

# **HEALTH STATUS PROFILE OF AMERICAN INDIANS IN ARIZONA:**

## **2001 DATA BOOK**

by

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# HEALTH STATUS PROFILE OF AMERICAN INDIANS IN ARIZONA 2001 DATA BOOK

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# INTRODUCTION

The report *Health Status Profile of American Indians in Arizona: 2001 Data Book* is the seventh 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 2001.

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 2001 *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 2001 on 70 indicators or measures of health status,
- 2) a comparison of American Indians' standing in Arizona with respect to selected health objectives for the year 2010,
- 3) a section presenting trend data for 1991-2001 for selected health problems and health risks among American Indian and all residents of Arizona,
- 4) a four-part section concerned with the characteristics of American Indian newborns and mothers giving birth,
- 5) a two-part section focused on patterns of cause-specific mortality among American Indians by age group, gender and place of residence in Arizona in 2001. These tables have changed to accommodate a new listing of 113 specific causes of mortality.

These sections are followed by the **Technical Notes**, which provide information about the sources of data and definitions of terms used in the report, as well as a comparison of cause-of-death categories classified by the Ninth (ICD-9) and the Tenth Revisions (ICD-10) of the International Classification of Diseases. The causes of death for 2000 and 2001 are classified by ICD-10.

Specific Indian reservations are identified by tribal communities comprising them. A detailed classification of communities on Indian reservations in Arizona is available in the **Appendix A**. It should be noted, however, that the information about the usual place (or tribal community) of residence is both self-reported and quite poorly recorded in the electronic databases of births and deaths. Certain communities are altogether absent and many are underrepresented. Therefore, the reservation-specific counts of vital events in this report are not exact enumerations.

*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.

In addition to bound form, the online version of *Health Status Profile of American Indians in Arizona: 2001 Data Book* is available at <http://www.hs.state.az.us.plan/hspam.htm>







# 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 2001



The risk profile presented on the following page summarizes how American Indians as a group compared in 2001 to the state average on 70 measures of health status. The 70 indicators used in the profile are individual measures of the various dimensions or facets of health status. The profile uses the percentages an 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:\*

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

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 worst than average standing on an indicator. The profile visually describes the better-than-average and worst -than-average clusters of health status characteristics for American Indian residents of Arizona.

Following the graphic profile is a detailed description of the 70 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) PATTERNS OF PREMATURE MORTALITY and (9) THE INCIDENCE OF REPORTABLE DISEASES.

In 2001, American Indians had the second lowest rank of overall health status among the five racial/ethnic groups in Arizona. They ranked 5<sup>th</sup> or 4<sup>th</sup> 40 times on 70 indicators, and they exceeded the statewide averages by a wider margin than any other group except Blacks. American Indians ranked poorly on measures of maternal lifestyle and health as well as in utilization of prenatal care. High infant mortality, alcoholism, diabetes, motor vehicle accidents and mortality from unintentional injuries contributed to the premature death rate. This resulted in the second lowest ranking of American Indians in the relative healthiness among racial and ethnic groups in Arizona. However, American Indians ranked better than average with low mortality rates for several chronic diseases (lung cancer, breast cancer, colorectal cancer, Alzheimer's disease), low tobacco use and low incidence of genital herpes among women giving birth.

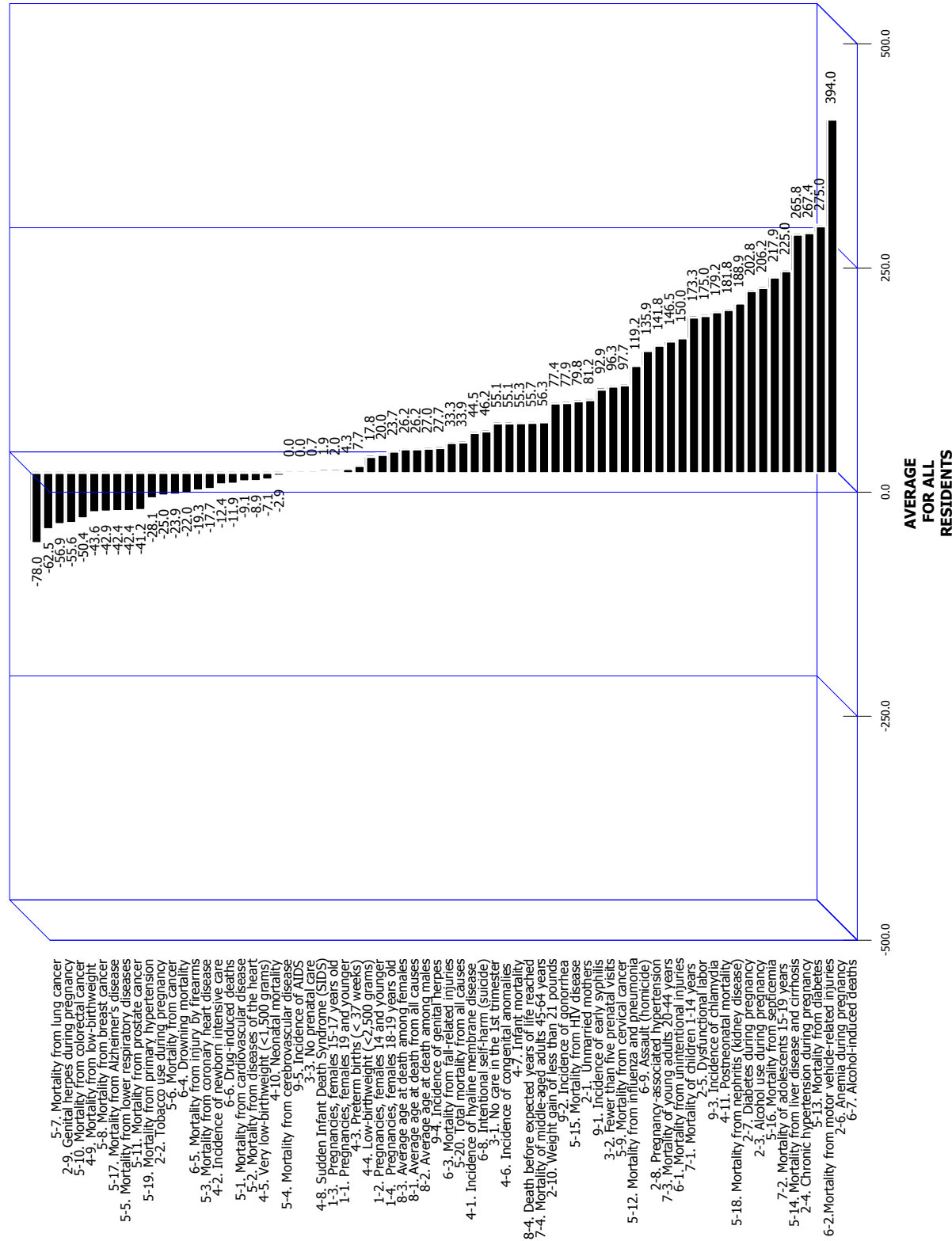
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\* The risk profile of American Indians, as well as the comparative risk profiles for White non-Hispanic, Hispanic, Black (or African-Americans), and Asian residents of Arizona were developed for a report "**Differences in the Health Status Among Ethnic Groups in Arizona, 2001**". In order to receive a copy of this publication, call the Bureau of Public Health Statistics at 602-542-1216. The entire report also is available online at <http://www.hs.state.az.us/plan/dhsag.htm>.



## 2001 RISK PROFILE OF AMERICAN INDIANS

(percent above or below the average rate or ratio for all Arizona residents in 2001)



## AMERICAN INDIANS' STANDING IN ARIZONA IN 2001 ON 70 INDICATORS OF HEALTH STATUS

### 1. TEEN PREGNANCIES (Number of pregnancies per 1,000 females in specified age group)

Figure number	Indicator	2001 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups	Definitions
1-1	Pregnancies among females 19 and younger	36.7	1.9	36.0	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	1.4	7.7	1.3	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	43.5	.7	43.2	The sum of live births, fetal deaths, and abortions per 1,000 females aged 15-17 years
1-4	Pregnancies among females 18-19 years old	133.4	17.8	113.2	The sum of live births, fetal deaths, and abortions per 1,000 females aged 18-19 years

### 2. MATERNAL LIFESTYLE AND HEALTH CHARACTERISTICS (All ratios are per 100 live births)

Figure number	Indicator	2001 ratio for American Indians	Percent above or below the average ratio for all groups	Average ratio for all groups	Definitions
2-1	Unmarried mothers	70.1	77.9	39.4	The number of births to unmarried mothers per 100 births
2-2	Tobacco use during pregnancy	4.0	-41.2	6.8	The number of mothers giving birth who self-reported tobacco use during pregnancy per 100 births
2-3	Alcohol use during pregnancy	2.6	188.9	0.9	The number of mothers giving birth who self-reported alcohol use during pregnancy per 100 births
2-4	Chronic hypertension	1.3	225.0	0.4	Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20th week of gestation (the number of cases per 100 births)
2-5	Dysfunctional labor	3.0	150.0	1.2	Failure to progress in a normal pattern of labor (the number of cases per 100 births)
2-6	Anemia during pregnancy	6.0	275.0	1.6	Hemoglobin level of less than 10.0 g/dL during pregnancy, or hematocrit of less than 30 percent during pregnancy (the number of cases per 100 births)
2-7	Diabetes during pregnancy	6.2	181.8	2.2	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)
2-8	Pregnancy-associated hypertension	5.7	119.2	2.6	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)
2-9	Genital herpes during pregnancy	0.3	-62.5	0.8	Infection of the skin of the genital area by herpes simplex virus (the number of cases per 100 births)
2-10	Weight gain of less than 21 pounds	28.8	55.7	18.5	The number of women giving birth who gained less than 21 pounds per 100 births

### 3. UTILIZATION OF PRENATAL CARE SERVICES (Per 100 live births)

Figure number	Indicator	2001 ratio for American Indians	Percent above or below the average ratio for all groups	Average rate or ratio for all groups	Definition
3-1	No care in the 1 <sup>st</sup> trimester	35.4	44.5	24.5	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	11.6	81.2	6.4	The number of mothers giving birth who had fewer than five prenatal visits during pregnancy per 100 births
3-3	No prenatal care	1.9	.0	1.9	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	2001 rate or ratio for American Indians	Percent above or below the average rate or ratio for all groups	Average rate or ratio for all groups	Definition
4-1	Incidence of hyaline membrane disease	0.4	33.3	0.3	The number of cases of hyaline membrane disease per 100 births. Hyaline membrane disease = a disorder primarily of prematurity, manifested clinically by respiratory distress and pathologically by pulmonary hyaline membranes and incomplete expansion of the lungs at birth
4-2	Incidence of newborn intensive care	4.6	-19.3	5.7	The number of babies admitted to Newborn Intensive Care units per 100 births
4-3	Born too early (preterm or < 37 weeks)	10.1	2.0	9.9	The number of births before 37 weeks of gestation per 100 births. Preterm = 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
4-4	Born too small: low-birthweight (<2,500 grams)	7.3	4.3	7.0	The number of newborns weighing less than 2,500 grams per 100 births. Low-birthweight = any neonate weighing less than 2,500 grams at birth (less than 5 pounds 8 ounces)
4-5	Born too small: very low-birthweight (<1,500 grams)	1.0	-9.1	1.1	The number of newborns weighing less than 1,500 grams per 100 births. Very low-birthweight = any neonate whose weight at birth is 1,500 grams or less (less than 3 pounds 5 ounces)
4-6	Incidence of congenital anomalies (birth defects)	1.9	46.2	1.3	The numbers of babies born with birth defects per 100 births
4-7	Infant mortality	10.7	55.1	6.9	The number of infant deaths per 1,000 live births. 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)
4-8	Sudden Infant Death Syndrome (SIDS)	0.4	.0	0.4	The number of infant deaths from Sudden Infant Death Syndrome (ICD-10 code R95) per 1,000 live births
4-9	Mortality of infants from low birthweight/short gestation	0.4	-55.6	0.9	The number of infant deaths from low- birthweight/short gestation (ICD-10 code P07) per 1,000 live births
4-10	Neonatal mortality	4.1	-8.9	4.5	The number of neonatal deaths per 1,000 live births. Neonatal death = 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)
4-11	Postneonatal mortality	6.6	175.0	2.4	The number of postneonatal deaths per 1,000 live births. Postneonatal death = any death of a liveborn infant at least 28 days of age but less than one year of age

