

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



ARIZONA DEPARTMENT  
OF HEALTH SERVICES

## **2021 Data Book**

~ Health and Wellness for all Arizonans ~



**Katie Hobbs, Governor  
State of Arizona**

**Jennie Cunico, Director  
Arizona Department of Health Services**

**ARIZONA DEPARTMENT OF HEALTH SERVICES  
BUSINESS INTELLIGENCE OFFICE  
VITAL STATISTICS PROGRAM  
150 North 18th Avenue, Suite 550  
Phoenix, Arizona 85007  
[pub.azdhs.gov/health-stats](http://pub.azdhs.gov/health-stats)**

**This publication can be made available in alternative format**

**Please contact the Vital Statistics Program at  
[vitalstats@azdhs.gov](mailto:vitalstats@azdhs.gov)**

***The Arizona Department of Health Services is  
an Equal Employment Opportunity Agency.***

***Permission to quote from or reproduce materials from this  
publication is granted when due acknowledgment is made.***

# **HEALTH STATUS PROFILE OF AMERICAN INDIANS IN ARIZONA: 2021 DATA BOOK**

by

**Matthew Roach, MPH, Vital Statistics Manager  
Yan Huang, M.S., Data Analyst  
Clare Torres, Senior Health Data Analyst**

**January 2024**



# HEALTH STATUS PROFILE OF AMERICAN INDIANS IN ARIZONA 2021 DATA BOOK

## TABLE OF CONTENTS

Introduction.....	1
<b>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 2021 .....</b>	<b>3</b>
2021 Risk Profile of American Indians.....	7
American Indians' Standing in Arizona in 2021 on 66 Indicators of Health Status.....	8
<b>II COMPARISON OF AMERICAN INDIANS' STANDING IN ARIZONA WITH RESPECT TO SELECTED HEALTH OBJECTIVES FOR THE YEAR 2021.....</b>	<b>13</b>
<b>III. TRENDS IN SELECTED HEALTH PROBLEMS AND HEALTH RISKS AMONG AMERICAN INDIANS AND ALL RESIDENTS OF ARIZONA, 2011-2021 .....</b>	<b>15</b>
<b>IV. CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND MOTHERS GIVING BIRTH BY PLACE OF RESIDENCE IN ARIZONA IN 2021 .....</b>	<b>17</b>
<b>SOCIODEMOGRAPHIC CHARACTERISTICS</b>	
4.1 Maternal Age.....	20
4.2 Educational Attainment of Mother .....	21
4.3 Marital Status of Mother.....	22
4.4 Race/Ethnicity of Father.....	23
4.5 Age of Father .....	24
4.6 Source of Payment for Labor and Delivery.....	25
<b>MATERNAL LIFESTYLE AND HEALTH CHARACTERISTICS</b>	
4.7 Maternal Weight Gain during Pregnancy.....	28
4.8 Medical Risk Factors of Pregnancy .....	29
4.9 Smoking during Pregnancy.....	30
<b>UTILIZATION OF MEDICAL SERVICES</b>	
4.10 Trimester of Pregnancy Prenatal Care Began .....	32
4.11 Number of Prenatal Visits.....	33
4.12 Obstetric Procedures .....	34
4.13 Complications of Labor and Delivery .....	35
4.14 Method of Delivery .....	36
4.15 Attendant at Birth .....	37
<b>NEWBORN'S HEALTH</b>	
4.16 Gestational Age .....	40
4.17 Weight at Birth .....	41
4.18 Abnormal Conditions of the Newborn.....	42
4.19 Congenital Anomalies (Birth Defects).....	43
4.20 Causes of Infant Deaths among American Indian Residents, Arizona, 2021 .....	44
4.21 Comparison of Selected Characteristics of American Indian Newborns and Women Giving Birth By County of Residence, Arizona, 2021 .....	45

<b>V.</b>	<b>PATTERNS OF MORTALITY AMONG AMERICAN INDIANS BY PLACE OF RESIDENCE IN ARIZONA IN 2021</b>	49
	<b>AGE-SPECIFIC MORTALITY</b>	
5.1	Age-Specific Mortality among American Indians in 2021	52
5.2	Age-Specific Mortality among American Indian Males in 2021	53
5.3	Age-Specific Mortality among American Indian Females in 2021	54
	<b>CAUSE-SPECIFIC MORTALITY</b>	
5.4	Deaths by Gender for Selected <b>Causes</b> among American Indians in 2021	56
5.5	Deaths by Age Group for Selected <b>Causes</b> among American Indians in 2021	60
5.6	Deaths by Residence for Selected <b>Causes</b> among American Indians in 2021	64
5.7	Deaths by County of Residence for Selected <b>Causes</b> among American Indians in 2021	68
5.8	Deaths from <b>Motor Vehicle Injuries</b> among American Indians by Place of Residence, Gender, and Age Group, Arizona, 2021	72
5.9	<b>Intentional Self-Harm</b> (Suicide) among American Indians by Place of Residence, Gender, and Age Group, Arizona, 2021	73
5.10	<b>Assault</b> (Homicide) among American Indians by Place of Residence, Gender, and Age Group, Arizona, 2021	74
5.11	<b>Diabetes-Related Deaths</b> among American Indians by Place of Residence, Gender, and Age Group, Arizona, 2021	75
5.12	<b>Alcohol-Induced Deaths</b> among American Indians by Place of Residence, Gender, and Age Group, Arizona, 2021	76
	<b>COMPARATIVE CAUSE-SPECIFIC MORTALITY</b>	
5.13	Temporal Changes in the Selected Leading Causes of Death among American Indian Residents of Arizona, 2001-2021	78
5.14	Five Leading Causes of Death by Gender among American Indian Residents of Arizona in 2021	79
5.15	Five Leading Causes of Death among American Indians by Gender and Residence on or off Reservation, Arizona, 2021	80
5.16	Proportional Mortality by Type of Cancer and Gender among American Indians and All Residents of Arizona, 2011-2021	81
5.17	Proportional Mortality by Mechanism of Unintentional Injury and Gender among American Indians and All Residents of Arizona, 2011-2021	82
5.18	Comparison of Mortality by Specific Type of Cancer by Gender among American Indians and All residents of Arizona, 2011-2021	83
5.19	Unintentional Injury Deaths by mechanism and Gender among American Indians and All Residents of Arizona, 2011-2021	84
	<b>TECHNICAL NOTES</b>	85
	Sources of Data	87
	Definitions	87
	Rates	87
	Terms Related to Reproductive Health	87
	Medical Terms Used on the Birth Certificate	87
	Medical risk factors for pregnancy	87
	Complications of labor and delivery	87
	Abnormal conditions of the newborn	88
	Congenital anomalies of child	88
	Terms Related to Mortality	89

## INTRODUCTION

The report *Health Status Profile of American Indians in Arizona: 2021 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 2021.

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 2021 *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 2021 on 66 indicators or measures of health status,
- 2) a comparison of American Indians' standing in Arizona with respect to selected health objectives for the years 2020 and 2030,
- 3) a section presenting trend data for 2011-2021 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 2021. 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 2011-2021 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 2021 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: 2021 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 1998–2021 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 2021**



The risk profile presented on the following page summarizes how American Indians as a group compared in 2021 to the state average on 66 measures of health status. The 66 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 66 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 2021, AMERICAN INDIAN RESIDENTS OF ARIZONA:**

- **ranked better than average on a number of health indicators including: mortality rates for several chronic diseases including breast cancer, lung cancer, chronic lower respiratory disease, Alzheimer's disease, malignant neoplasms, and prostate cancer;**
- **ranked worse than the statewide average on 53 of 66 health indicators;**
- **had high mortality from alcohol-induced causes, chronic liver disease and cirrhosis, COVID-19, septicemia, diabetes, assault, influenza and pneumonia, motor vehicle accidents, early syphilis, and unintentional injuries;**
- **ranked worse on measures of maternal lifestyle and health, as well as in utilization of prenatal care;**
- **on average were 15 years younger at time of death compared to all racial/ethnic groups.**

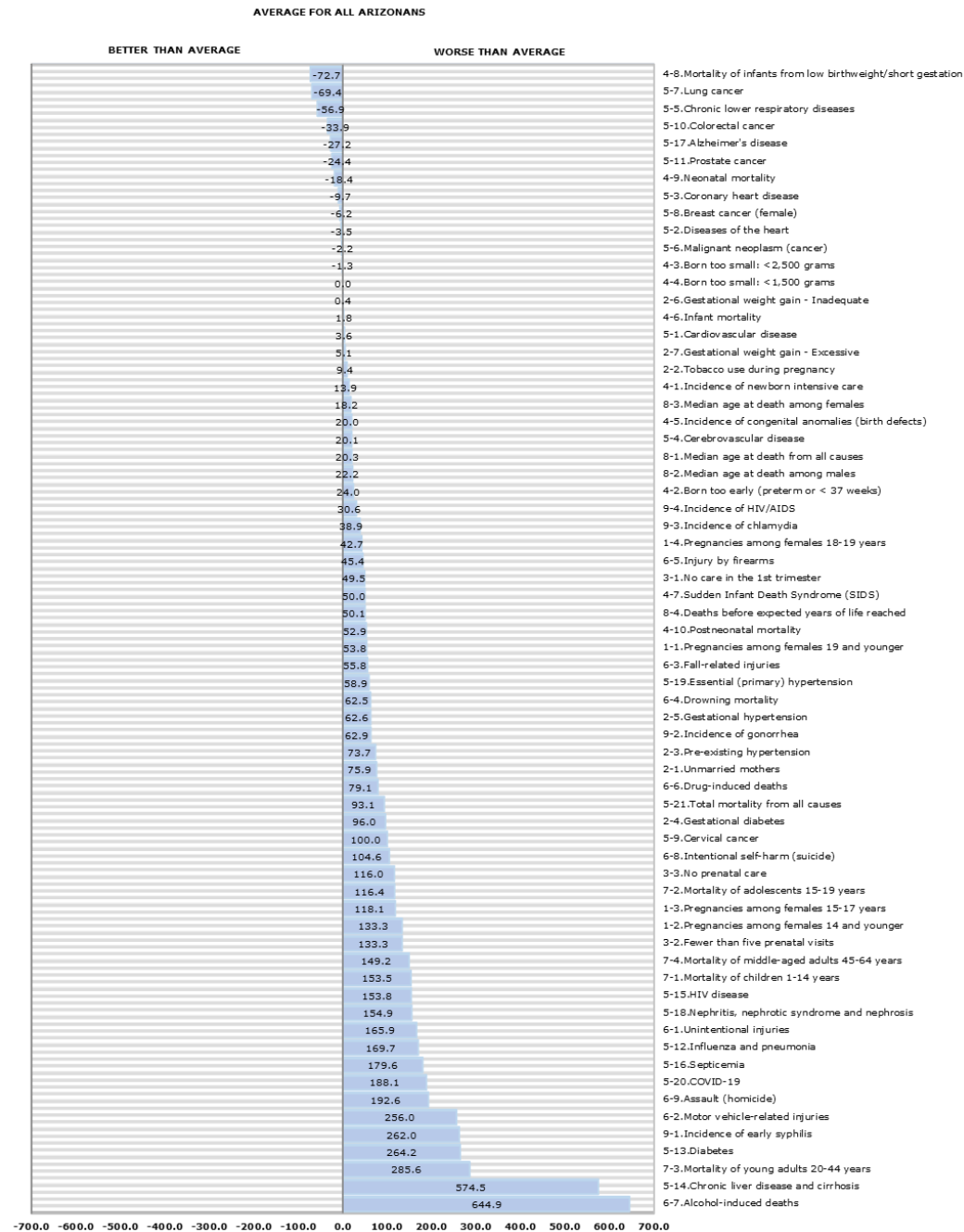
\* The comparative risk profiles for American Indian or Alaska Native, White non-Hispanic, Hispanic or Latino, Black or African American, and Asian or Pacific Islander residents of Arizona were developed for a report "***Differences in the Health Status among Racial/Ethnic Groups***". This publication 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.



# 2021 RISK PROFILE OF AMERICAN INDIANS

(Percent above or below the average rate or ratio of all Arizona residents in 2021)



## AMERICAN INDIANS' STANDING IN ARIZONA IN 2021 ON 66 INDICATORS OF HEALTH STATUS

### 1. TEEN PREGNANCIES

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

Figure Number	Indicator	2021 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2021	Definitions
1-1	Pregnancies among females 19 and younger	16.3	<b>53.8</b>	10.6	The sum of live births, fetal deaths, and abortions per 1,000 females aged 19 or younger.
1-2	Pregnancies among females 14 and younger	0.7	<b>133.3</b>	0.3	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	18.1	<b>118.1</b>	8.3	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	56.1	<b>42.7</b>	39.3	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	2021 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2021	Definitions
2-1	Unmarried mothers	79.5	<b>75.9</b>	45.2	The number of births to unmarried mothers per 100 births.
2-2	Tobacco use during pregnancy	3.5	<b>9.4</b>	3.2	The number of mothers giving birth who self-reported tobacco use during pregnancy per 100 births.
2-3	Pre-existing hypertension	3.3	<b>73.7</b>	1.9	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	19.4	<b>96.0</b>	9.9	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	14.8	<b>62.6</b>	9.1	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	22.4	<b>0.4</b>	22.3	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	49.4	<b>5.1</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 2021 ON 66 INDICATORS OF HEALTH STATUS (continued)

### 3. UTILIZATION OF PRENATAL CARE SERVICES

(Per 100 live births)

Figure Number	Indicator	2021 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2021	Definitions
3-1	No care in the 1 <sup>st</sup> trimester	42.3	<b>49.5</b>	28.3	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	16.8	<b>133.3</b>	7.2	The number of mothers giving birth who had fewer than five prenatal visits during pregnancy per 100 births.
3-3	No prenatal care	5.4	<b>116.0</b>	2.5	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	2021 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2021	Definitions
4-1	Incidence of newborn intensive care	9.0	<b>13.9</b>	7.9	The number of babies admitted to Newborn Intensive Care units per 100 births.
4-2	Born too early (preterm or < 37 weeks)	12.4	<b>24.0</b>	10.0	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)	7.8	<b>-1.3</b>	7.9	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>0.0</b>	1.3	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)	0.6	<b>20.0</b>	0.5	The numbers of babies born with birth defects per 100 births.
4-6	Infant mortality	5.6	<b>1.8</b>	5.5	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)	0.3	<b>50.0</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	0.3	<b>-72.7</b>	1.1	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>-18.4</b>	3.8	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	2.6	<b>52.9</b>	1.7	The number of postneonatal deaths per 1,000 live births. Postneonatal death is any death of a liveborn infant at least 28 days of age but less than one year of age.

## AMERICAN INDIANS' STANDING IN ARIZONA IN 2021 ON 66 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	2021 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2021	Definitions
5-1	Cardiovascular disease	210.8	<b>3.6</b>	203.4	The number of deaths from cardiovascular diseases (ICD-10 codes I00-I78) per 100,000 age-adjusted population.
5-2	Diseases of the heart	145.9	<b>-3.5</b>	151.2	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	97.6	<b>-9.7</b>	108.1	The number of deaths from coronary heart disease (ICD-10 codes I200-I259) per 100,000 age-adjusted population.
5-4	Cerebrovascular disease	41.3	<b>20.1</b>	34.4	The number of deaths from cerebrovascular disease (ICD-10 codes I60-I69) per 100,000 age-adjusted population.
5-5	Chronic lower respiratory diseases	15.2	<b>-56.9</b>	35.3	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)	128.9	<b>-2.2</b>	131.8	The number of deaths from cancer (ICD-10 codes C00-C97) per 100,000 age-adjusted population.
5-7	Lung cancer	7.9	<b>-69.4</b>	25.8	The number of deaths from lung cancer (ICD-10 codes C33-C34) per 100,000 age-adjusted population.
5-8	Breast cancer	18.3	<b>-6.2</b>	19.5	The number of deaths from breast cancer (ICD-10 code C50) per 100,000 age-adjusted female population.
5-9	Cervical cancer	5.0	<b>100.0</b>	2.5	The number of deaths from cervical cancer (ICD-10 code C53) per 100,000 age-adjusted female population.
5-10	Colorectal cancer	8.2	<b>-33.9</b>	12.4	The number of deaths from colorectal cancer (ICD-10 codes C18-C21) per 100,000 age-adjusted population.
5-11	Prostate cancer	13.0	<b>-24.4</b>	17.2	The number of deaths from prostate cancer (ICD-10 code C61) per 100,000 age-adjusted male population.
5-12	Influenza and pneumonia	26.7	<b>169.7</b>	9.9	The number of deaths from influenza and pneumonia (ICD-10 codes J10-J18) per 100,000 age-adjusted population.
5-13	Diabetes	97.6	<b>264.2</b>	26.8	The number of deaths from diabetes (ICD-10 codes E10-E14) per 100,000 age-adjusted population.
5-14	Chronic liver disease and cirrhosis	145.7	<b>574.5</b>	21.6	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	3.3	<b>153.8</b>	1.3	The number of deaths from HIV disease (ICD-10 codes B20-B24) per 100,000 age-adjusted population.
5-16	Septicemia	15.1	<b>179.6</b>	5.4	The number of deaths from septicemia (ICD-10 codes A40-A41) per 100,000 age-adjusted population.
5-17	Alzheimer's disease	20.6	<b>-27.2</b>	28.3	The number of deaths from Alzheimer's disease (ICD-10 code G30) per 100,000 age-adjusted population.
5-18	Nephritis, nephrotic syndrome and nephrosis (kidney disease)	23.2	<b>154.9</b>	9.1	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	19.7	<b>58.9</b>	12.4	The number of deaths from essential (primary) hypertension (ICD-10 codes I10, I12) per 100,000 age-adjusted population.
5-20	COVID-19	394.4	<b>188.1</b>	136.9	The number of deaths from COVID-19 (ICD-10 code U071) per 100,000 age-adjusted population.
5-21	Total mortality from all causes	1704.7	<b>93.1</b>	882.6	Total number of deaths from all causes per 100,000 age-adjusted population.



## AMERICAN INDIANS' STANDING IN ARIZONA IN 2021 ON 66 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	2021 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2021	Definitions
6-1	Unintentional injuries	206.9	<b>165.9</b>	77.8	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	65.5	<b>256.0</b>	18.4	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	18.7	<b>55.8</b>	12.0	The number of deaths from fall-related injuries (ICD-10 codes W00–W19) per 100,000 age-adjusted population.
6-4	Drowning mortality	2.6	<b>62.5</b>	1.6	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	26.6	<b>45.4</b>	18.3	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	72.7	<b>79.1</b>	40.6	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	181.0	<b>644.9</b>	24.3	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)	39.7	<b>104.6</b>	19.4	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)	23.7	<b>192.6</b>	8.1	The number of deaths due to assault (homicide; ICD-10 codes X85–X09, Y87.1) per 100,000 age-adjusted population.

## AMERICAN INDIANS' STANDING IN ARIZONA IN 2021 ON 66 INDICATORS OF HEALTH STATUS (continued)

### 7. PREMATURE MORTALITY

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

Figure Number	Indicator	2021 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2021	Definitions
7-1	Mortality of children 1-14 years old	50.2	153.5	19.8	The number of deaths per 100,000 children 1-14 years old.
7-2	Mortality of adolescents 15-19 years old	181.1	116.4	83.7	The number of deaths per 100,000 adolescents 15-19 years old.
7-3	Mortality of young adults 20-44 years old	1012.5	285.6	262.6	The number of deaths per 100,000 young adults 20-44 years old.
7-4	Mortality of middle-aged adults 45-64 years old	2322.8	149.2	932.1	The number of deaths per 100,000 middle-aged adults 45-64 years old.

