| In situ neoplasms  | 10†   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0†                      | *                  | *              | 0                  | *                    | 10†   |
| Anemias  | 0†  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 0             | 0                  | 0  | *                       | 0                     | 0                              | 0                     | 0                                | 0†                      | 0                  | 0              | 0                  | 0                    | 0     |
| Diabetes   | 223   | *                           | *             | *                              | 0   | 0                       | 29                             | 0               | 9          | *              | 0                            | 65            | 0                  | 11   | 10                      | 12                    | 10                             | 0                     | 0                                | 150†                    | 31                 | 12             | *                  | 26                   | 70†   |
| Nutritional deficiencies   | 10†   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | *          | 0              | 0                            | *             | 0                  | *  | *                       | *                     | 0                              | 0                     | 0                                | 10†                     | 0                  | 0              | 0                  | *                    | 0†    |
| Malnutrition   | 10†   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | *          | 0              | 0                            | *             | 0                  | *  | *                       | *                     | 0                              | 0                     | 0                                | 10†                     | 0                  | 0              | 0                  | *                    | 0†    |
| Other nutritional deficiencies   | 0†  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 0             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0                       | 0                  | 0              | 0                  | *                    | 0†    |
| Obesity  | 15  | 0                           | 0             | *                              | 0   | 0                       | *                              | 0               | *          | 0              | 0                            | *             | 0                  | *  | 0                       | 0                     | 0                              | 0                     | 0                                | 10†                     | *                  | *              | *                  | *                    | 10†   |
| Meningitis   | 0†  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 0             | 0                  | 0  | 0                       | 0                     | *                              | 0                     | 0                                | 0†                      | 0                  | 0              | 0                  | 0                    | 0     |
| Parkinson's disease  | 23  | 0                           | 0             | 0                              | *   | 0                       | 0                              | 0               | *          | 0              | 0                            | 10            | 0                  | 0  | 0                       | 0                     | *                              | 0                     | 0                                | 10†                     | *                  | *              | *                  | *                    | 10†   |
| Alzheimer's disease  | 38  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | *          | 0              | 0                            | 9             | 0                  | 0  | 0                       | 0                     | *                              | 0                     | 0                                | 10†                     | 12                 | *              | *                  | 8                    | 20†   |
| Major cardiovascular diseases  | 440   | *                           | *             | *                              | *   | 0                       | 22                             | 0               | 16         | *              | *                            | 125           | *                  | *  | 20                      | 11                    | 31                             | *                     | *                                | 250†                    | 82                 | 34             | 10                 | 64                   | 190   |
| Diseases of heart  | 306   | *                           | *             | *                              | *   | 0                       | 19                             | 0               | 11         | *              | *                            | 81            | *                  | *  | 14                      | 6                     | 18                             | *                     | *                                | 170†                    | 53                 | 24             | 9                  | 51                   | 137   |
| Acute rheumatic fever and chronic rheumatic heart disease                                | 0†  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 0             | 0                  | 0  | 0                       | 0                     | *                              | 0                     | 0                                | 0†                      | 0                  | 0              | 0                  | 0                    | 0     |
| Hypertensive heart disease   | 28  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | *             | 0                  | *  | *                       | 0                     | *                              | 0                     | 0                                | 10†                     | 7                  | *              | *                  | *                    | 10†   |
| Hypertensive heart and renal disease   | 0†  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 0             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0                       | 0                  | 0              | 0                  | *                    | 0†    |
| Ischemic heart disease   | 173   | 0                           | *             | *                              | *   | 0                       | 7                              | 0               | *          | *              | *                            | 49            | *                  | *  | 6                       | *                     | 9                              | *                     | 0                                | 90†                     | 30                 | 14             | 6                  | 31                   | 81    |
| Acute myocardial infarction  | 45  | 0                           | *             | 0                              | 0   | 0                       | *                              | 0               | *          | 0              | 0                            | 19            | *                  | 0  | *                       | 0                     | *                              | 0                     | 0                                | 30†                     | *                  | *              | 0                  | 12                   | 20†   |
| Other acute ischemic heart disease   | 0†  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0†                      | 0                  | *              | 0                  | 0                    | 0†    |
| Other forms of chronic ischemic heart disease  | 125   | 0                           | 0             | *                              | *   | 0                       | 6                              | 0               | *          | *              | *                            | 28            | 0                  | *  | *                       | *                     | 7                              | *                     | 0                                | 60†                     | 27                 | 10             | 6                  | 19                   | 62    |
| Atherosclerotic cardiovascular disease   | 37  | 0                           | 0             | 0                              | *   | 0                       | *                              | 0               | 0          | *              | *                            | 6             | 0                  | *  | *                       | 0                     | *                              | *                     | 0                                | 20†                     | 8                  | *              | 0                  | 6                    | 20†   |
| All other forms of chronic ischemic heart disease  | 88  | 0                           | 0             | *                              | 0   | 0                       | *                              | 0               | *          | *              | 0                            | 22            | 0                  | *  | *                       | *                     | *                              | 0                     | 0                                | 40†                     | 19                 | 8              | 6                  | 13                   | 46    |
| Other heart diseases   | 103   | *                           | 0             | *                              | 0   | 0                       | 11                             | 0               | 7          | 0              | 0                            | 28            | 0                  | *  | *                       | *                     | *                              | 0                     | *                                | 60†                     | 16                 | 9              | *                  | 14                   | 40†   |
| Acute and subacute endocarditis  | 0   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 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                              | 0                     | 0                                | 0                       | 0                  | 0              | 0                  | 0                    | 0     |
| Heart failure  | 30†   | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | *          | 0              | 0                            | 10            | 0                  | 0  | *                       | *                     | *                              | 0                     | 0                                | 20†                     | *                  | *              | 0                  | *                    | 10†   |
| All other forms of heart disease   | 77  | *                           | 0             | *                              | 0   | 0                       | 8                              | 0               | *          | 0              | 0                            | 18            | 0                  | *  | *                       | *                     | *                              | 0                     | *                                | 40†                     | 14                 | 7              | *                  | 13                   | 40†   |

**5.6 (continued)**  
**DEATHS BY RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2019**

| Cause of death<br>(Tenth Revision, International Statistical Classification of Diseases) | ALL AMERICAN INDIAN<br>RESIDENTS OF ARIZONA | Resided on reservation      |               |                                |   |                         |                                |                 |            |                |                              |               |                    |  |                         |                        |                                |                       | Resided off reservation          |       |                    |                |                    |                      |       |
|--|---|-----------------------------|---------------|--------------------------------|---|-------------------------|--------------------------------|-----------------|------------|----------------|------------------------------|---------------|--------------------|--|-------------------------|------------------------|--------------------------------|-----------------------|----------------------------------|-------|--------------------|----------------|--------------------|----------------------|-------|
|  |   | Ak-Chin Indian<br>Community | Cocopah Tribe | Colorado River Indian<br>Tribe | Fort McDowell Yavapai<br>Nation Reservation | Fort Mohave Reservation | Gila River Indian<br>Community | Havasupai Tribe | Hopi Tribe | Hualapai Tribe | Kaibab Indian<br>Reservation | Navajo Nation | Pascua Yaqui Tribe | Salt River Pima-Maricopa<br>Indian Community | San Carlos Apache Tribe | Tohono O' Odham Nation | White Mountain Apache<br>Tribe | Yavapai-Apache Nation | Yavapai-Prescott Indian<br>Tribe | Total | in Maricopa County | in Pima County | in Coconino County | elsewhere in Arizona | Total |
| Essential (primary) hypertension and hypertensive renal disease                          | 47  | 0                           | 0             | 0                              | *   | 0                       | *                              | 0               | 0          | 0              | 0                            | 14            | 0                  | *  | *                       | *                      | 6                              | *                     | 0                                | 30+   | 12                 | *              | 0                  | *                    | 20+   |
| Cerebrovascular diseases   | 81  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | *          | *              | 0                            | 29            | 0                  | 0  | *                       | *                      | 7                              | 0                     | 0                                | 50+   | 15                 | 7              | *                  | 11                   | 30+   |
| Atherosclerosis  | 0+  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 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                      | 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                      | 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                      | 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                     | 0                                | 10+   | *                  | 0              | 0                  | 0                    | 0+    |
| Influenza and pneumonia  | 61  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | *          | 0              | 0                            | 26            | 0                  | *  | *                       | *                      | *                              | 0                     | 0                                | 40+   | 6                  | *              | *                  | *                    | 20+   |
| Influenza  | 10+   | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | 6             | 0                  | 0  | *                       | *                      | 0                              | 0                     | 0                                | 10+   | *                  | *              | 0                  | 0                    | 0+    |
| Pneumonia  | 49  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | *          | 0              | 0                            | 20            | 0                  | *  | *                       | *                      | *                              | 0                     | 0                                | 30+   | *                  | *              | *                  | *                    | 20+   |
| Other acute lower respiratory infections   | 0+  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 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                              | 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                              | 0                     | 0                                | 0     | 0                  | 0              | 0                  | 0                    | 0     |
| Chronic lower respiratory diseases   | 40  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | 8             | 0                  | *  | *                       | *                      | *                              | 0                     | 0                                | 20+   | 9                  | *              | 0                  | 8                    | 20+   |
| Bronchitis, chronic and unspecified  | 0   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 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                              | 0                     | 0                                | 0+    | 0                  | 0              | 0                  | 0                    | 0     |
| Asthma   | 0+  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | *                       | *                      | 0                              | 0                     | 0                                | 0+    | 0                  | 0              | 0                  | 0                    | 0     |
| Other chronic lower respiratory diseases   | 35  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | 6             | 0                  | *  | *                       | *                      | *                              | 0                     | 0                                | 20+   | 9                  | *              | 0                  | 8                    | 20+   |
| Pneumoconioses and chemical effects  | 0+  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                      | 0                              | 0                     | 0                                | 0+    | *                  | 0              | 0                  | 0                    | 0+    |
| Pneumonitis due to solids and liquids  | 19  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | *                       | 0                      | *                              | 0                     | 0                                | 10+   | *                  | *              | 0                  | *                    | 10+   |
| Other disease of respiratory system  | 68  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | *          | *              | 0                            | 31            | 0                  | 0  | *                       | *                      | 0                              | 0                     | 0                                | 50+   | 11                 | *              | *                  | *                    | 20+   |
| Peptic ulcer   | 0+  | 0                           | 0             | 0                              | 0   | 0                       | 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                     | 0                                | 0+    | 0                  | 0              | 0                  | 0                    | 0     |
| Hernia   | 0+  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 0             | 0                  | 0  | 0                       | 0                      | 0                              | 0                     | 0                                | 0     | *                  | 0              | 0                  | *                    | 0+    |
| Chronic liver disease and cirrhosis  | 222   | *                           | *             | *                              | *   | 0                       | 14                             | *               | 9          | *              | *                            | 39            | 0                  | 10   | 14                      | 10                     | 15                             | 0                     | 0                                | 120+  | 34                 | 13             | 8                  | 43                   | 98    |
| Alcoholic liver disease  | 155   | 0                           | *             | *                              | *   | 0                       | 9                              | 0               | 7          | *              | *                            | 26            | 0                  | 8  | 9                       | *                      | 12                             | 0                     | 0                                | 90+   | 30                 | *              | 8                  | 27                   | 70+   |
| Other chronic liver disease and cirrhosis  | 67  | *                           | 0             | 0                              | *   | 0                       | *                              | *               | *          | 0              | 0                            | 13            | 0                  | *  | *                       | *                      | *                              | 0                     | 0                                | 40+   | *                  | 9              | 0                  | 16                   | 30+   |
| Cholelithiasis and other disorders of gallbladder  | 0+  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                      | 0                              | 0                     | 0                                | 0+    | *                  | 0              | *                  | 0                    | 0+    |
| Nephritis, nephrotic syndrome and nephrosis  | 53  | 0                           | *             | *                              | 0   | 0                       | *                              | 0               | 0          | *              | 0                            | 14            | 0                  | *  | *                       | *                      | *                              | *                     | 0                                | 30+   | *                  | *              | *                  | 9                    | 20+   |
| 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                              | 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                              | 0                     | 0                                | 0     | 0                  | 0              | 0                  | 0                    | 0     |
| Renal failure  | 53  | 0                           | *             | *                              | 0   | 0                       | *                              | 0               | 0          | *              | 0                            | 14            | 0                  | *  | *                       | *                      | *                              | *                     | 0                                | 30+   | *                  | *              | *                  | 9                    | 20+   |
| Others disorders of kidney   | 0   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 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                      | 0                              | 0                     | 0                                | 0     | *                  | 0              | *                  | 0                    | 0+    |