**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	2001 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups	Definition
5-1	Cardiovascular disease	234.1	-12.4	267.3	The number of deaths from cardiovascular diseases (ICD-10 codes I00-I78) per 100,000 age-adjusted population
5-2	Diseases of the heart	177.7	-11.9	201.7	The number of deaths from diseases of the heart (ICD-10 codes I00-I09, I11, I13, I20-I51) per 100,000 age-adjusted population
5-3	Coronary heart disease	116.4	-22.0	149.3	The number of deaths from coronary heart disease (ICD-10 codes I200-I259) per 100,000 age-adjusted population
5-4	Cerebrovascular disease	44.3	-7.1	47.7	The number of deaths from cerebrovascular disease (ICD-10 codes I60-I69) per 100,000 age-adjusted population
5-5	Chronic lower respiratory diseases	26.8	-42.9	46.9	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)	121.7	-28.1	169.2	The number of deaths from cancer (ICD-10 codes C00-C97) per 100,000 age-adjusted population
5-7	Lung cancer	9.8	-78.0	44.5	The number of deaths from lung cancer (ICD-10 codes C33-C34) per 100,000 age-adjusted population
5-8	Breast cancer	11.7	-50.4	23.6	The number of deaths from breast cancer (ICD-10 code C50) per 100,000 age-adjusted female population
5-9	Cervical cancer	5.4	92.9	2.8	The number of deaths from cervical cancer (ICD-10 code C53) per 100,000 age-adjusted female population
5-10	Colorectal cancer	7.2	-56.9	16.7	The number of deaths from colorectal cancer (ICD-10 codes C18-C21) per 100,000 age-adjusted population
5-11	Prostate cancer	14.0	-42.4	24.3	The number of deaths from prostate cancer (ICD-10 code C61) per 100,000 age-adjusted male population
5-12	Influenza and pneumonia	43.0	96.3	21.9	The number of deaths from influenza and pneumonia (ICD-10 codes J10-J18) per 100,000 age-adjusted population
5-13	Diabetes	72.8	265.8	19.9	The number of deaths from diabetes (ICD-10 codes E10-E14) per 100,000 age-adjusted population
5-14	Chronic liver disease and cirrhosis	39.1	217.9	12.3	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	5.5	77.4	3.1	The number of deaths from HIV disease (ICD-10 codes B20-B24) per 100,000 age-adjusted population
5-16	Septicemia	21.8	202.8	7.2	The number of deaths from septicemia (ICD-10 codes A40-A41) per 100,000 age-adjusted population
5-17	Alzheimer's disease	12.7	-43.6	22.5	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)	33.5	179.2	12.0	The number of deaths from nephritis, nephrotic syndrome and nephrosis (ICD-10 codes N00-N07, N17-N19, N25-N27) per 100,000 age-adjusted population
5-19	Essential (primary) hypertension	3.4	-42.4	5.9	The number of deaths from essential (primary) hypertension (ICD-10 codes I10, I12) per 100,000 age-adjusted population
5-20	Total mortality from all causes	1010.5	27.7	791.2	Total number of deaths from all causes per 100,000 age-adjusted population



## 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 poisoning by drugs, but also disorders due to use of alcohol.)

Figure number	Indicator	2001 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups	Definition
6-1	Unintentional injuries	112.7	141.8	46.6	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	63.2	267.4	17.2	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	11.3	27.0	8.9	The number of deaths from fall-related injuries (ICD-10 codes W00-W19) per 100,000 age-adjusted population
6-4	Drowning mortality	1.2	-25.0	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	11.8	-23.9	15.5	The number of deaths by firearms (ICD-10 codes W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0) 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	9.3	-17.7	11.3	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, medications and biological substances; intentional self-poisoning (suicide) by and exposure to drugs; assault (homicide) by drugs, medications and biological substances; and poisoning by and exposure to drugs, medications 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	41.5	394.0	8.4	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)	15.4	33.9	11.5	The number of deaths due to intentional self-harm (ICD-10 codes X60-X84, Y87.0) per 100,000 age-adjusted population
6-9	Assault (homicide)	17.2	97.7	8.7	The number of homicides (ICD-10 codes X85-X09, Y87.1) per 100,000 age-adjusted population

**7. AGE-SPECIFIC MORTALITY** (Number of deaths per 100,000 persons in specified group)

Figure number	Indicators	2001 rate for American Indians	Percent above or below the average rate for all groups	Average value for all groups	Definition
7-1	Mortality of children 1-14 years old	71.0	146.5	28.8	The number of deaths per 100,000 children 1-14 years old in 2001
7-2	Mortality of adolescents 15-19 years old	265.2	206.2	86.6	The number of deaths per 100,000 adolescents 15-19 years old in 2001
7-3	Mortality of young adults 20-44 years old	373.2	135.9	158.2	The number of deaths per 100,000 young adults 20-44 years old in 2001
7-4	Mortality of middle-aged adults 45-64 years old	981.4	55.3	632.1	The number of deaths per 100,000 middle-aged adults 45-64 years old in 2001

**8. PREMATURE MORTALITY**

Figure number	Indicators	2001 value for American Indians	Percent above or below the average value for all groups	Average value for all groups	Definitions
8-1	Average age at death from all causes	54.3	23.7	71.2	The average age of Arizonans who died in 2001
8-2	Average age at death from all causes among males	50.1	26.2	67.9	The average age of Arizona males who died in 2001
8-3	Average age at death from all causes among females	60.0	20.0	75.0	The average age of Arizona females who died in 2001
8-4	Percent of total deaths before expected years of life reached	79.1	55.1	51.0	The number of deaths before reaching 76.9 years (the life expectancy of all U.S. residents in 2001) per 100 deaths

**9. REPORTABLE DISEASES** (Number of cases per 100,000 persons in specified group)

Figure number	Indicators	2001 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups	Definitions
9-1	Incidence of early syphilis	15.1	79.8	8.4	Number of reported cases of early syphilis per 100,000 population
9-2	Incidence of gonorrhea	115.5	56.3	73.9	Number of reported cases of gonorrhea per 100,000 population
9-3	Incidence of chlamydia	738.9	173.3	270.4	Number of reported cases of chlamydia per 100,000 population
9-4	Incidence of genital herpes	27.9	26.2	22.1	Number of reported cases of genital herpes per 100,000 population
9-5	Incidence of AIDS	6.8	-2.9	7.0	Number of reported cases of AIDS per 100,000 population



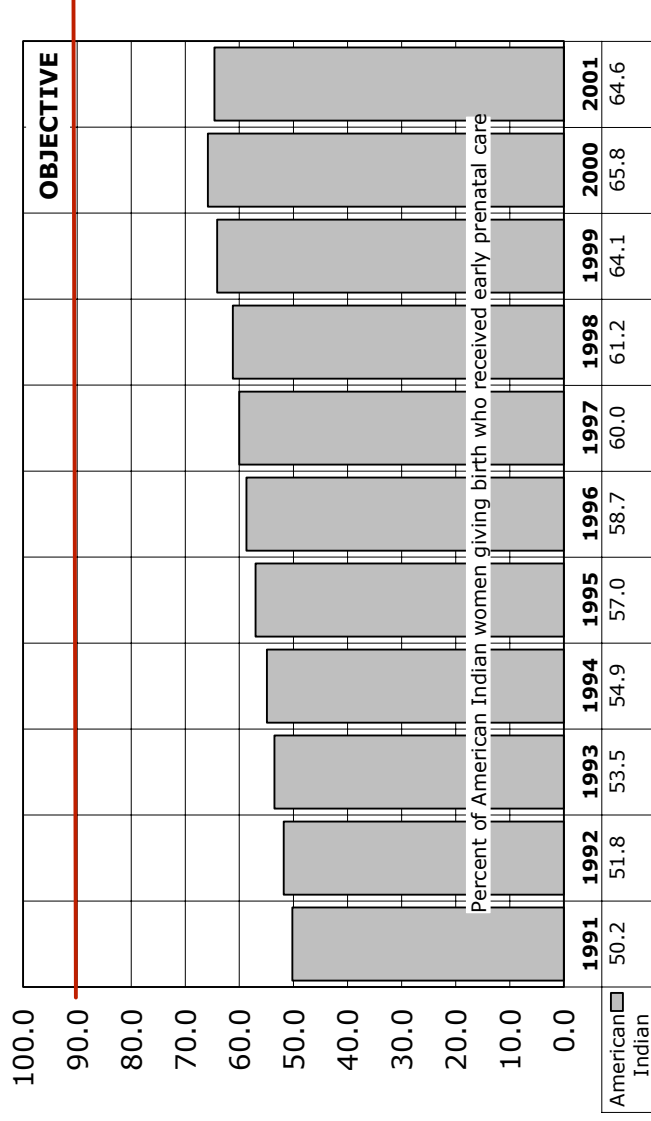
## **II.**

### **COMPARISON OF AMERICAN INDIANS' STANDING IN ARIZONA WITH RESPECT TO SELECTED HEALTH OBJECTIVES FOR THE YEAR 2010**



**2.1.  
Early Prenatal Care**

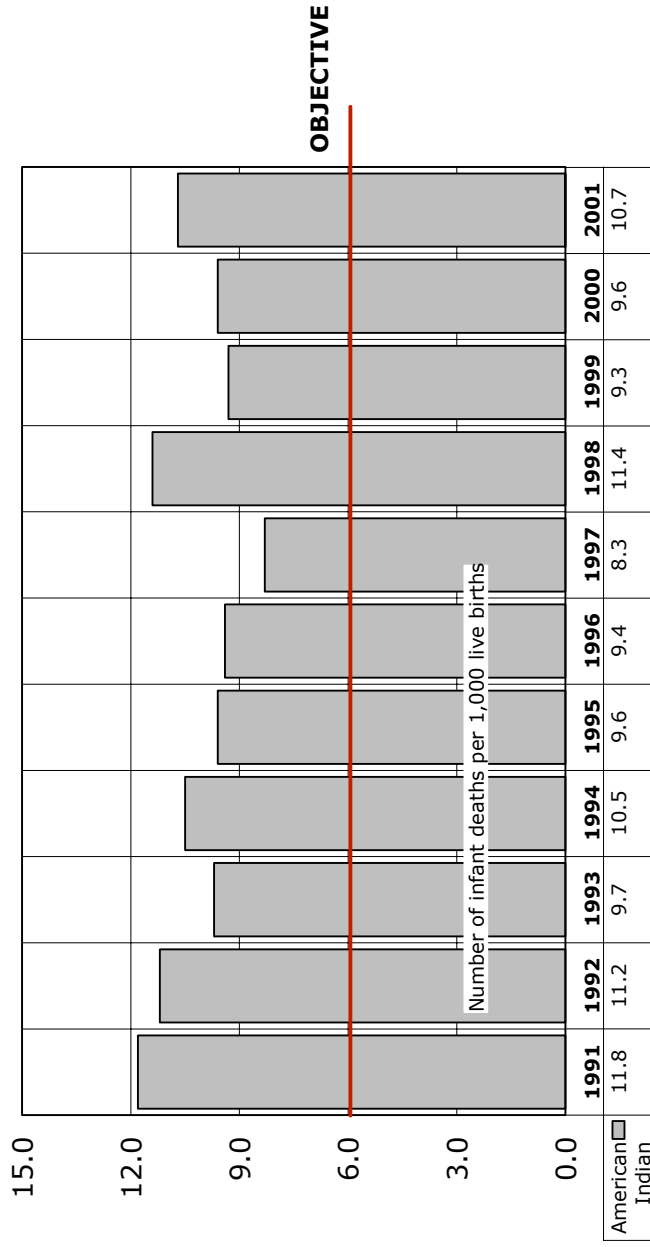
**National Year 2010 Objective (HP16-10a\*): Increase to 90 percent the proportion of women giving birth who receive prenatal care in the first trimester of pregnancy**



Source: Table 1B-2 and Table 1B-14 in *Arizona Health Status and Vital Statistics 2001*.  
HP16-10a: **Healthy People 2010 Objectives**, objective 16-10a.