### 8. AGE-SPECIFIC MORTALITY

Figure Number	Indicator	2021 rate for American Indians	Percent above or below the average rate for all groups*	Average rate for all groups in 2021	Definitions
8-1	Median age at death from all causes	59.0	20.3	74.0	The median age (the age in the middle) of Arizonans who died in 2021.
8-2	Median age at death from all causes among males	56.0	22.2	72.0	The median age (the age in the middle) of Arizona males who died in 2021.
8-3	Median age at death from all causes among females	63.0	18.2	77.0	The median age (the age in the middle) of Arizona females who died in 2021.
8-4	Percent of total deaths before expected years of life reached	79.1	50.1	52.7	The number of deaths before reaching 78.8 years (the life expectancy of all U.S. residents in 2021) 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	2021 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2021	Definitions
9-1	Incidence of early syphilis	171.6	262.0	47.4	Number of reported cases of early syphilis per 100,000 population.
9-2	Incidence of gonorrhea	412.4	62.9	253.2	Number of reported cases of gonorrhea per 100,000 population.
9-3	Incidence of chlamydia	791.8	38.9	569.9	Number of reported cases of chlamydia per 100,000 population.
9-4	Incidence of HIV/AIDS	14.5	30.6	11.1	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 2021**

**COMPARISON OF AMERICAN INDIANS' STANDING IN ARIZONA WITH RESPECT TO  
SELECTED HEALTH OBJECTIVES FOR THE YEAR 2021**

Healthy People 2020 and 2030 Objectives														
2.1	Increase the proportion of pregnant women who receive prenatal care in the first trimester													
2.2	Reduce the rate of infant deaths (HP-MICH-02)													
2.3	Reduce postneonatal deaths													
2.4	Reduce unintentional injury deaths (HP-IVP-03)													
2.5	Reduce deaths caused by motor vehicle crashes (HP-IVP-06)													
2.6	Reduce the suicide rate (HP-MHMD-01)													
2.7	Reduce homicides (HP-IVP-09)													
2.8	Reduce the diabetes-related death rate													
2.9	Reduce cirrhosis deaths (HP-SU-02)													
2.10	Reduce the death rate from cancer of the uterine cervix													
Indicator		Objectives		Year										
		2020	2030	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
2.1	Percent of American Indian women who received early prenatal care in the first trimester	77.9	77.9	68.6	68.2	68.7	58.4	58.5	60.7	59.4	56.5	57.4	57.1	57.7
2.2	Number of infant deaths per 1,000 American Indian live births (5 per 1,000)	6.0	5.0	7.4	7.4	6.6	8.7	7.8	8.3	9.5	9.3	6.9	8.1	5.6
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 (2.0 per 1000)	2.0	2.0	4.1	3.6	2.9	3.7	4.6	4.2	5.3	4.0	3.8	4.9	2.6
2.4	Number of unintentional injury deaths per 100,000 American Indian population <sup>a</sup> (43.2 per 100,000)	36.0	43.2	100.6	94.8	104.5	85.4	139.0	139.1	142.0	144.5	129.4	180.1	206.9
2.5	Number of deaths caused by motor vehicle crashes per 100,000 American Indian population <sup>a</sup> (10.1 per 100,000)	12.4	10.1	44.2	37.8	31.7	35.6	54.3	52.2	54.0	60.7	36.7	44.7	65.5
2.6	Number of suicides per 100,000 American Indian population <sup>a</sup> (12.8 per 100,000)	10.2	12.8	14.9	17.9	21.9	13.9	19.0	24.2	26.2	36.5	26.8	28.0	39.7
2.7	Number of homicides per 100,000 American Indian population <sup>a</sup> (5.5 per 100,000)	5.5	5.5	11.9	17.3	17.7	7.3	15.7	17.6	17.9	17.9	20.3	28.4	23.7
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> (65.8 per 100,000)	65.8	65.8	105.3	155.7	146.4	129.5	171.0	175.3	192.8	171.3	179.6	350.4	300.7
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> (10.9 per 100,000)	8.2	10.9	43.6	59.2	62.0	52.7	77.6	85.9	74.0	88.8	82.7	103.2	145.7
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> (2.2 per 100,000)	2.2	2.2	3.1	2.8	2.0	0.0	1.9	1.9	1.8	2.2	1.5	2.3	5.0

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**

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b><i>Median Age at Death from all Causes</i></b>											
All Arizonans	77.0	77.0	77.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	74.0
American Indians	60.0	60.0	60.0	61.0	60.0	60.0	61.0	60.0	62.0	62.0	59.0
<b><i>Births to Unmarried Mothers<sup>a</sup></i></b>											
All Arizonans	44.3	45.2	45.1	44.7	45.3	44.8	44.4	44.6	45.0	45.0	45.2
American Indians	77.1	78.5	79.2	78.9	79.6	78.1	77.9	78.9	78.4	78.7	79.5
<b><i>Incidence of Gonorrhea<sup>b</sup></i></b>											
All Arizonans	71.4	89.4	98.2	112.7	121.1	151.3	180.5	182.3	212.1	225.5	253.2
American Indians	162.8	185.7	224.6	206.5	183.1	229.0	287.7	387.4	359.7	399.8	412.4
<b><i>Low-Birthweight Births<sup>a</sup></i></b>											
All Arizonans	7.0	6.9	6.9	7.0	7.2	7.3	7.5	7.6	7.4	7.4	7.9
American Indians	6.9	6.7	7.2	6.1	7.3	7.2	7.7	7.9	7.9	7.2	7.8
<b><i>Births to Teenage Mothers<sup>a</sup></i></b>											
All Arizonans	9.9	9.5	8.5	7.6	6.9	6.4	6.2	5.8	5.5	5.1	4.6
American Indians	16.9	16.0	14.2	11.7	11.4	10.7	10.7	9.8	9.2	8.4	8.8
<b><i>Congenital Anomalies (Birth Defects)<sup>a</sup></i></b>											
All Arizonans	1.1	0.8	0.7	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5
American Indians	1.4	0.9	0.8	0.8	1.0	1.2	0.8	0.9	0.7	0.6	0.6
<b><i>Gestational Hypertension<sup>c</sup></i></b>											
All Arizonans	41.9	45.2	55.8	52.4	59.9	62.4	67.4	77.1	80.0	88.7	90.6
American Indians	62.8	64.6	74.1	85.9	102.7	104.5	112.0	127.6	131.8	134.3	148.5
<b><i>Gestational Diabetes<sup>c</sup></i></b>											
All Arizonans	46.4	51.2	57.2	61.3	75.5	76.0	76.5	84.9	86.9	95.4	99.0
American Indians	93.3	99.3	111.4	121.5	144.7	146.4	148.0	172.6	173.7	188.2	194.3

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 2021**







## **SOCIODEMOGRAPHIC CHARACTERISTICS**

**4.1**  
**MATERNAL AGE (2021 STATUS)**

		TOTAL BIRTHS	Mother's age group								
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		3,910†	10†	110†	230†	960†	1,130†	930†	450†	90†	10†
Resided on reservation	Ak-Chin Indian Community	20†	*	*	*	*	*	*	0	0	0
	Cocopah Tribe	10†	0	0	0	*	*	*	*	0	0
	Colorado River Indian Tribe	20†	0	*	*	*	9	*	*	*	0
	Fort McDowell Yavapai Nation Reservation	10†	0	0	0	*	0	6	*	0	0
	Fort Mohave Indian Tribe	0†	0	0	*	0	0	*	0	0	0
	Gila River Indian Community	190†	0	6	15	49	53	41	19	*	0
	Havasupai Tribe	20†	0	0	*	*	6	*	*	0	0
	Hopi Tribe	50†	*	*	*	8	17	12	*	*	0
	Hualapai Tribe	20†	0	*	*	*	6	*	*	*	0
	Kaibab Indian Reservation	0†	0	0	0	*	0	0	0	0	0
	Navajo Nation	910†	*	28	51	197	270	217	110	34	*
	Pascua Yaqui Tribe	30†	0	*	*	6	9	6	*	0	0
	Salt River Pima-Maricopa Indian Community	70†	0	*	7	15	13	25	7	*	0
	San Carlos Apache Tribe	180†	0	8	16	50	50	47	10	*	0
	Tohono O'Odham Nation	90†	0	*	*	21	29	25	7	*	0
	White Mountain Apache Tribe	190†	0	12	8	44	55	42	25	*	0
	Yavapai-Apache Nation	10†	0	0	*	*	*	*	0	0	0
	Yavapai-Prescott Indian Tribe	0†	0	0	0	0	*	0	*	0	0
	TOTAL		1,820†	10†	70†	120†	420†	520†	450†	200†	50†
Resided off reservation	---in Maricopa County	1,120†	*	14	46	297	338	269	131	26	*
	---in Pima County	210†	0	*	13	46	60	49	33	*	0
	---in Coconino County	240†	0	6	14	64	60	59	31	*	0
	---elsewhere in Arizona	510†	*	17	35	137	144	109	59	9	*
	TOTAL		2,080†	0†	40†	108	544	602	486	254	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.

**4.2**  
**EDUCATIONAL ATTAINMENT OF MOTHER (2021 STATUS)**

		TOTAL BIRTHS	Mother's education							
			8th Grade or Less	Some High School	High School / GED	Some College	Associate Degree	Bachelor's Degree	Post- graduate Education	Un- known
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		3,910†	60†	880†	1,460†	940†	290†	190†	80†	20†
Resided on reservation	Ak-Chin Indian Community	20†	*	8	*	*	*	0	0	0
	Cocopah Tribe	10†	0	*	*	0	0	0	0	0
	Colorado River Indian Tribe	20†	0	7	8	*	0	0	0	0
	Fort McDowell Yavapai Nation Reservation	10†	0	*	*	*	*	*	0	0
	Fort Mohave Indian Tribe	0†	0	*	*	0	0	0	0	0
	Gila River Indian Community	190†	13	85	57	26	*	*	0	*
	Havasupai Tribe	20†	*	13	6	0	0	*	0	0
	Hopi Tribe	50†	*	9	17	16	*	7	0	0
	Hualapai Tribe	20†	0	8	12	*	*	0	0	0
	Kaibab Indian Reservation	0†	0	*	0	0	0	0	0	0
	Navajo Nation	910†	*	146	341	251	98	52	18	*
	Pascua Yaqui Tribe	30†	0	10	10	6	*	0	0	0
	Salt River Pima-Maricopa Indian Community	70†	*	26	25	14	*	*	0	*
	San Carlos Apache Tribe	180†	6	49	79	39	*	*	0	*
	Tohono O'Odham Nation	90†	*	35	37	10	*	*	*	0
	White Mountain Apache Tribe	190†	*	55	85	39	*	*	*	*
	Yavapai-Apache Nation	10†	0	*	6	*	0	0	0	0
	Yavapai-Prescott Indian Tribe	0†	0	*	*	0	*	*	0	0
	TOTAL		1,820†	30†	460†	700†	410†	120†	70†	20†
Resided off reservation	---in Maricopa County	1,123	18	212	406	288	98	64	30	7
	---in Pima County	210†	*	58	67	41	11	15	12	0
	---in Coconino County	238	0	36	98	63	23	14	*	0
	---elsewhere in Arizona	512	8	110	187	137	38	23	9	0
	TOTAL		2,082	30†	416	758	529	170	116	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.

**4.3**  
**MARITAL STATUS OF MOTHER (2021 STATUS)**

		TOTAL BIRTHS	Marital status		
			Married	Unmarried	Unknown
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	760†	3,110†	40†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	20†	*	11	*
	<b>Cocopah Tribe</b>	6	0	6	0
	<b>Colorado River Indian Tribe</b>	20†	*	15	0
	<b>Fort McDowell Yavapai Nation Reservation</b>	10†	*	8	0
	<b>Fort Mohave Indian Tribe</b>	0†	0	*	0
	<b>Gila River Indian Community</b>	190†	17	166	*
	<b>Havasupai Tribe</b>	21	0	21	0
	<b>Hopi Tribe</b>	50†	*	51	0
	<b>Hualapai Tribe</b>	23	6	17	0
	<b>Kaibab Indian Reservation</b>	0†	0	*	0
	<b>Navajo Nation</b>	910†	163	747	*
	<b>Pascua Yaqui Tribe</b>	30†	*	24	*
	<b>Salt River Pima-Maricopa Indian Community</b>	70†	8	61	*
	<b>San Carlos Apache Tribe</b>	183	35	148	0
	<b>Tohono O'Odham Nation</b>	90†	6	82	*
	<b>White Mountain Apache Tribe</b>	190†	39	145	*
	<b>Yavapai-Apache Nation</b>	10†	*	9	0
	<b>Yavapai-Prescott Indian Tribe</b>	0†	0	*	0
	<b>TOTAL</b>	1,820†	290†	1,520†	20†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,123	244	862	17
	<b>---in Pima County</b>	210†	45	163	*
	<b>---in Coconino County</b>	240†	49	185	*
	<b>---elsewhere in Arizona</b>	512	130	375	7
	<b>TOTAL</b>	2,082	468	1,585	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 (2021 STATUS)**

		TOTAL BIRTHS	Father's race/ethnicity				
			White non- Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	1,220†	520†	90†	2,050†	30†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	20†	*	*	0	9	0
	<b>Cocopah Tribe</b>	10†	*	*	0	*	0
	<b>Colorado River Indian Tribe</b>	20†	13	*	0	*	0
	<b>Fort McDowell Yavapai Nation Reservation</b>	10†	7	*	*	0	0
	<b>Fort Mohave Indian Tribe</b>	0†	*	0	0	0	0
	<b>Gila River Indian Community</b>	190†	57	21	*	104	*
	<b>Havasupai Tribe</b>	21	12	0	0	9	0
	<b>Hopi Tribe</b>	50†	14	0	*	39	0
	<b>Hualapai Tribe</b>	20†	*	*	0	17	0
	<b>Kaibab Indian Reservation</b>	0†	*	0	0	0	0
	<b>Navajo Nation</b>	910†	209	12	*	686	*
	<b>Pascua Yaqui Tribe</b>	27	8	8	0	11	0
	<b>Salt River Pima-Maricopa Indian Community</b>	70†	27	9	*	33	*
	<b>San Carlos Apache Tribe</b>	180†	72	*	0	107	*
	<b>Tohono O'Odham Nation</b>	90†	36	*	0	50	0
	<b>White Mountain Apache Tribe</b>	190†	27	6	*	153	0
	<b>Yavapai-Apache Nation</b>	10†	*	*	0	*	0
	<b>Yavapai-Prescott Indian Tribe</b>	0†	*	0	0	0	0
	<b>TOTAL</b>	1,820†	510†	80†	10†	1,230†	0†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,123	392	279	61	371	20
	<b>---in Pima County</b>	210†	84	55	6	63	*
	<b>---in Coconino County</b>	238	64	10	0	164	0
	<b>---elsewhere in Arizona</b>	510†	172	105	11	221	*
	<b>TOTAL</b>	2,082	712	449	78	819	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 (2021 STATUS)**

		TOTAL BIRTHS	Father's age group											
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55+	Unknown
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	0†	40†	130†	640†	810†	730†	430†	170†	60†	30†	10†	860†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	20†	0	*	*	*	*	*	*	0	0	0	0	*
	<b>Cocopah Tribe</b>	10†	0	0	0	*	0	*	0	0	0	0	0	*
	<b>Colorado River Indian Tribe</b>	20†	0	0	0	*	0	*	0	0	*	*	0	12
	<b>Fort McDowell Yavapai Nation Reservation</b>	10†	0	0	0	0	*	*	0	0	0	0	0	7
	<b>Fort Mohave Indian Tribe</b>	0†	0	0	0	0	*	*	0	0	0	0	0	*
	<b>Gila River Indian Community</b>	190†	0	*	6	36	35	28	16	*	*	*	0	51
	<b>Havasupai Tribe</b>	20†	0	0	0	*	*	*	0	*	0	0	0	12
	<b>Hopi Tribe</b>	50†	0	*	*	8	7	14	8	*	0	0	0	10
	<b>Hualapai Tribe</b>	20†	0	0	*	*	*	*	*	0	*	0	0	*
	<b>Kaibab Indian Reservation</b>	0†	0	0	0	*	0	0	0	0	0	0	0	0
	<b>Navajo Nation</b>	910†	0	6	26	138	190	197	98	43	20	7	*	183
	<b>Pascua Yaqui Tribe</b>	30†	0	0	*	*	*	*	*	0	0	0	0	7
	<b>Salt River Pima-Maricopa Indian Community</b>	70†	0	*	*	14	8	10	9	*	*	0	0	23
	<b>San Carlos Apache Tribe</b>	180†	0	6	10	28	29	27	9	*	*	*	0	66
	<b>Tohono O'Odham Nation</b>	90†	0	*	*	15	16	14	7	*	*	0	0	31
	<b>White Mountain Apache Tribe</b>	190†	*	*	10	28	47	33	24	12	*	*	*	26
	<b>Yavapai-Apache Nation</b>	10†	0	0	0	*	0	*	*	*	*	0	0	*
	<b>Yavapai-Prescott Indian Tribe</b>	0†	0	0	0	0	0	*	*	0	0	0	0	*
	<b>TOTAL</b>	1,820†	0†	20†	60†	290†	350†	350†	180†	70†	30†	10†	10†	450†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,120†	0	*	26	193	244	219	130	57	17	12	*	223
	<b>---in Pima County</b>	210†	0	*	*	33	38	34	23	11	*	0	0	58
	<b>---in Coconino County</b>	240†	0	*	10	42	54	41	40	14	*	0	0	32
	<b>---elsewhere in Arizona</b>	510†	0	6	24	86	121	85	56	15	12	*	*	100
	<b>TOTAL</b>	2,080†	0	20†	70†	354	457	379	249	97	30†	20†	0†	413

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 (2021 STATUS)**

		TOTAL BIRTHS	Payer for births				
			AHCCCS <sup>a</sup>	IHS	Private insurance	Self-pay	Unknown
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	2,560†	670†	550†	80†	50†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	20†	*	8	*	0	*
	<b>Cocopah Tribe</b>	10†	*	*	0	0	0
	<b>Colorado River Indian Tribe</b>	20†	14	*	0	0	0
	<b>Fort McDowell Yavapai Nation Reservation</b>	10†	*	*	*	0	0
	<b>Fort Mohave Indian Tribe</b>	0†	*	0	0	*	*
	<b>Gila River Indian Community</b>	190†	81	81	15	*	*
	<b>Havasupai Tribe</b>	21	21	0	0	0	0
	<b>Hopi Tribe</b>	50†	45	*	7	0	0
	<b>Hualapai Tribe</b>	20†	20	*	*	0	0
	<b>Kaibab Indian Reservation</b>	0†	*	0	0	0	0
	<b>Navajo Nation</b>	913	779	51	73	9	*
	<b>Pascua Yaqui Tribe</b>	30†	14	12	*	0	0
	<b>Salt River Pima-Maricopa Indian Community</b>	70†	50	*	14	*	*
	<b>San Carlos Apache Tribe</b>	180†	29	137	15	*	0
	<b>Tohono O'Odham Nation</b>	90†	47	25	14	*	*
	<b>White Mountain Apache Tribe</b>	190†	180	*	*	*	0
	<b>Yavapai-Apache Nation</b>	10†	8	*	*	*	0
	<b>Yavapai-Prescott Indian Tribe</b>	0†	0	0	*	0	0
	<b>TOTAL</b>	1,820†	1,300†	330†	160†	20†	10†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,123	629	223	218	35	18
	<b>---in Pima County</b>	210†	127	32	40	*	8
	<b>---in Coconino County</b>	240†	177	13	41	*	*
	<b>---elsewhere in Arizona</b>	512	320	72	95	18	7
	<b>TOTAL</b>	2,082	1,253	340	394	60†	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; <sup>a</sup> The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.