**5.6 (continued)**  
**DEATHS BY RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2019**

| Cause of death<br>(Tenth Revision, International Statistical Classification of Diseases) | ALL AMERICAN INDIAN<br>RESIDENTS OF ARIZONA | Resided on reservation      |               |                                |   |                         |                                |                 |            |                |                              |               |                    |  |                         |                       |                                |                       |                                  | Resided off reservation |                    |                |                    |                      |       |
|--|---|-----------------------------|---------------|--------------------------------|---|-------------------------|--------------------------------|-----------------|------------|----------------|------------------------------|---------------|--------------------|--|-------------------------|-----------------------|--------------------------------|-----------------------|----------------------------------|-------------------------|--------------------|----------------|--------------------|----------------------|-------|
|  |   | Ak-Chin Indian<br>Community | Cocopah Tribe | Colorado River Indian<br>Tribe | Fort McDowell Yavapai<br>Nation Reservation | Fort Mohave Reservation | Gila River Indian<br>Community | Havasupai Tribe | Hopi Tribe | Hualapai Tribe | Kaibab Indian<br>Reservation | Navajo Nation | Pascua Yaqui Tribe | Salt River Pima-Maricopa<br>Indian Community | San Carlos Apache Tribe | Tohono O'Odham Nation | White Mountain Apache<br>Tribe | Yavapai-Apache Nation | Yavapai-Prescott Indian<br>Tribe | Total                   | in Maricopa County | in Pima County | in Coconino County | elsewhere in Arizona | Total |
| Hyperplasia of prostate  | 0   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 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                              | 0                     | 0                                | 0                       | 0                  | 0              | 0                  | 0                    | 0     |
| Pregnancy, childbirth and the puerperium   | 10†   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0†                      | *                  | 0              | *                  | *                    | 10†   |
| Pregnancy with abortive outcome  | 0   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 0             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0                       | 0                  | 0              | 0                  | 0                    | 0     |
| Other complications of pregnancy, childbirth and the puerperium                          | 10†   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0†                      | *                  | 0              | *                  | *                    | 10†   |
| Perinatal conditions   | 10†   | 0                           | 0             | *                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                     | *                              | 0                     | 0                                | 10†                     | *                  | 0              | *                  | *                    | 0†    |
| Congenital anomalies, deformations and chromosomal abnormalities                         | 12  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | *  | *                       | 0                     | *                              | 0                     | 0                                | 10†                     | *                  | *              | 0                  | *                    | 10†   |
| Symptoms, signs, abnormal findings   | 82  | 0                           | 0             | *                              | 0   | 0                       | *                              | 0               | *          | *              | 0                            | 41            | 0                  | 0  | *                       | *                     | *                              | 0                     | 0                                | 50†                     | 11                 | *              | *                  | 17                   | 30†   |
| Total accidents  | 357   | 0                           | *             | *                              | *   | *                       | 14                             | 0               | 6          | *              | 0                            | 131           | 0                  | *  | 13                      | 7                     | 13                             | *                     | 0                                | 200†                    | 71                 | 25             | 16                 | 43                   | 155   |
| Transport accidents  | 123   | 0                           | *             | *                              | *   | *                       | 6                              | 0               | *          | *              | 0                            | 51            | 0                  | *  | 7                       | *                     | *                              | 0                     | 0                                | 80†                     | 20                 | *              | *                  | 18                   | 50†   |
| Motor vehicle accidents  | 106   | 0                           | *             | *                              | *   | *                       | 6                              | 0               | *          | *              | 0                            | 46            | 0                  | 0  | *                       | *                     | *                              | 0                     | 0                                | 70†                     | 14                 | *              | *                  | 16                   | 40†   |
| Other land transport accidents   | 10†   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | *  | *                       | 0                     | 0                              | 0                     | 0                                | 10†                     | *                  | 0              | 0                  | 0                    | 0†    |
| Water, air, space  | 10†   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0†                      | *                  | 0              | *                  | *                    | 10†   |
| Nontransport accidents   | 234   | 0                           | *             | *                              | *   | 0                       | 8                              | 0               | *          | *              | 0                            | 80            | 0                  | *  | 6                       | 6                     | 10                             | *                     | 0                                | 130†                    | 51                 | 20             | 12                 | 25                   | 108   |
| Falls  | 36  | 0                           | *             | 0                              | 0   | 0                       | *                              | 0               | *          | 0              | 0                            | 16            | 0                  | 0  | *                       | *                     | 0                              | 0                     | 0                                | 20†                     | *                  | *              | *                  | *                    | 10†   |
| Accidental discharge of firearms   | 0†  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 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                            | 6             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 10†                     | *                  | *              | 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                     | 0                                | 0†                      | 0                  | 0              | 0                  | 0                    | 0     |
| Accidental poisoning   | 133   | 0                           | 0             | *                              | *   | 0                       | 6                              | 0               | *          | *              | 0                            | 35            | 0                  | *  | *                       | *                     | 6                              | *                     | 0                                | 60†                     | 39                 | 12             | *                  | 15                   | 70†   |
| Excessive natural heat   | 10†   | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0†                      | *                  | 0              | 0                  | *                    | 0†    |
| Excessive natural cold   | 21  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 12            | 0                  | 0  | 0                       | 0                     | *                              | 0                     | 0                                | 20†                     | *                  | *              | *                  | *                    | 10†   |
| Other and unspecified nontransport accidents   | 49  | 0                           | 0             | *                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | 22            | 0                  | 0  | 0                       | *                     | *                              | 0                     | 0                                | 30†                     | *                  | *              | 6                  | 7                    | 20†   |
| Intentional self-harm (suicide)  | 84  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | *          | *              | 0                            | 30            | 0                  | *  | *                       | 6                     | 7                              | 0                     | 0                                | 50†                     | 14                 | 6              | 6                  | 6                    | 32    |
| By discharge of firearms   | 10†   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | *                       | 0                     | 0                              | 0                     | 0                                | 0†                      | *                  | *              | *                  | *                    | 10†   |
| By other means   | 73  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | *          | *              | 0                            | 27            | 0                  | *  | *                       | 6                     | 7                              | 0                     | 0                                | 50†                     | 12                 | *              | *                  | *                    | 30†   |
| Assault (homicide)   | 61  | 0                           | 0             | 0                              | *   | 0                       | 13                             | 0               | *          | 0              | 0                            | 18            | 0                  | *  | *                       | *                     | 0                              | 0                     | 0                                | 40†                     | 10                 | 9              | *                  | *                    | 20†   |
| By discharge of firearms   | 29  | 0                           | 0             | 0                              | *   | 0                       | 9                              | 0               | *          | 0              | 0                            | 6             | 0                  | 0  | *                       | *                     | 0                              | 0                     | 0                                | 20†                     | *                  | *              | 0                  | *                    | 10†   |
| By other means   | 32  | 0                           | 0             | 0                              | 0   | 0                       | *                              | 0               | 0          | 0              | 0                            | 12            | 0                  | *  | 0                       | 0                     | 0                              | 0                     | 0                                | 20†                     | 6                  | *              | *                  | *                    | 20†   |
| Legal intervention   | 0†  | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 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              | 0                            | 8             | 0                  | 0  | *                       | 0                     | 0                              | 0                     | 0                                | 10†                     | *                  | *              | 0                  | *                    | 0†    |
| Discharge of firearms  | 0   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 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              | 0                            | 8             | 0                  | 0  | *                       | 0                     | 0                              | 0                     | 0                                | 10†                     | *                  | *              | 0                  | *                    | 0†    |
| Operations of war  | 0   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | 0             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0                       | 0                  | 0              | 0                  | 0                    | 0     |
| Complications of medical and surgical care   | 10†   | 0                           | 0             | 0                              | 0   | 0                       | 0                              | 0               | 0          | 0              | 0                            | *             | 0                  | 0  | 0                       | 0                     | 0                              | 0                     | 0                                | 0†                      | *                  | 0              | 0                  | *                    | 0†    |
| Injury by firearms   | 44  | 0                           | 0             | 0                              | *   | 0                       | 9                              | 0               | *          | 0              | 0                            | 11            | 0                  | 0  | *                       | *                     | 0                              | 0                     | 0                                | 30†                     | 6                  | 7              | *                  | *                    | 20†   |
| Drug-induced deaths  | 98  | 0                           | 0             | 0                              | *   | 0                       | 6                              | 0               | *          | *              | 0                            | 16            | 0                  | *  | *                       | *                     | *                              | *                     | 0                                | 30†                     | 37                 | 12             | *                  | 13                   | 60†   |
| Opioid-induced deaths  | 58  | 0                           | 0             | 0                              | *   | 0                       | *                              | 0               | 0          | 0              | 0                            | *             | 0                  | *  | 0                       | 0                     | 0                              | 0                     | 0                                | 10†                     | 31                 | 9              | *                  | *                    | 50†   |
| Alcohol-induced deaths   | 269   | 0                           | *             | *                              | *   | 0                       | 9                              | 0               | 15         | *              | *                            | 74            | 0                  | 11   | 12                      | 6                     | 28                             | 0                     | 0                                | 170†                    | 43                 | 6              | 11                 | 42                   | 102   |

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, 2019

| Cause of death<br>(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 |
|--|---------|--------|---------|----------|------|--------|----------|--------|----------|--------|--------|------|-------|------------|---------|------|---------|
| <b>Total, all causes</b>   | 2,600†  | 510    | 4       | 265      | 120  | 29     | 0        | 39     | 548      | 44     | 505    | 258  | 191   | 0          | 38      | 28   | 20      |
| 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    | 0       |
| Certain other intestinal infections  | 10†     | *      | 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       |
| Tuberculosis   | 0       | 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    | 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   | 40†     | 8      | 0       | *        | *    | *      | 0        | 0      | *        | 0      | 6      | *    | *     | 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      | *      | *    | *     | 0          | 0       | 0    | 0       |
| Human immunodeficiency virus (HIV) disease   | 10†     | *      | 0       | 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      | 0        | 0      | *        | 0      | *      | *    | *     | 0          | 0       | 0    | 0       |
| Malignant neoplasms  | 330†    | 57     | 0       | 45       | 15   | *      | 0        | *      | 79       | 6      | 59     | 34   | 14    | 0          | 7       | *    | *       |
| 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       |
| Malignant neoplasm of stomach  | 20†     | 7      | 0       | 6        | 0    | 0      | 0        | 0      | *        | 0      | *      | 0    | 0     | 0          | *       | 0    | 0       |
| Malignant neoplasm of colon, rectum and anus   | 30†     | *      | 0       | 6        | *    | 0      | 0        | 0      | 8        | 0      | *      | *    | *     | 0          | 0       | 0    | 0       |
| Malignant neoplasm of liver and intrahepatic bile ducts                                  | 40†     | 7      | 0       | 8        | *    | 0      | 0        | 0      | 9        | *      | 6      | 7    | *     | 0          | *       | 0    | 0       |
| Malignant neoplasm of pancreas   | 30†     | *      | 0       | *        | *    | 0      | 0        | 0      | 8        | 0      | 6      | *    | *     | 0          | *       | 0    | 0       |
| 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      | 8        | *      | *      | *    | 0     | 0          | *       | *    | 0       |
| Malignant melanoma of skin   | 0†      | 0      | 0       | 0        | 0    | 0      | 0        | 0      | *        | *      | 0      | 0    | 0     | 0          | 0       | 0    | 0       |
| Malignant neoplasm of breast   | 20†     | *      | 0       | 0        | *    | *      | 0        | 0      | 11       | *      | 6      | 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    | 0       |
| Malignant neoplasm of corpus uteri and uterus, part unspecified                          | 10†     | *      | 0       | *        | *    | 0      | 0        | 0      | *        | 0      | *      | *    | *     | 0          | 0       | *    | 0       |
| 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      | *        | 0      | *      | *    | 0     | 0          | 0       | 0    | 0       |
| Malignant neoplasm of kidney and renal pelvis  | 20†     | *      | 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, 2019**