**2.2.  
Infant Mortality**

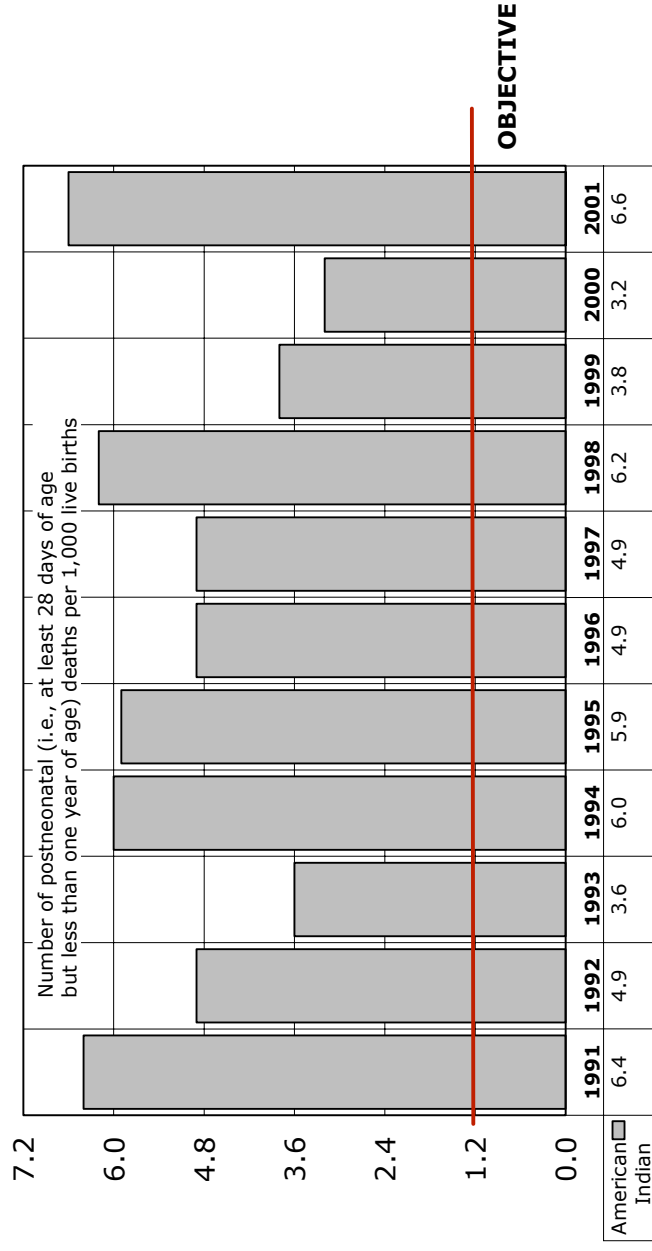
**National Year 2010 Objective (HP16-1c): Reduce the rate of infant deaths to no more than 6 per 1,000 live births**



Source: Table 2C-2 in *Arizona Health Status and Vital Statistics 2000*. Infant deaths are by the race/ethnicity of the decedent. For consistency with the national data, the denominators used to calculate infant mortality rates are by race/ethnicity of mother.

### 2.3. Postneonatal Mortality

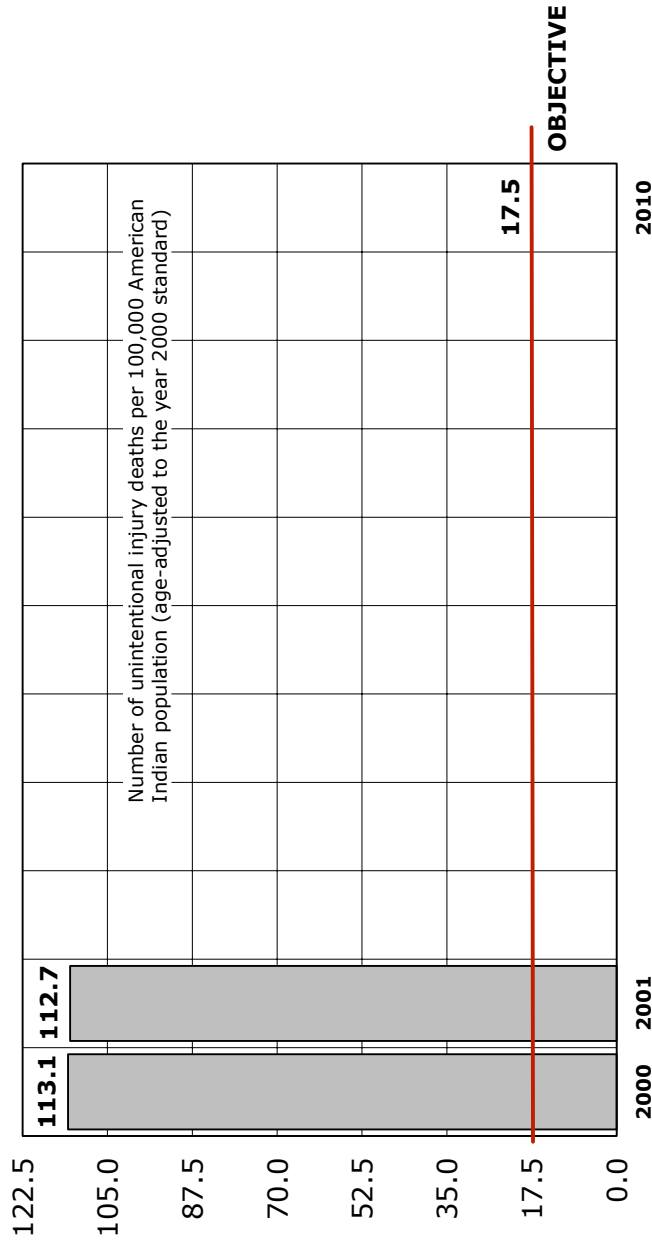
**National Year 2010 Objective (HP16-1e): Reduce postneonatal mortality to no more than 1.2 per 1,000 live births.**



Source: Table 2C-2 in *Arizona Health Status and Vital Statistics 2000*. Postneonatal deaths are by the race/ethnicity of the decedent. For consistency with the national data, the denominators used to calculate postneonatal mortality rates are by race/ethnicity of mother.

**2.4.  
Unintentional Injury Deaths**

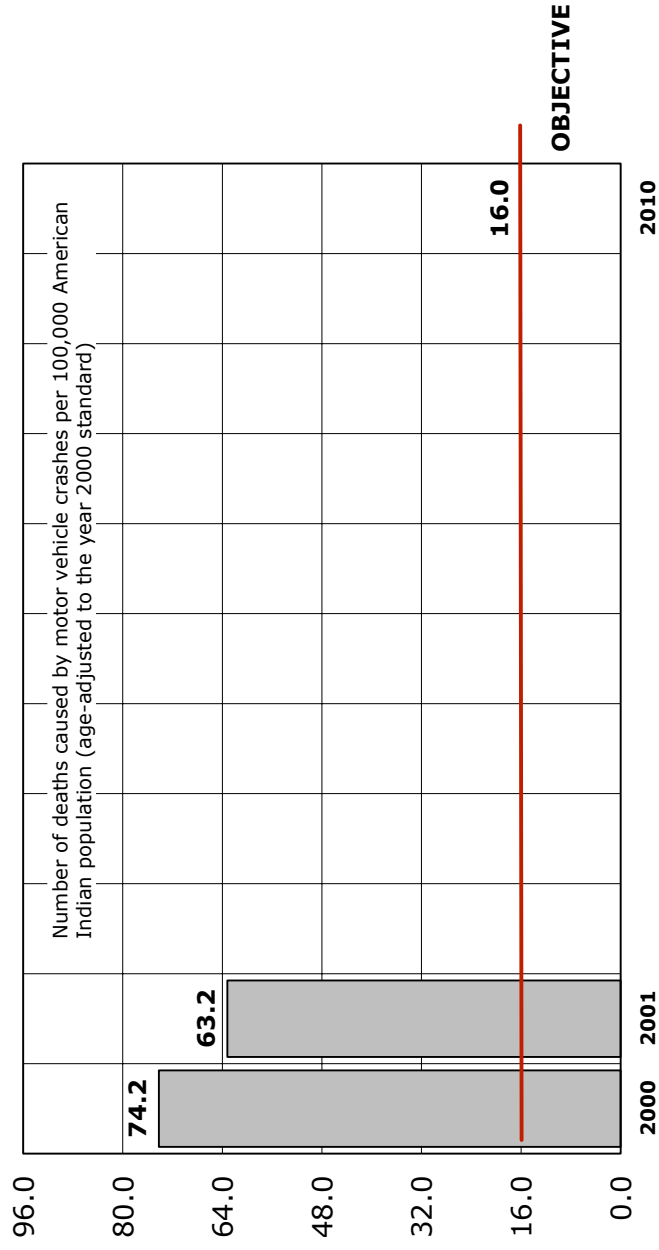
**National Year 2010 Objective (HP15-13): Reduce deaths caused by unintentional injuries to no more than 17.5 per 100,000 age-adjusted population**





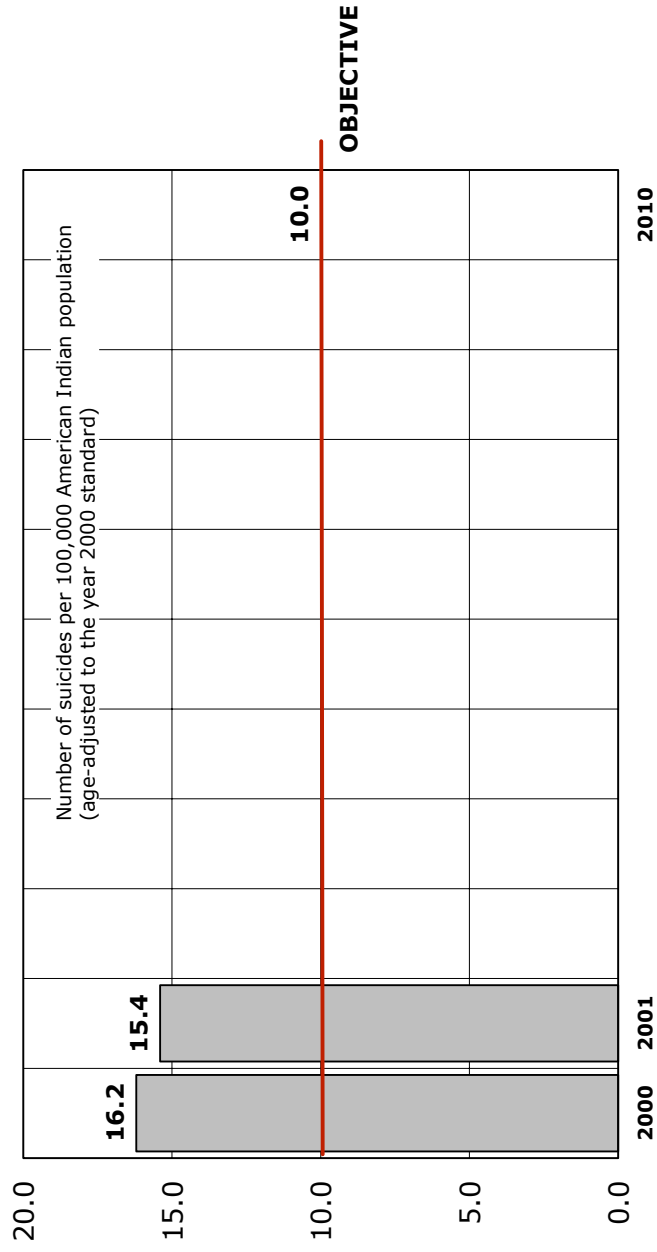
**2.5.  
Motor Vehicle Crash Deaths**

**National Year 2010 Objective (HP15-15): Reduce deaths caused by motor vehicle crashes to no more than 16 per 100,000 age-adjusted population**



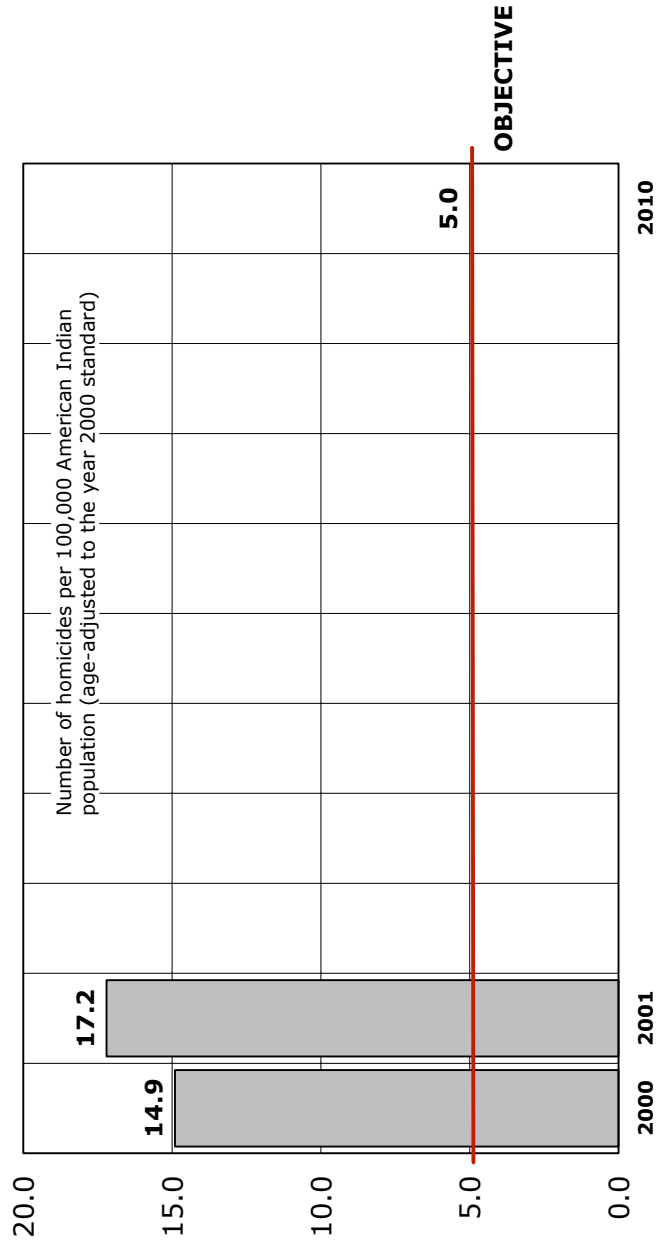
**2.6.  
Intentional Self-Harm (Suicide)**