## **MATERNAL LIFESTYLE & HEALTH CHARACTERISTICS**

**4.7**  
**MATERNAL WEIGHT GAIN DURING PREGNANCY (2021 STATUS)**

		TOTAL BIRTHS	Weight gain			
			Inadequate	Adequate	Excessive	Unknown
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	880†	1,040†	1,930†	60†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	20†	*	*	10	0
	<b>Cocopah Tribe</b>	10†	*	*	*	0
	<b>Colorado River Indian Tribe</b>	20†	*	*	10	*
	<b>Fort McDowell Yavapai Nation Reservation</b>	10†	0	*	6	0
	<b>Fort Mohave Indian Tribe</b>	0†	0	*	*	0
	<b>Gila River Indian Community</b>	190†	28	48	107	*
	<b>Havasupai Tribe</b>	20†	*	11	*	*
	<b>Hopi Tribe</b>	50†	14	12	26	*
	<b>Hualapai Tribe</b>	20†	*	7	11	0
	<b>Kaibab Indian Reservation</b>	0†	0	0	*	0
	<b>Navajo Nation</b>	913	249	255	392	17
	<b>Pascua Yaqui Tribe</b>	27	7	9	11	0
	<b>Salt River Pima-Maricopa Indian Community</b>	70†	9	22	39	*
	<b>San Carlos Apache Tribe</b>	180†	38	54	89	*
	<b>Tohono O'Odham Nation</b>	90†	35	14	40	*
	<b>White Mountain Apache Tribe</b>	187	42	51	94	0
	<b>Yavapai-Apache Nation</b>	10†	*	*	6	*
	<b>Yavapai-Prescott Indian Tribe</b>	0†	*	0	*	0
	<b>TOTAL</b>	1,820†	440†	500†	850†	30†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,123	241	310	556	16
	<b>---in Pima County</b>	209	43	56	100	10
	<b>---in Coconino County</b>	240†	57	53	127	*
	<b>---elsewhere in Arizona</b>	510†	95	122	291	*
	<b>TOTAL</b>	2,082	436	541	1,074	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 (2021 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		3,910†	1,838	177	759	128	580	10†	240	209	42	80	276	0†	15
Resided on reservation	Ak-Chin Indian Community	17	10†	0	*	0	*	0	0	*	*	0	*	0	*
	Cocopah Tribe	6	0†	*	0	*	*	0	*	*	0	0	0	0	0
	Colorado River Indian Tribe	17	10†	*	*	0	*	0	0	0	*	*	0	0	0
	Fort McDowell Yavapai Nation Reservation	9	0†	0	*	0	*	0	*	0	0	*	0	0	0
	Fort Mohave Indian Tribe	4	0†	*	0	*	0	0	0	0	0	0	0	0	0
	Gila River Indian Community	185	80†	9	27	*	18	*	9	7	*	6	15	0	*
	Havasupai Tribe	21	10†	*	*	*	*	0	*	*	0	0	*	0	*
	Hopi Tribe	54	30†	0	9	*	19	*	*	*	*	*	*	0	0
	Hualapai Tribe	23	10†	*	0	*	*	0	0	*	0	0	*	0	0
	Kaibab Indian Reservation	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Navajo Nation	913	480†	54	219	44	146	*	42	56	12	11	77	0	0
	Pascua Yaqui Tribe	27	10†	0	*	*	*	0	6	*	0	0	*	*	0
	Salt River Pima-Maricopa Indian Community	72	30†	*	13	*	9	0	*	0	0	0	0	0	*
	San Carlos Apache Tribe	183	90†	*	28	9	30	*	10	*	*	12	13	*	*
	Tohono O'Odham Nation	90	40†	*	16	*	12	0	6	14	*	*	8	0	0
	White Mountain Apache Tribe	187	100†	9	35	*	33	*	30	6	*	10	17	0	0
	Yavapai-Apache Nation	11	0†	*	*	*	*	0	0	0	*	0	*	0	0
	Yavapai-Prescott Indian Tribe	4	0†	0	0	*	0	0	*	*	0	0	0	0	0
	TOTAL		1,820†	890†	90†	360†	70†	280†	10†	120†	100†	30†	50†	140†	0†
Resided off reservation	---in Maricopa County	1,123	490†	44	214	36	157	*	57	40	9	17	67	0	*
	---in Pima County	209	130†	11	41	7	40	*	27	53	0	*	11	0	*
	---in Coconino County	238	90†	9	44	*	26	0	6	6	*	*	16	0	0
	---elsewhere in Arizona	512	240†	20	102	9	73	0	31	13	*	10	42	*	*
	TOTAL		2,082	946	84	401	60†	296	10†	121	112	10†	30†	136	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 (2021 STATUS)**

		TOTAL BIRTHS	Smoking during pregnancy			
			Non Smoker	Light Smoker	Heavy Smoker	Unknown
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	3,580†	110†	30†	190†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	20†	14	*	0	0
	<b>Cocopah Tribe</b>	10†	*	*	0	0
	<b>Colorado River Indian Tribe</b>	20†	16	0	*	0
	<b>Fort McDowell Yavapai Nation Reservation</b>	10†	8	0	*	0
	<b>Fort Mohave Indian Tribe</b>	0†	*	*	0	0
	<b>Gila River Indian Community</b>	190†	172	10	*	*
	<b>Havasupai Tribe</b>	20†	20	*	0	0
	<b>Hopi Tribe</b>	50†	52	*	*	0
	<b>Hualapai Tribe</b>	23	23	0	0	0
	<b>Kaibab Indian Reservation</b>	0†	0	0	0	*
	<b>Navajo Nation</b>	913	752	9	0	152
	<b>Pascua Yaqui Tribe</b>	27	27	0	0	0
	<b>Salt River Pima-Maricopa Indian Community</b>	70†	62	*	*	*
	<b>San Carlos Apache Tribe</b>	180†	172	6	*	*
	<b>Tohono O'Odham Nation</b>	90†	83	*	*	*
	<b>White Mountain Apache Tribe</b>	190†	175	10	*	*
	<b>Yavapai-Apache Nation</b>	11	11	0	0	0
	<b>Yavapai-Prescott Indian Tribe</b>	0†	*	0	0	0
	<b>TOTAL</b>	1,820†	1,600†	50†	20†	160†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,120†	1,083	32	*	*
	<b>---in Pima County</b>	210†	195	11	*	*
	<b>---in Coconino County</b>	240†	231	*	0	6
	<b>---elsewhere in Arizona</b>	512	470	13	7	22
	<b>TOTAL</b>	2,082	1,979	60†	10†	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.



## **UTILIZATION OF MEDICAL SERVICES**

**4.10**  
**TRIMESTER OF PREGNANCY PRENATAL CARE BEGAN (2021 STATUS)**

		TOTAL BIRTHS	Prenatal care				
			No care	1st trimester	2nd trimester	3rd trimester	Unknown
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	210†	2,260†	830†	400†	210†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	20†	0	11	*	*	0
	<b>Cocopah Tribe</b>	10†	*	*	*	*	0
	<b>Colorado River Indian Tribe</b>	20†	*	*	7	*	*
	<b>Fort McDowell Yavapai Nation Reservation</b>	10†	*	*	*	*	0
	<b>Fort Mohave Indian Tribe</b>	0†	0	*	*	0	0
	<b>Gila River Indian Community</b>	185	14	110	37	19	*
	<b>Havasupai Tribe</b>	20†	0	*	8	6	*
	<b>Hopi Tribe</b>	50†	*	31	13	*	*
	<b>Hualapai Tribe</b>	20†	*	14	*	*	*
	<b>Kaibab Indian Reservation</b>	0†	0	*	0	0	0
	<b>Navajo Nation</b>	913	37	549	204	76	47
	<b>Pascua Yaqui Tribe</b>	30†	*	15	7	*	0
	<b>Salt River Pima-Maricopa Indian Community</b>	70†	9	41	16	*	*
	<b>San Carlos Apache Tribe</b>	183	15	78	27	43	20
	<b>Tohono O'Odham Nation</b>	90	24	25	23	17	*
	<b>White Mountain Apache Tribe</b>	190†	*	102	55	21	*
	<b>Yavapai-Apache Nation</b>	10†	*	*	*	0	0
	<b>Yavapai-Prescott Indian Tribe</b>	0†	0	*	*	0	0
	<b>TOTAL</b>	1,820†	120†	1,000†	420†	200†	90†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,123	53	670	222	105	73
	<b>---in Pima County</b>	209	22	115	41	28	*
	<b>---in Coconino County</b>	240†	*	141	52	21	22
	<b>---elsewhere in Arizona</b>	512	14	332	99	42	25
	<b>TOTAL</b>	2,082	90†	1,258	414	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 (2021 STATUS)**

		TOTAL BIRTHS	Prenatal visits					
			No visits	1-4 visits	5-8 visits	9-12 visits	13+ visits	Unknown
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		3,910†	210†	450†	960†	1,380†	800†	110†
Resided on reservation	Ak-Chin Indian Community	20†	0	*	*	8	*	0
	Cocopah Tribe	10†	*	*	*	*	0	0
	Colorado River Indian Tribe	20†	*	*	7	7	0	0
	Fort McDowell Yavapai Nation Reservation	10†	*	*	*	*	*	0
	Fort Mohave Indian Tribe	0†	0	0	*	*	0	0
	Gila River Indian Community	185	14	17	43	61	48	*
	Havasupai Tribe	20†	0	8	*	6	0	*
	Hopi Tribe	50†	*	*	11	22	12	0
	Hualapai Tribe	20†	*	*	*	9	*	0
	Kaibab Indian Reservation	0†	0	0	*	0	0	0
	Navajo Nation	913	37	94	227	352	165	38
	Pascua Yaqui Tribe	30†	*	*	6	11	*	0
	Salt River Pima-Maricopa Indian Community	72	9	7	17	23	15	*
	San Carlos Apache Tribe	183	15	53	47	38	25	*
	Tohono O'Odham Nation	90	24	23	25	8	9	*
	White Mountain Apache Tribe	190†	*	29	59	81	12	*
	Yavapai-Apache Nation	10†	*	*	*	*	*	0
	Yavapai-Prescott Indian Tribe	0†	0	0	*	*	*	0
	TOTAL	1,820†	120†	250†	460†	640†	310†	50†
	Resided off reservation	---in Maricopa County	1,123	53	101	268	400	268
---in Pima County		209	22	25	46	67	48	*
---in Coconino County		240†	*	18	69	89	49	11
---elsewhere in Arizona		512	14	51	119	190	125	13
TOTAL		2,082	90†	195	502	746	490	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 (2021 STATUS)**

		TOTAL BIRTHS	Births with obstetrics procedure	Obstetric procedures <sup>a</sup>					
				Induction of labor	Augmentation of labor	Cervical cerclage	Tocolysis	External cephalic version successful	External cephalic version failed
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	2,130†	1,350†	1,150†	0†	40†	10†	20†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	20†	6	*	*	0	0	0	0
	<b>Cocopah Tribe</b>	6	0	0	0	0	0	0	0
	<b>Colorado River Indian Tribe</b>	20†	7	7	*	0	0	0	0
	<b>Fort McDowell Yavapai Nation Reservation</b>	10†	*	*	*	0	0	0	0
	<b>Fort Mohave Indian Tribe</b>	0†	*	*	0	0	0	0	0
	<b>Gila River Indian Community</b>	190†	73	55	38	0	*	0	0
	<b>Havasupai Tribe</b>	20†	10	9	*	0	0	0	0
	<b>Hopi Tribe</b>	50†	36	26	11	*	0	0	*
	<b>Hualapai Tribe</b>	20†	13	11	*	0	0	0	0
	<b>Kaibab Indian Reservation</b>	0†	*	0	*	0	0	0	0
	<b>Navajo Nation</b>	913	513	339	248	0	9	6	7
	<b>Pascua Yaqui Tribe</b>	27	17	6	11	0	0	0	0
	<b>Salt River Pima-Maricopa Indian Community</b>	70†	37	25	23	0	*	0	0
	<b>San Carlos Apache Tribe</b>	180†	107	76	59	0	*	0	*
	<b>Tohono O'Odham Nation</b>	90	54	24	34	0	0	0	0
	<b>White Mountain Apache Tribe</b>	190†	93	48	42	0	7	*	*
	<b>Yavapai-Apache Nation</b>	10†	6	*	*	0	0	0	0
	<b>Yavapai-Prescott Indian Tribe</b>	0†	*	0	*	0	0	0	0
	<b>TOTAL</b>	1,820†	980†	640†	480†	0†	20†	10†	10†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,120†	619	392	411	*	12	*	0
	<b>---in Pima County</b>	210†	123	69	60	0	*	0	0
	<b>---in Coconino County</b>	240†	121	71	59	0	0	0	*
	<b>---elsewhere in Arizona</b>	510†	284	183	135	*	*	*	*
	<b>TOTAL</b>	2,080†	1,147	715	665	0†	20†	10†	10†

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <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 (2021 STATUS)

		TOTAL BIRTHS	Births with complications of labor and or delivery	Births with complications of labor and delivery <sup>a</sup>												
				Premature rupture of the membranes	Precipitous labor	Prolonged labor	Breech presentation	Chorioamnionitis	Meconium staining of the amniotic fluid	Fetal intolerance	Maternal transfusion	Third or fourth degree perineal laceration	Ruptured uterus	Unplanned Hysterectomy	Admission to intensive care unit	Unplanned surgery following delivery
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		3,910†	1,320†	290†	280†	140†	160†	90†	300†	360†	80†	20†	0†	10†	20†	30†
Resided on reservation	Ak-Chin Indian Community	17	10†	*	0	0	*	*	7	0	0	*	0	0	0	0
	Cocopah Tribe	6	0†	0	*	0	0	0	*	*	*	0	0	0	0	0
	Colorado River Indian Tribe	17	0†	0	0	0	*	0	0	*	0	0	0	0	0	0
	Fort McDowell Yavapai Nation Reservation	9	10†	*	*	*	0	0	*	*	0	0	0	0	0	0
	Fort Mohave Indian Tribe	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Gila River Indian Community	185	70†	11	12	7	*	*	31	18	*	0	0	0	*	*
	Havasupai Tribe	21	10†	0	*	*	0	0	*	*	0	0	0	0	0	0
	Hopi Tribe	54	20†	*	*	*	*	*	*	*	*	0	0	0	*	*
	Hualapai Tribe	23	10†	*	*	*	*	0	*	0	*	0	0	*	0	*
	Kaibab Indian Reservation	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Navajo Nation	913	300†	74	75	28	43	13	42	58	29	*	0	*	8	13
	Pascua Yaqui Tribe	27	10†	*	*	0	*	*	0	*	*	0	0	0	*	0
	Salt River Pima-Maricopa Indian Community	72	30†	*	16	*	*	*	*	*	*	0	0	0	0	0
	San Carlos Apache Tribe	183	70†	15	16	9	*	*	21	17	9	0	0	0	*	0
	Tohono O'Odham Nation	90	40†	6	14	*	*	*	8	*	*	0	0	0	0	*
	White Mountain Apache Tribe	187	50†	*	12	8	10	*	12	6	*	*	0	0	0	*
	Yavapai-Apache Nation	11	10†	*	*	0	*	0	0	*	*	0	0	0	0	0
	Yavapai-Prescott Indian Tribe	*	0†	0	0	0	*	0	*	0	0	0	0	0	0	0
	TOTAL		1,820†	620†	130†	160†	60†	70†	40†	140†	120†	50†	10†	0	0†	10†
Resided off reservation	---in Maricopa County	1,123	80†	92	52	35	43	34	102	179	13	8	*	0	*	*
	---in Pima County	209	70†	25	35	13	10	*	8	12	*	0	0	*	*	0
	---in Coconino County	238	150†	15	11	13	9	*	16	20	*	*	*	0	*	0
	---elsewhere in Arizona	512	620†	32	18	17	24	7	40	32	8	*	0	0	*	*
	TOTAL		2,082	704	164	116	78	86	50†	166	243	30†	20†	0†	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> 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 (2021 STATUS)**

		TOTAL BIRTHS	Method of delivery <sup>a</sup>			
			Vaginal	C-Section	Forceps	Vacuum
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	2,810†	1,030†	10†	70†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	17	9	7	0	*
	<b>Cocopah Tribe</b>	6	*	*	0	0
	<b>Colorado River Indian Tribe</b>	17	12	*	0	0
	<b>Fort McDowell Yavapai Nation Reservation</b>	9	8	*	0	0
	<b>Fort Mohave Indian Tribe</b>	*	*	*	0	0
	<b>Gila River Indian Community</b>	185	137	48	0	0
	<b>Havasupai Tribe</b>	21	14	*	0	*
	<b>Hopi Tribe</b>	54	44	9	0	*
	<b>Hualapai Tribe</b>	23	15	7	0	*
	<b>Kaibab Indian Reservation</b>	*	0	*	0	0
	<b>Navajo Nation</b>	913	702	204	*	*
	<b>Pascua Yaqui Tribe</b>	27	20	6	0	*
	<b>Salt River Pima-Maricopa Indian Community</b>	72	49	22	0	*
	<b>San Carlos Apache Tribe</b>	183	124	51	0	8
	<b>Tohono O'Odham Nation</b>	90	69	17	0	*
	<b>White Mountain Apache Tribe</b>	187	125	57	0	*
	<b>Yavapai-Apache Nation</b>	11	6	*	0	*
	<b>Yavapai-Prescott Indian Tribe</b>	*	*	*	0	0
	<b>TOTAL</b>	1,820†	1,340†	450†	0†	30†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,123	775	328	*	18
	<b>---in Pima County</b>	209	143	56	*	9
	<b>---in Coconino County</b>	238	180	55	0	*
	<b>---elsewhere in Arizona</b>	512	368	134	*	9
	<b>TOTAL</b>	2,080†	1,466	573	0†	40†

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <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 (2021 STATUS)**

		TOTAL BIRTHS	M.D.	C.N.M / C.M.	Hospital admin	Midwife	D.O.	Other	Un- known
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	2,490†	780†	0	0	430†	210†	0
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	20†	11	*	0	0	*	0	0
	<b>Cocopah Tribe</b>	10†	*	*	0	0	0	0	0
	<b>Colorado River Indian Tribe</b>	17	17	0	0	0	0	0	0
	<b>Fort McDowell Yavapai Nation Reservation</b>	10†	7	*	0	0	*	0	0
	<b>Fort Mohave Indian Tribe</b>	0†	*	0	0	0	0	0	0
	<b>Gila River Indian Community</b>	190†	160	*	0	0	22	*	0
	<b>Havasupai Tribe</b>	20†	16	0	0	0	*	0	0
	<b>Hopi Tribe</b>	50†	27	24	0	0	*	0	0
	<b>Hualapai Tribe</b>	20†	17	0	0	0	*	*	0
	<b>Kaibab Indian Reservation</b>	0†	0	0	0	0	0	*	0
	<b>Navajo Nation</b>	913	266	464	0	0	31	152	0
	<b>Pascua Yaqui Tribe</b>	30†	20	6	0	0	*	0	0
	<b>Salt River Pima-Maricopa Indian Community</b>	70†	54	*	0	0	13	*	0
	<b>San Carlos Apache Tribe</b>	180†	180	*	0	0	*	*	0
	<b>Tohono O'Odham Nation</b>	90†	83	*	0	0	*	*	0
	<b>White Mountain Apache Tribe</b>	190†	68	0	0	0	114	*	0
	<b>Yavapai-Apache Nation</b>	10†	10	*	0	0	0	0	0
	<b>Yavapai-Prescott Indian Tribe</b>	0†	*	0	0	0	0	0	0
	<b>TOTAL</b>	1,820†	950†	510†	0	0	200†	160†	0
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,123	877	133	0	0	103	10	0
	<b>---in Pima County</b>	210†	178	26	0	0	*	0	0
	<b>---in Coconino County</b>	238	150	41	0	0	40	7	0
	<b>---elsewhere in Arizona</b>	512	337	72	0	0	77	26	0
	<b>TOTAL</b>	2,082	1,542	272	0	0	230†	43	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 (2021 STATUS)**

		TOTAL BIRTHS	Length of gestation			
			<37 weeks	37-41 weeks	42+ weeks	Unknown
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	490†	3,400†	10†	10†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	20†	*	14	0	0
	<b>Cocopah Tribe</b>	10†	*	*	0	0
	<b>Colorado River Indian Tribe</b>	20†	*	12	0	0
	<b>Fort McDowell Yavapai Nation Reservation</b>	10†	*	7	0	0
	<b>Fort Mohave Indian Tribe</b>	0†	0	*	0	0
	<b>Gila River Indian Community</b>	190†	20	163	*	*
	<b>Havasupai Tribe</b>	20†	*	18	0	0
	<b>Hopi Tribe</b>	50†	*	49	0	0
	<b>Hualapai Tribe</b>	20†	*	21	0	0
	<b>Kaibab Indian Reservation</b>	0†	0	*	0	0
	<b>Navajo Nation</b>	910†	114	793	*	*
	<b>Pascua Yaqui Tribe</b>	30†	*	24	0	0
	<b>Salt River Pima-Maricopa Indian Community</b>	72	8	63	0	*
	<b>San Carlos Apache Tribe</b>	183	24	158	0	*
	<b>Tohono O'Odham Nation</b>	90	8	81	0	*
	<b>White Mountain Apache Tribe</b>	187	26	161	0	0
	<b>Yavapai-Apache Nation</b>	10†	*	6	*	0
	<b>Yavapai-Prescott Indian Tribe</b>	0†	0	*	0	0
	<b>TOTAL</b>	1,120†	230†	1,580†	10†	10†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,120†	139	979	*	*
	<b>---in Pima County</b>	210†	27	181	*	0
	<b>---in Coconino County</b>	238	28	210	0	0
	<b>---elsewhere in Arizona</b>	512	63	449	0	0
	<b>TOTAL</b>	2,080†	257	1,819	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.