| <b>Cause of death</b><br>(Tenth Revision, International Statistical Classification of Diseases) | <b>ARIZONA</b> | <b>Apache</b> | <b>Cochise</b> | <b>Coconino</b> | <b>Gila</b> | <b>Graham</b> | <b>Greenlee</b> | <b>La Paz</b> | <b>Maricopa</b> | <b>Mohave</b> | <b>Navajo</b> | <b>Pima</b> | <b>Pinal</b> | <b>Santa Cruz</b> | <b>Yavapai</b> | <b>Yuma</b> | <b>Unknown</b> |
|---|----------------|---------------|----------------|-----------------|-------------|---------------|-----------------|---------------|-----------------|---------------|---------------|-------------|--------------|-------------------|----------------|-------------|----------------|
| Malignant neoplasm of meninges, brain and other parts of central nervous system                 | 10†            | *             | 0              | 0               | 0           | 0             | 0               | 0             | *               | 0             | *             | *           | 0            | 0                 | 0              | 0           | 0              |
| Malignant neoplasm of lymphoid, hematopoietic and related tissue                                | 30†            | 9             | 0              | *               | *           | 0             | 0               | 0             | 8               | *             | *             | *           | *            | 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  | 20†            | *             | 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           | 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  | 50†            | 13            | 0              | *               | *           | *             | 0               | *             | 9               | 0             | 10            | 7           | 0            | 0                 | *              | 0           | *              |
| In situ neoplasms   | 10†            | 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  | 220†           | 49            | 0              | 11              | *           | *             | 0               | *             | 53              | *             | 37            | 22          | 28           | 0                 | *              | *           | 0              |
| Nutritional deficiencies  | 10†            | *             | 0              | *               | 0           | *             | 0               | 0             | *               | 0             | *             | *           | 0            | 0                 | 0              | *           | 0              |
| Malnutrition  | 10†            | *             | 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              | 0           | 0              |
| Obesity   | 20†            | *             | 0              | *               | 0           | 0             | 0               | *             | 6               | 0             | *             | *           | *            | 0                 | *              | 0           | 0              |
| Meningitis  | 0†             | 0             | 0              | 0               | 0           | 0             | 0               | 0             | 0               | 0             | *             | 0           | 0            | 0                 | 0              | 0           | 0              |
| Parkinson's disease   | 20†            | 8             | 0              | *               | 0           | 0             | 0               | 0             | *               | 0             | *             | *           | 0            | 0                 | 0              | 0           | 0              |
| Alzheimer's disease   | 40†            | 8             | 0              | *               | 0           | 0             | 0               | 0             | 12              | *             | 10            | *           | *            | 0                 | 0              | 0           | *              |
| Major cardiovascular diseases   | 440†           | 79            | *              | 36              | 23          | *             | 0               | 9             | 92              | 7             | 91            | 44          | 34           | 0                 | 10             | 7           | *              |
| Diseases of heart   | 310†           | 50            | *              | 27              | 17          | *             | 0               | 7             | 59              | 6             | 59            | 29          | 31           | 0                 | 7              | 7           | *              |
| Acute rheumatic fever and chronic rheumatic heart disease                                       | 0†             | 0             | 0              | 0               | 0           | 0             | 0               | 0             | 0               | 0             | *             | 0           | 0            | 0                 | 0              | 0           | 0              |
| Hypertensive heart disease  | 30†            | *             | *              | *               | *           | *             | 0               | 0             | 8               | *             | *             | *           | *            | 0                 | 0              | 0           | 0              |
| Hypertensive heart and renal disease  | 0†             | 0             | 0              | 0               | 0           | 0             | 0               | 0             | 0               | 0             | 0             | 0           | 0            | 0                 | *              | 0           | 0              |
| Ischemic heart disease  | 170†           | 29            | *              | 19              | 8           | 0             | 0               | *             | 34              | *             | 30            | 17          | 13           | 0                 | *              | 6           | *              |
| Acute myocardial infarction   | 50†            | 16            | 0              | *               | *           | 0             | 0               | *             | *               | 0             | 9             | *           | *            | 0                 | 0              | 6           | *              |
| Other acute ischemic heart disease  | 0†             | *             | 0              | 0               | 0           | 0             | 0               | 0             | 0               | 0             | *             | *           | 0            | 0                 | 0              | 0           | 0              |
| Other forms of chronic ischemic heart disease   | 130†           | 12            | *              | 17              | 7           | 0             | 0               | *             | 31              | *             | 20            | 12          | 12           | 0                 | *              | 0           | 0              |
| Atherosclerotic cardiovascular disease  | 40†            | *             | *              | *               | *           | 0             | 0               | 0             | 10              | *             | *             | *           | *            | 0                 | *              | 0           | 0              |
| All other forms of chronic ischemic heart disease   | 90†            | 9             | *              | 16              | *           | 0             | 0               | *             | 21              | *             | 15            | 10          | 8            | 0                 | *              | 0           | 0              |
| Other heart diseases  | 100†           | 17            | 0              | 7               | 6           | 0             | 0               | *             | 17              | 0             | 23            | 11          | 15           | 0                 | *              | *           | *              |
| Acute and subacute endocarditis   | 0              | 0             | 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   | 30†            | *             | 0              | *               | *           | 0             | 0               | *             | *               | 0             | 8             | *           | *            | 0                 | 0              | 0           | *              |
| All other forms of heart disease  | 80†            | 12            | 0              | *               | *           | 0             | 0               | *             | 15              | 0             | 15            | 9           | 12           | 0                 | *              | *           | 0              |
| Essential (primary) hypertension and hypertensive renal disease                                 | 50†            | 9             | 0              | *               | *           | 0             | 0               | 0             | 16              | 0             | 11            | *           | *            | 0                 | *              | 0           | 0              |
| Cerebrovascular diseases  | 80†            | 20            | 0              | 8               | *           | *             | 0               | *             | 15              | *             | 18            | 9           | *            | 0                 | *              | 0           | 0              |

**5.7 (continued)**  
**DEATHS BY COUNTY OF RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2019**

| <b>Cause of death</b><br>(Tenth Revision, International Statistical Classification of Diseases) | <b>ARIZONA</b> | <b>Apache</b> | <b>Cochise</b> | <b>Coconino</b> | <b>Gila</b> | <b>Graham</b> | <b>Greenlee</b> | <b>La Paz</b> | <b>Maricopa</b> | <b>Mohave</b> | <b>Navajo</b> | <b>Pima</b> | <b>Pinal</b> | <b>Santa Cruz</b> | <b>Yavapai</b> | <b>Yuma</b> | <b>Unknown</b> |
|---|----------------|---------------|----------------|-----------------|-------------|---------------|-----------------|---------------|-----------------|---------------|---------------|-------------|--------------|-------------------|----------------|-------------|----------------|
| Atherosclerosis   | 0†             | 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           | 0              |
| Other disorders of circulatory system   | 10†            | *             | 0              | *               | 0           | 0             | 0               | *             | *               | 0             | *             | 0           | 0            | 0                 | 0              | 0           | 0              |
| Influenza and pneumonia   | 60†            | 10            | 0              | 11              | *           | *             | 0               | *             | 10              | *             | 14            | 7           | *            | 0                 | 0              | *           | *              |
| Influenza   | 10†            | *             | 0              | *               | 0           | *             | 0               | 0             | *               | 0             | *             | *           | *            | 0                 | 0              | 0           | 0              |
| Pneumonia   | 50†            | 8             | 0              | 10              | *           | 0             | 0               | *             | 9               | *             | 11            | *           | *            | 0                 | 0              | *           | *              |
| 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           | 0              |
| Chronic lower respiratory diseases  | 40†            | *             | 0              | *               | *           | *             | 0               | *             | 10              | 0             | 7             | *           | 8            | 0                 | *              | *           | 0              |
| Bronchitis, chronic and unspecified   | 0              | 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              |
| Other chronic lower respiratory diseases  | 40†            | *             | 0              | *               | 0           | *             | 0               | *             | 10              | 0             | 6             | *           | 7            | 0                 | *              | *           | 0              |
| 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   | 20†            | *             | 0              | 0               | *           | 0             | 0               | 0             | *               | 0             | *             | *           | *            | 0                 | *              | 0           | *              |
| Other disease of respiratory system   | 70†            | 16            | 0              | 6               | *           | 0             | 0               | 0             | 12              | *             | 14            | 9           | *            | 0                 | 0              | 0           | *              |
| 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   | 220†           | 31            | *              | 20              | 15          | 6             | 0               | 7             | 50              | 7             | 40            | 20          | 21           | 0                 | *              | *           | *              |
| Alcoholic liver disease   | 160†           | 18            | *              | 16              | 12          | *             | 0               | 6             | 41              | 7             | 31            | 7           | 12           | 0                 | 0              | *           | 0              |
| Other chronic liver disease and cirrhosis   | 70†            | 13            | 0              | *               | *           | *             | 0               | *             | 9               | 0             | 9             | 13          | 9            | 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†            | 6             | 0              | 6               | *           | 0             | 0               | *             | 9               | *             | 12            | 6           | *            | 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†            | 6             | 0              | 6               | *           | 0             | 0               | *             | 9               | *             | 12            | 6           | *            | 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              |
| 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  | 10†            | *             | 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, 2019**