**National Year 2010 Objective (HP18-1): Reduce the suicide rate to no more than 10 per 100,000 age-adjusted population**



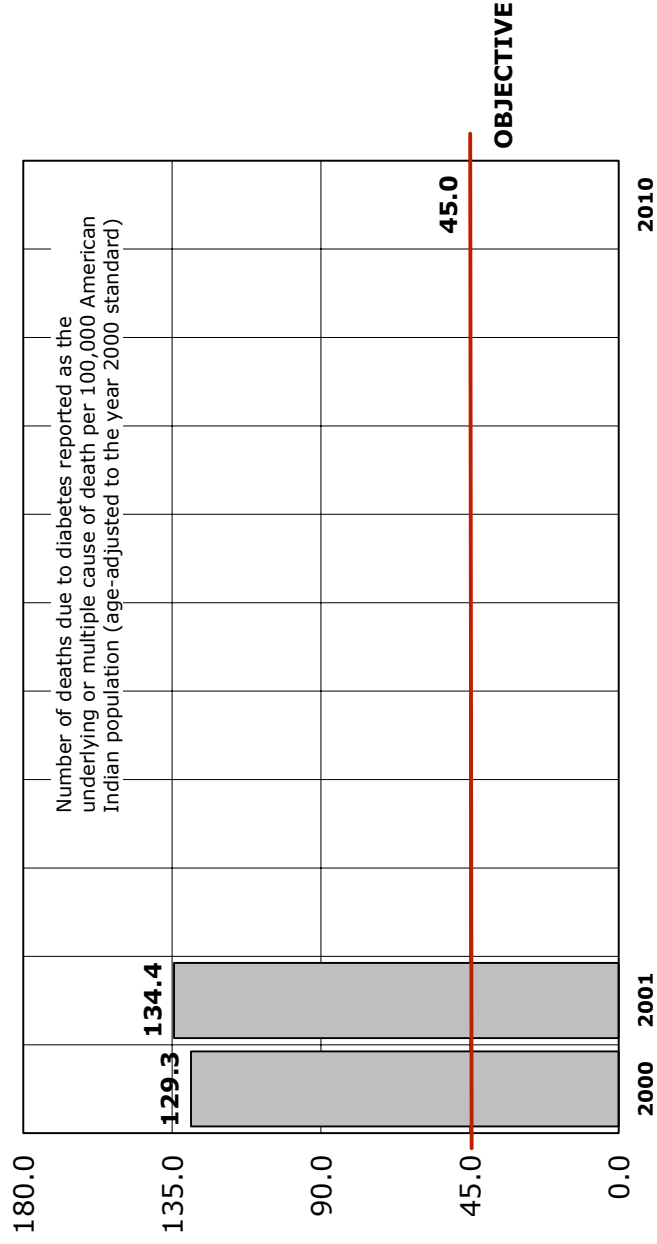
**2.7.  
Assault (Homicide)**

**National Year 2010 Objective (HP15-32): Reduce the homicide rate to no more than 5 per 100,000 age-adjusted population**



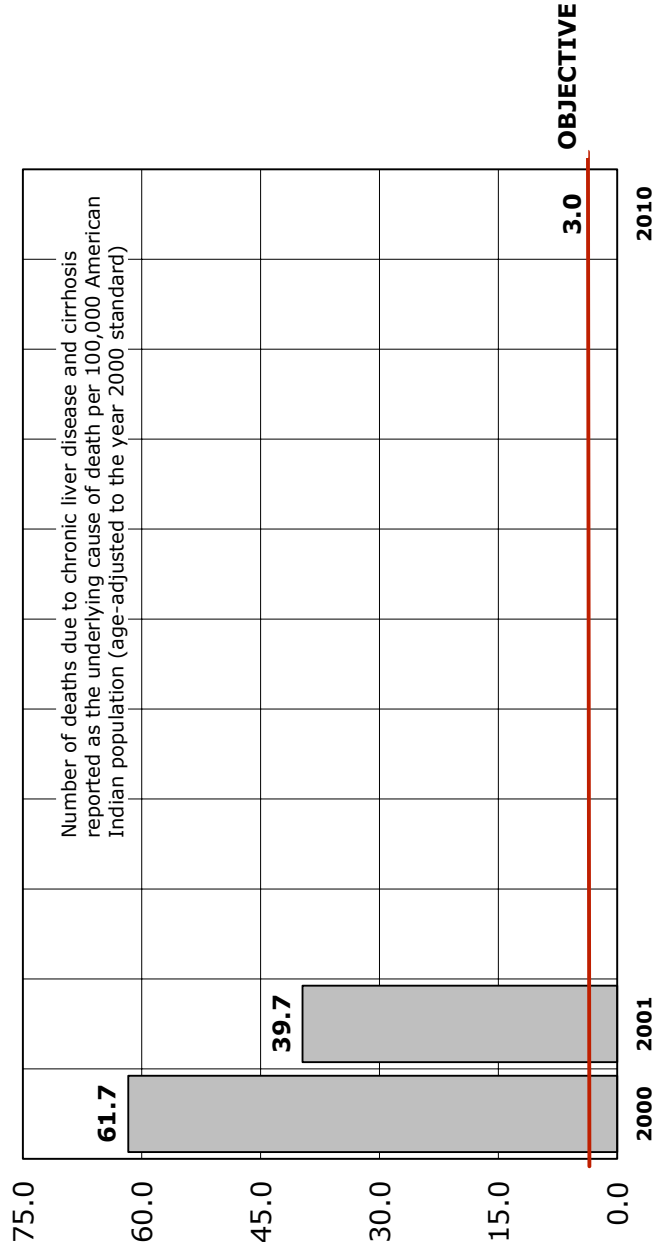
**2.8.  
Diabetes-related Deaths**

**National Year 2010 Objective (HP5-5): Reduce the diabetes-related death rate to no more than 45 per 100,000 age-adjusted population**



## 2.9. Cirrhosis Deaths

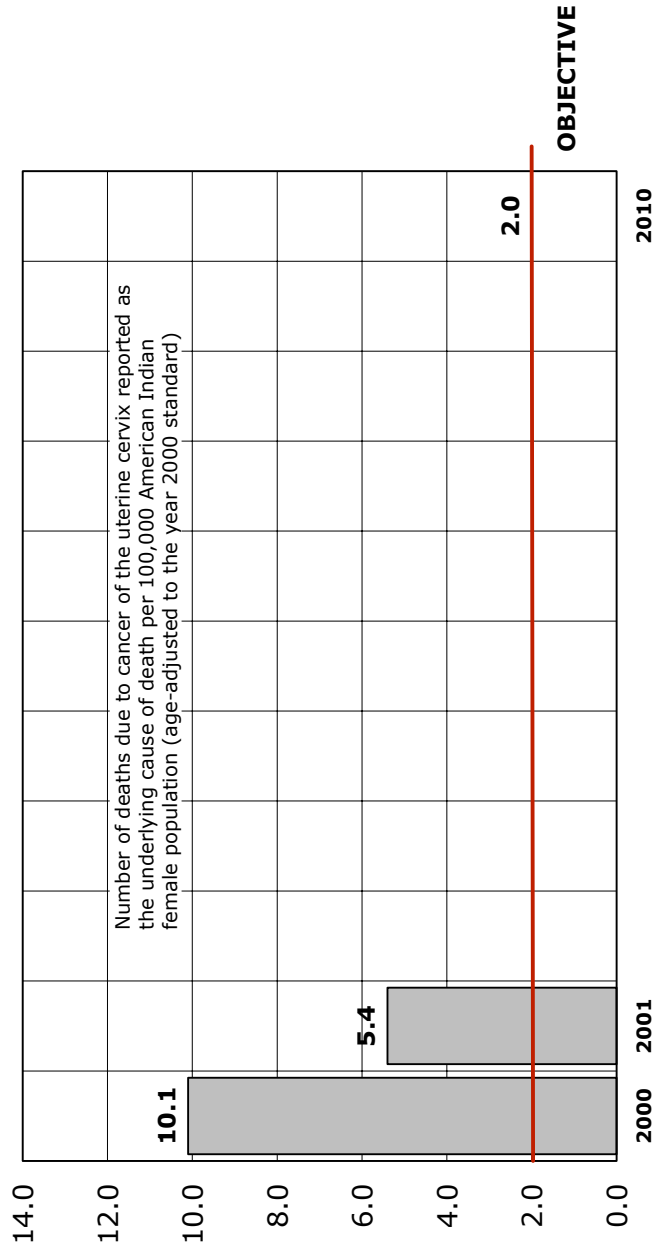
**National Year 2010 Objective (HP26-2): Reduce the cirrhosis\* death rate to no more than 3 per 100,000 age-adjusted population**



\*Chronic liver disease and cirrhosis (ICD-10 codes K70, K73-K74).

**2.10.  
Cervical Cancer Deaths**

**National Year 2010 Objective (HP3-4): Reduce the cervical cancer death rate to no more than 2 per 100,000 age-adjusted female population**



\*Note: the 2000 rate is based on 8 deaths, the 2001 rate is based on 5 deaths. These rates based on fewer than 10 deaths are not statistically reliable.



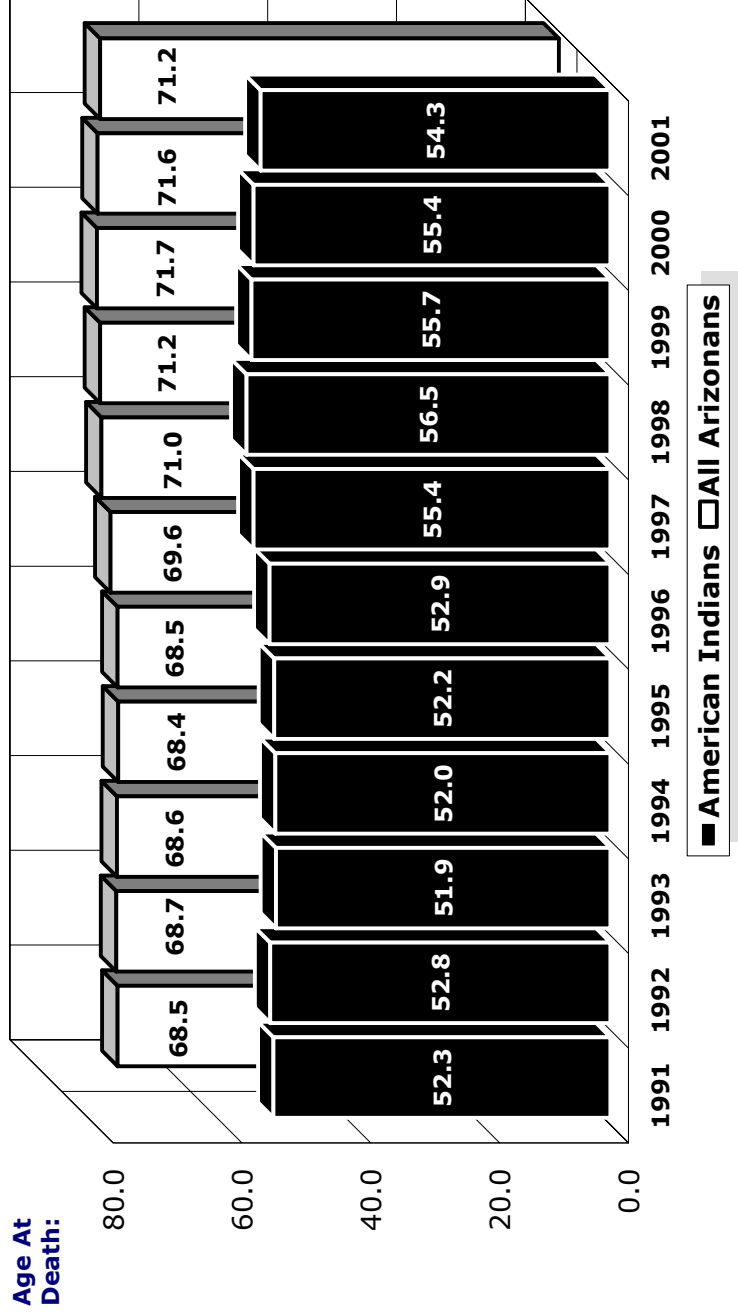
# **III.**

## **TRENDS IN SELECTED HEALTH PROBLEMS AND HEALTH RISKS AMONG AMERICAN INDIANS AND ALL RESIDENTS OF ARIZONA, 1991-2001**