**4.17**  
**WEIGHT AT BIRTH (2021 STATUS)**

		TOTAL BIRTHS	Weight at birth				
			<1,000 grams	1,000- 1,499	1,500- 2,499	2,500- 3,999	4000+
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		3,910†	20†	30†	260†	3,230†	370†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	20†	0	0	*	14	*
	<b>Cocopah Tribe</b>	10†	0	0	*	*	0
	<b>Colorado River Indian Tribe</b>	20†	0	0	*	16	0
	<b>Fort McDowell Yavapai Nation Reservation</b>	10†	0	*	0	8	0
	<b>Fort Mohave Indian Tribe</b>	0†	0	0	0	*	0
	<b>Gila River Indian Community</b>	190†	*	*	10	151	21
	<b>Havasupai Tribe</b>	20†	0	*	*	17	*
	<b>Hopi Tribe</b>	50†	0	*	7	44	*
	<b>Hualapai Tribe</b>	20†	0	0	*	20	0
	<b>Kaibab Indian Reservation</b>	0†	0	0	0	*	0
	<b>Navajo Nation</b>	910†	*	7	61	769	73
	<b>Pascua Yaqui Tribe</b>	30†	0	*	*	24	*
	<b>Salt River Pima-Maricopa Indian Community</b>	72	0	0	6	57	9
	<b>San Carlos Apache Tribe</b>	180†	*	*	*	164	9
	<b>Tohono O'Odham Nation</b>	90†	*	0	*	77	8
	<b>White Mountain Apache Tribe</b>	190†	*	*	13	159	11
	<b>Yavapai-Apache Nation</b>	10†	0	0	*	9	*
	<b>Yavapai-Prescott Indian Tribe</b>	0†	0	0	0	*	0
	<b>TOTAL</b>	1,820†	10†	20†	120†	1,540†	140†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	1,120†	*	8	74	894	143
	<b>---in Pima County</b>	210†	*	*	18	169	19
	<b>---in Coconino County</b>	240†	0	*	16	202	19
	<b>---elsewhere in Arizona</b>	510†	*	*	32	421	52
	<b>TOTAL</b>	2,082	10†	20†	140	1,686	233

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 (2021 STATUS)**

		TOTAL BIRTHS	Births with abnormal conditions of the newborn	Abnormal conditions <sup>a</sup>					
				Assisted ventilation immediately after delivery	Assisted ventilation for more than 6 hours	Surfactant replacement therapy	Suspected neonatal sepsis	Seizure or serious neurologic dysfunction	Significant birth injury
ALL AMERICAN INDIAN RESIDENTS OF ARIZONA		3,910†	238	170†	110†	20†	90†	0†	10†
Resided on reservation	Ak-Chin Indian Community	17	*	*	0	0	*	0	0
	Cocopah Tribe	6	*	0	0	0	*	0	0
	Colorado River Indian Tribe	17	0	0	0	0	0	0	0
	Fort McDowell Yavapai Nation Reservation	9	*	*	0	0	0	0	0
	Fort Mohave Indian Tribe	*	0	0	0	0	0	0	0
	Gila River Indian Community	185	14	11	8	*	8	0	0
	Havasupai Tribe	21	*	*	0	0	0	0	0
	Hopi Tribe	54	*	*	*	*	0	0	0
	Hualapai Tribe	23	*	*	0	0	0	0	0
	Kaibab Indian Reservation	*	0	0	0	0	0	0	0
	Navajo Nation	913	58	35	25	*	18	*	*
	Pascua Yaqui Tribe	27	*	*	*	0	*	0	0
	Salt River Pima-Maricopa Indian Community	72	*	0	0	0	*	0	0
	San Carlos Apache Tribe	183	16	13	8	*	*	0	*
	Tohono O'Odham Nation	90	*	*	*	*	*	0	*
	White Mountain Apache Tribe	187	16	14	6	0	6	0	0
	Yavapai-Apache Nation	11	*	*	*	0	0	0	0
	Yavapai-Prescott Indian Tribe	*	*	*	*	0	*	0	0
	TOTAL		1,120†	130†	90†	60†	10†	50†	0†
Resided off reservation	---in Maricopa County	209	67	47	33	7	32	*	*
	---in Pima County	238	10	8	*	*	*	0	0
	---in Coconino County	512	9	7	*	0	*	0	*
	---elsewhere in Arizona	1,824	26	19	14	*	*	0	0
	TOTAL		2,082	112	81	50†	10†	40†	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> 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 (2021 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		3,906	22	0	0†	10†	0	0†	0†	10†	0†	0†	0	10†
Resided on reservation	Ak-Chin Indian Community	17	0	0	0	0	0	0	0	0	0	0	0	0
	Cocopah Tribe	6	0	0	0	0	0	0	0	0	0	0	0	0
	Colorado River Indian Tribe	17	0	0	0	0	0	0	0	0	0	0	0	0
	Fort McDowell Yavapai Nation Reservation	9	0	0	0	0	0	0	0	0	0	0	0	0
	Fort Mohave Indian Tribe	*	0	0	0	0	0	0	0	0	0	0	0	0
	Gila River Indian Community	185	0	0	0	0	0	0	0	0	0	0	0	0
	Havasupai Tribe	21	*	0	0	0	0	0	0	0	0	0	0	*
	Hopi Tribe	54	*	0	0	*	0	0	0	*	0	0	0	0
	Hualapai Tribe	23	*	0	0	0	0	0	0	*	0	0	0	0
	Kaibab Indian Reservation	*	0	0	0	0	0	0	0	0	0	0	0	0
	Navajo Nation	913	*	0	0	*	0	0	*	*	0	0	0	*
	Pascua Yaqui Tribe	27	0	0	0	0	0	0	0	0	0	0	0	0
	Salt River Pima-Maricopa Indian Community	72	0	0	0	0	0	0	0	0	0	0	0	0
	San Carlos Apache Tribe	183	*	0	0	0	0	0	0	0	0	0	0	*
	Tohono O'Odham Nation	90	*	0	0	0	0	*	0	0	0	0	0	0
	White Mountain Apache Tribe	187	*	0	0	*	0	0	0	0	0	0	0	*
	Yavapai-Apache Nation	11	0	0	0	0	0	0	0	0	0	0	0	0
	Yavapai-Prescott Indian Tribe	*	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	1,820†	10†	0	0	0†	0	0†	0†	0†	0	0	0	0†
Resided off reservation	---in Maricopa County	1,123	6	0	*	0	0	*	0	*	*	0	0	0
	---in Pima County	209	*	0	0	0	0	0	0	0	0	*	0	0
	---in Coconino County	238	0	0	0	0	0	0	0	0	0	0	0	0
	---elsewhere in Arizona	512	*	0	0	*	0	0	*	0	0	0	0	*
	TOTAL	2,082	10†	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; <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, 2021**

	TOTAL STATE	Resided on reservation							Resided off reservation				
		Fort McDowell Yavapai Nation Reservation	Navajo Nation	Pascua Yaqui Tribe	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
<b>Total, all causes</b>	22	0†	0†	0†	0†	0†	0†	10†	10†	0†	0†	0†	10†
<b>Certain conditions originating in the perinatal period</b>	10†	0	*	0	0	*	*	0†	*	*	*	*	10†
<b>Maternal complications</b>	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†
<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	0
<b>Congenital malformations</b>	0†	0	0	*	0	0	0	0†	*	*	0	*	0†
<b>of heart</b>	0†	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	0	0
<b>Sudden infant death syndrome</b>	0†	0	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
<b>Diseases of the nervous system</b>	0	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, 2021**

		Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Total births</b>		3,906	560†	10†	460†	140†	80†	10†	30†	1,250†	60†	580†	330†	310†	0†	50†	40†	0†
<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>	110†	18	0	12	7	*	0	*	18	*	22	9	15	0	*	*	0
	<b>18-19</b>	230†	28	*	30	6	11	*	*	55	7	37	20	24	0	*	*	0
	<b>20-24</b>	960†	128	*	115	39	23	*	7	325	18	116	73	79	0	18	13	*
	<b>25-29</b>	1,130†	169	*	120	42	19	6	11	362	12	172	98	90	*	9	13	0
	<b>30-34</b>	930†	125	*	110	33	19	*	*	311	15	138	80	71	0	13	*	0
	<b>35-39</b>	450†	68	0	61	9	*	*	*	147	*	71	41	24	0	8	6	*
	<b>40-44</b>	90†	16	0	13	*	0	0	*	29	*	21	*	*	0	*	0	0
	<b>45+</b>	10†	*	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	0
<b>Payee for births</b>	<b>AHCCCS</b>	2,560†	487	*	348	17	27	*	25	710	51	504	188	134	0	34	21	*
	<b>IHS</b>	670†	34	0	27	107	39	*	7	244	*	21	69	108	0	*	8	*
	<b>Private insurance</b>	550†	28	*	78	14	8	*	*	239	*	44	55	50	0	16	6	0
	<b>Self-pay</b>	80†	6	0	*	0	*	0	0	37	*	9	*	9	*	*	*	0
	<b>Unknown</b>	50†	*	*	*	0	0	0	0	19	*	0	9	6	*	0	*	0
<b>Mother's education</b>	<b>8th Grade or Less</b>	60†	*	0	*	*	*	0	0	23	*	*	6	15	0	0	*	0
	<b>Some High School</b>	880†	92	*	81	35	16	*	9	257	22	123	103	118	*	8	8	0
	<b>High School / GED</b>	1,460†	185	*	196	55	37	6	16	453	29	232	114	89	0	27	16	*
	<b>Some College</b>	940†	162	*	110	33	17	*	*	309	8	148	57	61	0	9	11	0
	<b>Associate Degree</b>	290†	61	0	44	*	*	0	*	102	*	38	17	14	0	*	*	0
	<b>Bachelor's Degree</b>	190†	35	*	22	*	0	0	*	67	0	27	16	7	*	6	0	0
	<b>Postgraduate Education</b>	80†	16	*	7	*	0	0	0	30	0	*	13	*	0	0	*	0
	<b>Unknown</b>	20†	*	0	0	*	*	0	0	8	0	*	0	*	0	0	0	0
<b>Marital status</b>	<b>Married</b>	760†	84	*	100	30	16	*	8	255	16	108	53	52	*	14	13	0
	<b>Unmarried*</b>	3,110†	472	6	357	108	60	8	25	974	46	463	269	249	0	39	27	*
	<b>Unknown</b>	40†	*	0	*	0	0	0	0	20	*	7	*	6	0	0	0	0
<b>Weight gain</b>	<b>Inadequate</b>	880†	149	*	119	28	14	6	*	257	11	123	85	54	0	10	11	*
	<b>Adequate</b>	1,040†	163	*	119	44	19	*	9	348	15	150	79	74	*	8	7	0
	<b>Excessive</b>	1,930†	239	*	219	65	42	*	19	626	37	291	151	177	*	34	21	0
	<b>Unknown</b>	60†	7	0	*	*	*	*	*	18	0	14	11	*	0	*	*	0
<b>Substance use</b>	<b>Non Smoker</b>	3,580†	412	9	442	128	72	11	30	1,192	59	537	305	287	*	52	38	*
	<b>Light Smoker</b>	110†	*	0	7	6	*	0	0	42	*	13	14	13	0	*	*	0
	<b>Heavy Smoker</b>	30†	0	0	0	*	*	0	*	10	0	*	*	*	0	0	0	0
	<b>Unknown</b>	190†	142	0	12	*	*	0	0	*	*	26	*	*	0	0	0	0
<b>Length of gestation</b>	<b>&lt;37 weeks</b>	490†	65	*	61	21	7	*	*	157	7	75	38	33	0	9	*	0
	<b>37-41 weeks</b>	3,400†	491	7	399	117	68	9	28	1,086	56	500	286	272	*	43	37	*
	<b>42+ weeks</b>	10†	*	0	0	0	0	0	0	*	0	*	*	*	0	*	0	0
	<b>Unknown</b>	10†	*	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, 2021**

		Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Weight at birth</b>	<b>&lt;1,000 grams</b>	20†	*	0	*	*	0	0	0	*	0	*	*	*	0	0	0	0
	<b>1,000-1,499</b>	30†	6	0	*	*	0	0	0	10	0	*	*	*	0	*	*	0
	<b>1,500-2,499</b>	260†	33	*	33	*	*	0	*	84	*	48	22	16	0	*	*	0
	<b>2,500-3,999</b>	3,230†	467	7	385	122	67	10	29	996	55	489	270	257	0	45	28	*
	<b>4000+</b>	370†	51	0	39	6	7	*	*	155	*	31	28	31	*	*	9	*
	<b>Unknown</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Prenatal care</b>	<b>No care</b>	210†	23	*	7	9	7	*	*	70	*	21	47	14	*	*	*	0
	<b>1st trimester</b>	2,260†	349	*	264	68	29	*	7	733	41	348	155	206	*	31	15	*
	<b>2nd trimester</b>	830†	113	*	113	24	11	*	10	250	13	136	71	54	0	15	17	0
	<b>3rd trimester</b>	400†	40	*	45	23	22	*	*	119	*	46	49	30	0	*	7	*
	<b>Unknown</b>	210†	33	0	32	14	7	0	10	77	*	27	*	*	0	0	0	0
<b>Prenatal visits</b>	<b>No visits</b>	210†	23	*	7	9	7	*	*	70	*	21	47	14	*	*	*	0
	<b>1-4 visits</b>	450†	55	*	45	32	25	*	*	115	*	67	53	33	0	8	6	0
	<b>5-8 visits</b>	960†	128	*	129	36	19	*	12	301	19	153	77	60	0	9	15	*
	<b>9-12 visits</b>	1,380†	212	*	179	37	12	6	10	440	24	235	86	103	*	18	16	*
	<b>13+ visits</b>	800†	108	*	83	20	12	*	*	289	15	88	61	95	0	16	*	0
	<b>Unknown</b>	110†	32	0	18	*	*	0	*	34	*	14	*	*	0	0	0	0
<b>Newborn intensive care</b>	<b>Yes</b>	350†	43	*	29	10	*	0	0	140	*	45	38	33	0	*	*	0
	<b>No</b>	3,550†	515	7	432	128	71	11	33	1,109	62	533	288	274	*	49	37	*
<b>Method of delivery</b>	<b>Vaginal</b>	2,810†	445	*	337	100	49	8	26	869	42	427	232	210	*	31	22	*
	<b>C-Section</b>	1,030†	112	*	115	35	22	*	7	359	15	142	79	93	0	20	18	0
	<b>Forceps</b>	10†	*	0	*	0	0	0	0	*	*	0	*	0	0	0	0	0
	<b>Vacuum</b>	70†	0	0	8	*	*	0	0	19	*	9	14	*	0	*	0	0
	<b>Unknown</b>	0	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>	2,130†	319	*	240	79	47	7	10	682	36	328	194	133	*	27	19	*
	<b>Induction of labor</b>	1,350†	195	*	154	54	31	*	10	435	25	220	99	89	*	18	12	0
	<b>Augmentation of labor</b>	1,150†	163	*	107	48	22	*	*	447	12	136	105	81	*	11	11	*
	<b>Cervical cerclage</b>	0†	*	0	*	0	0	0	0	*	0	0	0	0	0	0	*	0
	<b>Tocolysis</b>	40†	*	0	*	0	*	0	0	17	0	16	*	0	0	0	0	0
	<b>External cephalic version successful</b>	10†	*	0	0	0	0	0	0	*	0	9	0	0	0	0	0	0
	<b>External cephalic version failed</b>	20†	*	0	*	*	0	0	0	0	0	*	0	*	0	0	0	0
<b>Births with medical risk factors<sup>b</sup></b>	<b>Total</b>	1,840†	299	*	202	65	32	*	11	539	15	307	182	137	0	21	18	*
	<b>Pre-existing diabetes</b>	180†	39	0	19	*	*	0	*	47	7	28	16	10	0	*	*	0
	<b>Gestational diabetes</b>	760†	133	*	103	22	12	*	*	233	*	123	61	54	0	*	*	*
	<b>Pre-existing hypertension</b>	130†	38	0	12	8	*	0	0	38	*	10	10	*	0	*	*	0
	<b>Gestational hypertension</b>	580†	84	*	57	19	12	0	*	172	*	112	57	42	0	8	7	0
	<b>Eclampsia</b>	10†	0	0	0	*	0	0	0	*	0	*	*	*	0	0	0	0
	<b>Previous preterm birth</b>	240†	31	*	15	7	*	0	0	67	0	51	39	13	0	*	7	0
	<b>Other previous poor pregnancy outcome</b>	210†	45	*	10	*	*	0	0	47	*	18	72	*	0	*	*	0
	<b>Gonorrhea</b>	40†	7	0	*	*	0	0	*	9	*	8	*	8	0	*	0	0
	<b>Syphilis</b>	80†	*	0	9	12	*	0	*	19	0	19	*	9	0	*	0	0
	<b>Chlamydia</b>	280†	47	*	39	8	*	0	*	69	*	45	20	28	0	*	*	0
	<b>Hepatitis B</b>	0†	0	0	0	*	0	0	0	0	0	0	*	*	0	0	0	0
	<b>Hepatitis C</b>	20†	0	0	*	*	0	0	0	6	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, 2021**

		Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Births with complications of labor and delivery<sup>b</sup></b>	<b>Total</b>	1,320+	187	*	133	58	24	*	*	460	10	176	128	103	*	16	15	0
	Premature rupture of the membranes	290+	54	0	31	11	*	0	0	99	*	31	34	19	0	*	*	0
	Precipitous labor	280+	55	*	20	14	*	*	0	75	*	36	53	9	0	*	*	0
	Prolonged labor	140+	16	0	15	*	6	0	0	41	*	29	17	10	0	*	*	0
	Breech presentation	160+	22	*	18	*	*	0	*	46	*	32	13	14	0	*	*	0
	Chorioamnionitis	90+	7	0	8	*	*	*	0	40	0	10	8	*	0	0	*	0
	Meconium staining of the amniotic fluid	300+	30	0	26	17	10	*	0	113	*	30	16	45	*	*	6	0
	Fetal intolerance	360+	30	*	39	15	7	0	*	190	*	28	15	26	0	*	*	0
	Maternal transfusion	80+	14	0	6	9	*	0	0	15	*	18	*	*	0	*	*	0
	Third or fourth degree perineal laceration	20+	*	0	6	*	0	0	0	8	0	*	0	*	0	0	0	0
	Ruptured uterus	0+	0	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	0	0	0
	Admission to intensive care unit	20+	*	0	*	*	0	0	0	*	0	*	*	*	0	*	0	0
	Unplanned surgery following delivery	30+	*	0	*	*	0	0	0	*	*	14	*	*	0	0	0	0
<b>Abnormal conditions of the newborn<sup>b</sup></b>	<b>Total</b>	240+	39	*	20	14	*	0	0	74	*	37	18	20	0	*	*	0
	Assisted ventilation immediately after delivery	170+	23	*	15	12	*	0	0	51	*	25	15	18	0	*	*	0
	Assisted ventilation for more than 6 hours	110+	19	0	7	7	*	0	0	35	0	15	11	10	0	*	*	0
	Surfactant replacement therapy	20+	*	0	*	*	0	0	0	9	0	*	*	*	0	0	0	0
	Suspected neonatal sepsis	90+	12	0	*	*	*	0	0	37	0	11	7	7	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	0	0
<b>Congenital anomalies of the newborn<sup>b</sup></b>	<b>Total</b>	20+	*	0	*	*	0	0	*	6	*	*	*	0	0	0	0	0
	Anencephalus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Spina bifida / Meningocele	0+	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
	Cyanotic congenital heart disease	10+	*	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	0
	Omphalocele / Gastroschisis	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	0
	Cleft lip / palate	10+	*	0	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	0	0	0	0
	Suspected chromosomal disorder	0+	0	0	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	0	0
	Unknown congenital anomalies	10+	0	0	*	*	0	0	*	0	0	*	0	0	0	0	0	0
<b>Infant mortality<sup>c</sup></b>	<b>Total</b>	20+	0+	0	0+	0+	0	0	0	10+	0	0+	10+	0+	0	0	0+	0
	Neonatal	10+	*	0	*	0	0	0	0	*	0	*	*	0	0	0	*	0
	Postneonatal	10+	*	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> 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 2021**







## **AGE-SPECIFIC MORTALITY**

**5.1**  
**AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIANS IN 2021**

		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+
<b>ALL AMERICAN INDIAN RESIDENTS OF ARIZONA</b>		4,380†	20†	10†	20†	130†	460†	560†	630†	810†	760†	570†	420†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	10†	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>	30†	0	0	0	0	0	0	*	7	6	6	*
	<b>Fort McDowell Yavapai Nation Reservation</b>	30†	*	0	0	*	*	8	*	7	*	*	*
	<b>Fort Mohave Reservation</b>	10†	0	0	0	0	0	*	*	*	*	0	0
	<b>Gila River Indian Community</b>	240†	0	*	*	11	30	30	36	40	44	28	12
	<b>Havasupai Tribe</b>	0†	0	0	0	0	0	*	*	0	0	0	0
	<b>Hopi Tribe</b>	150†	0	*	*	*	16	19	20	25	27	21	20
	<b>Hualapai Tribe</b>	30†	0	0	*	*	*	*	8	*	*	*	*
	<b>Kaibab Indian Reservation</b>	0†	0	0	0	0	0	0	0	0	0	*	0
	<b>Navajo Nation</b>	1,370†	*	*	6	38	138	143	176	250	204	214	192
	<b>Pascua Yaqui Tribe</b>	50†	*	0	0	*	*	9	11	*	10	*	*
	<b>Salt River Pima-Maricopa Indian Community</b>	90†	0	*	*	*	10	12	16	17	19	6	*
	<b>San Carlos Apache Tribe</b>	190†	*	0	0	*	19	28	21	38	52	19	12
	<b>Tohono O'Odham Nation</b>	150†	*	0	*	6	*	22	27	22	37	12	14
	<b>White Mountain Apache Tribe</b>	180†	*	0	0	11	25	21	29	33	29	28	7
	<b>Yavapai-Apache Nation</b>	20†	0	0	0	0	*	*	*	*	*	*	*
	<b>Yavapai-Prescott Indian Tribe</b>	0†	0	0	0	0	0	*	*	*	0	*	0
	<b>TOTAL</b>	2,560†	10†	10†	20†	80†	260†	310†	360†	460†	440†	350†	270†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	810†	*	*	0	23	91	132	148	151	132	80	47
	<b>---in Pima County</b>	280†	*	*	0	12	23	33	36	55	50	39	23
	<b>---in Coconino County</b>	160†	*	0	0	*	17	27	16	29	23	21	20
	<b>---elsewhere in Arizona</b>	580†	*	*	*	11	73	59	75	114	110	77	52
	<b>TOTAL<sup>a</sup></b>	1,820†	10†	10†	0†	50†	204	251	275	349	315	217	142