| <b>Cause of death</b><br>(Tenth Revision, International Statistical Classification of Diseases) | <b>ARIZONA</b> | <b>Apache</b> | <b>Cochise</b> | <b>Coconino</b> | <b>Gila</b> | <b>Graham</b> | <b>Greenlee</b> | <b>La Paz</b> | <b>Maricopa</b> | <b>Mohave</b> | <b>Navajo</b> | <b>Pima</b> | <b>Pinal</b> | <b>Santa Cruz</b> | <b>Yavapai</b> | <b>Yuma</b> | <b>Unknown</b> |
|---|----------------|---------------|----------------|-----------------|-------------|---------------|-----------------|---------------|-----------------|---------------|---------------|-------------|--------------|-------------------|----------------|-------------|----------------|
| Other complications of pregnancy, childbirth and the puerperium                                 | 10†            | *             | 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                                | 10†            | *             | 0              | 0               | *           | 0             | 0               | 0             | *               | 0             | *             | *           | *            | 0                 | 0              | 0           | 0              |
| Symptoms, signs, abnormal findings  | 80†            | 41            | 0              | 6               | *           | 0             | 0               | *             | 11              | *             | 12            | *           | *            | 0                 | *              | 0           | 0              |
| Total accidents   | 360†           | 71            | 0              | 49              | 15          | *             | 0               | *             | 85              | *             | 62            | 32          | 17           | 0                 | *              | *           | 7              |
| Transport accidents   | 120†           | 28            | 0              | 13              | 7           | 0             | 0               | *             | 25              | *             | 24            | 6           | 7            | 0                 | *              | *           | *              |
| Motor vehicle accidents   | 110†           | 24            | 0              | 11              | *           | 0             | 0               | *             | 18              | *             | 23            | 6           | 7            | 0                 | *              | *           | *              |
| Other land transport accidents  | 10†            | *             | 0              | *               | *           | 0             | 0               | 0             | *               | 0             | *             | 0           | 0            | 0                 | 0              | 0           | 0              |
| Water, air, space   | 10†            | *             | 0              | *               | 0           | 0             | 0               | 0             | *               | 0             | 0             | 0           | 0            | 0                 | *              | 0           | 0              |
| Nontransport accidents  | 230†           | 43            | 0              | 36              | 8           | *             | 0               | *             | 60              | *             | 38            | 26          | 10           | 0                 | *              | *           | *              |
| Falls   | 40†            | 6             | 0              | 8               | *           | 0             | 0               | 0             | *               | 0             | 9             | *           | *            | 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†           | 18            | 0              | 16              | *           | *             | 0               | *             | 48              | *             | 18            | 15          | *            | 0                 | *              | *           | *              |
| Excessive natural heat  | 10†            | *             | 0              | 0               | 0           | 0             | 0               | 0             | *               | 0             | 0             | 0           | *            | 0                 | 0              | 0           | 0              |
| Excessive natural cold  | 20†            | 7             | 0              | *               | 0           | 0             | 0               | 0             | *               | 0             | 7             | *           | 0            | 0                 | 0              | 0           | 0              |
| Other and unspecified nontransport accidents  | 50†            | 15            | 0              | 10              | 0           | 0             | 0               | *             | *               | 0             | 10            | *           | *            | 0                 | 0              | 0           | 0              |
| Intentional self-harm (suicide)   | 80†            | 9             | 0              | 19              | 6           | 0             | 0               | 0             | 15              | *             | 17            | 12          | *            | 0                 | 0              | *           | 0              |
| By discharge of firearms  | 10†            | *             | 0              | *               | *           | 0             | 0               | 0             | *               | 0             | *             | *           | *            | 0                 | 0              | 0           | 0              |
| By other means  | 70†            | 8             | 0              | 17              | *           | 0             | 0               | 0             | 13              | *             | 16            | 10          | *            | 0                 | 0              | *           | 0              |
| Assault (homicide)  | 60†            | 9             | 0              | *               | *           | 0             | 0               | 0             | 15              | 0             | 11            | 10          | 12           | 0                 | *              | 0           | 0              |
| By discharge of firearms  | 30†            | *             | 0              | *               | *           | 0             | 0               | 0             | 8               | 0             | *             | *           | 7            | 0                 | 0              | 0           | 0              |
| By other means  | 30†            | 6             | 0              | *               | 0           | 0             | 0               | 0             | 7               | 0             | 7             | *           | *            | 0                 | *              | 0           | 0              |
| Legal intervention  | 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              | 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  | 40†            | *             | 0              | *               | *           | 0             | 0               | 0             | 10              | 0             | *             | 8           | 8            | 0                 | 0              | 0           | *              |
| Drug-induced deaths   | 100†           | 7             | 0              | 7               | *           | 0             | 0               | *             | 45              | *             | 9             | 14          | 6            | 0                 | *              | *           | *              |
| Opioid-induced deaths   | 60†            | *             | 0              | *               | 0           | 0             | 0               | *             | 37              | 0             | *             | 9           | *            | 0                 | *              | 0           | 0              |
| Alcohol-induced deaths  | 270†           | 47            | *              | 33              | 19          | *             | 0               | 7             | 57              | 8             | 66            | 10          | 13           | 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.

## 5.8

**DEATHS FROM MOTOR VEHICLE INJURIES AMONG AMERICAN INDIANS BY PLACE OF RESIDENCE,  
GENDER, AND AGE GROUP, ARIZONA, 2019**

|       |          | TOTAL | Resided on reservation |                             |  |                         |                             |            |                |               |                         |                       |                             | TOTAL | Resided off reservation |                   |                       |                         |       |
|-------|----------|-------|------------------------|-----------------------------|--|-------------------------|-----------------------------|------------|----------------|---------------|-------------------------|-----------------------|-----------------------------|-------|-------------------------|-------------------|-----------------------|-------------------------|-------|
|       |          |       | Cocopah Tribe          | Colorado River Indian Tribe | Fort McDowell Yavapai Nation Reservation | Fort Mohave Reservation | Gila River Indian Community | Hopi Tribe | Hualapai Tribe | Navajo Nation | San Carlos Apache Tribe | Tohono O'odham Nation | White Mountain Apache Tribe |       | ---in Maricopa County   | ---in Pima County | ---in Coconino County | ---elsewhere in Arizona | TOTAL |
| TOTAL | ALL AGES | 110†  | 0†                     | 0†                          | 0†                                       | 0†                      | 10†                         | 0†         | 0†             | 50†           | 10†                     | 0†                    | 0†                          | 70†   | 10†                     | 10†               | 0†                    | 20†                     | 40†   |
|       | <1       | 0     | 0                      | 0                           | 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                     | 0                       | 0     |
|       | 5-14     | 0†    | 0                      | 0                           | 0  | 0                       | 0                           | 0          | 0              | *             | *                       | 0                     | 0                           | 0†    | 0                       | 0                 | 0                     | 0                       | 0     |
|       | 15-24    | 20†   | 0                      | *                           | 0  | 0                       | 0                           | *          | 0              | 11            | *                       | 0                     | 0                           | 20†   | 0                       | *                 | *                     | *                       | 0†    |
|       | 25-34    | 32    | *                      | 0                           | 0  | *                       | *                           | 0          | *              | 9             | 0                       | 0                     | *                           | 20†   | *                       | *                 | *                     | 7                       | 10†   |
|       | 35-44    | 24    | 0                      | 0                           | *  | 0                       | *                           | 0          | 0              | 7             | *                       | *                     | *                           | 10†   | *                       | 0                 | *                     | 6                       | 10†   |
|       | 45-54    | 10†   | 0                      | 0                           | 0  | 0                       | 0                           | 0          | 0              | 7             | 0                       | 0                     | 0                           | 7     | 0                       | *                 | 0                     | 0                       | 0†    |
|       | 55-64    | 10†   | 0                      | 0                           | 0  | 0                       | 0                           | 0          | 0              | *             | *                       | 0                     | *                           | 10†   | *                       | *                 | 0                     | *                       | 0†    |
|       | 65-74    | 0†    | 0                      | 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                 | 0                     | 0                       | 0†    |
|       | 85+      | 0†    | 0                      | 0                           | 0  | 0                       | 0                           | 0          | 0              | *             | 0                       | 0                     | 0                           | 0†    | *                       | 0                 | 0                     | 0                       | 0†    |
| M     | ALL AGES | 70†   | 0                      | 0†                          | 0  | 0                       | 0†                          | 0          | 0†             | 30†           | 0†                      | 0†                    | 0†                          | 50†   | 10†                     | 0†                | 0†                    | 10†                     | 20†   |
|       | <1       | 0     | 0                      | 0                           | 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                 | 0                     | 0                       | 0     |
|       | 5-14     | 0†    | 0                      | 0                           | 0  | 0                       | 0                           | 0          | 0              | *             | *                       | 0                     | 0                           | 0†    | 0                       | 0                 | 0                     | 0                       | 0     |
|       | 15-24    | 10†   | 0                      | *                           | 0  | 0                       | 0                           | 0          | 0              | 8             | *                       | 0                     | 0                           | 10†   | 0                       | *                 | *                     | *                       | 0†    |
|       | 25-34    | 17    | 0                      | 0                           | 0  | 0                       | *                           | 0          | *              | *             | 0                       | 0                     | 0                           | 10†   | *                       | *                 | *                     | *                       | 10†   |
|       | 35-44    | 10†   | 0                      | 0                           | 0  | 0                       | *                           | 0          | 0              | 6             | 0                       | *                     | *                           | 10†   | *                       | 0                 | 0                     | *                       | 0†    |
|       | 45-54    | 10†   | 0                      | 0                           | 0  | 0                       | 0                           | 0          | 0              | 7             | 0                       | 0                     | 0                           | 7     | 0                       | *                 | 0                     | 0                       | 0†    |
|       | 55-64    | 10†   | 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                 | 0                     | 0                       | 0     |
|       | 75-84    | 0†    | 0                      | 0                           | 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                       | 0                 | 0                     | 0                       | 0     |
| F     | ALL AGES | 40†   | 0†                     | 0                           | 0†                                       | 0†                      | 0†                          | 0†         | 0              | 10†           | 0†                      | 0                     | 0†                          | 20†   | 10†                     | 0†                | 0†                    | 10†                     | 20†   |
|       | <1       | 0     | 0                      | 0                           | 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                     | 0                       | 0     |
|       | 5-14     | 0     | 0                      | 0                           | 0  | 0                       | 0                           | 0          | 0              | 0             | 0                       | 0                     | 0                           | 0     | 0                       | 0                 | 0                     | 0                       | 0     |
|       | 15-24    | 10†   | 0                      | 0                           | 0  | 0                       | 0                           | *          | 0              | *             | 0                       | 0                     | 0                           | 0†    | 0                       | 0                 | 0                     | *                       | 0†    |
|       | 25-34    | 15    | *                      | 0                           | 0  | *                       | *                           | 0          | 0              | *             | 0                       | 0                     | *                           | 10†   | *                       | 0                 | 0                     | *                       | 10†   |
|       | 35-44    | 10†   | 0                      | 0                           | *  | 0                       | 0                           | 0          | 0              | *             | *                       | 0                     | 0                           | 0†    | *                       | 0                 | *                     | *                       | 10†   |
|       | 45-54    | 0†    | 0                      | 0                           | 0  | 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                     | 0                       | 0†    |
|       | 65-74    | 0†    | 0                      | 0                           | 0  | 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     | 0                       | 0                 | 0                     | 0                       | 0     |
|       | 85+      | 0†    | 0                      | 0                           | 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.

**5.9**  
**INTENTIONAL SELF-HARM (SUICIDE) AMONG AMERICAN INDIANS BY PLACE OF RESIDENCE,**  
**GENDER, AND AGE GROUP, ARIZONA, 2019**

|       |          | TOTAL | Resided on reservation      |            |                |               |   |                         |                       |                             |       | Resided off reservation |                   |                       |                         |       |
|-------|----------|-------|-----------------------------|------------|----------------|---------------|---|-------------------------|-----------------------|-----------------------------|-------|-------------------------|-------------------|-----------------------|-------------------------|-------|
|       |          |       | Gila River Indian Community | Hopi Tribe | Hualapai Tribe | Navajo Nation | Salt River Pima-Maricopa Indian Community | San Carlos Apache Tribe | Tohono O'odham Nation | White Mountain Apache Tribe | TOTAL | ---in Maricopa County   | ---in Pima County | ---in Coconino County | ---elsewhere in Arizona | TOTAL |
| TOTAL | ALL AGES | 80†   | 0†                          | 0†         | 0†             | 30†           | 0†  | 0†                      | 10†                   | 10†                         | 50†   | 10†                     | 10†               | 10†                   | 10†                     | 30†   |
|       | <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     |
|       | 15-24    | 18    | 0                           | 0          | 0              | 6             | 0   | 0                       | *                     | *                           | 10†   | *                       | *                 | *                     | 0                       | 10†   |
|       | 25-34    | 36    | *                           | *          | *              | 14            | *   | *                       | *                     | *                           | 20†   | *                       | *                 | *                     | *                       | 10†   |
|       | 35-44    | 10†   | 0                           | 0          | 0              | 6             | 0   | 0                       | *                     | 0                           | 10†   | *                       | *                 | *                     | *                       | 0†    |
|       | 45-54    | 10†   | 0                           | 0          | 0              | *             | 0   | 0                       | 0                     | 0                           | 0†    | *                       | 0                 | 0                     | *                       | 10†   |
|       | 55-64    | 10†   | 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                     | 0                       | 0     |
|       | 85+      | 0†    | 0                           | 0          | 0              | *             | 0   | 0                       | 0                     | 0                           | 0†    | 0                       | 0                 | 0                     | 0                       | 0     |
| M     | ALL AGES | 70†   | 0                           | 0†         | 0†             | 30†           | 0†  | 0†                      | 10†                   | 10†                         | 40†   | 10†                     | 0†                | 0†                    | 0†                      | 20†   |
|       | <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     |
|       | 15-24    | 10†   | 0                           | 0          | 0              | *             | 0   | 0                       | *                     | *                           | 10†   | *                       | *                 | *                     | 0                       | 0†    |
|       | 25-34    | 31    | 0                           | *          | *              | 12            | *   | *                       | *                     | *                           | 20†   | *                       | *                 | *                     | *                       | 10†   |
|       | 35-44    | 10†   | 0                           | 0          | 0              | 6             | 0   | 0                       | *                     | 0                           | 10†   | *                       | 0                 | 0                     | 0                       | 0†    |
|       | 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†    |
|       | 65-74    | 0†    | 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                     | 0                       | 0     |
|       | 85+      | 0†    | 0                           | 0          | 0              | *             | 0   | 0                       | 0                     | 0                           | 0†    | 0                       | 0                 | 0                     | 0                       | 0     |
| F     | ALL AGES | 20†   | 0†                          | 0          | 0†             | 10†           | 0   | 0                       | 0                     | 0†                          | 10†   | 0†                      | 0†                | 0†                    | 0†                      | 10†   |
|       | <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     |
|       | 15-24    | 10†   | 0                           | 0          | 0              | *             | 0   | 0                       | 0                     | *                           | 0†    | *                       | *                 | *                     | 0                       | 0†    |
|       | 25-34    | 10†   | *                           | 0          | 0              | *             | 0   | 0                       | 0                     | 0                           | 0†    | 0                       | *                 | *                     | 0                       | 0†    |
|       | 35-44    | 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                     | *                       | 0†    |
|       | 65-74    | 0†    | 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                     | 0                       | 0     |
|       | 85+      | 0     | 0                           | 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, 2019**