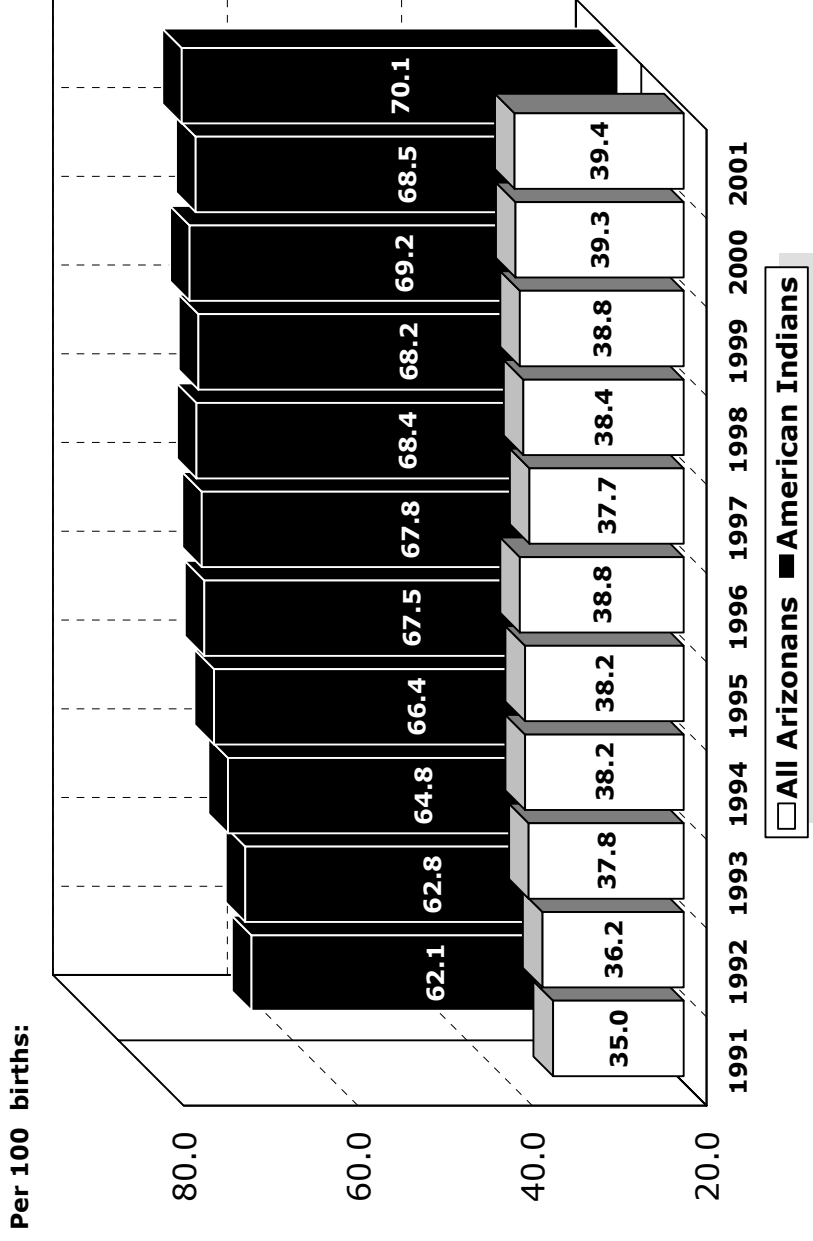


**3.1.  
Average Age At Death From All Causes,  
1991-2001**



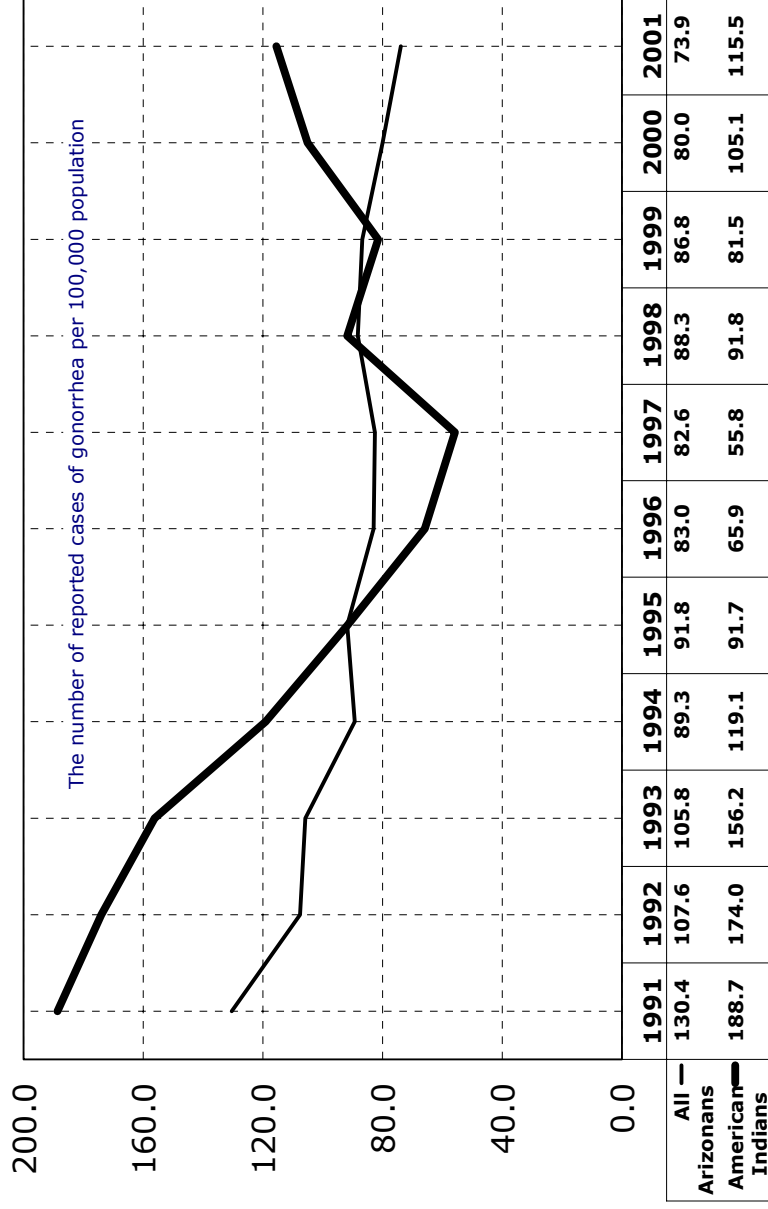
Source: Table 2D-1 in *Arizona Health Status and Vital Statistics 2001*

**3.2.  
Births to Unmarried Mothers, 1991-2001**



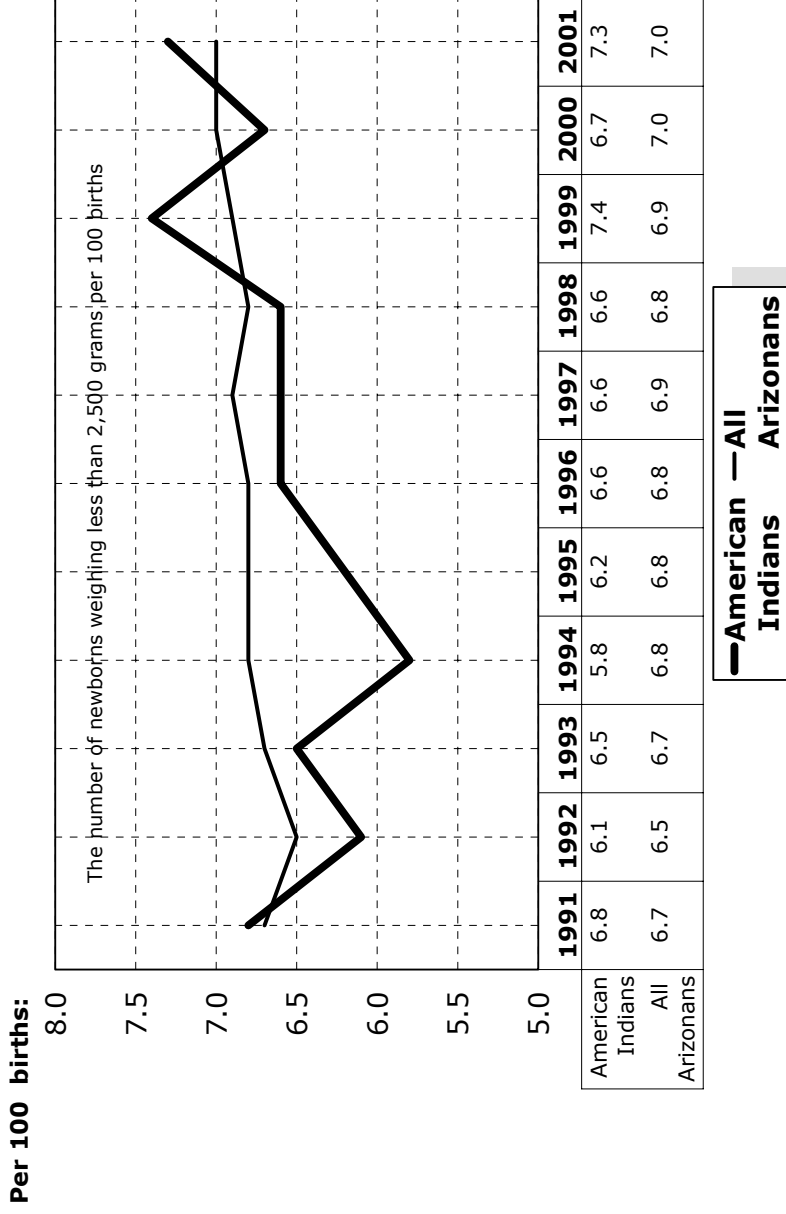
Source: Table 1B-2 and Table 1B-14 in *Arizona Health Status and Vital Statistics 2001*.