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 2021**

		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		2,460†	10†	10†	10†	80†	320†	350†	390†	480†	390†	270†	160†
Resided on reservation	Ak-Chin Indian Community	0†	0	0	0	0	0	*	0	0	0	0	0
	Cocopah Tribe	10†	0	0	0	0	0	0	*	*	0	0	*
	Colorado River Indian Tribe	20†	0	0	0	0	0	0	*	*	*	*	*
	Fort McDowell Yavapai Nation Reservation	10†	0	0	0	*	0	*	0	*	*	*	*
	Fort Mohave Reservation	0†	0	0	0	0	0	0	*	0	0	0	0
	Gila River Indian Community	130†	0	*	*	8	21	18	15	19	25	10	*
	Havasupai Tribe	0†	0	0	0	0	0	*	*	0	0	0	0
	Hopi Tribe	90†	0	*	*	*	13	15	12	14	13	11	8
	Hualapai Tribe	10†	0	0	0	*	*	*	*	*	*	0	0
	Kaibab Indian Reservation	0	0	0	0	0	0	0	0	0	0	0	0
	Navajo Nation	790†	*	*	*	24	96	95	116	167	113	107	68
	Pascua Yaqui Tribe	20†	0	0	0	*	*	*	*	*	*	*	*
	Salt River Pima-Maricopa Indian Community	50†	0	*	*	*	7	8	11	10	8	*	0
	San Carlos Apache Tribe	100†	*	0	0	*	12	12	11	20	23	11	7
	Tohono O'Odham Nation	70†	*	0	*	*	*	11	18	13	16	*	*
	White Mountain Apache Tribe	100†	0	0	0	7	19	11	19	15	11	15	*
	Yavapai-Apache Nation	10†	0	0	0	0	*	*	*	*	*	*	*
	Yavapai-Prescott Indian Tribe	0†	0	0	0	0	0	*	0	*	0	*	0
		TOTAL	1,430†	10†	10†	10†	50†	180†	190†	220†	270†	220†	170†
Resided off reservation	---in Maricopa County	440†	*	*	0	17	59	78	83	81	71	31	17
	---in Pima County	160†	*	0	0	7	20	27	22	33	23	18	12
	---in Coconino County	90†	0	0	0	*	9	16	11	18	14	11	*
	---elsewhere in Arizona	350†	*	*	*	6	57	39	49	75	54	43	18
		TOTAL	1,040†	10†	0†	0†	30†	145	160	165	207	162	103

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 2021**

		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>		1,920†	10†	0†	10†	40†	140†	210†	250†	330†	370†	300†	260†
<b>Resided on reservation</b>	<b>Ak-Chin Indian Community</b>	10†	0	0	0	0	0	0	0	*	*	*	0
	<b>Cocopah Tribe</b>	0†	0	0	0	0	0	0	*	0	*	0	0
	<b>Colorado River Indian Tribe</b>	10†	0	0	0	0	0	0	*	*	*	*	*
	<b>Fort McDowell Yavapai Nation Reservation</b>	20†	*	0	0	0	*	*	*	*	0	*	*
	<b>Fort Mohave Reservation</b>	10†	0	0	0	0	0	*	*	*	*	0	0
	<b>Gila River Indian Community</b>	110†	0	0	*	*	9	12	21	21	19	18	7
	<b>Havasupai Tribe</b>	0†	0	0	0	0	0	*	0	0	0	0	0
	<b>Hopi Tribe</b>	60†	0	0	0	0	*	*	8	11	14	10	12
	<b>Hualapai Tribe</b>	20†	0	0	*	0	*	*	*	*	*	*	*
	<b>Kaibab Indian Reservation</b>	0†	0	0	0	0	0	0	0	0	0	*	0
	<b>Navajo Nation</b>	570†	*	0	*	14	42	48	60	83	91	107	124
	<b>Pascua Yaqui Tribe</b>	30†	*	0	0	*	*	*	6	*	*	*	*
	<b>Salt River Pima-Maricopa Indian Community</b>	40†	0	0	*	*	*	*	*	7	11	*	*
	<b>San Carlos Apache Tribe</b>	90†	0	0	0	*	7	16	10	18	29	8	*
	<b>Tohono O'Odham Nation</b>	70†	0	0	0	*	*	11	9	9	21	7	10
	<b>White Mountain Apache Tribe</b>	80†	*	0	0	*	6	10	10	18	18	13	*
	<b>Yavapai-Apache Nation</b>	10†	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>	1,130†	0†	0	10†	30†	80†	120†	140†	190†	220†	180†	170†
<b>Resided off reservation</b>	<b>---in Maricopa County</b>	370†	*	*	0	6	32	54	65	70	61	49	30
	<b>---in Pima County</b>	110†	*	*	0	*	*	6	14	22	27	21	11
	<b>---in Coconino County</b>	70†	*	0	0	0	8	11	*	11	9	10	15
	<b>---elsewhere in Arizona</b>	240†	*	*	*	*	16	20	26	39	56	34	34
	<b>TOTAL</b>	790†	10†	0†	0†	20†	60†	91	110†	142	153	114	90

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, 2021**

<b>Cause of death</b> (Tenth Revision, International Statistical Classification of Diseases)	<b>TOTAL</b>	<b>MALE</b>	<b>FEMALE</b>
<b>Total, all causes</b>	4,380	2,463	1,917
Salmonella infections	0	0	0
Shigellosis and amebiasis	0	0	0
Certain other intestinal infections	14	7	7
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	37	19	18
Syphilis	0†	0	*
Acute poliomyelitis	0	0	0
Arthropod-borne encephalitis	0	0	0
Measles	0	0	0
Viral hepatitis	0†	0	*
Human immunodeficiency virus (HIV) disease	10†	7	*
Malaria	0	0	0
Other and unspecified infectious and parasitic diseases	35	21	14
Malignant neoplasms	327	146	181
Malignant neoplasm of lip, oral cavity and pharynx	0†	*	*
Malignant neoplasm of esophagus	10†	6	*
Malignant neoplasm of stomach	25	17	8
Malignant neoplasm of colon, rectum and anus	21	13	8
Malignant neoplasm of liver and intrahepatic bile ducts	30	13	17
Malignant neoplasm of pancreas	30	16	14
Malignant neoplasm of larynx	0	0	0
Malignant neoplasm of trachea, bronchus and lung	20	8	12
Malignant melanoma of skin	0†	*	*
Malignant neoplasm of breast	28	0	28
Malignant neoplasm of cervix uteri	8	0	8
Malignant neoplasm of corpus uteri and uterus, part unspecified	9	0	9
Malignant neoplasm of ovary	13	0	13
Malignant neoplasm of prostate	12	12	0
Malignant neoplasm of kidney and renal pelvis	26	18	8
Malignant neoplasm of bladder	0†	*	*

**5.4 (continued)**  
**DEATHS BY GENDER FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2021**

<b>Cause of death</b> (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	0†	*	*
Malignant neoplasm of lymphoid, hematopoietic and related tissue	32	13	19
Hodgkin's disease	0†	0	*
Non-Hodgkin's lymphoma	10†	*	*
Leukemia	20†	*	10
Multiple myeloma and immunoproliferative neoplasms	10†	*	*
Other and unspecified malignant neoplasms of lymphoid tissue	0†	0	*
All other and unspecified malignant neoplasm	55	24	31
In situ neoplasms	10†	*	*
Anemias	0†	*	*
Diabetes	246	133	113
Nutritional deficiencies	20	11	9
Malnutrition	17	9	8
Other nutritional deficiencies	0†	*	*
Obesity	20	13	7
Meningitis	0†	*	0
Parkinson's disease	20	14	6
Alzheimer's disease	41	8	33
Major cardiovascular diseases	502	295	207
Diseases of heart	350	219	131
Acute rheumatic fever and chronic rheumatic heart disease	0†	*	0
Hypertensive heart disease	38	22	16
Hypertensive heart and renal disease	0†	*	*
Ischemic heart disease	194	125	69
Acute myocardial infarction	50	31	19
Other acute ischemic heart disease	10†	*	*
Other forms of chronic ischemic heart disease	137	92	45
Atherosclerotic cardiovascular disease	36	28	8
All other forms of chronic ischemic heart disease	101	64	37
Other heart diseases	111	67	44
Acute and subacute endocarditis	0†	*	*
Diseases of pericardium and acute myocarditis	0†	0	*
Heart failure	28	16	12
All other forms of heart disease	79	49	30
Essential (primary) hypertension and hypertensive renal disease	49	24	25
Cerebrovascular diseases	94	46	48

**5.4 (continued)**  
**DEATHS BY GENDER FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2021**

<b>Cause of death</b> (Tenth Revision, International Statistical Classification of Diseases)	<b>TOTAL</b>	<b>MALE</b>	<b>FEMALE</b>
Atherosclerosis	0	0	0
Other diseases of circulatory system	10†	6	*
Aortic aneurysm and dissection	0†	*	*
Other disease of arteries, arterioles and capillaries	10†	*	*
Other disorders of circulatory system	0†	*	*
Influenza and pneumonia	69	39	30
Influenza	0	0	0
Pneumonia	69	39	30
COVID-19	1,019	527	492
Other acute lower respiratory infections	0†	*	0
Acute bronchiolitis	0†	*	0
Unspecified acute lower respiratory infection	0	0	0
Chronic lower respiratory diseases	35	18	17
Bronchitis, chronic and unspecified	0†	*	0
Emphysema	0†	*	0
Asthma	0†	0	*
Other chronic lower respiratory diseases	31	15	16
Pneumoconioses and chemical effects	0†	*	0
Pneumonitis due to solids and liquids	14	8	6
Other disease of respiratory system	69	41	28
Peptic ulcer	10†	*	*
Diseases of appendix	0	0	0
Hernia	10†	*	*
Chronic liver disease and cirrhosis	396	219	177
Alcoholic liver disease	296	168	128
Other chronic liver disease and cirrhosis	100	51	49
Cholelithiasis and other disorders of gallbladder	10†	*	7
Nephritis, nephrotic syndrome and nephrosis	60	30	30
Acute and rapidly progressive nephritic and nephrotic syndrome	0	0	0
Chronic glomerulonephritis	0	0	0
Renal failure	60	30	30
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	9	0	9



**5.4 (continued)**  
**DEATHS BY GENDER FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2021**

<b>Cause of death</b> (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	9	0	9
Perinatal conditions	10†	*	*
Congenital anomalies, deformations and chromosomal abnormalities	20†	12	*
Symptoms, signs, abnormal findings	59	35	24
Total accidents	574	397	177
Transport accidents	196	127	69
Motor vehicle accidents	187	119	68
Other land transport accidents	10†	7	*
Water, air, space	0†	*	0
Nontransport accidents	378	270	108
Falls	45	25	20
Accidental discharge of firearms	0	0	0
Accidental drowning and submersion	10†	6	*
Accidental exposure to smoke, fire and flames	10†	*	*
Accidental poisoning	260	192	68
Excessive natural heat	10†	11	*
Excessive natural cold	20†	14	*
Other and unspecified nontransport accidents	58	44	14
Intentional self-harm (suicide)	122	95	27
By discharge of firearms	30†	26	*
By other means	91	69	22
Assault (homicide)	69	50	19
By discharge of firearms	43	34	9
By other means	26	16	10
Legal intervention	0†	*	0
Events of undetermined intent	20†	13	*
Discharge of firearms	0†	*	0
Other and unspecified events of undetermined intent	10†	11	*
Operations of war	0	0	0
Complications of medical and surgical care	10†	*	9
Injury by firearms	79	65	14
Drug-induced deaths	206	145	61
Opioid-induced deaths	132	89	43
Alcohol-induced deaths	488	320	168

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, 2021**

<b>Cause of death</b> (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>	4,380	22	12	19	128	461	556	634	808	756	569	415
Salmonella infections	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis and amebiasis	0	0	0	0	0	0	0	0	0	0	0	0
Certain other intestinal infections	10†	*	0	0	0	0	*	*	*	*	*	0
Enterocolitis due to Clostridium difficile	10†	0	0	0	0	0	0	*	*	*	*	0
Tuberculosis	0	0	0	0	0	0	0	0	0	0	0	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	*	*	8	8	7	*
Syphilis	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	0†	0	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	40†	0	*	0	0	*	*	7	9	7	*	*
Malignant neoplasms	330†	0	0	*	*	9	20	26	72	94	64	36
Malignant neoplasm of lip, oral cavity and pharynx	0†	0	0	0	0	0	0	0	0	*	*	0
Malignant neoplasm of esophagus	10†	0	0	0	0	0	0	0	*	*	*	*
Malignant neoplasm of stomach	30†	0	0	0	0	*	*	*	*	7	6	*
Malignant neoplasm of colon, rectum and anus	20†	0	0	0	0	0	*	*	6	*	*	*
Malignant neoplasm of liver and intrahepatic bile ducts	30†	0	0	0	0	*	0	*	10	12	*	*
Malignant neoplasm of pancreas	30†	0	0	0	0	0	0	*	8	11	*	*
Malignant neoplasm of larynx	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	*	*	7	*	*
Malignant melanoma of skin	0†	0	0	0	0	*	0	*	0	0	0	*
Malignant neoplasm of breast	30†	0	0	0	0	*	*	*	9	8	*	0
Malignant neoplasm of cervix uteri	10†	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	*	*	*	6	*	*
Malignant neoplasm of prostate	10†	0	0	0	0	0	0	0	*	*	*	*

**5.5 (continued)**  
**DEATHS BY AGE GROUP FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2021**

<b>Cause of death</b> (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	30†	0	0	0	0	0	*	*	10	6	*	*
Malignant neoplasm of bladder	0†	0	0	0	0	0	0	0	0	0	*	*
Malignant neoplasm of meninges, brain and other parts of central nervous system	0†	0	0	0	*	0	*	0	0	*	0	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	30†	0	0	*	*	*	*	*	*	8	8	6
Hodgkin's disease	0†	0	0	0	0	0	0	0	0	*	0	0
Non-Hodgkin's lymphoma	10†	0	0	0	0	0	0	*	*	*	*	*
Leukemia	20†	0	0	*	*	*	*	0	*	*	*	*
Multiple myeloma and immunoproliferative neoplasms	10†	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
All other and unspecified malignant neoplasm	60†	0	0	0	*	*	*	*	7	12	15	11
In situ neoplasms	10†	0	0	0	0	0	0	0	*	*	*	*
Anemias	0†	0	0	0	0	0	0	*	*	*	0	0
Diabetes	250†	0	0	0	*	*	17	42	46	70	49	16
Nutritional deficiencies	20†	0	0	0	0	*	0	*	0	*	*	8
Malnutrition	20†	0	0	0	0	*	0	*	0	*	*	*
Other nutritional deficiencies	0†	0	0	0	0	0	0	0	0	0	0	*
Obesity	20†	0	0	*	*	*	*	*	*	*	*	0
Meningitis	0†	0	0	0	0	*	0	0	0	*	0	0
Parkinson's disease	20†	0	0	0	0	0	0	0	*	*	9	6
Alzheimer's disease	41	0	0	0	0	0	0	0	0	8	6	27
Major cardiovascular diseases	502	0	0	0	0	11	32	59	100	98	103	99
Diseases of heart	350	0	0	0	0	9	21	37	74	70	69	70
Acute rheumatic fever and chronic rheumatic heart disease	0†	0	0	0	0	0	*	0	0	0	*	0
Hypertensive heart disease	40†	0	0	0	0	*	0	*	8	9	*	9
Hypertensive heart and renal disease	0†	0	0	0	0	0	0	*	*	0	*	*
Ischemic heart disease	194	0	0	0	0	0	9	15	43	37	49	41
Acute myocardial infarction	50†	0	0	0	0	0	6	*	8	9	13	9
Other acute ischemic heart disease	10†	0	0	0	0	0	0	0	*	*	*	*
Other forms of chronic ischemic heart disease	140†	0	0	0	0	0	*	10	34	25	35	30
Atherosclerotic cardiovascular disease	40†	0	0	0	0	0	*	*	10	8	6	*
All other forms of chronic ischemic heart disease	100†	0	0	0	0	0	*	*	24	17	29	25
Other heart diseases	110†	0	0	0	0	*	11	16	22	24	14	19
Acute and subacute endocarditis	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	*
Heart failure	30†	0	0	0	0	*	*	*	*	*	*	9
All other forms of heart disease	80†	0	0	0	0	*	9	11	18	18	10	9

**5.5 (continued)**  
**DEATHS BY AGE GROUP FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2021**

<b>Cause of death</b> (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	*	*	6	12	12	9	8
Cerebrovascular diseases	90†	0	0	0	0	*	8	15	13	14	23	20
Atherosclerosis	0	0	0	0	0	0	0	0	0	0	0	0
Other diseases of circulatory system	10†	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	10†	0	0	0	0	0	*	*	*	*	*	*
Other disorders of circulatory system	0†	0	0	0	0	0	*	0	0	*	0	0
Influenza and pneumonia	70†	0	0	0	0	*	*	6	18	18	10	9
Influenza	0	0	0	0	0	0	0	0	0	0	0	0
Pneumonia	70†	0	0	0	0	*	*	6	18	18	10	9
COVID-19	1,020†	0	*	*	10	62	81	168	236	223	162	74
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	0	*	*	9	13	6
Bronchitis, chronic and unspecified	0†	0	0	0	0	0	0	*	0	0	0	0
Emphysema	0†	0	0	0	0	0	0	0	*	0	0	*
Asthma	0†	0	0	0	*	0	0	0	0	0	0	0
Other chronic lower respiratory diseases	30†	0	0	0	0	0	0	*	*	9	13	*
Pneumoconioses and chemical effects	0†	0	0	0	0	0	0	0	0	0	*	0
Pneumonitis due to solids and liquids	10†	0	0	0	0	*	0	*	*	*	*	*
Other disease of respiratory system	70†	0	*	0	*	*	*	7	12	11	16	15
Peptic ulcer	10†	0	0	0	0	0	0	*	0	*	0	0
Diseases of appendix	0	0	0	0	0	0	0	0	0	0	0	0
Hernia	10†	0	0	0	0	0	*	0	*	*	0	*
Chronic liver disease and cirrhosis	400†	0	0	0	*	72	103	94	83	32	9	*
Alcoholic liver disease	300†	0	0	0	*	54	89	74	53	19	*	0
Other chronic liver disease and cirrhosis	100†	0	0	0	0	18	14	20	30	13	*	*
Cholelithiasis and other disorders of gallbladder	10†	0	0	0	0	0	*	0	0	*	*	*
Nephritis, nephrotic syndrome and nephrosis	60†	0	0	0	0	*	7	7	12	19	10	*
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	60†	0	0	0	0	*	7	7	12	19	10	*
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
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, 2021**

<b>Cause of death</b> (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	*	7	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	*	7	0	0	0	0	0
Perinatal conditions	8	8	0	0	0	0	0	0	0	0	0	0
Congenital anomalies, deformations and chromosomal abnormalities	20†	*	*	0	*	*	0	0	*	*	*	0
Symptoms, signs, abnormal findings	60†	*	*	0	*	7	10	*	10	*	*	12
Total accidents	570†	*	*	13	53	142	126	96	71	35	20	11
Transport accidents	200†	*	*	8	35	49	40	28	17	13	*	*
Motor vehicle accidents	190†	*	*	8	34	45	40	28	15	12	*	*
Other land transport accidents	10†	0	0	0	*	*	0	0	*	*	*	0
Water, air, space	0†	0	0	0	0	0	0	0	*	0	0	0
Nontransport accidents	380†	*	*	*	18	93	86	68	54	22	17	10
Falls	50†	0	0	0	0	*	*	*	6	11	10	6
Accidental discharge of firearms	0	0	0	0	0	0	0	0	0	0	0	0
Accidental drowning and submersion	10†	0	0	0	*	*	*	0	*	0	0	0
Accidental exposure to smoke, fire and flames	10†	0	*	*	0	0	*	*	*	0	*	0
Accidental poisoning	260†	0	*	*	16	86	65	55	26	8	*	0
Excessive natural heat	10†	0	0	0	*	*	*	*	*	*	*	0
Excessive natural cold	20†	0	0	0	0	*	*	*	6	*	*	0
Other and unspecified nontransport accidents	60†	*	0	*	*	*	10	6	20	*	*	*
Intentional self-harm (suicide)	120†	0	0	*	28	55	27	*	*	*	0	0
By discharge of firearms	30†	0	0	0	*	16	7	0	0	*	0	0
By other means	90†	0	0	*	23	39	20	*	*	0	0	0
Assault (homicide)	70†	0	0	0	13	26	17	6	*	*	0	*
By discharge of firearms	40†	0	0	0	10	14	14	*	0	*	0	0
By other means	30†	0	0	0	*	12	*	*	*	*	0	*
Legal intervention	0†	0	0	0	0	*	0	0	*	0	0	0
Events of undetermined intent	20†	0	*	0	0	*	6	0	*	*	0	0
Discharge of firearms	0†	0	0	0	0	*	*	0	0	0	0	0
Other and unspecified events of undetermined intent	10†	0	*	0	0	*	*	0	*	*	0	0
Operations of war	0	0	0	0	0	0	0	0	0	0	0	0
Complications of medical and surgical care	10†	0	0	0	0	0	*	*	*	6	*	*
Injury by firearms	80†	0	0	0	15	33	22	*	*	*	0	0
Drug-induced deaths	210†	0	*	*	14	72	56	37	20	*	0	0
Opioid-induced deaths	130†	0	*	*	11	54	38	18	6	*	0	0
Alcohol-induced deaths	490†	0	0	0	*	94	134	120	87	36	11	*