|              |                 | TOTAL | Resided on reservation                         |                                |            |               |  |                            |                          |       | Resided off reservation  |                   |                          |                            |       |
|--------------|-----------------|-------|--|--------------------------------|------------|---------------|--|----------------------------|--------------------------|-------|--------------------------|-------------------|--------------------------|----------------------------|-------|
|              |                 |       | Fort McDowell<br>Yavapai Nation<br>Reservation | Gila River Indian<br>Community | Hopi Tribe | Navajo Nation | Salt River Pima-<br>Maricopa Indian<br>Community | San Carlos<br>Apache Tribe | Tohono O'Odham<br>Nation | TOTAL | ---in Maricopa<br>County | ---in Pima County | ---in Coconino<br>County | ---elsewhere in<br>Arizona | TOTAL |
| <b>TOTAL</b> | <b>ALL AGES</b> | 60†   | 0†   | 10†                            | 0†         | 20†           | 0†   | 0†                         | 0†                       | 40†   | 10†                      | 10†               | 0†                       | 0†                         | 20†   |
|              | <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†    |
|              | 15-24           | 13    | 0  | *                              | 0          | *             | 0  | 0                          | 0                        | 10†   | *                        | *                 | 0                        | 0                          | 10†   |
|              | 25-34           | 18    | *  | *                              | 0          | *             | 0  | 0                          | *                        | 10†   | *                        | *                 | *                        | *                          | 10†   |
|              | 35-44           | 12    | 0  | *                              | 0          | *             | 0  | *                          | 0                        | 10†   | *                        | *                 | 0                        | *                          | 10†   |
|              | 45-54           | 10†   | 0  | *                              | *          | *             | 0  | 0                          | 0                        | 10†   | 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                          | 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                          | 0     |
| <b>M</b>     | <b>ALL AGES</b> | 50†   | 0  | 10†                            | 0†         | 20†           | 0†   | 0†                         | 0†                       | 30†   | 10†                      | 10†               | 0†                       | 0†                         | 20†   |
|              | <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           | 10†   | 0  | *                              | 0          | *             | 0  | 0                          | 0                        | 10†   | *                        | *                 | 0                        | 0                          | 10†   |
|              | 25-34           | 10†   | 0  | *                              | 0          | *             | 0  | 0                          | *                        | 10†   | *                        | *                 | *                        | *                          | 10†   |
|              | 35-44           | 10†   | 0  | *                              | 0          | *             | 0  | *                          | 0                        | 10†   | *                        | *                 | 0                        | *                          | 0†    |
|              | 45-54           | 10†   | 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                          | 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                          | 0     |
| <b>F</b>     | <b>ALL AGES</b> | 10†   | 0†   | 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                        | 0                 | 0                        | 0                          | 0     |
|              | 15-24           | 0†    | 0  | *                              | 0          | 0             | 0  | 0                          | 0                        | 0†    | *                        | 0                 | 0                        | 0                          | 0†    |
|              | 25-34           | 0†    | *  | *                              | 0          | *             | 0  | 0                          | 0                        | 0†    | 0                        | *                 | 0                        | 0                          | 0†    |
|              | 35-44           | 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                          | 0     |
|              | 75-84           | 0     | 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                          | 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, 2019

|       |          | TOTAL | Resided on reservation   |               |                             |                             |            |                |               |                    |   |                         |                       |                             |                               |       | Resided off reservation |                   |                       |                         |       |
|-------|----------|-------|--------------------------|---------------|-----------------------------|-----------------------------|------------|----------------|---------------|--------------------|---|-------------------------|-----------------------|-----------------------------|-------------------------------|-------|-------------------------|-------------------|-----------------------|-------------------------|-------|
|       |          |       | Ak-Chin Indian Community | Cocopah Tribe | Colorado River Indian Tribe | Gila River Indian Community | Hopi Tribe | Hualapai Tribe | Navajo Nation | Pascua Yaqui Tribe | Salt River Pima-Maricopa Indian Community | San Carlos Apache Tribe | Tohono O'Odham Nation | White Mountain Apache Tribe | Yavapai-Prescott Indian Tribe | TOTAL | ---in Maricopa County   | ---in Pima County | ---in Coconino County | ---elsewhere in Arizona | TOTAL |
| TOTAL | ALL AGES | 432   | 0†                       | 0†            | 10†                         | 40†                         | 20†        | 0†             | 130†          | 0†                 | 20†                                       | 20†                     | 20†                   | 20†                         | 0†                            | 280†  | 60†                     | 20†               | 10†                   | 60†                     | 150†  |
|       | <1       | 0     | 0                        | 0             | 0                           | 0                           | 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     | 0                       | 0                 | 0                     | 0                       | 0     |
|       | 5-14     | 0     | 0                        | 0             | 0                           | 0                           | 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     | 0                       | 0                 | 0                     | 0                       | 0     |
|       | 25-34    | 10†   | 0                        | 0             | *                           | *                           | 0          | 0              | *             | 0                  | 0   | 0                       | 0                     | *                           | 0                             | 0†    | *                       | 0                 | *                     | *                       | 10†   |
|       | 35-44    | 33    | 0                        | 0             | 0                           | 8                           | 0          | 0              | 9             | 0                  | *   | 0                       | 0                     | *                           | 0                             | 20†   | *                       | *                 | *                     | *                       | 10†   |
|       | 45-54    | 70    | 0                        | *             | 0                           | 8                           | *          | *              | 17            | 0                  | *   | *                       | *                     | 6                           | 0                             | 50†   | 11                      | *                 | *                     | 7                       | 20†   |
|       | 55-64    | 90    | 0                        | 0             | *                           | 13                          | 7          | *              | 24            | 0                  | 7   | *                       | *                     | *                           | 0                             | 70†   | 17                      | 0                 | *                     | 6                       | 20†   |
|       | 65-74    | 92    | *                        | *             | *                           | *                           | *          | 0              | 23            | 0                  | 6   | *                       | *                     | *                           | 0                             | 50†   | 15                      | 7                 | *                     | 17                      | 40†   |
| 75-84 | 93       | 0     | *                        | *             | *                           | *                           | *          | 36             | 0             | *                  | *   | *                       | *                     | 0                           | 60†                           | 11    | 10                      | *                 | 10                    | 30†                     |       |
| 85+   | 45       | 0     | 0                        | 0             | *                           | *                           | 0          | 24             | *             | 0                  | *   | *                       | *                     | *                           | 30†                           | *     | *                       | 0                 | 10                    | 10†                     |       |
| M     | ALL AGES | 230†  | 0†                       | 0†            | 0†                          | 20†                         | 10†        | 0†             | 70†           | 0†                 | 10†                                       | 10†                     | 10†                   | 20†                         | 0                             | 160†  | 40†                     | 10†               | 10†                   | 30†                     | 80†   |
|       | <1       | 0     | 0                        | 0             | 0                           | 0                           | 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     | 0                       | 0                 | 0                     | 0                       | 0     |
|       | 5-14     | 0     | 0                        | 0             | 0                           | 0                           | 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     | 0                       | 0                 | 0                     | 0                       | 0     |
|       | 25-34    | 10†   | 0                        | 0             | 0                           | 0                           | 0          | 0              | *             | 0                  | 0   | 0                       | *                     | 0                           | *                             | 0†    | *                       | 0                 | *                     | *                       | 0†    |
|       | 35-44    | 20    | 0                        | 0             | 0                           | *                           | 0          | 0              | 7             | 0                  | 0   | 0                       | *                     | 0                           | 14                            | 10†   | *                       | *                 | *                     | *                       | 10†   |
|       | 45-54    | 45    | 0                        | *             | 0                           | *                           | *          | *              | 12            | 0                  | *   | *                       | *                     | 0                           | 30                            | 30†   | 7                       | *                 | *                     | *                       | 20†   |
|       | 55-64    | 57    | 0                        | 0             | *                           | 7                           | *          | 0              | 19            | 0                  | *   | *                       | *                     | 0                           | 46                            | 50†   | 7                       | 0                 | *                     | *                       | 10†   |
|       | 65-74    | 43    | *                        | *             | 0                           | 0                           | *          | 0              | 13            | 0                  | *   | *                       | *                     | 0                           | 26                            | 30†   | 10                      | *                 | *                     | *                       | 20†   |
| 75-84 | 45       | 0     | *                        | *             | *                           | *                           | *          | 14             | 0             | *                  | 0   | *                       | 0                     | 27                          | 30†                           | 8     | *                       | 0                 | 7                     | 20†                     |       |
| 85+   | 20†      | 0     | 0                        | 0             | 0                           | 0                           | 0          | 8              | *             | 0                  | *   | 0                       | 0                     | 10                          | 10†                           | *     | 0                       | 0                 | *                     | 10†                     |       |
| F     | ALL AGES | 200†  | 0                        | 0†            | 0†                          | 20†                         | 10†        | 0†             | 60†           | 0                  | 10†                                       | 10†                     | 0†                    | 10†                         | 0†                            | 130†  | 30†                     | 20†               | 0†                    | 30†                     | 80†   |
|       | <1       | 0     | 0                        | 0             | 0                           | 0                           | 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     | 0                       | 0                 | 0                     | 0                       | 0     |
|       | 5-14     | 0     | 0                        | 0             | 0                           | 0                           | 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     | 0                       | 0                 | 0                     | 0                       | 0     |
|       | 25-34    | 0†    | 0                        | 0             | *                           | *                           | 0          | 0              | 0             | 0                  | 0   | 0                       | 0                     | 0                           | *                             | 0†    | 0                       | 0                 | 0                     | *                       | 0†    |
|       | 35-44    | 10†   | 0                        | 0             | 0                           | *                           | 0          | 0              | *             | 0                  | *   | 0                       | 0                     | 0                           | 9                             | 10†   | *                       | *                 | 0                     | *                       | 0†    |
|       | 45-54    | 25    | 0                        | 0             | 0                           | *                           | *          | 0              | *             | 0                  | *   | *                       | *                     | 0                           | 17                            | 20†   | *                       | *                 | 0                     | *                       | 10†   |
|       | 55-64    | 33    | 0                        | 0             | 0                           | 6                           | *          | *              | *             | 0                  | *   | 0                       | 0                     | 0                           | 20                            | 20†   | 10                      | 0                 | 0                     | *                       | 10†   |
|       | 65-74    | 49    | 0                        | *             | *                           | *                           | *          | 0              | 10            | 0                  | *   | *                       | 0                     | 0                           | 24                            | 20†   | *                       | 6                 | *                     | 12                      | 30†   |
| 75-84 | 48       | 0     | 0                        | *             | *                           | *                           | *          | 22             | 0             | 0                  | *   | *                       | 0                     | 33                          | 30†                           | *     | 7                       | *                 | *                     | 20†                     |       |
| 85+   | 30       | 0     | 0                        | 0             | *                           | *                           | 0          | 16             | 0             | 0                  | 0   | *                       | *                     | 22                          | 20†                           | *     | *                       | 0                 | 6                     | 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 (223 in 2019) 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, 2019**