### 3.3. The Incidence of Gonorrhea, 1991-2001



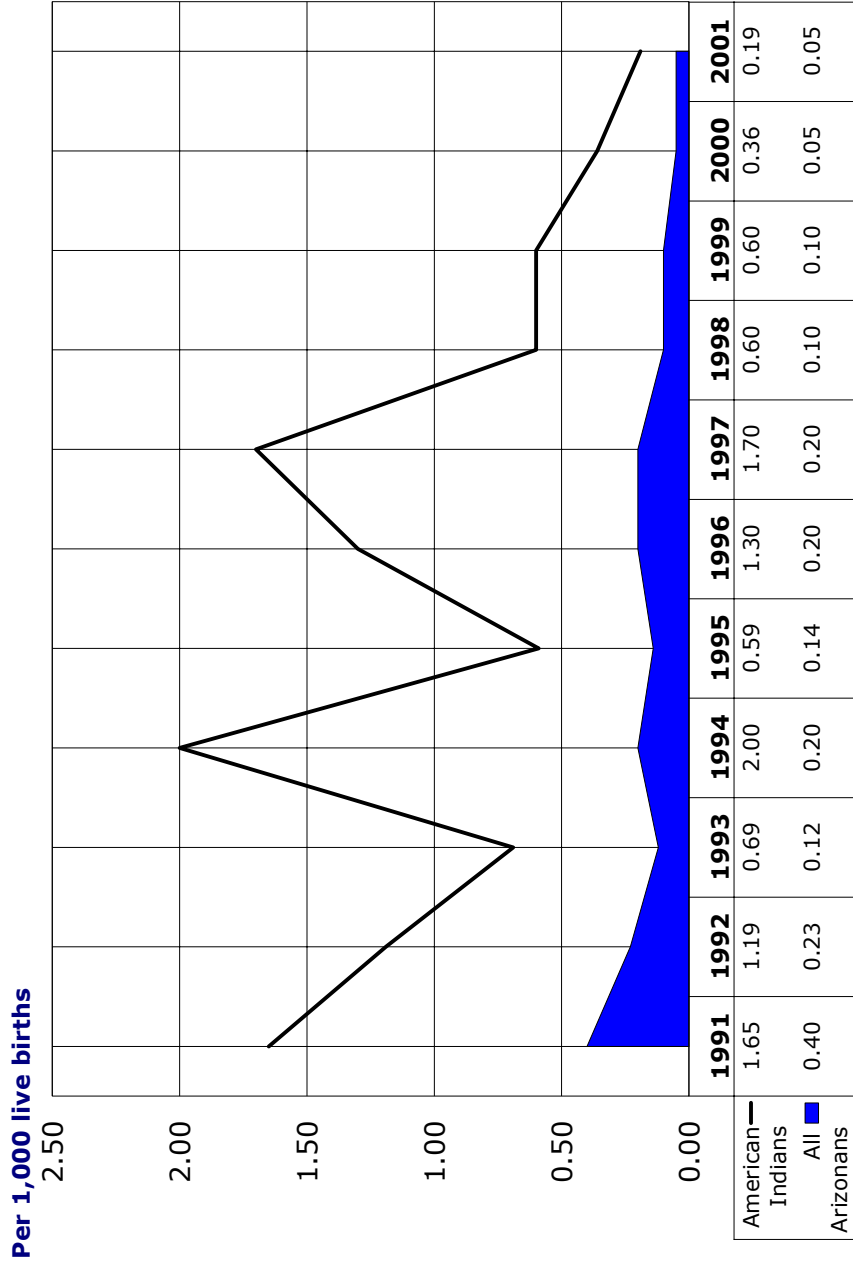
Source: Figure 3B-1 and Table 3B-4 in *Arizona Health Status and Vital Statistics 2001*. The rates were provided by the Office of HIV/STD Services in the Bureau of Epidemiology and Disease Control, ADHS

**3.4. The Incidence of Low-Birthweight Births, 1991-2001**



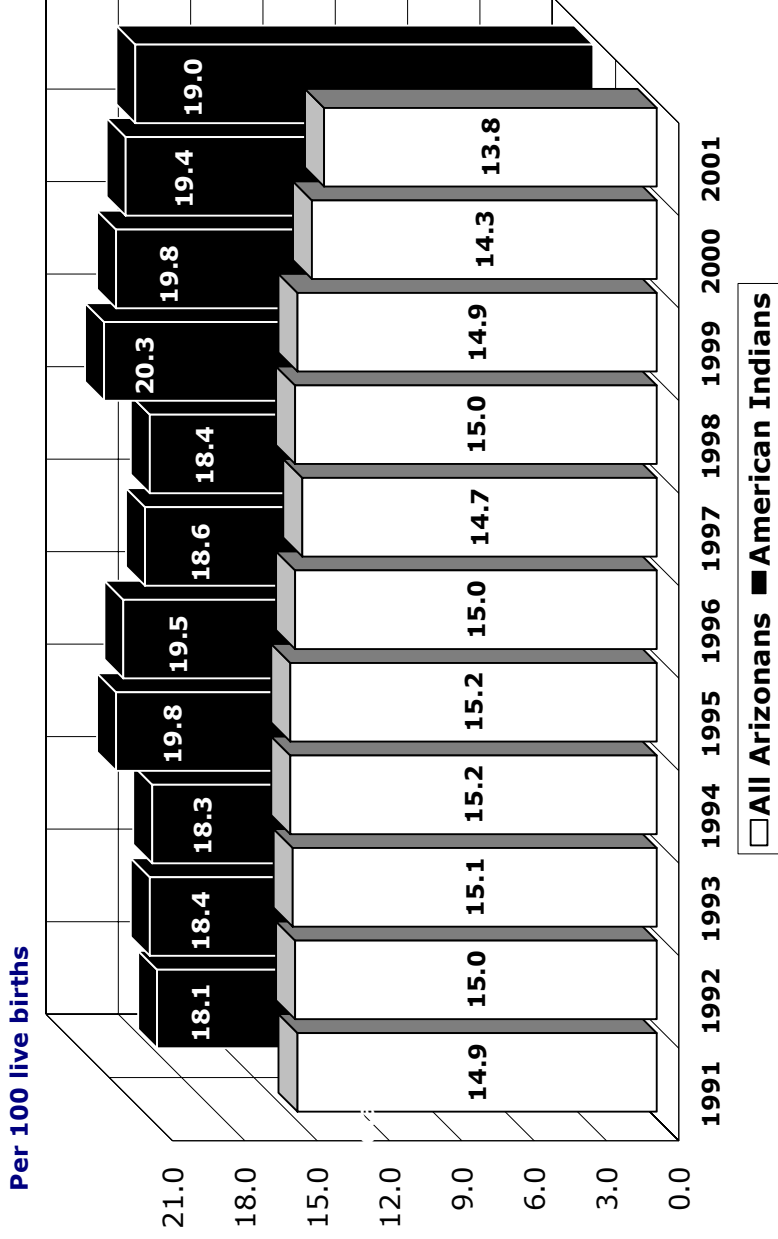
Source: Table 1B-2 and Table 1B-14 in *Arizona Health Status and Vital Statistics 2001*.

**3.5.  
The Incidence of Fetal Alcohol Syndrome, 1991-2001**



Source: Table 1B-26 in *Arizona Health Status and Vital Statistics 2001*.

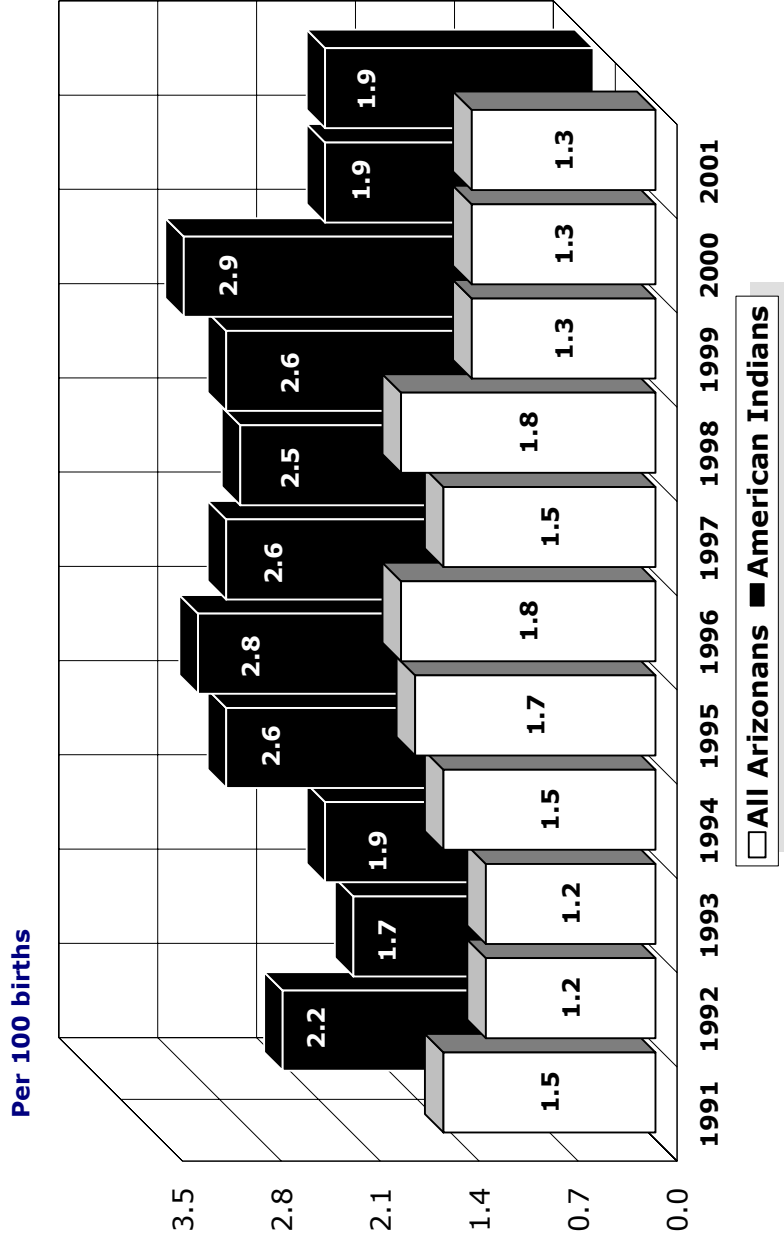
**3.6.  
Births to Teenage Mothers,\* 1991-2001**



\* 19 or younger.

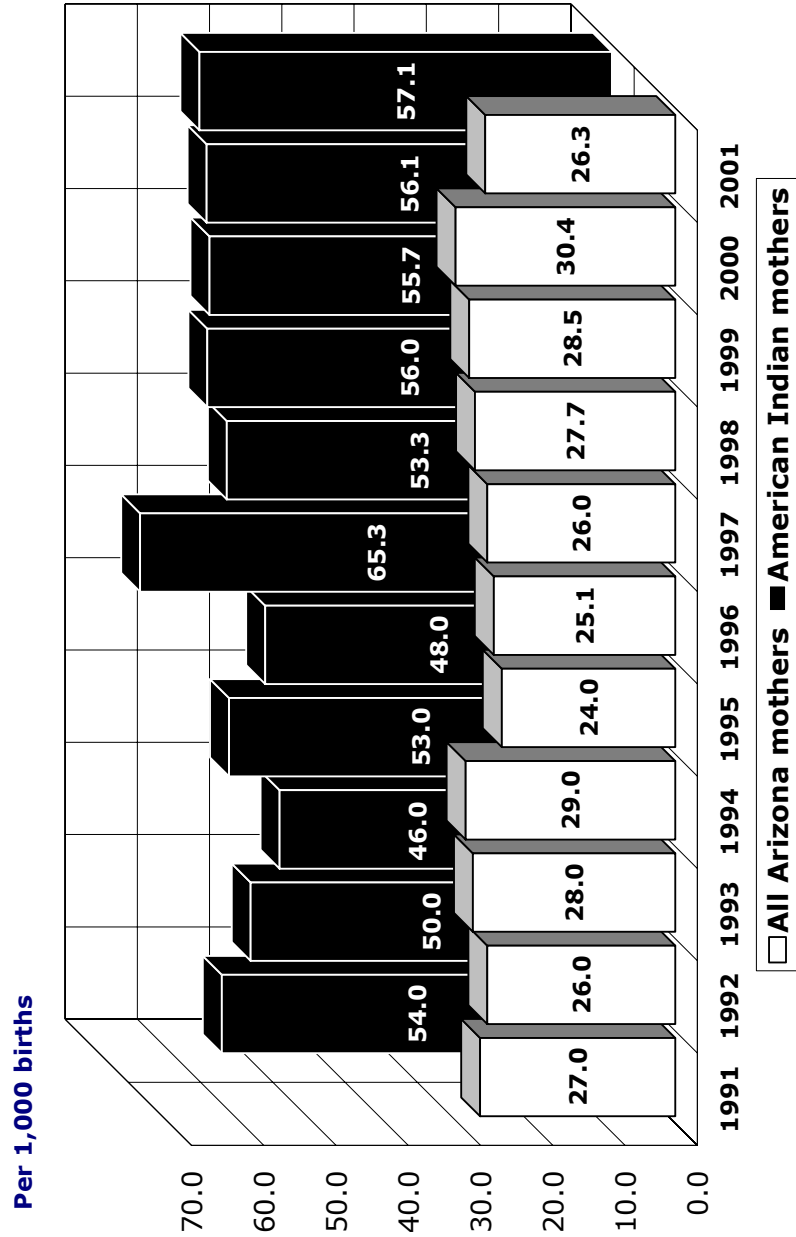
Source: Table 1B-2 and Table 1B-14 in *Arizona Health Status and Vital Statistics 2001*.

**3.7.  
The Incidence of Birth Defects (Congenital Anomalies),  
1991-2001**



Source: Table 1B-35 in *Arizona Health Status and Vital Statistics 2001*.