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, 2021

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ALL AMERICAN INDIAN RESIDENTS OF ARIZONA	Resided on reservation																		Resided off reservation					
		Ak-Chin Indian Community	Cocopah Tribe	Colorado River Indian Tribe	Fort McDowell Yavapai Nation Reservation	Fort Mohave Reservation	Gila River Indian Community	Havasupai Tribe	Hopi Tribe	Hualapai Tribe	Kaibab Indian Reservation	Navajo Nation	Pascua Yaqui Tribe	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	Tohono O'Odham Nation	White Mountain Apache Tribe	Yavapai-Apache Nation	Yavapai-Prescott Indian Tribe	Total	in Maricopa County	in Pima County	in Coconino County	elsewhere in Arizona	Total
Total, all causes	4,380	9	8	25	29	7	236	3	153	32	1	1,366	49	92	194	147	184	18	4	2,560+	812	275	155	581	1,823
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	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	10+	0	0	*	*	0+
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	37	0	0	*	*	0	*	0	*	0	0	11	0	0	*	*	*	0	0	20+	*	*	*	*	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
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	0+	0	0	0	0	0	0	0	0	0	0	*	0	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	0	0	*	0	0	10+	*	*	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	35	0	0	0	0	0	*	0	*	*	0	8	0	*	*	*	*	0	0	20+	9	0	0	6	15
Malignant neoplasms	327	*	0	*	*	*	15	0	9	0	0	113	*	*	11	10	16	0	*	190+	63	24	11	41	139
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	0	0	0	0	0+	*	*	0	0	10+
Malignant neoplasm of stomach	25	0	0	0	0	0	*	0	0	0	0	12	*	0	*	0	*	0	0	20+	*	*	*	*	10+
Malignant neoplasm of colon, rectum and anus	21	0	0	0	0	0	*	0	0	0	0	8	0	0	*	*	*	0	*	10+	*	*	*	*	10+
Malignant neoplasm of liver and intrahepatic bile ducts	30	0	0	0	0	*	*	0	*	0	0	7	0	*	*	*	*	0	0	20+	8	0	*	*	10+
Malignant neoplasm of pancreas	30	0	0	0	0	0	*	0	0	0	0	10	0	*	*	0	*	0	0	20+	*	*	*	*	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	0	0
Malignant neoplasm of trachea, bronchus and lung	20+	0	0	0	0	0	*	0	*	0	0	*	0	0	0	0	0	0	0	0+	11	*	0	*	20+
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
Malignant neoplasm of breast	28	0	0	0	0	0	*	0	0	0	0	10	0	0	0	0	*	0	0	10+	7	*	*	*	20+
Malignant neoplasm of cervix uteri	10+	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	10+	0	0	0	0	0	0	0	*	0	0	*	0	0	0	*	*	0	0	10+	*	*	0	*	0+
Malignant neoplasm of ovary	10+	*	0	0	*	0	0	0	0	0	0	*	0	0	*	0	*	0	0	10+	*	*	*	*	0+
Malignant neoplasm of prostate	10+	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0	*	0	0	10+	*	*	0	*	10+
Malignant neoplasm of kidney and renal pelvis	26	0	0	0	0	0	*	0	*	0	0	6	0	0	0	0	*	0	0	10+	6	*	*	*	10+

**5.6 (continued)**  
**DEATHS BY RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2021**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ALL AMERICAN INDIAN RESIDENTS OF ARIZONA	Resided on reservation																		Resided off reservation						
		Ak-Chin Indian Community	Cocopah Tribe	Colorado River Indian Tribe	Fort McDowell Yavapai Nation Reservation	Fort Mohave Reservation	Gila River Indian Community	Havasupai Tribe	Hopi Tribe	Hualapai Tribe	Kaibab Indian Reservation	Navajo Nation	Pascua Yaqui Tribe	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	Tohono O'Odham Nation	White Mountain Apache Tribe	Yavapai-Apache Nation	Yavapai-Prescott Indian 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†
Malignant neoplasm of meninges, brain and other parts of CNS	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 lymphoid, hematopoietic and related tissue	32	0	0	0	0	0	0	0	*	0	0	16	0	*	*	*	0	0	0	20†	6	*	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†	
Non-Hodgkin's lymphoma	10†	0	0	0	0	0	0	0	0	0	0	7	0	0	0	*	0	0	0	10†	*	0	0	*	0†	
Leukemia	15	0	0	0	0	0	0	0	*	0	0	6	0	*	0	0	0	0	0	10†	*	*	0	*	10†	
Multiple myeloma and immunoproliferative neoplasms	10†	0	0	0	0	0	0	0	0	0	0	*	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	0	0	0	*	0	0	0	0†	
All other and unspecified malignant neoplasm	55	0	0	0	0	0	*	0	*	0	0	24	*	*	*	*	*	0	0	40†	6	6	0	8	20	
In situ neoplasms	10†	0	0	0	0	0	*	0	0	0	0	*	0	0	*	0	0	0	0	0†	*	0	*	*	0†	
Anemias	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0†	*	*	0	0	0†	
Diabetes	246	*	*	*	*	*	20	*	6	*	0	69	*	9	21	13	*	*	0	150†	41	22	6	23	92	
Nutritional deficiencies	20	0	0	0	0	0	0	0	0	*	0	*	0	0	*	0	*	*	0	10†	*	*	0	6	10†	
Malnutrition	17	0	0	0	0	0	0	0	0	*	0	*	0	0	*	0	*	*	0	10†	*	*	0	*	10†	
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†	
Obesity	20	0	0	0	0	0	*	0	*	0	0	*	0	*	*	*	*	0	0	10†	*	*	0	0	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	
Parkinson's disease	20	0	0	*	0	0	*	0	*	0	0	6	0	0	*	*	0	0	0	10†	*	0	0	*	10†	
Alzheimer's disease	41	0	0	0	0	0	*	0	0	0	0	11	0	0	*	*	*	0	0	20†	7	6	*	*	20†	
Major cardiovascular diseases	502	*	*	*	*	0	22	0	14	*	0	144	*	6	28	17	24	*	*	270†	96	31	17	84	228	
Diseases of heart	350	*	*	*	*	0	17	0	9	*	0	94	*	*	21	10	18	*	0	190†	64	24	12	63	163	
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†	
Hypertensive heart disease	38	0	0	0	0	0	6	0	*	0	0	6	0	*	*	*	*	*	0	20†	10	0	*	*	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†	
Ischemic heart disease	194	*	0	*	*	0	*	0	7	0	0	60	*	*	10	*	9	0	0	100†	31	14	7	38	90	
Acute myocardial infarction	50	*	0	0	0	0	*	0	*	0	0	26	*	*	*	*	0	0	0	40†	*	*	*	8	10†	
Other acute ischemic heart disease	10†	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	137	0	0	*	*	0	*	0	*	0	0	32	0	0	9	*	8	0	0	60†	27	13	6	28	74	
Atherosclerotic cardiovascular disease	36	0	0	*	0	0	0	0	*	0	0	6	0	0	*	0	*	0	0	10†	14	*	0	6	20†	
All other forms of chronic ischemic heart disease	101	0	0	*	*	0	*	0	*	0	0	26	0	0	8	*	*	0	0	50†	13	9	6	22	50	
Other heart diseases	111	*	*	*	0	0	*	0	*	*	0	28	0	0	6	*	*	0	0	60†	22	9	*	21	60†	
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†	
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	
Heart failure	28	0	*	0	0	0	*	0	0	0	0	9	0	0	0	*	*	0	0	20†	*	*	0	6	10†	
All other forms of heart disease	79	*	0	*	0	0	*	0	*	*	0	18	0	0	6	*	*	0	0	40†	16	8	*	14	40†	

**5.6 (continued)**  
**DEATHS BY RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2021**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ALL AMERICAN INDIAN RESIDENTS OF ARIZONA	Resided on reservation																	Resided off reservation						
		Ak-Chin Indian Community	Cocopah Tribe	Colorado River Indian Tribe	Fort McDowell Yavapai Nation Reservation	Fort Mohave Reservation	Gila River Indian Community	Havasupai Tribe	Hopi Tribe	Hualapai Tribe	Kaibab Indian Reservation	Navajo Nation	Pascua Yaqui Tribe	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	Tohono O'Odham Nation	White Mountain Apache Tribe	Yavapai-Apache Nation	Yavapai-Prescott Indian Tribe	Total	in Maricopa County	in Pima County	in Coconino County	elsewhere in Arizona	Total
Essential (primary) hypertension and hypertensive renal disease	49	0	0	*	0	0	*	0	*	0	0	10	0	*	*	*	*	0	*	30†	10	*	*	9	20†
Cerebrovascular diseases	94	0	0	*	*	0	*	0	*	0	0	35	0	*	*	*	*	0	0	60†	20	*	*	12	40†
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	0
Other diseases of circulatory system	10†	0	0	0	0	0	0	0	0	0	0	*	0	0	0	*	0	0	0	10†	*	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†
Other disease of arteries, arterioles and capillaries	10†	0	0	0	0	0	0	0	0	0	0	*	0	0	0	*	0	0	0	10†	*	0	0	0	0†
Other disorders of circulatory system	0†	*	0	0	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0†	0	0	0	0	0
Influenza and pneumonia	69	0	*	*	*	0	*	0	*	0	0	27	0	*	*	*	*	*	0	50†	8	*	*	9	20†
Influenza	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
Pneumonia	69	0	*	*	*	0	*	0	*	0	0	27	0	*	*	*	*	*	0	50†	8	*	*	9	20†
COVID-19	1,019	*	*	8	7	*	62	*	40	9	0	299	9	24	29	25	18	*	*	540†	233	61	28	154	476
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	35	0	0	0	*	0	*	0	*	0	0	*	0	*	0	0	*	*	0	10†	9	*	*	7	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
Emphysema	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	0	0†
Other chronic lower respiratory diseases	31	0	0	0	*	0	*	0	*	0	0	*	0	*	0	0	*	0	0	10†	8	*	*	7	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	0
Pneumonitis due to solids and liquids	10†	0	0	*	0	0	0	0	0	0	0	6	0	0	*	0	*	0	0	10†	*	0	0	*	10†
Other disease of respiratory system	69	0	0	0	0	0	*	0	*	*	*	18	*	*	*	*	*	0	0	40†	14	*	*	13	30†
Peptic ulcer	10†	0	0	0	0	0	0	0	0	0	0	*	0	0	0	*	0	0	0	10†	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	0
Hernia	10†	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	396	0	0	*	*	*	24	0	14	*	0	89	6	12	25	19	32	0	0	230†	63	26	20	55	164
Alcoholic liver disease	296	0	0	*	*	*	16	0	10	*	0	65	*	10	22	11	24	0	0	170†	50	10	20	46	126
Other chronic liver disease and cirrhosis	100	0	0	*	*	0	8	0	*	0	0	24	*	*	*	8	8	0	0	60†	13	16	0	9	38
Cholelithiasis and other disorders of gallbladder	10†	0	0	0	0	0	0	0	0	0	0	*	0	*	*	0	0	0	0	10†	0	0	*	0	0†
Nephritis, nephrotic syndrome and nephrosis	60	0	0	0	*	0	6	0	*	*	0	12	*	0	*	*	*	0	0	40†	6	7	*	*	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	60	0	0	0	*	0	6	0	*	*	0	12	*	0	*	*	*	0	0	40†	6	7	*	*	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, 2021**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ALL AMERICAN INDIAN RESIDENTS OF ARIZONA	Resided on reservation																	Resided off reservation							
		Ak-Chin Indian Community	Cocopah Tribe	Colorado River Indian Tribe	Fort McDowell Yavapai Nation Reservation	Fort Mohave Reservation	Gila River Indian Community	Havasupai Tribe	Hopi Tribe	Hualapai Tribe	Kaibab Indian Reservation	Navajo Nation	Pascua Yaqui Tribe	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	Tohono O'Odham Nation	White Mountain Apache Tribe	Yavapai-Apache Nation	Yavapai-Prescott Indian 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	10†	*	0	*	*	0†
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	10†	*	0	*	*	0†
Perinatal conditions	10†	0	0	0	0	0	0	0	0	0	0	*	0	0	0	*	*	0	0	0	0†	*	*	*	*	10†
Congenital anomalies, deformations and chromosomal abnormalities	16	0	0	0	0	0	*	0	*	0	0	*	*	0	0	0	*	0	0	0	10†	*	*	*	*	10†
Symptoms, signs, abnormal findings	59	0	0	0	*	0	*	0	*	0	0	27	*	*	*	0	*	0	0	0	40†	*	*	*	11	20†
Total accidents	574	0	0	0	*	0	27	0	20	7	0	211	*	18	20	13	22	*	*	350†	106	39	20	56	221	
Transport accidents	196	0	0	0	*	0	12	0	10	*	0	68	*	6	14	8	8	*	0	130†	25	7	8	22	62	
Motor vehicle accidents	187	0	0	0	*	0	12	0	10	*	0	64	*	6	13	8	7	*	0	130†	24	7	8	20	59	
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	0†	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0†	
Nontransport accidents	378	0	0	0	*	0	15	0	10	*	0	143	*	12	6	*	14	*	*	220†	81	32	12	34	159	
Falls	45	0	0	0	0	0	*	0	0	*	0	20	*	*	*	*	*	0	*	30†	*	*	*	6	20†	
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	0	0	
Accidental drowning and submersion	10†	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	10†	*	0	0	*	0†	
Accidental exposure to smoke, fire and flames	10†	0	0	0	0	0	0	0	0	0	0	*	0	*	0	0	0	0	0	10†	0	0	*	*	0†	
Accidental poisoning	260	0	0	0	*	0	13	0	6	*	0	85	*	9	*	*	10	*	0	140†	70	24	7	21	122	
Excessive natural heat	13	0	0	0	0	0	*	0	0	0	0	*	0	0	0	0	0	0	0	10†	*	*	0	*	10†	
Excessive natural cold	20†	0	0	0	0	0	0	0	*	0	0	12	*	0	*	0	*	0	0	20†	0	0	0	*	0†	
Other and unspecified nontransport accidents	58	0	0	0	0	0	*	0	*	0	0	28	*	*	*	*	*	0	0	40†	8	*	*	*	20†	
Intentional self-harm (suicide)	122	0	0	*	0	0	*	0	*	*	0	56	*	0	*	*	8	*	0	90†	15	*	*	13	40†	
By discharge of firearms	31	0	0	*	0	0	*	0	*	0	0	11	*	0	*	0	0	0	0	20†	7	*	*	*	10†	
By other means	91	0	0	0	0	0	*	0	*	*	0	45	0	0	*	*	8	*	0	70†	8	*	*	9	20†	
Assault (homicide)	69	0	0	0	*	0	14	0	*	0	0	20	*	*	*	0	*	0	0	50†	14	*	*	*	20†	
By discharge of firearms	43	0	0	0	*	0	9	0	*	0	0	9	*	*	*	0	*	0	0	30†	12	*	*	*	20†	
By other means	30†	0	0	0	0	0	*	0	*	0	0	11	*	0	0	0	0	0	0	20†	*	0	*	*	10†	
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	16	0	0	0	0	0	0	0	0	0	0	7	0	0	*	*	*	0	0	10†	*	0	*	*	10†	
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†	
Other and unspecified events of undetermined intent	10†	0	0	0	0	0	0	0	0	0	0	6	0	0	*	*	*	0	0	10†	*	0	*	*	10†	
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	8	0	0	0	0	0	0	0	10†	0	*	0	*	0†	
Injury by firearms	79	0	0	*	*	0	11	0	*	0	0	23	*	*	*	0	*	0	0	50†	21	*	*	6	30†	
Drug-induced deaths	206	0	0	0	*	0	11	0	*	*	0	49	*	9	*	*	6	*	0	90†	66	24	*	18	110†	
Opioid-induced deaths	132	0	0	0	*	0	9	0	0	0	0	24	*	8	0	*	*	*	0	60†	51	15	*	9	80†	
Alcohol-induced deaths	488	0	0	*	*	*	21	0	19	*	0	159	*	11	28	15	39	*	0	310†	75	11	32	64	182	

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, 2021

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Total, all causes</b>	4,380†	864	14	487	185	59	2	46	981	82	757	467	319	0	59	35	23
Salmonella infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis and amebiasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Certain other intestinal infections	10†	*	0	*	*	*	0	0	*	0	*	*	*	0	0	0	0
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†	7	*	*	*	*	0	*	*	0	6	8	*	0	0	0	0
Syphilis	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0†	*	0	0	0	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
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	40†	6	0	*	*	0	0	0	10	*	*	*	*	0	*	0	0
Malignant neoplasms	330†	68	0	39	12	*	0	*	71	6	54	38	26	0	*	*	*
Malignant neoplasm of lip, oral cavity and pharynx	0†	*	0	0	0	0	0	0	0	0	0	*	0	0	0	0	0
Malignant neoplasm of esophagus	10†	*	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0
Malignant neoplasm of stomach	30†	6	0	6	*	*	0	0	*	0	*	*	*	0	0	0	0
Malignant neoplasm of colon, rectum and anus	20†	7	0	*	*	0	0	0	*	0	*	*	*	0	*	0	0
Malignant neoplasm of liver and intrahepatic bile ducts	30†	*	0	*	*	0	0	0	10	*	*	*	*	0	0	0	0
Malignant neoplasm of pancreas	30†	*	0	6	*	*	0	0	8	*	*	*	*	0	0	0	*
Malignant neoplasm of larynx	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	11	*	*	*	*	0	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	30†	*	0	*	0	*	0	0	7	*	*	*	*	0	*	*	0
Malignant neoplasm of cervix uteri	10†	*	0	0	0	*	0	0	*	0	0	*	0	0	0	0	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	10†	*	0	*	*	0	0	0	*	0	*	*	*	0	0	0	0
Malignant neoplasm of ovary	10†	*	0	*	0	*	0	0	*	0	*	*	*	0	0	0	0
Malignant neoplasm of prostate	10†	*	0	0	0	0	0	0	*	0	*	*	0	0	0	0	0
Malignant neoplasm of kidney and renal pelvis	30†	*	0	*	0	0	0	0	6	0	8	*	*	0	0	0	0
Malignant neoplasm of bladder	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, 2021**

<b>Cause of death</b> (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	0†	*	0	0	0	0	0	0	0	0	*	0	0	0	0	0	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	30†	12	0	*	*	0	0	0	7	*	*	*	*	0	0	0	0
Hodgkin's disease	0†	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Hodgkin's lymphoma	10†	6	0	0	0	0	0	0	*	0	*	*	*	0	0	0	0
Leukemia	20†	*	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
All other and unspecified malignant neoplasm	60†	11	0	6	*	0	0	*	7	0	12	10	*	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
Diabetes	250†	34	0	24	20	*	0	*	56	*	30	38	25	0	*	*	*
Nutritional deficiencies	20†	0	0	*	*	0	0	0	*	*	8	*	0	0	*	0	0
Malnutrition	20†	0	0	*	*	0	0	0	*	*	6	*	0	0	*	0	0
Other nutritional deficiencies	0†	0	0	*	0	0	0	0	0	0	*	0	0	0	0	0	0
Obesity	20†	*	0	0	*	0	0	0	*	0	*	*	*	0	0	0	0
Meningitis	0†	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parkinson's disease	20†	*	0	*	*	*	0	*	*	0	*	*	*	0	0	0	0
Alzheimer's disease	40†	*	*	9	*	*	0	0	7	0	*	7	*	0	*	0	0
Major cardiovascular diseases	500†	91	*	56	23	12	0	11	109	12	85	52	37	0	7	*	*
Diseases of heart	350†	62	*	35	18	8	0	7	72	11	58	38	31	0	*	*	*
Acute rheumatic fever and chronic rheumatic heart disease	0†	0	0	*	*	*	0	0	0	0	0	0	0	0	0	0	0
Hypertensive heart disease	40†	*	0	*	*	*	0	0	13	0	6	*	*	0	*	0	0
Hypertensive heart and renal disease	0†	0	0	0	0	0	0	0	*	0	0	*	*	0	0	0	0
Ischemic heart disease	190†	42	0	19	8	*	0	*	36	7	38	22	10	0	*	*	*
Acute myocardial infarction	50†	20	0	7	*	0	0	*	*	0	9	*	*	0	0	0	0
Other acute ischemic heart disease	10†	*	0	*	0	0	0	0	*	0	*	*	*	0	0	0	0
Other forms of chronic ischemic heart disease	140†	21	0	11	7	*	0	*	31	7	27	16	6	0	*	*	*
Atherosclerotic cardiovascular disease	40†	*	0	0	*	0	0	*	14	*	6	*	*	0	0	0	*
All other forms of chronic ischemic heart disease	100†	16	0	11	6	*	0	*	17	*	21	12	*	0	*	*	0
Other heart diseases	110†	17	*	12	6	*	0	*	22	*	14	14	14	0	*	*	0
Acute and subacute endocarditis	0†	0	0	0	0	0	0	0	*	0	0	*	*	0	0	0	0
Diseases of pericardium and acute myocarditis	0†	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heart failure	30†	*	*	*	*	0	0	*	*	0	*	*	*	0	0	*	0
All other forms of heart disease	80†	11	0	9	*	*	0	*	16	*	9	11	9	0	*	*	0
Essential (primary) hypertension and hypertensive renal disease	50†	7	0	6	*	*	0	*	11	*	11	*	*	0	*	0	0
Cerebrovascular diseases	90†	21	*	13	*	*	0	*	24	0	14	9	*	0	*	0	*