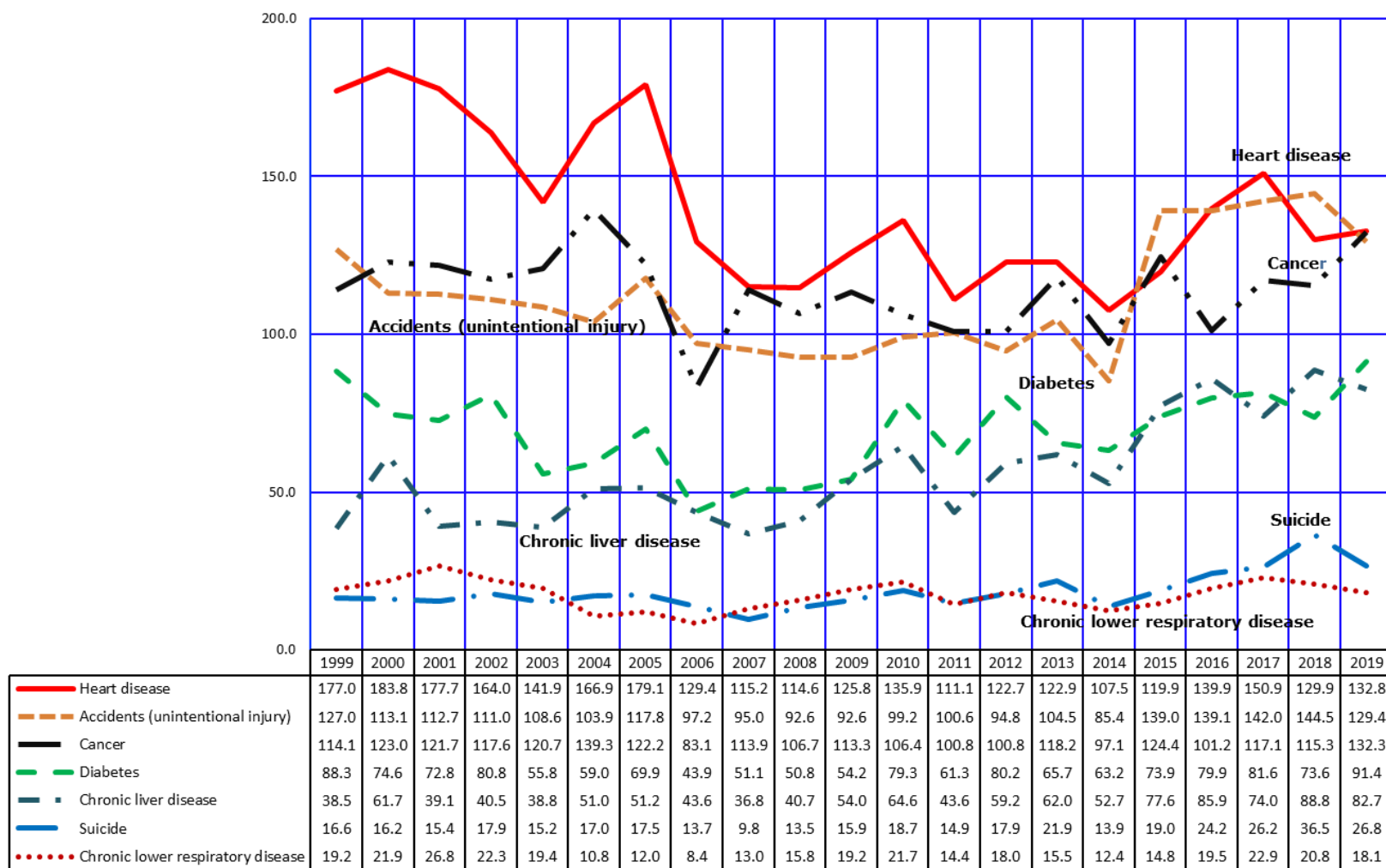
|       |          | TOTAL | Resided on reservation |                             |  |                             |            |                |                           |               |   |                         |                       |                             |       | Resided off reservation |                   |                       |                         |       |
|-------|----------|-------|------------------------|-----------------------------|--|-----------------------------|------------|----------------|---------------------------|---------------|---|-------------------------|-----------------------|-----------------------------|-------|-------------------------|-------------------|-----------------------|-------------------------|-------|
|       |          |       | Cocopah Tribe          | Colorado River Indian Tribe | Fort McDowell Yavapai Nation Reservation | Gila River Indian Community | Hopi Tribe | Hualapai Tribe | Kaibab Indian Reservation | Navajo Nation | Salt River Pima-Maricopa Indian Community | San Carlos Apache Tribe | Tohono O'odham Nation | White Mountain Apache Tribe | TOTAL | ---in Maricopa County   | ---in Pima County | ---in Coconino County | ---elsewhere in Arizona | TOTAL |
| TOTAL | ALL AGES | 270†  | 0†                     | 0†                          | 0†                                       | 10†                         | 20†        | 0†             | 0†                        | 70†           | 10†                                       | 10†                     | 10†                   | 30†                         | 170†  | 40†                     | 10†               | 10†                   | 40†                     | 100†  |
|       | <1       | 0     | 0                      | 0                           | 0  | 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                       | 0                 | 0                     | 0                       | 0     |
|       | 5-14     | 0     | 0                      | 0                           | 0  | 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                     | *                       | 0†    |
|       | 25-34    | 48    | 0                      | *                           | 0  | *                           | *          | 0              | *                         | 10            | 0   | *                       | 0                     | 7                           | 20†   | 10                      | *                 | *                     | 12                      | 30†   |
|       | 35-44    | 58    | 0                      | *                           | 0  | *                           | *          | *              | 0                         | 14            | *   | *                       | *                     | 6                           | 30†   | 10                      | 0                 | *                     | 10                      | 20†   |
|       | 45-54    | 71    | *                      | 0                           | 0  | *                           | *          | *              | 0                         | 23            | *   | *                       | 0                     | *                           | 50†   | 13                      | *                 | *                     | 7                       | 30†   |
|       | 55-64    | 67    | 0                      | *                           | *  | *                           | 8          | *              | *                         | 16            | *   | *                       | *                     | 8                           | 40†   | 9                       | 0                 | *                     | 11                      | 20†   |
|       | 65-74    | 20†   | 0                      | 0                           | *  | *                           | *          | 0              | 0                         | 6             | *   | 0                       | *                     | *                           | 10†   | *                       | 0                 | *                     | *                       | 0†    |
|       | 75-84    | 10†   | 0                      | 0                           | 0  | 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                     | 0                           | 0     | 0                       | 0                 | 0                     | 0                       |       |
| M     | ALL AGES | 180†  | 0†                     | 0†                          | 0  | 10†                         | 10†        | 0†             | 0†                        | 50†           | 10†                                       | 10†                     | 0†                    | 20†                         | 110†  | 30†                     | 10†               | 10†                   | 30†                     | 60†   |
|       | <1       | 0     | 0                      | 0                           | 0  | 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                       | 0                 | 0                     | 0                       | 0     |
|       | 5-14     | 0     | 0                      | 0                           | 0  | 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                 | 0                     | *                       | 0†    |
|       | 25-34    | 33    | 0                      | *                           | 0  | *                           | *          | 0              | *                         | 6             | 0   | *                       | 0                     | *                           | 20†   | 7                       | *                 | *                     | 8                       | 20†   |
|       | 35-44    | 40    | 0                      | *                           | 0  | *                           | 0          | *              | 0                         | 11            | *   | *                       | *                     | *                           | 20†   | 7                       | 0                 | *                     | 7                       | 20†   |
|       | 45-54    | 43    | *                      | 0                           | 0  | *                           | *          | 0              | 0                         | 13            | *   | *                       | 0                     | *                           | 30†   | 6                       | *                 | *                     | *                       | 20†   |
|       | 55-64    | 43    | 0                      | 0                           | 0  | *                           | 6          | *              | 0                         | 15            | *   | *                       | *                     | 6                           | 30†   | *                       | 0                 | *                     | *                       | 10†   |
|       | 65-74    | 10†   | 0                      | 0                           | 0  | 0                           | *          | 0              | 0                         | 6             | *   | 0                       | 0                     | *                           | 10†   | *                       | 0                 | *                     | *                       | 0†    |
|       | 75-84    | 0†    | 0                      | 0                           | 0  | 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                     | 0                           | 0     | 0                       | 0                 | 0                     | 0                       |       |
| F     | ALL AGES | 90†   | 0                      | 0†                          | 0†                                       | 0†                          | 0†         | 0†             | 0†                        | 20†           | 10†                                       | 0†                      | 0†                    | 10†                         | 50†   | 20†                     | 0                 | 0†                    | 20†                     | 40†   |
|       | <1       | 0     | 0                      | 0                           | 0  | 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                       | 0                 | 0                     | 0                       | 0     |
|       | 5-14     | 0     | 0                      | 0                           | 0  | 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                 | 0                     | 0                       | 0     |
|       | 25-34    | 15    | 0                      | 0                           | 0  | 0                           | 0          | 0              | 0                         | *             | 0   | *                       | 0                     | *                           | 10†   | *                       | 0                 | *                     | *                       | 10†   |
|       | 35-44    | 18    | 0                      | 0                           | 0  | 0                           | *          | 0              | 0                         | *             | *   | 0                       | *                     | *                           | 10†   | *                       | 0                 | *                     | *                       | 10†   |
|       | 45-54    | 28    | 0                      | 0                           | 0  | *                           | 0          | *              | 0                         | 10            | *   | *                       | 0                     | *                           | 20†   | 7                       | 0                 | 0                     | *                       | 10†   |
|       | 55-64    | 24    | 0                      | *                           | *  | *                           | *          | 0              | *                         | *             | *   | 0                       | *                     | *                           | 10†   | *                       | 0                 | *                     | 6                       | 10†   |
|       | 65-74    | 0†    | 0                      | 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†    | 0                       | 0                 | 0                     | 0                       | 0     |
| 85+   | 0        | 0     | 0                      | 0                           | 0  | 0                           | 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.



## **COMPARATIVE CAUSE-SPECIFIC MORTALITY**

**5.13**  
**Temporal Changes<sup>a</sup> in the Selected Leading Causes of Death among American Indian Residents of Arizona, 1999-2019**



Notes: <sup>a</sup> 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<sup>a</sup> by Gender among American Indian**  
**Residents of Arizona in 2019**

| <b>Rank</b> | <b>Female</b>   | <b>Both</b>   | <b>Male</b>   |
|-------------|---|---|---|
| <b>1</b>    | <b>Cancer</b><br><b>112.5</b>                                       | <b>Diseases of heart</b><br><b>132.8</b>                            | <b>Accidents</b><br><b>(unintentional injury)</b><br><b>183.3</b>   |
| <b>2</b>    | <b>Diseases of heart</b><br><b>100.6</b>                            | <b>Cancer</b><br><b>132.3</b>                                       | <b>Diseases of heart</b><br><b>176.0</b>                            |
| <b>3</b>    | <b>Accidents</b><br><b>(unintentional injury)</b><br><b>81.6</b>    | <b>Accidents</b><br><b>(unintentional injury)</b><br><b>129.4</b>   | <b>Cancer</b><br><b>162.6</b>                                       |
| <b>4</b>    | <b>Diabetes</b><br><b>78.5</b>                                      | <b>Diabetes</b><br><b>91.4</b>                                      | <b>Diabetes</b><br><b>106.3</b>                                     |
| <b>5</b>    | <b>Chronic liver disease and</b><br><b>cirrhosis</b><br><b>68.8</b> | <b>Chronic liver disease and</b><br><b>cirrhosis</b><br><b>82.7</b> | <b>Chronic liver disease and</b><br><b>cirrhosis</b><br><b>98.2</b> |

Notes: <sup>a</sup> 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 2019" report.