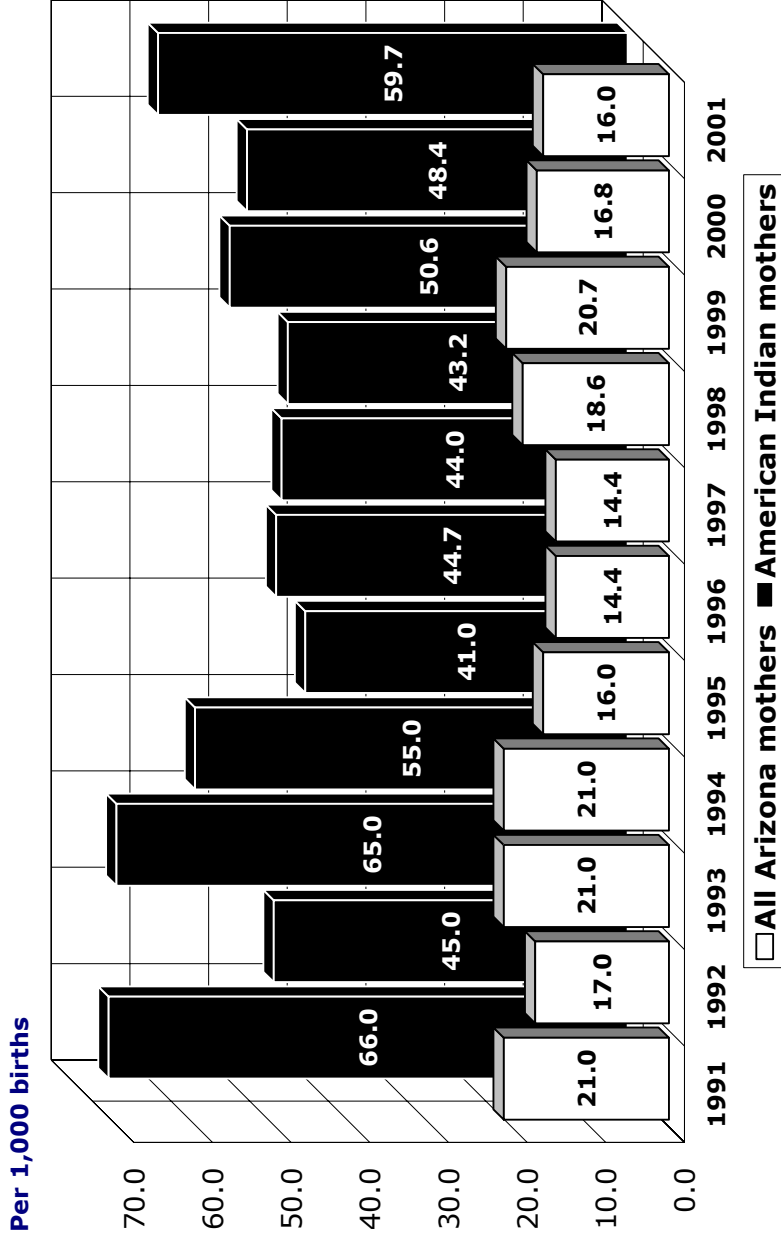
**3.8.  
The Incidence of Pregnancy Associated Hypertension,  
1991-2001**



Source: Table 1B-26 in *Arizona Health Status and Vital Statistics 2001*.

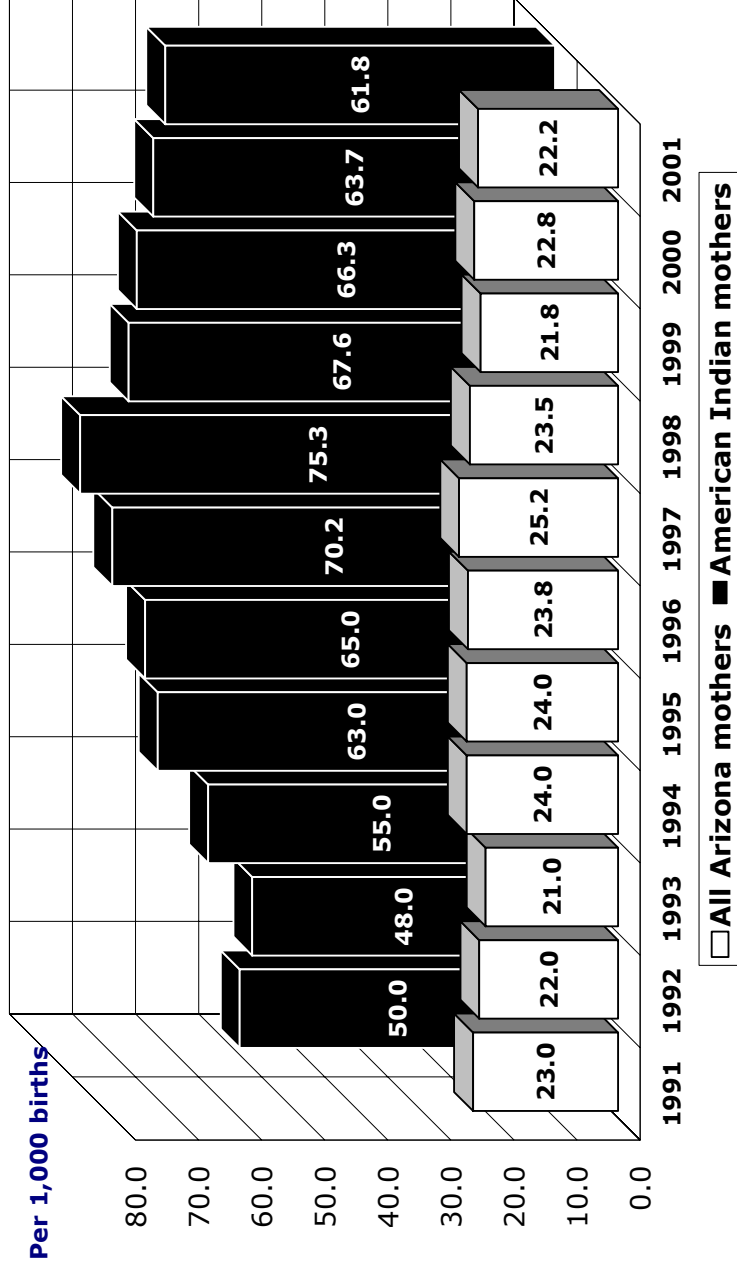


**3.9.  
The Incidence of Anemia During Pregnancy,  
1991-2001**



Source: Table 1B-26 in *Arizona Health Status and Vital Statistics 2001*.

**3.10.  
The Incidence of Diabetes During Pregnancy**



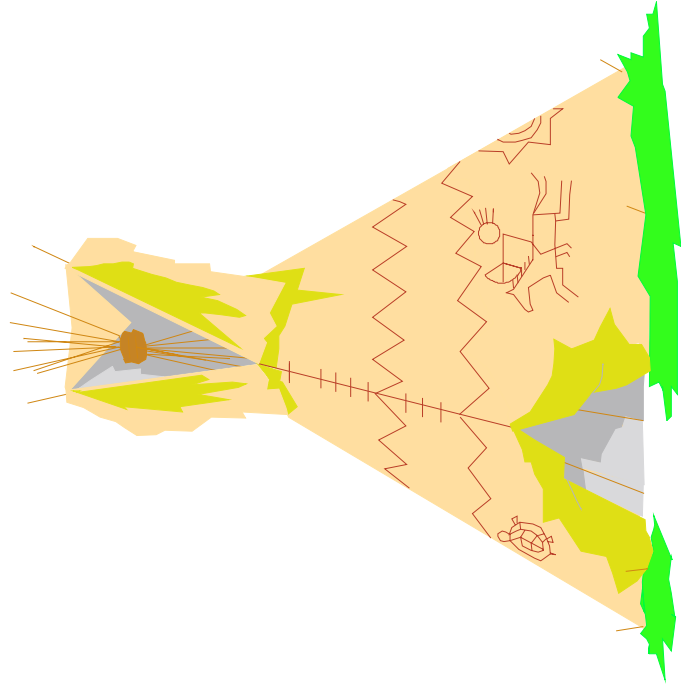
Source: Table 1B-26 in *Arizona Health Status and Vital Statistics 2001*.



# **IV.**

## **CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND MOTHERS GIVING BIRTH BY PLACE OF RESIDENCE IN ARIZONA IN 2001**





## **SOCIODEMOGRAPHIC CHARACTERISTICS**



4.1.  
MATERNAL AGE (2001 STATUS)

	TOTAL	Mother's age group									
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	
<b>ALL AMERICAN INDIANS</b>	5340	17	348	648	1750	1278	793	415	85	6	
Resided on reservation	13	0	1	2	4	3	1	2	0	0	
CAMP VERDE	26	0	5	3	8	8	2	0	0	0	
COLORADO RIVER	218	0	23	33	65	44	34	17	2	0	
FORT APACHE	2	0	0	0	0	1	0	1	0	0	
FORT McDOWELL	140	1	18	22	42	29	16	9	2	1	
GILA RIVER	12	0	0	1	2	3	2	4	0	0	
HAVASUPAI	93	0	5	11	25	25	18	8	0	1	
HOPI	30	0	1	6	12	6	4	0	1	0	
HUALAPAI	1569	1	85	156	467	383	272	163	40	2	
NAVAJO	87	1	10	16	22	24	10	4	0	0	
SALT RIVER	202	3	20	32	65	38	27	16	1	0	
SAN CARLOS	127	0	17	16	26	25	22	18	3	0	
TOHONO O'ODHAM	2519	6	185	298	738	589	408	242	49	4	
TOTAL	1466	8	84	171	532	364	212	83	11	1	
Resided off reservation	422	3	26	63	140	113	47	27	3	0	
---in Maricopa County	336	0	16	39	128	77	42	25	9	0	
---in Pima County	597	0	37	77	212	135	84	38	13	1	
---in Coconino County	2821	11	163	350	1012	689	385	173	36	2	
---elsewhere in Arizona											
TOTAL											

**4.2.**  
**EDUCATIONAL ATTAINMENT OF MOTHER (2001 STATUS)**

	TOTAL	Mother's education						Unknown
		< 8	8	9-11	12	13-16	17+	
<b>ALL AMERICAN INDIANS</b>	5340	54	166	1491	2041	1394	110	84
<b>Resided on reservation</b>								
CAMP VERDE	13	0	1	3	7	2	0	0
COLORADO RIVER	26	0	1	10	12	3	0	0
FORT APACHE	218	1	3	84	95	33	1	1
FORT McDOWELL	2	0	0	0	1	1	0	0
GILA RIVER	140	3	15	62	43	15	0	2
HAVASUPAI	12	0	0	7	2	2	0	1
HOPI	93	1	1	19	43	24	5	0
HUALAPAI	30	0	0	11	13	6	0	0
NAVAJO	1569	12	25	359	684	418	28	43
SALT RIVER	87	1	2	35	30	12	0	7
SAN CARLOS	202	1	6	71	80	43	1	0
TOHONO O'ODHAM	127	4	6	52	44	20	0	1
<b>TOTAL</b>	2519	23	60	713	1054	579	35	55
<b>Resided off reservation</b>								
---in Maricopa County	1466	16	66	376	477	472	42	17
---in Pima County	422	6	25	147	133	93	14	4
---in Coconino County	336	1	1	60	147	111	14	2
---elsewhere in Arizona	597	8	14	195	230	139	5	6
<b>TOTAL</b>	2821	31	106	778	987	815	75	29



**4.3.  
MARITAL STATUS OF MOTHER (2001 STATUS)**

	TOTAL	Marital status		
		Married	Unmarried	Other*
<b>ALL AMERICAN INDIANS</b>	5340	1532	3742	66
<b>Resided on reservation</b>				
CAMP VERDE	13	5	8	0
COLORADO RIVER	26	10	16	0
FORT APACHE	218	64	154	0
FORT McDOWELL	2	0	2	0
GILA RIVER	140	24	116	0
HAVASUPAI	12	2	10	0
HOPi	93	15	77	1
HUALAPAI	30	5	24	1
NAVAJO	1569	457	1092	20
SALT RIVER	87	17	69	1
SAN CARLOS	202	52	146	4
TOHONO O'ODHAM	127	25	100	2
<b>TOTAL</b>	2519	676	1814	29
<b>Resided off reservation</b>				
---in Maricopa County	1466	437	1012	17
---in Pima County	422	107	308	7
---in Coconino County	336	111	221	4
---elsewhere in Arizona	597	201	387	9
<b>TOTAL</b>	2821	856	1928	37

\*Refused", "Yes, divorced", "Unknown".