**5.7 (continued)**  
**DEATHS BY COUNTY OF RESIDENCE FOR SELECTED CAUSES AMONG AMERICAN INDIANS, ARIZONA, 2021**

<b>Cause of death</b> (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	0
Other diseases of circulatory system	10†	*	0	*	0	0	0	0	*	0	*	*	0	0	0	0	0
Aortic aneurysm and dissection	0†	0	0	*	0	0	0	0	*	0	0	0	0	0	0	0	0
Other disease of arteries, arterioles and capillaries	10†	*	0	*	0	0	0	0	*	0	*	*	0	0	0	0	0
Other disorders of circulatory system	0†	*	0	0	*	0	0	0	0	0	0	0	*	0	0	0	0
Influenza and pneumonia	70+	17	0	8	*	*	0	*	10	0	14	7	6	0	*	*	0
Influenza	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pneumonia	70+	17	0	8	*	*	0	*	10	0	14	7	6	0	*	*	0
COVID-19	1,020+	184	*	111	30	10	*	11	277	21	164	94	84	0	15	10	*
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	0	0	0	11	0	7	*	*	0	*	*	0
Bronchitis, chronic and unspecified	0†	0	0	0	0	0	0	0	0	0	0	0	0	0	*	0	0
Emphysema	0†	0	0	0	0	0	0	0	0	0	*	*	0	0	0	0	0
Asthma	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Other chronic lower respiratory diseases	30+	*	0	*	0	0	0	0	10	0	6	*	*	0	*	*	0
Pneumoconioses and chemical effects	0†	0	0	0	0	0	0	0	0	0	*	0	0	0	0	0	0
Pneumonitis due to solids and liquids	10+	*	0	*	*	0	0	*	*	0	*	0	0	0	0	*	*
Other disease of respiratory system	70+	14	0	7	*	*	0	*	16	*	11	7	*	0	*	0	0
Peptic ulcer	10+	*	0	*	0	0	0	0	0	0	0	*	0	0	0	0	0
Diseases of appendix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hernia	10+	*	0	*	0	0	0	0	*	*	0	0	0	0	0	0	0
Chronic liver disease and cirrhosis	400+	64	0	42	31	*	0	7	84	7	77	51	24	0	*	*	*
Alcoholic liver disease	300+	44	0	40	27	*	0	*	66	7	58	25	16	0	*	*	*
Other chronic liver disease and cirrhosis	100+	20	0	*	*	0	0	*	18	0	19	26	8	0	*	0	0
Cholelithiasis and other disorders of gallbladder	10+	*	0	*	*	0	0	*	0	0	*	0	0	0	0	0	0
Nephritis, nephrotic syndrome and nephrosis	60+	9	0	*	*	*	0	0	9	*	11	13	*	0	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	60+	9	0	*	*	*	0	0	9	*	11	13	*	0	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
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, 2021**

<b>Cause of death</b> (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
Perinatal conditions	10†	*	0	*	0	0	0	0	*	0	*	*	0	0	0	0	0
Congenital anomalies, deformations and chromosomal abnormalities	20†	*	*	*	0	0	0	0	*	0	*	*	*	0	0	*	0
Symptoms, signs, abnormal findings	60†	26	0	7	*	0	0	0	7	*	7	*	*	0	0	0	*
Total accidents	570†	122	*	70	13	10	0	0	135	10	107	57	29	0	11	*	6
Transport accidents	200†	50	*	18	8	8	0	0	36	7	39	16	10	0	*	0	*
Motor vehicle accidents	190†	46	*	18	8	7	0	0	35	6	37	16	10	0	*	0	*
Other land transport accidents	10†	*	0	0	0	*	0	0	0	*	*	0	0	0	0	0	0
Water, air, space	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Nontransport accidents	380†	72	0	52	*	*	0	0	99	*	68	41	19	0	10	*	*
Falls	50†	8	0	9	*	0	0	0	*	*	11	7	*	0	*	0	0
Accidental discharge of firearms	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	0	0	0
Accidental exposure to smoke, fire and flames	10†	*	0	*	0	0	0	0	*	0	*	0	0	0	0	0	0
Accidental poisoning	260†	39	0	32	*	*	0	0	84	*	43	29	16	0	7	*	*
Excessive natural heat	10†	*	0	*	0	0	0	0	*	*	*	*	0	0	0	0	*
Excessive natural cold	20†	10	0	0	0	*	0	0	0	0	*	*	0	0	0	0	0
Other and unspecified nontransport accidents	60†	19	0	7	0	*	0	0	10	*	12	*	*	0	*	0	*
Intentional self-harm (suicide)	120†	35	*	15	*	*	*	*	16	*	24	12	6	0	*	0	*
By discharge of firearms	30†	*	0	*	0	*	0	*	8	0	*	*	*	0	0	0	0
By other means	90†	31	*	11	*	*	*	0	8	*	19	9	*	0	*	0	*
Assault (homicide)	70†	17	0	*	0	*	0	0	19	0	10	*	12	0	*	0	0
By discharge of firearms	40†	10	0	*	0	*	0	0	16	0	*	*	8	0	0	0	0
By other means	30†	7	0	*	0	0	0	0	*	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	20†	8	0	*	*	0	0	0	*	0	*	*	0	0	0	0	0
Discharge of firearms	0†	*	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Other and unspecified events of undetermined intent	10†	7	0	*	*	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
Injury by firearms	80†	17	0	*	0	*	0	*	26	0	8	7	12	0	0	0	0
Drug-induced deaths	210†	20	*	20	*	*	0	0	81	*	26	30	13	0	6	*	*
Opioid-induced deaths	130†	9	0	7	0	*	0	0	64	0	16	19	11	0	*	0	*
Alcohol-induced deaths	490†	98	0	73	35	*	0	*	92	8	110	30	25	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, 2021**

		TOTAL	Resided on reservation												Resided off reservation				
			Fort McDowell Yavapai Nation Reservation	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-Apache Nation	TOTAL	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	TOTAL
TOTAL	ALL AGES	190†	0†	10†	10†	10†	60†	0†	10†	10†	10†	10†	0†	130†	20†	10†	10†	20†	60†
	<1	0†	0	0	0	0	*	0	0	0	0	0	0	1	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	10†	0	0	*	*	*	0	*	0	*	0	0	10†	0	0	0	*	0†
	15-24	34	0	*	*	*	8	*	*	*	*	*	0	20†	*	*	*	*	10†
	25-34	45	0	*	*	*	16	0	*	*	*	*	0	30†	7	*	*	*	10†
	35-44	40	*	*	0	0	13	0	*	*	*	*	0	30†	6	*	*	*	20†
	45-54	28	0	*	*	0	12	0	0	*	0	*	0	20†	*	*	*	*	10†
	55-64	20†	0	*	*	*	8	0	0	0	0	0	0	11	*	*	0	0	0†
	65-74	10†	0	*	*	0	*	0	*	*	0	*	*	10†	*	0	0	0	0†
	75-84	0†	0	0	0	0	*	0	0	0	0	0	0	1	*	0	0	0	0†
85+	0†	0	0	0	0	*	0	0	0	0	0	0	1	0	0	0	0	0	
M	ALL AGES	120†	0†	10†	10†	0†	50†	0	0†	10†	0†	10†	0†	80†	10†	10†	10†	10†	40†
	<1	0†	0	0	0	0	*	0	0	0	0	0	0	1	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	10†	0	0	*	0	*	0	*	0	*	0	0	0†	0	0	0	*	0†
	15-24	21	0	0	*	*	*	0	*	*	*	*	0	20†	*	0	*	*	10†
	25-34	32	0	*	*	0	13	0	0	*	0	*	0	20†	6	*	*	*	10†
	35-44	18	*	*	0	0	6	0	0	*	*	*	0	10†	*	*	*	*	10†
	45-54	19	0	*	*	0	9	0	0	*	0	0	0	10†	0	*	*	*	10†
	55-64	10†	0	*	0	0	7	0	0	0	0	0	0	8	*	*	0	0	0†
	65-74	10†	0	*	*	0	*	0	*	*	0	*	*	10†	*	0	0	0	0†
	75-84	0†	0	0	0	0	*	0	0	0	0	0	0	1	*	0	0	0	0†
85+	0†	0	0	0	0	*	0	0	0	0	0	0	1	0	0	0	0	0	
F	ALL AGES	70†	0	10†	0†	0†	20†	0†	0†	10†	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†
	5-14	0†	0	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	10†	0	*	0	*	*	0	*	0	*	0	0	10†	*	0	0	*	0†
	35-44	22	0	0	0	0	7	0	*	*	*	0	0	10†	*	0	*	*	10†
	45-54	10†	0	0	*	0	*	0	0	0	0	*	0	10†	*	0	0	*	0†
	55-64	10†	0	0	*	*	*	0	0	0	0	0	0	3	*	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	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, 2021**

		TOTAL	Resided on reservation											Resided off reservation				
			Colorado River Indian Tribe	Gila River Indian Community	Hopi Tribe	Hualapai Tribe	Navajo Nation	Pascua Yaqui Tribe	San Carlos Apache Tribe	Tohono O'Odham Nation	White Mountain Apache Tribe	Yavapai-Apache Nation	TOTAL	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	TOTAL
TOTAL	ALL AGES	120†	0†	0†	0†	0†	60†	0†	0†	10†	10†	0†	90†	20†	10†	0†	10†	40†
	<1	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	28	0	*	0	*	15	0	0	*	*	0	20†	*	*	0	*	10†
	25-34	55	0	*	*	0	22	*	*	*	*	*	40†	9	*	0	7	20†
	35-44	27	0	*	*	*	9	*	*	*	*	0	20†	*	*	*	*	10†
	45-54	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
	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	
M	ALL AGES	100†	0†	0†	0†	0†	40†	0†	0†	0†	10†	0†	60†	10†	10†	0†	10†	30†
	<1	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	18	0	*	0	*	9	0	0	0	*	0	10†	*	*	0	*	10†
	25-34	45	0	*	*	0	16	*	*	*	*	*	30†	7	*	0	6	20†
	35-44	21	0	0	*	*	7	0	*	*	0	0	10†	*	*	*	*	10†
	45-54	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
	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	
F	ALL AGES	30†	0	0†	0†	0	20†	0†	0	0†	0†	0	20†	0†	0	0	0†	0†
	<1	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	10†	0	0	0	0	6	0	0	*	*	0	10†	0	0	0	*	0†
	25-34	10†	0	0	*	0	6	0	0	0	0	0	10†	*	0	0	*	0†
	35-44	6	0	*	0	0	*	*	0	*	*	0	10†	0	0	0	0	0
	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	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
85+	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.

**5.10**  
**ASSAULT (HOMICIDE) AMONG AMERICAN INDIANS BY PLACE OF RESIDENCE, GENDER, AND AGE GROUP,**  
**ARIZONA, 2021**

		TOTAL	Resided on reservation									Resided off reservation				
			Fort McDowell Yavapai Nation Reservation	Gila River Indian Community	Hopi Tribe	Navajo Nation	Pascua Yaqui Tribe	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</b>	<b>ALL AGES</b>	70†	0†	10†	10†	20†	0†	0†	0†	0†	50†	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	0	0
	15-24	13	0	*	0	*	0	0	0	0	10†	6	0	0	*	10†
	25-34	26	*	*	*	8	0	0	0	*	20†	*	0	*	*	10†
	35-44	17	*	*	*	*	*	0	*	0	10†	*	*	*	*	10†
	45-54	6	0	*	*	*	0	*	0	0	10†	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†
	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
<b>M</b>	<b>ALL AGES</b>	50†	0†	10†	0†	10†	0†	0†	0†	0†	30†	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	0	0
	15-24	10†	0	*	0	*	0	0	0	0	0†	*	0	0	*	10†
	25-34	19	0	*	*	6	0	0	0	*	10†	*	0	0	*	10†
	35-44	13	*	*	*	0	*	0	*	0	10†	*	*	*	*	10†
	45-54	6	0	*	*	*	0	*	0	0	10†	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
<b>F</b>	<b>ALL AGES</b>	20†	0†	0†	0†	10†	0†	0	0	0	20†	0†	0†	0†	0	0†
	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15-24	0†	0	*	0	*	0	0	0	0	0†	*	0	0	0	0†
	25-34	10†	*	*	*	*	0	0	0	0	10†	*	0	*	0	0†
	35-44	0†	0	*	0	*	0	0	0	0	0†	0	0	0	0	0
	45-54	0	0	0	0	0	0	0	0	0	0	0	0	0	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†
	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

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, 2021**

		TOTAL	Resided on reservation																	Resided off reservation						
			Ak-Chin Indian Community	Cocopah Tribe	Colorado River Indian Tribe	Fort McDowell Yavapai Nation Reservation	Fort Mohave Reservation	Gila River Indian Community	Havasupai Tribe	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- Apache Nation	Yavapai-Prescott Indian Tribe	TOTAL	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	TOTAL	
TOTAL	ALL AGES	760+	10+	0+	0+	10+	0+	60+	0+	40+	10+	220+	20+	20+	40+	30+	20+	10+	0+	470+	130+	60+	20+	80+	290+	
	<1	0	0	0	0	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	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	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	0	0+	
	25-34	20+	0	0	0	0	0	*	0	*	*	*	*	*	*	0	*	0	0	20+	*	*	0	*	10+	
	35-44	54	*	0	0	*	0	*	*	*	0	14	*	*	*	*	*	0	0	40+	11	*	*	*	0	20+
	45-54	130	0	*	0	0	*	11	0	*	*	24	*	6	8	8	*	*	*	80+	32	*	*	*	15	50+
	55-64	160	*	*	*	*	0	15	0	6	*	42	*	*	7	*	*	*	*	90+	31	10	*	26	70+	
	65-74	191	*	*	*	0	0	16	0	9	*	49	*	7	11	10	7	0	0	120+	31	17	8	19	75	
75-84	140	*	0	*	*	0	9	0	9	*	53	*	*	*	*	*	*	0	90+	17	16	*	10	50+		
85+	60	0	0	0	*	0	*	0	*	*	28	*	*	*	*	*	*	0	40+	*	*	*	6	20+		
M	ALL AGES	420+	0+	0+	0+	0+	0+	30+	0+	20+	0+	130+	10+	10+	20+	20+	10+	0+	0	260+	70+	30+	10+	40+	160+	
	<1	0	0	0	0	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	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	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	0	0+	
	25-34	10+	0	0	0	0	0	*	0	*	0	*	*	0	0	0	*	0	0	10+	*	0	0	*	0+	
	35-44	37	*	0	0	*	0	*	*	*	0	9	*	*	*	*	0	0	0	20+	7	*	*	0	10+	
	45-54	79	0	*	0	0	*	*	0	*	*	21	*	*	*	*	*	*	0	50+	21	*	0	8	30+	
	55-64	100	0	*	*	0	0	8	0	*	*	31	0	0	*	*	*	*	0	50+	16	8	*	19	50+	
	65-74	97	0	0	0	0	0	7	0	*	0	28	0	*	*	7	*	0	0	60+	21	8	6	7	42	
75-84	66	0	0	*	*	0	*	0	*	0	28	*	*	*	0	*	0	0	50+	6	7	*	*	20+		
85+	26	0	0	0	0	0	0	0	0	*	0	13	*	0	*	0	*	*	0	20+	*	*	*	*	10+	
F	ALL AGES	339	0+	0+	0+	0+	0	30+	0	20+	10+	80+	10+	10+	20+	20+	10+	0+	0+	210+	60+	30+	10+	30+	130+	
	<1	0	0	0	0	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	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	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	0	0	0	0	
	25-34	10+	0	0	0	0	0	*	0	*	*	*	0	*	*	0	0	0	0	10+	*	*	0	0	0+	
	35-44	20+	0	0	0	0	0	*	0	0	0	*	0	0	*	*	*	0	0	10+	*	0	*	0	10+	
	45-54	51	0	0	0	0	0	8	0	*	*	*	*	*	*	*	*	0	*	30+	11	*	*	7	20+	
	55-64	60	*	0	0	*	0	7	0	*	*	11	*	*	*	*	0	*	0	40+	15	*	*	7	30+	
	65-74	94	*	*	*	0	0	9	0	6	*	21	*	*	6	*	*	0	0	60+	10	9	*	12	30+	
75-84	74	*	0	0	0	0	0	*	0	*	25	*	*	*	*	*	*	0	50+	11	9	*	*	30+		
85+	34	0	0	0	*	0	*	0	0	*	15	0	*	*	*	0	0	0	30+	*	*	*	*	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 (246 in 2021) 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, 2021**

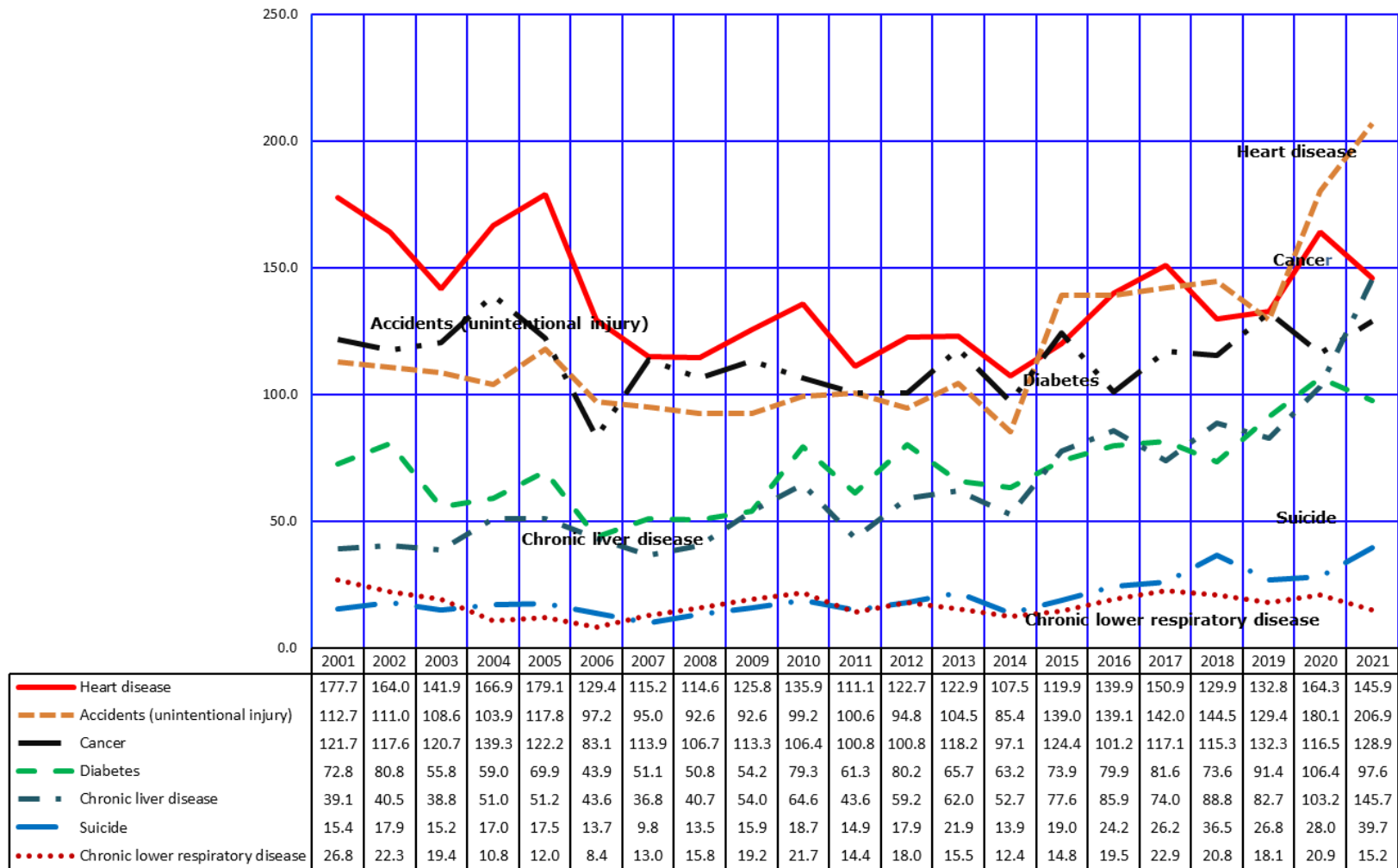
		TOTAL	Resided on reservation													Resided off reservation					
			Colorado River Indian Tribe	Fort McDowell Yavapai Nation Reservation	Fort Mohave Reservation	Gila River Indian Community	Hopi Tribe	Hualapai Tribe	Navajo Nation	Pascua Yaqui Tribe	Salt River Pima-Maricopa Indian Community	San Carlos Apache Tribe	Tohono O'Odham Nation	White Mountain Apache Tribe	Yaavapai-Apache Nation	TOTAL	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	TOTAL
TOTAL	ALL AGES	490+	0+	0+	0+	20+	20+	0+	160+	0+	10+	30+	20+	40+	0+	310+	80+	10+	30+	60+	180+
	<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	10+	0	0	0	0	0	0	*	0	0	0	0	*	0	0+	*	0	0	*	0+
	25-34	94	0	0	0	*	*	0	25	0	*	6	*	8	0	50+	13	*	8	22	50+
	35-44	134	0	*	*	8	6	0	35	0	*	8	8	6	0	80+	31	*	11	15	60+
	45-54	120	0	0	*	*	*	*	44	*	*	6	*	12	*	80+	11	*	8	14	40+
	55-64	87	*	0	*	*	*	0	32	0	*	7	*	8	0	60+	14	*	*	7	30+
	65-74	36	0	0	0	*	*	0	17	0	*	0	0	*	0	30+	*	*	*	*	10+
	75-84	10+	0	0	0	0	*	*	*	0	0	*	0	0	0	10+	*	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	320+	0	0+	0+	10+	10+	0+	120+	0	10+	10+	10+	20+	0+	200+	50+	10+	20+	50+	120+
	<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+
	25-34	68	0	0	0	*	*	0	18	0	*	*	*	*	0	30+	9	*	*	19	40+
	35-44	83	0	*	0	6	*	0	23	0	*	*	*	*	0	40+	20	*	7	11	40+
	45-54	74	0	0	*	*	*	*	33	0	*	*	*	6	*	60+	*	*	*	9	20+
	55-64	59	0	0	0	*	*	0	24	0	*	*	*	*	0	40+	10	*	*	*	20+
	65-74	20+	0	0	0	*	*	0	14	0	0	0	0	*	0	20+	*	0	*	*	10+
	75-84	10+	0	0	0	0	0	0	*	0	0	*	0	0	0	10+	*	0	*	*	0+
85+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
F	ALL AGES	170+	0+	0+	0+	10+	10+	0+	40+	0+	0+	20+	10+	20+	0	110+	30+	0+	10+	20+	60+
	<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+
	25-34	26	0	0	0	*	0	0	7	0	*	*	0	*	0	20+	*	0	*	*	10+
	35-44	51	0	*	*	*	*	0	12	0	*	6	*	*	0	30+	11	0	*	*	20+
	45-54	46	0	0	0	*	0	*	11	*	0	*	*	6	0	30+	7	*	*	*	20+
	55-64	28	*	0	*	*	*	0	8	0	*	*	0	*	0	20+	*	0	0	*	10+
	65-74	10+	0	0	0	*	*	0	*	0	*	0	0	*	0	10+	*	*	*	*	10+
	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+	