**5.15**  
**Five Leading Causes of Death<sup>a</sup> among American Indians by Gender and Residence**  
**On or Off Reservation, Arizona, 2019**

| <b>Rank</b> | <b>Female, resided on reservation</b>                  | <b>Female, resided off reservation</b>                 | <b>Male, resided on reservation</b>                    | <b>Male, resided off reservation</b>                    |
|-------------|--|--|--|---|
| <b>1</b>    | <b>Cancer<br/>12.3</b>                                 | <b>Cancer<br/>15.9</b>                                 | <b>Accidents<br/>(unintentional injury)<br/>16.0</b>   | <b>Accidents<br/>(unintentional injury)<br/>16.9</b>    |
| <b>2</b>    | <b>Diseases of heart<br/>11.1</b>                      | <b>Diseases of heart<br/>12.8</b>                      | <b>Diseases of heart<br/>10.9</b>                      | <b>Cancer<br/>13.9</b>                                  |
| <b>3</b>    | <b>Diabetes<br/>10.1</b>                               | <b>Accidents<br/>(unintentional injury)<br/>12.0</b>   | <b>Cancer<br/>10.4</b>                                 | <b>Diseases of heart<br/>13.0</b>                       |
| <b>4</b>    | <b>Accidents<br/>(unintentional injury)<br/>9.2</b>    | <b>Chronic liver disease<br/>and cirrhosis<br/>8.0</b> | <b>Diabetes<br/>9.6</b>                                | <b>Chronic liver disease<br/>and cirrhosis<br/>10.3</b> |
| <b>5</b>    | <b>Chronic liver disease<br/>and cirrhosis<br/>9.2</b> | <b>Diabetes<br/>7.8</b>                                | <b>Chronic liver disease<br/>and cirrhosis<br/>7.2</b> | <b>Diabetes<br/>5.9</b>                                 |

Note: <sup>a</sup> Percent of total deaths in specified group.

**5.16**  
**Proportional Mortality<sup>a</sup> by Type of Cancer and Gender among American Indians and all Residents of Arizona, 2009-2019**

| <b>Rank</b> | <b>Arizona male<sup>b</sup></b> | <b>American Indian male</b>    | <b>Arizona female<sup>b</sup></b> | <b>American Indian female</b>  |
|-------------|---------------------------------|--------------------------------|-----------------------------------|--------------------------------|
| <b>1</b>    | Trachea, bronchus, lung<br>23.9 | Liver<br>13.7                  | Trachea, bronchus, lung<br>23.8   | Breast<br>11.7                 |
| <b>2</b>    | Lymphoma<br>10.8                | Prostate<br>11.6               | Breast<br>15.2                    | Lymphoma<br>9.3                |
| <b>3</b>    | Prostate<br>10.2                | Colon, rectum, anus<br>10.3    | Lymphoma<br>9.0                   | Liver<br>9.2                   |
| <b>4</b>    | Colon, rectum, anus<br>9.1      | Lymphoma<br>9.7                | Colon, rectum, anus<br>8.9        | Colon, rectum, anus<br>8.6     |
| <b>5</b>    | Pancreas<br>7.1                 | Kidney<br>8.0                  | Pancreas<br>7.5                   | Ovary<br>7.9                   |
| <b>6</b>    | Liver<br>5.6                    | Trachea, bronchus, lung<br>7.8 | Ovary<br>5.7                      | Pancreas<br>7.6                |
| <b>7</b>    | Leukemia<br>4.6                 | Stomach<br>7.2                 | Leukemia<br>3.7                   | Trachea, bronchus, lung<br>7.2 |
| <b>8</b>    | Esophagus<br>4.1                | Pancreas<br>6.5                | Liver<br>3.3                      | Corpus uteri and uterus<br>5.4 |
| <b>9</b>    | Bladder<br>4.0                  | Esophagus<br>3.6               | Non-Hodgkin's lymphoma<br>3.2     | Stomach<br>4.7                 |
| <b>10</b>   | Non-Hodgkin's lymphoma<br>3.7   | Leukemia<br>3.5                | Corpus uteri and uterus<br>3.1    | Kidney<br>4.3                  |

Notes: <sup>a</sup> Percent of cancer deaths in specified group in 2009-2019.  
<sup>b</sup> All race/ethnic groups combined.  
Source: Table 5-18 for percentages based on frequency counts.

**5.17**  
**Proportional Mortality<sup>a</sup> by Mechanism of Unintentional Injury and Gender among**  
**American Indians and all Residents of Arizona, 2009-2019**

| <b>Rank</b> | <b>Arizona male<sup>b</sup></b>          | <b>American Indian male</b>            | <b>Arizona female<sup>b</sup></b>        | <b>American Indian female</b>            |
|-------------|--|--|--|--|
| <b>1</b>    | <b>Poisoning by drugs<br/>31.3</b>       | <b>Motor vehicle-related<br/>40.0</b>  | <b>Falls<br/>38.2</b>                    | <b>Motor vehicle-related<br/>45.6</b>    |
| <b>2</b>    | <b>Motor vehicle accidents<br/>27.6</b>  | <b>Poisoning by gases<br/>17.0</b>     | <b>Poisoning by drugs<br/>27.3</b>       | <b>Poisoning by drugs<br/>15.0</b>       |
| <b>3</b>    | <b>Falls<br/>20.5</b>                    | <b>Poisoning by drugs<br/>13.7</b>     | <b>Motor vehicle-related<br/>19.4</b>    | <b>Falls<br/>13.8</b>                    |
| <b>4</b>    | <b>Poisoning by gases<br/>3.7</b>        | <b>Falls<br/>7.8</b>                   | <b>Misadventures to patients<br/>2.2</b> | <b>Poisoning by gases<br/>9.6</b>        |
| <b>5</b>    | <b>Accidental drowning<br/>3.0</b>       | <b>Exposure to cold<br/>4.2</b>        | <b>Accidental drowning<br/>2.0</b>       | <b>Exposure to cold<br/>2.2</b>          |
| <b>6</b>    | <b>Exposure to heat<br/>2.2</b>          | <b>Accidental drowning<br/>2.8</b>     | <b>Poisoning by gases<br/>1.9</b>        | <b>Accidental drowning<br/>2.0</b>       |
| <b>7</b>    | <b>Misadventures to patients<br/>1.3</b> | <b>Exposure to heat<br/>1.7</b>        | <b>Exposure to heat<br/>1.6</b>          | <b>Misadventures to patients<br/>2.0</b> |
| <b>8</b>    | <b>Choked on other objects<br/>1.3</b>   | <b>Mechanical suffocation<br/>1.6</b>  | <b>Choked on other objects<br/>1.5</b>   | <b>Exposure to heat<br/>1.9</b>          |
| <b>9</b>    | <b>Fire, flames, smoke<br/>1.1</b>       | <b>Fire, flames, smoke<br/>1.4</b>     | <b>Choked on food<br/>1.2</b>            | <b>Fire, flames, smoke<br/>1.5</b>       |
| <b>10</b>   | <b>Choked on food<br/>1.0</b>            | <b>Choked on other objects<br/>1.2</b> | <b>Fire, flames, smoke<br/>1.1</b>       | <b>Mechanical suffocation<br/>1.5</b>    |

Notes: <sup>a</sup> Percent of unintentional injury deaths in specified group in 2009-2019.

<sup>b</sup> 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<sup>a</sup> OF ARIZONA, 2009-2019**

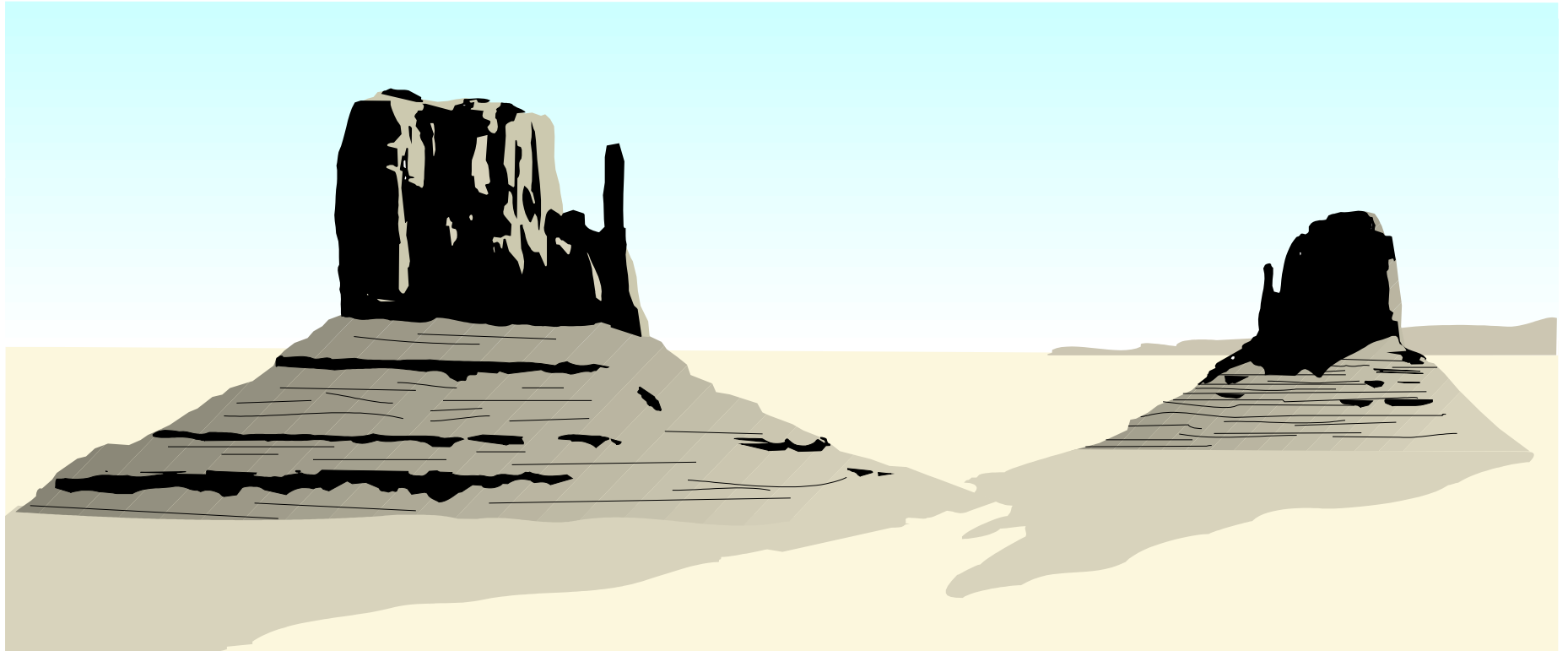
|  | ALL RESIDENTS OF ARIZONA |        |        | AMERICAN INDIANS OR ALASKA NATIVES |       |        |
|--|--------------------------|--------|--------|------------------------------------|-------|--------|
|  | TOTAL                    | MALE   | FEMALE | TOTAL                              | MALE  | FEMALE |
| <b>Malignant neoplasms, total</b>  | 123,700                  | 66,921 | 56,777 | 2,659                              | 1,316 | 1,343  |
| <b>Malignant neoplasm of lip, oral cavity and pharynx</b>                              | 1,719                    | 1,259  | 460    | 27                                 | 17    | 10     |
| <b>Malignant neoplasm of esophagus</b>   | 3,368                    | 2,722  | 646    | 70                                 | 48    | 22     |
| <b>Malignant neoplasm of stomach</b>   | 2,283                    | 1,349  | 934    | 158                                | 95    | 63     |
| <b>Malignant neoplasm of colon, rectum and anus</b>                                    | 11,114                   | 6,067  | 5,046  | 252                                | 136   | 116    |
| <b>Malignant neoplasm of liver and intrahepatic bile ducts</b>                         | 5,607                    | 3,746  | 1,861  | 303                                | 180   | 123    |
| <b>Malignant neoplasm of pancreas</b>  | 9,011                    | 4,767  | 4,244  | 188                                | 86    | 102    |
| <b>Malignant neoplasm of larynx</b>  | 668                      | 535    | 133    | 10†                                | 7     | *      |
| <b>Malignant neoplasm of trachea, bronchus and lung</b>                                | 29,555                   | 16,023 | 13,532 | 200                                | 103   | 97     |
| <b>Malignant melanoma of skin</b>  | 2,266                    | 1,534  | 732    | 10†                                | 7     | *      |
| <b>Malignant neoplasm of breast</b>  | 8,729                    | 87     | 8,642  | 157                                | 0     | 157    |
| <b>Malignant neoplasm of cervix uteri</b>  | 844                      | 0      | 844    | 33                                 | 0     | 33     |
| <b>Malignant neoplasm of corpus uteri and uterus, part unspecified</b>                 | 1,783                    | 0      | 1,783  | 73                                 | 0     | 73     |
| <b>Malignant neoplasm of ovary</b>   | 3,210                    | 0      | 3,210  | 106                                | 0     | 106    |
| <b>Malignant neoplasm of prostate</b>  | 6,815                    | 6,815  | 0      | 153                                | 153   | 0      |
| <b>Malignant neoplasm of kidney and renal pelvis</b>                                   | 3,172                    | 2,144  | 1,028  | 163                                | 105   | 58     |
| <b>Malignant neoplasm of bladder</b>   | 3,584                    | 2,684  | 899    | 20                                 | 13    | 7      |
| <b>Malignant neoplasm of meninges, brain and other parts of central nervous system</b> | 3,566                    | 2,016  | 1,550  | 48                                 | 29    | 19     |
| <b>Malignant neoplasm of lymphoid, hematopoietic and related tissue</b>                | 12,340                   | 7,205  | 5,135  | 252                                | 127   | 125    |
| <b>Hodgkin's disease</b>   | 239                      | 136    | 103    | 0†                                 | *     | *      |
| <b>Non-Hodgkin's lymphoma</b>  | 4,309                    | 2,468  | 1,841  | 79                                 | 42    | 37     |
| <b>Leukemia</b>  | 5,159                    | 3,059  | 2,100  | 90                                 | 46    | 44     |
| <b>Multiple myeloma and immunoproliferative neoplasms</b>                              | 2,611                    | 1,528  | 1,083  | 79                                 | 37    | 42     |
| <b>Other and unspecified malignant neoplasms of lymphoid tissue</b>                    | 22                       | 14     | 8      | 0                                  | 0     | 0      |
| <b>All other and unspecified malignant neoplasms</b>                                   | 14,066                   | 7,971  | 6,095  | 435                                | 210   | 225    |