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, 2001-2021**



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 2021**

<b>Rank</b>	<b>Female</b>	<b>Both</b>	<b>Male</b>
<b>1</b>	<b>COVID-19</b> 339.8	<b>COVID-19</b> 394.4	<b>COVID-19</b> 464.6
<b>2</b>	<b>Chronic liver disease and cirrhosis</b> 123.9	<b>Accidents (unintentional injury)</b> 206.9	<b>Accidents (unintentional injury)</b> 296.9
<b>3</b>	<b>Accidents (unintentional injury)</b> 123.8	<b>Diseases of heart</b> 145.9	<b>Diseases of heart</b> 208.5
<b>4</b>	<b>Cancer</b> 123.2	<b>Chronic liver disease and cirrhosis</b> 145.7	<b>Chronic liver disease and cirrhosis</b> 170.0
<b>5</b>	<b>Diseases of heart</b> 97.8	<b>Cancer</b> 128.9	<b>Cancer</b> 139.9

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 2021" report.

Leading causes of death rankings use the [National Vital Statistics System](#) method to make standard comparisons. This method excludes alcohol-induced death ICD-10 codes because they may overlap with other selected causes of death in the ranking method. To follow this standard method, alcohol-induced deaths are excluded from Figures 5.14-5.15.

**5.15**  
**Five Leading Causes of Death<sup>a</sup> among American Indians by Gender and Residence**  
**On or Off Reservation, Arizona, 2021**

<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>COVID-19</b> 23.4	<b>COVID-19</b> 28.9	<b>COVID-19</b> 19.5	<b>COVID-19</b> 24.0
<b>2</b>	<b>Accidents (unintentional injury)</b> 9.5	<b>Accidents (unintentional injury)</b> 9.8	<b>Accidents (unintentional injury)</b> 17.2	<b>Cancer</b> 14.7
<b>3</b>	<b>Chronic liver disease and cirrhosis</b> 9.5	<b>Diseases of heart</b> 8.8	<b>Chronic liver disease and cirrhosis</b> 8.7	<b>Accidents (unintentional injury)</b> 10.3
<b>4</b>	<b>Diseases of heart</b> 9.2	<b>Chronic liver disease and cirrhosis</b> 8.8	<b>Cancer</b> 7.9	<b>Chronic liver disease and cirrhosis</b> 9.2
<b>5</b>	<b>Cancer</b> 6.6	<b>Cancer</b> 7.1	<b>Diseases of heart</b> 5.9	<b>Diseases of heart</b> 6.0

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

Leading causes of death rankings use the [National Vital Statistics System](#) method to make standard comparisons. This method excludes alcohol-induced death ICD-10 codes because they may overlap with other selected causes of death in the ranking method. To follow this standard method, alcohol-induced deaths are excluded from Figures 5.14-5.15.

**5.16**  
**Proportional Mortality<sup>a</sup> by Type of Cancer and Gender among American Indians and all  
Residents of Arizona, 2011-2021**

<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>Trachea, bronchus, lung 22.7</b>	<b>Liver 13.7</b>	<b>Trachea, bronchus, lung 23.1</b>	<b>Breast 11.7</b>
<b>2</b>	<b>Lymphoma 10.8</b>	<b>Prostate 11.3</b>	<b>Breast 15.3</b>	<b>Liver 9.6</b>
<b>3</b>	<b>Prostate 10.5</b>	<b>Colon, rectum, anus 10.5</b>	<b>Lymphoma 9.0</b>	<b>Lymphoma 9.3</b>
<b>4</b>	<b>Colon, rectum, anus 9.1</b>	<b>Lymphoma 9.3</b>	<b>Colon, rectum, anus 8.9</b>	<b>Colon, rectum, anus 8.0</b>
<b>5</b>	<b>Pancreas 7.4</b>	<b>Kidney 8.3</b>	<b>Pancreas 7.6</b>	<b>Pancreas 8.0</b>
<b>6</b>	<b>Liver 5.8</b>	<b>Pancreas 7.9</b>	<b>Ovary 5.5</b>	<b>Ovary 7.7</b>
<b>7</b>	<b>Leukemia 4.6</b>	<b>Trachea, bronchus, lung 7.8</b>	<b>Leukemia 3.7</b>	<b>Trachea, bronchus, lung 6.9</b>
<b>8</b>	<b>Bladder 4.2</b>	<b>Stomach 7.6</b>	<b>Liver 3.4</b>	<b>Corpus uteri and uterus 5.6</b>
<b>9</b>	<b>Esophagus 4.1</b>	<b>Esophagus 3.5</b>	<b>Corpus uteri and uterus 3.4</b>	<b>Stomach 4.8</b>
<b>10</b>	<b>Non-Hodgkin's lymphoma 3.7</b>	<b>Non-Hodgkin's lymphoma 3.3</b>	<b>Non-Hodgkin's lymphoma 3.2</b>	<b>Kidney 4.8</b>

Notes: <sup>a</sup> Percent of cancer deaths in specified group in 2011-2021.  
<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, 2011-2021**

<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</b> 35.8	<b>Motor vehicle-related</b> 35.9	<b>Falls</b> 36.7	<b>Motor vehicle-related</b> 41.9
<b>2</b>	<b>Motor vehicle accidents</b> 25.8	<b>Poisoning by drugs</b> 19.2	<b>Poisoning by drugs</b> 29.0	<b>Poisoning by drugs</b> 20.1
<b>3</b>	<b>Falls</b> 19.1	<b>Poisoning by gases</b> 17.7	<b>Motor vehicle-related</b> 19.3	<b>Falls</b> 12.6
<b>4</b>	<b>Poisoning by gases</b> 3.6	<b>Falls</b> 7.7	<b>Misadventures to patients</b> 2.5	<b>Poisoning by gases</b> 9.7
<b>5</b>	<b>Exposure to heat</b> 2.7	<b>Exposure to cold</b> 3.8	<b>Exposure to heat</b> 2.1	<b>Exposure to cold</b> 2.2
<b>6</b>	<b>Accidental drowning</b> 2.6	<b>Accidental drowning</b> 2.3	<b>Poisoning by gases</b> 2.0	<b>Misadventures to patients</b> 2.0
<b>7</b>	<b>Misadventures to patients</b> 1.4	<b>Exposure to heat</b> 2.0	<b>Accidental drowning</b> 1.9	<b>Fire, flames, smoke</b> 1.8
<b>8</b>	<b>Choked on other objects</b> 1.4	<b>Mechanical suffocation</b> 1.4	<b>Choked on other objects</b> 1.2	<b>Exposure to heat</b> 1.8
<b>9</b>	<b>Fire, flames, smoke</b> 1.0	<b>Fire, flames, smoke</b> 1.3	<b>Fire, flames, smoke</b> 1.2	<b>Mechanical suffocation</b> 1.5
<b>10</b>	<b>Mechanical suffocation</b> 0.8	<b>Railway accidents</b> 1.0	<b>Choked on food</b> 1.1	<b>Accidental drowning</b> 1.4

Notes: <sup>a</sup> Percent of unintentional injury deaths in specified group in 2011-2021.

<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, 2011-2021**

	ALL RESIDENTS OF ARIZONA			AMERICAN INDIANS OR ALASKA NATIVES		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
<b>Malignant neoplasms, total</b>	128,612	69,498	59,113	2,824	1,379	1,445
<b>Malignant neoplasm of lip, oral cavity and pharynx</b>	1,902	1,393	509	25	17	8
<b>Malignant neoplasm of esophagus</b>	3,503	2,852	651	68	48	20
<b>Malignant neoplasm of stomach</b>	2,353	1,388	965	175	105	70
<b>Malignant neoplasm of colon, rectum and anus</b>	11,607	6,325	5,282	261	145	116
<b>Malignant neoplasm of liver and intrahepatic bile ducts</b>	6,061	4,029	2,032	327	189	138
<b>Malignant neoplasm of pancreas</b>	9,671	5,166	4,505	224	109	115
<b>Malignant neoplasm of larynx</b>	669	535	134	10†	6	*
<b>Malignant neoplasm of trachea, bronchus and lung</b>	29,397	15,763	13,634	207	107	100
<b>Malignant melanoma of skin</b>	2,279	1,529	750	20†	11	*
<b>Malignant neoplasm of breast</b>	9,147	94	9,053	169	0	169
<b>Malignant neoplasm of cervix uteri</b>	886	0	886	33	0	33
<b>Malignant neoplasm of corpus uteri and uterus, part unspecified</b>	1,982	0	1,982	81	0	81
<b>Malignant neoplasm of ovary</b>	3,257	0	3,257	111	0	111
<b>Malignant neoplasm of prostate</b>	7,289	7,289	0	156	156	0
<b>Malignant neoplasm of kidney and renal pelvis</b>	3,300	2,251	1,049	183	114	69
<b>Malignant neoplasm of bladder</b>	3,907	2,943	963	25	15	10
<b>Malignant neoplasm of meninges, brain and other parts of central nervous system</b>	3,808	2,168	1,640	49	26	23
<b>Malignant neoplasm of lymphoid, hematopoietic and related tissue</b>	12,805	7,508	5,297	263	128	135
<b>Hodgkin's disease</b>	243	142	101	10†	*	*
<b>Non-Hodgkin's lymphoma</b>	4,427	2,550	1,877	84	45	39
<b>Leukemia</b>	5,351	3,189	2,162	96	45	51
<b>Multiple myeloma and immunoproliferative neoplasms</b>	2,758	1,613	1,145	77	36	41
<b>Other and unspecified malignant neoplasms of lymphoid tissue</b>	26	14	12	0†	0	*
<b>All other and unspecified malignant neoplasms</b>	14,789	8,268	6,521	443	203	240

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, 2011-2021**

	ALL RESIDENTS OF ARIZONA			AMERICAN INDIANS OR ALASKA NATIVES		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
<b>Unintentional injury, total</b>	43,353	28,052	15,301	4,047	2,838	1,209
<b>Railway accidents</b>	92	76	16	34	28	6
<b>Motor vehicle accidents</b>	10,200	7,247	2,953	1,526	1,020	506
<b>Water transport accident</b>	41	34	7	0†	*	0
<b>Accident involving aircraft</b>	137	114	23	0†	*	*
<b>Poisoning by drugs/medicaments</b>	14,490	10,050	4,440	787	544	243
<b>Poisoning by gases and vapors</b>	1,312	1,003	309	618	501	117
<b>Falls</b>	10,974	5,357	5,617	370	218	152
<b>Fire, flames, smoke</b>	461	285	176	58	36	22
<b>Excessive natural heat</b>	1,062	746	316	79	57	22
<b>Excessive natural cold</b>	246	188	58	134	107	27
<b>Contact with venomous snakes and lizards</b>	10	10	0	0†	*	0
<b>Contact with venomous spiders</b>	0†	0	*	0	0	0
<b>Contact with scorpions</b>	0†	*	*	0	0	0
<b>Contact with hornets, wasps, bees</b>	20†	20	*	0†	*	0
<b>Bitten or struck by dog</b>	19	9	10	10†	*	*
<b>Lightning</b>	10†	7	*	0†	*	0
<b>Storms and floods</b>	21	11	10	0†	*	0
<b>Accidental drowning and submersion</b>	1,017	723	294	81	64	17
<b>Choked on food</b>	397	231	166	20†	17	*
<b>Choked on other objects</b>	479	291	188	37	26	11
<b>Mechanical suffocation</b>	351	233	118	57	39	18
<b>Accidental discharge of firearms</b>	83	73	10	12	12	0
<b>Exposure to electric current</b>	45	45	0	0†	*	0
<b>Overexertion</b>	0†	0	*	0	0	0
<b>Adverse effects of drugs in therapeutic use</b>	97	40	57	10†	*	*
<b>Misadventures to patients during medical/surgical care</b>	778	398	380	46	22	24

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, breaths or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached.

**Birth weight** - The weight of a neonate determined immediately after delivery or as soon thereafter as possible.

**Infant death** - Any death at any time from birth up to, but not including, the first year of age (364 days, 23 hours, 59 minutes from the moment of birth).

**Infant mortality rate** - Number of infant deaths per 1,000 live births.

**Low-birthweight** - Any neonate weighing less than 2,500 grams at birth (less than 5 pounds 8 ounces).

**Neonatal death** - Death of a live-born neonate before the neonate becomes 28 days old (up to and including 27 days, 23 hours, 59 minutes from the moment of birth).

**Neonatal mortality rate** - Number of neonatal deaths per 1,000 live births.

**Postneonatal death** - Any death of a live-born infant at least 28 days of age but less than one year of age.

**Postneonatal mortality rate** - Number of postneonatal deaths per 1,000 live births.

**Very low-birthweight** - Any neonate whose weight at birth is 1,500 grams or less (less than 3 pounds 5 ounces).

## Medical Terms Used on the Birth Certificate

### Births with medical risk factors

**Pre-existing diabetes** - Metabolic disorder characterized by excessive discharge of urine and persistent thirst diagnosed prior to onset of pregnancy.

**Gestational diabetes** - The occurrence of diabetes during pregnancy.

**Pre-existing hypertension** - Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20th week of gestation.

**Gestational hypertension** - An increase in blood pressure of at least 30 mm hg systolic or 15 mm hg diastolic on two measurements taken 6 hours apart after the 20th week of gestation.

**Eclampsia** - The occurrence of convulsions and/or coma unrelated to other cerebral conditions in women with signs and symptoms of preeclampsia.

**Previous preterm** - Previous birth of an infant prior to term, before 37 completed weeks of gestation.

**Other previous poor pregnancy outcome** - History of pregnancies continuing into the 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	2021 population of American Indians	2021 deaths among American Indians	Age-specific rates for American Indians in 2021	2000 standard	Age-adjusted rate for American Indians in 2021
A	B	C	D (C/B)*100000	E	F D*E
<1	3,564	22	617.3	0.013818	8.5
1-4	14,896	12	80.6	0.055317	4.5
5-14	46,863	19	40.5	0.145565	5.9
15-24	45,828	128	279.3	0.138646	38.7
25-34	48,922	461	942.3	0.135573	127.8
35-44	36,932	556	1505.5	0.162613	244.8
45-54	31,618	634	2005.2	0.134834	270.4
55-64	30,461	808	2652.6	0.087247	231.4
65-74	19,428	756	3891.3	0.066037	257.0
75-84	8,894	569	6397.6	0.044842	286.9
85+	2,812	415	14758.2	0.015508	228.9
	290,218	4,380		TOTAL	1704.7

**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.

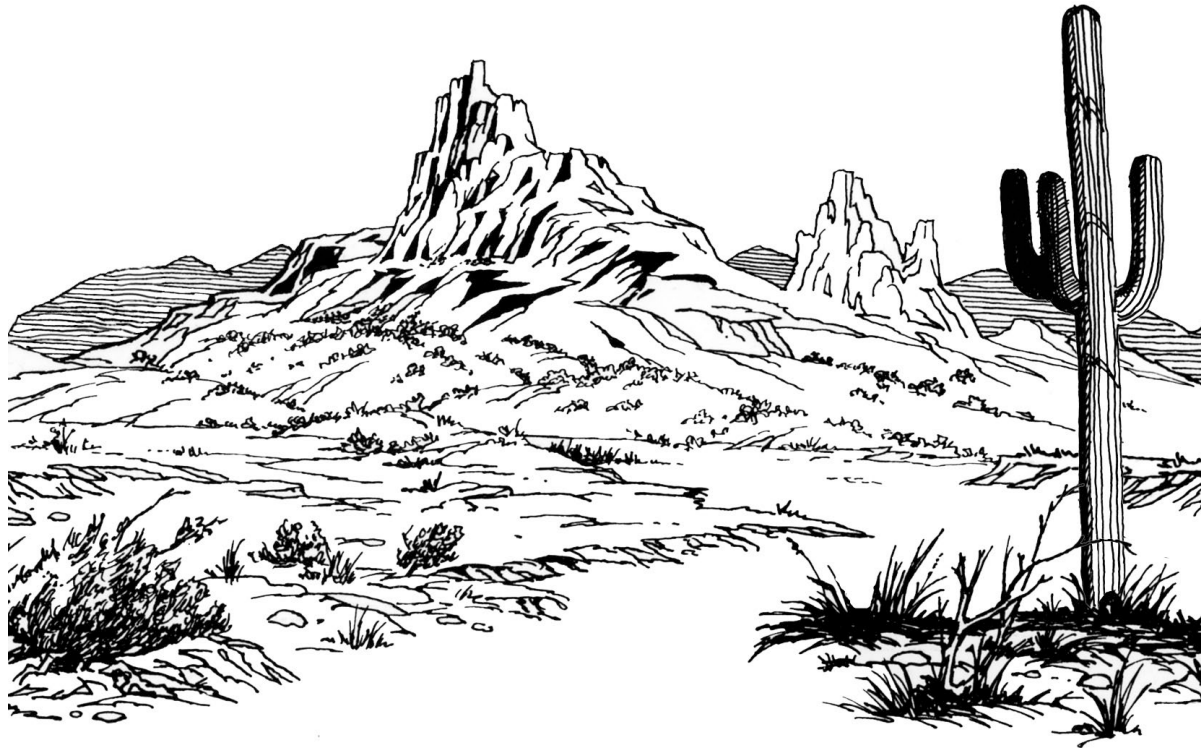
**Drug-induced deaths** - This category was expanded in 2003. Causes of death attributable to drug-related mortality include mental and behavioral disorders due to psychoactive substance use, accidental poisoning by and exposure to drugs, suicide by drugs, homicide by drugs and poisoning by drugs, undetermined 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 (all injury, accidents, suicides, homicides, legal intervention, undetermined, 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, alcohol abuse, asthma, diabetes, substance abuse, falls, influenza and pneumonia, injury, and mental disorders), Abortions in Arizona, Community Vital Statistics, Teenage Pregnancy, Differences in Health Status Among Racial/Ethnic Groups, Health Status Profile of American Indians in Arizona, Mortality from Alzheimer's Disease, Heart Disease vs. Cancer: An Epidemiologic Transition in Mortality Risks, and Deaths from Exposure to Excessive Natural Heat Occurring in Arizona.



**ARIZONA DEPARTMENT OF HEALTH SERVICES**  
**Business Intelligence Office**  
**Vital Statistics Program**