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; <sup>a</sup> All racial/ethnic groups combined.

**5.19**  
**UNINTENTIONAL INJURY DEATHS BY MECHANISM AND GENDER AMONG AMERICAN INDIANS AND**  
**ALL RESIDENTS<sup>a</sup> OF ARIZONA, 2009-2019**

|   | ALL RESIDENTS OF ARIZONA |        |        | AMERICAN INDIANS OR ALASKA NATIVES |       |        |
|---|--------------------------|--------|--------|------------------------------------|-------|--------|
|   | TOTAL                    | MALE   | FEMALE | TOTAL                              | MALE  | FEMALE |
| <b>Unintentional injury, total</b>                            | 37,752                   | 23,909 | 13,843 | 3,502                              | 2,480 | 1,022  |
| <b>Railway accidents</b>                                      | 91                       | 77     | 14     | 33                                 | 27    | 6      |
| <b>Motor vehicle accidents</b>                                | 9,288                    | 6,601  | 2,687  | 1,457                              | 991   | 466    |
| <b>Water transport accident</b>                               | 40†                      | 30     | *      | 0†                                 | *     | 0      |
| <b>Accident involving aircraft</b>                            | 136                      | 110    | 26     | 0†                                 | *     | 0      |
| <b>Poisoning by drugs/medicaments</b>                         | 11,273                   | 7,488  | 3,785  | 492                                | 339   | 153    |
| <b>Poisoning by gases and vapors</b>                          | 1,161                    | 894    | 267    | 520                                | 422   | 98     |
| <b>Falls</b>  | 10,194                   | 4,909  | 5,285  | 334                                | 193   | 141    |
| <b>Fire, flames, smoke</b>                                    | 412                      | 262    | 150    | 49                                 | 34    | 15     |
| <b>Excessive natural heat</b>                                 | 748                      | 528    | 220    | 62                                 | 43    | 19     |
| <b>Excessive natural cold</b>                                 | 236                      | 182    | 54     | 125                                | 103   | 22     |
| <b>Contact with venomous snakes and lizards</b>               | 9                        | 9      | 0      | 0†                                 | *     | 0      |
| <b>Contact with venomous spiders</b>                          | 0†                       | 0      | *      | 0                                  | 0     | 0      |
| <b>Contact with scorpions</b>                                 | 0†                       | *      | 0      | 0                                  | 0     | 0      |
| <b>Contact with hornets, wasps, bees</b>                      | 15                       | 15     | 0      | 0†                                 | *     | 0      |
| <b>Bitten or struck by dog</b>                                | 17                       | 9      | 8      | 10†                                | *     | *      |
| <b>Lightning</b>  | 10†                      | 9      | *      | 0†                                 | *     | 0      |
| <b>Storms and floods</b>                                      | 17                       | 10     | 7      | 0                                  | 0     | 0      |
| <b>Accidental drowning and submersion</b>                     | 988                      | 718    | 270    | 90                                 | 70    | 20     |
| <b>Choked on food</b>   | 399                      | 233    | 166    | 20†                                | 16    | *      |
| <b>Choked on other objects</b>                                | 506                      | 303    | 203    | 40                                 | 29    | 11     |
| <b>Mechanical suffocation</b>                                 | 335                      | 224    | 111    | 54                                 | 39    | 15     |
| <b>Accidental discharge of firearms</b>                       | 87                       | 79     | 8      | 13                                 | 13    | 0      |
| <b>Exposure to electric current</b>                           | 46                       | 46     | 0      | 0†                                 | *     | 0      |
| <b>Overexertion</b>   | 0†                       | *      | *      | 0                                  | 0     | 0      |
| <b>Adverse effects of drugs in therapeutic use</b>            | 88                       | 34     | 54     | 10†                                | *     | 0      |
| <b>Misadventures to patients during medical/surgical care</b> | 618                      | 315    | 303    | 33                                 | 13    | 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; <sup>a</sup> 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, breathes 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 20<sup>th</sup> 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 surfaceactive 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 ecchymosis 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 | 2019 population of American Indians | 2019 deaths among American Indians | Age-specific rates for American Indians in 2019 | 2000 standard | Age-adjusted rate for American Indians in 2019 |
|-----------|-------------------------------------|------------------------------------|---|---------------|--|
| A         | B                                   | C                                  | D   | E             | F  |
|           |                                     |                                    | (C/B)*100000                                    |               | D*E  |
| <1        | 4,191                               | 31                                 | 739.7   | 0.013818      | 10.2   |
| 1-4       | 17,906                              | 9                                  | 50.3  | 0.055317      | 2.8  |
| 5-14      | 50,105                              | 16                                 | 31.9  | 0.145565      | 4.6  |
| 15-24     | 47,581                              | 83                                 | 174.4   | 0.138646      | 24.2   |
| 25-34     | 49,619                              | 236                                | 475.6   | 0.135573      | 64.5   |
| 35-44     | 36,850                              | 282                                | 765.3   | 0.162613      | 124.4  |
| 45-54     | 33,315                              | 341                                | 1023.6  | 0.134834      | 138.0  |
| 55-64     | 30,249                              | 430                                | 1421.5  | 0.087247      | 124.0  |
| 65-74     | 18,160                              | 438                                | 2411.9  | 0.066037      | 159.3  |
| 75-84     | 8,337                               | 400                                | 4797.9  | 0.044842      | 215.1  |
| 85+       | 2,810                               | 333                                | 11850.5   | 0.015508      | 183.8  |
|           | 299,123                             | 2,599                              |   | TOTAL         | 1051.0   |

**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.

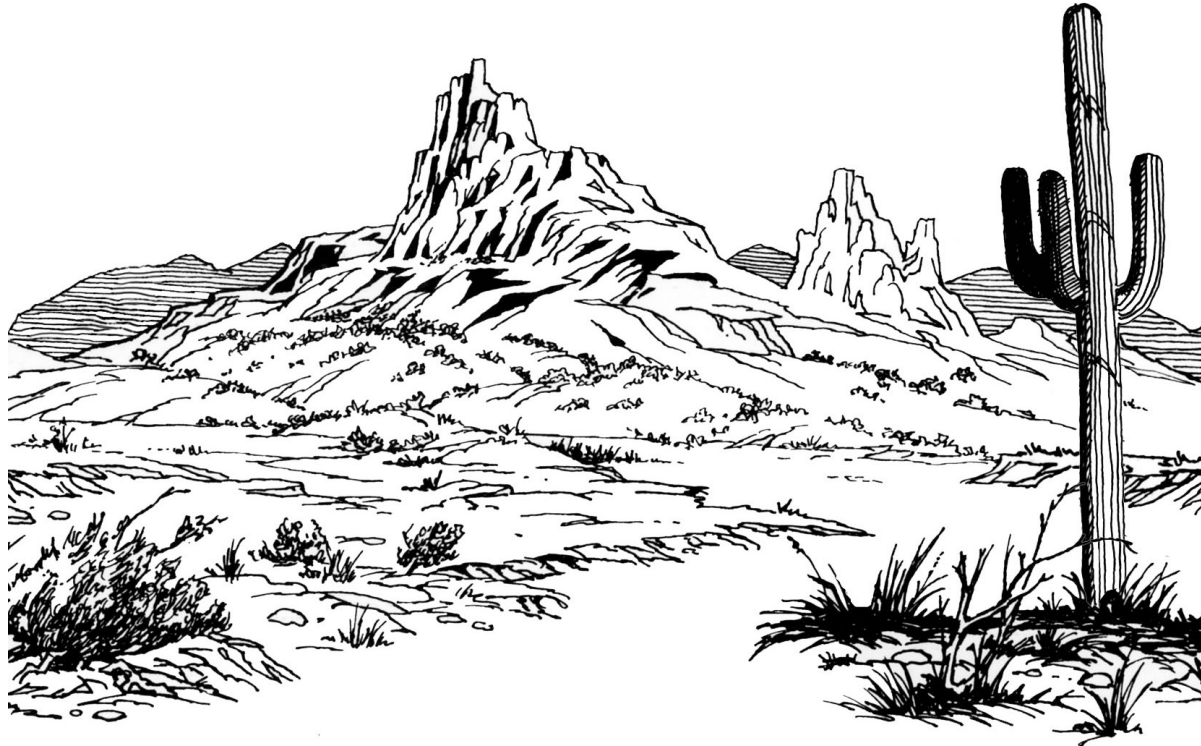
**Classification of causes of death** - The cause of death used in this report is the underlying cause classified according to the *International Classification of Diseases (ICD)*. Beginning with the 2000 data year in Arizona (1999 nationally), a new revision of the International Classification of Diseases 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**