**4.4.  
RACE/ETHNICITY OF FATHER (2001 STATUS)**

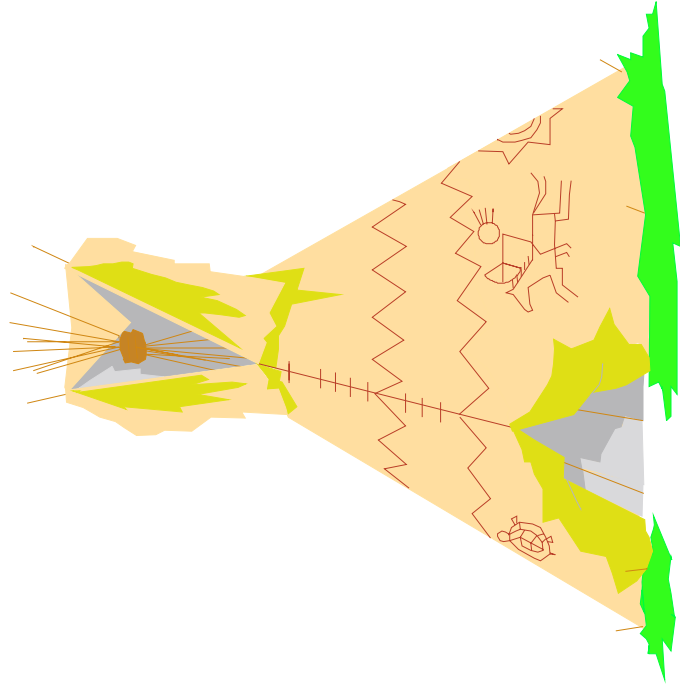
	TOTAL	White non-Hispanic	Hispanic	Black	American Indian	Asian	Unknown
<b>ALL AMERICAN INDIANS</b>	5340	323	414	69	2845	32	1657
<b>Resided on reservation</b>	13	0	0	0	9	0	4
CAMP VERDE	26	2	4	0	13	0	7
COLORADO RIVER	218	1	2	1	160	1	53
FORT APACHE	2	0	0	0	1	0	1
FORT McDOWELL	140	3	9	0	68	0	60
GILA RIVER	12	0	1	0	7	0	4
HAVASUPAI	93	0	1	0	70	0	22
HOPÍ	30	0	0	0	15	0	15
HUALAPAI	1569	17	22	5	1094	1	430
NAVAJO	87	7	8	2	39	1	30
SALT RIVER	202	1	3	0	132	0	66
SAN CARLOS	127	0	2	0	59	0	66
TOHONO O'ODHAM	2519	31	52	8	1667	3	758
<b>TOTAL</b>	1466	163	212	42	607	19	423
<b>Resided off reservation</b>	422	46	64	9	101	3	199
---in Maricopa County	336	18	18	3	199	3	95
---in Pima County	597	65	68	7	271	4	182
---in Coconino County	2821	292	362	61	1178	29	899
---elsewhere in Arizona							
<b>TOTAL</b>							

4.5.  
AGE OF FATHER (2001 STATUS)

	TOTAL	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 INDIANS</b>	5340	1	76	264	1035	987	666	427	170	59	17	11	1627
Resided on reservation	13	0	0	0	4	1	0	1	3	0	0	0	4
CAMP VERDE	26	0	2	1	7	3	5	1	0	0	0	0	7
COLORADO RIVER	218	1	7	17	39	40	33	16	9	2	0	1	53
FORT APACHE	2	0	0	0	0	0	0	0	1	0	0	0	1
FORT McDOWELL	140	0	5	8	24	18	12	8	4	0	1	0	60
GILA RIVER	12	0	0	2	0	2	2	0	2	0	0	0	4
HAVASUPAI	93	0	2	7	20	17	12	8	3	1	1	0	22
HOPI	30	0	0	0	7	3	2	4	0	0	0	1	13
HUALAPAI	1569	0	13	63	284	274	238	169	66	18	11	4	429
NAVAJO	87	0	2	10	18	15	6	3	2	2	0	0	29
SALT RIVER	202	0	4	23	40	32	19	13	4	2	2	0	63
SAN CARLOS	127	0	5	7	10	15	9	6	7	2	0	0	66
TOHONO O'ODHAM	2519	1	40	138	453	420	338	229	101	27	15	6	751
TOTAL	1466	0	24	67	330	314	179	91	35	15	0	3	408
Resided off reservation	422	0	3	13	63	67	43	25	8	2	1	0	197
---in Maricopa County	336	0	3	14	69	75	39	25	12	5	1	1	92
---in Pima County	597	0	6	32	120	111	67	57	14	10	0	1	179
---in Coconino County	2821	0	36	126	582	567	328	198	69	32	2	5	876
---elsewhere in Arizona													
TOTAL													

**4.6.**  
**SOURCE OF PAYMENT FOR LABOR AND DELIVERY (2001 STATUS)**

	TOTAL	Payee for birth				Unknown
		AHCCCS	IHS	Private insurance	Self	
<b>ALL AMERICAN INDIANS</b>	5340	2921	1169	888	43	319
<b>Resided on reservation</b>						
CAMP VERDE	13	5	0	8	0	0
COLORADO RIVER	26	9	1	6	0	10
FORT APACHE	218	101	105	10	0	2
FORT McDOWELL	2	2	0	0	0	0
GILA RIVER	140	84	21	34	1	0
HAVASUPAI	12	9	1	1	1	0
HOPÍ	93	20	53	2	0	18
HUALAPAI	30	25	0	4	1	0
NAVAJO	1569	810	520	77	3	159
SALT RIVER	87	53	10	20	0	4
SAN CARLOS	202	23	169	7	0	3
TOHONO O'ODHAM	127	98	12	17	0	0
<b>TOTAL</b>	2519	1239	892	186	6	196
<b>Resided off reservation</b>						
---in Maricopa County	1466	843	140	401	24	58
---in Pima County	422	243	30	138	4	7
---in Coconino County	336	228	45	55	1	7
---elsewhere in Arizona	597	368	62	108	8	51
<b>TOTAL</b>	2821	1682	277	702	37	123



## **MATERNAL LIFESTYLE AND HEALTH CHARACTERISTICS**



**4.7.  
MATERNAL WEIGHT GAIN DURING PREGNANCY (2001 STATUS)**

	TOTAL	Weight gain							Unknown
		None	1-15 pounds	16-20 pounds	21-24 pounds	25-30 pounds	31+ pounds		
<b>TOTAL BIRTHS</b>	5340	94	866	576	371	1041	1563	829	
<b>Resided on reservation</b>	13	1	2	1	0	2	5	2	
CAMP VERDE	26	0	1	0	0	2	8	15	
COLORADO RIVER	218	4	36	11	21	24	52	70	
FORT APACHE	2	0	0	1	0	0	1	0	
FORT McDOWELL	140	1	24	15	3	58	28	11	
GILA RIVER	12	0	1	5	0	1	5	0	
HAVASUPAI	93	3	17	17	4	12	12	28	
HOPI	30	2	4	5	1	7	10	1	
HUALAPAI	1569	28	328	213	146	247	340	267	
NAVAJO	87	0	17	7	7	13	21	22	
SALT RIVER	202	5	29	22	7	33	56	50	
SAN CARLOS	127	6	28	9	8	26	46	4	
TOHONO O'ODHAM	2519	50	487	306	197	425	584	470	
<b>TOTAL</b>	1466	22	195	145	102	315	491	196	
<b>Resided off reservation</b>	422	9	45	28	23	91	161	65	
---in Maricopa County	336	4	46	30	21	67	138	30	
---in Pima County	597	9	93	67	28	143	189	68	
---in Coconino County	2821	44	379	270	174	616	979	359	
---elsewhere in Arizona									
<b>TOTAL</b>									

**4.8. MEDICAL RISK FACTORS OF PREGNANCY (2001 STATUS)**

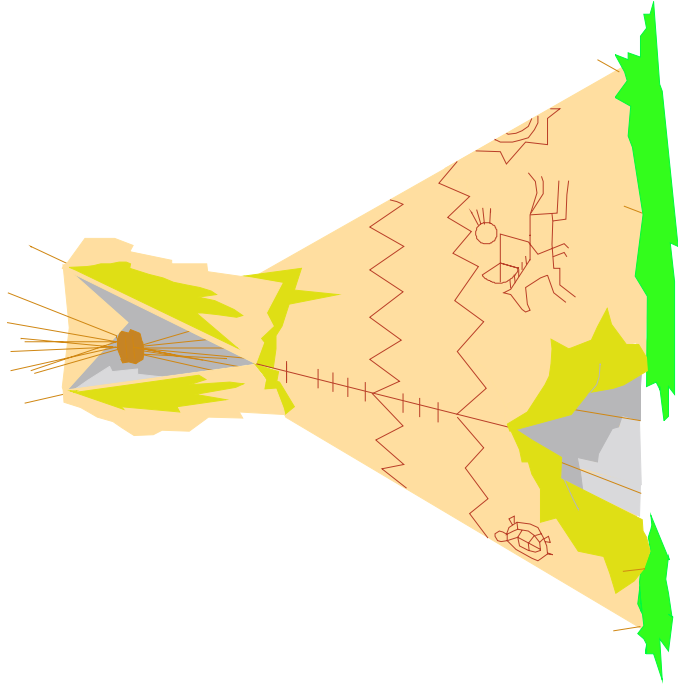
TOTAL BIRTHS	Births with medical risk factors	Medical risk factors															
		Anemia	Cardiac disease	Lung disease	Diabetes	Genital herpes	Hydranmios	Hemoglobinopathy	Chronic hypertension	Pregnancy associated hypertension	Eclampsia	Previous infant 4000+g	Previous SGA infant	Renal disease	RH sensitization	Uterine bleeding	Incompetent cervix
<b>TOTAL BIRTHS</b>	2111	319	14	13	330	15	103	1	68	305	58	51	11	7	14	3	1354
<b>Resided on reservation</b>																	
CAMP VERDE	13	4	0	0	3	0	0	0	1	2	0	0	0	0	0	0	3
COLORADO RIVER	26	11	1	0	1	0	1	0	0	3	0	0	0	0	0	0	9
FORT APACHE	218	136	21	1	22	2	4	0	3	23	1	1	1	1	1	0	107
FORT McDOWELL	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
GILA RIVER	140	31	7	0	11	0	1	0	1	2	3	0	2	0	0	0	11
HAVASUPAI	12	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
HOPI	93	37	4	0	6	0	2	0	4	9	1	1	1	0	0	0	19
HUALAPAI	30	5	0	0	2	0	0	0	2	0	1	0	0	0	0	0	3
NAVAJO	1569	580	83	4	113	2	58	0	21	118	4	22	7	1	5	1	270
SALT RIVER	87	43	11	0	10	1	1	0	2	6	3	0	1	0	0	0	28
SAN CARLOS	202	81	18	1	17	0	2	0	7	15	3	4	0	0	1	0	39
TOHONO O'ODHAM	127	29	0	0	7	0	0	0	1	2	3	0	0	0	0	0	19
<b>TOTAL</b>	2519	961	146	6	193	5	69	0	42	180	19	28	9	2	7	1	511
<b>Resided off reservation</b>																	
---in Maricopa County	1466	687	134	4	81	7	22	1	15	62	26	15	14	0	1	2	526
---in Pima County	422	136	7	0	7	1	0	0	0	4	5	0	0	1	2	0	122
---in Coconino County	336	135	4	2	13	1	5	0	4	30	4	0	4	1	1	0	84
---elsewhere in Arizona	597	192	28	2	36	1	7	0	7	29	4	8	3	2	3	0	111
<b>TOTAL</b>	2821	1150	173	8	137	10	34	1	26	125	39	23	21	2	5	7	843



**4.9.  
SUBSTANCE USE DURING PREGNANCY (2001 STATUS)**

	TOTAL	Substance use			
		Drinker, nonsmoker	Smoker, nondrinker	Smoker and drinker	Nonsmoker and nondrinker
<b>ALL AMERICAN INDIANS</b>	5340	73	150	64	5053
<b>Resided on reservation</b>					
CAMP VERDE	13	0	0	1	12
COLORADO RIVER	26	0	1	2	23
FORT APACHE	218	13	6	10	189
FORT McDOWELL	2	0	0	0	2
GILA RIVER	140	3	3	0	134
HAVASUPAI	12	0	0	1	11
HOPÍ	93	3	0	1	89
HUALAPAI	30	2	0	0	28
NAVAJO	1569	17	22	6	1524
SALT RIVER	87	2	6	2	77
SAN CARLOS	202	7	1	7	187
TOHONO O'ODHAM	127	1	7	2	117
<b>TOTAL</b>	2519	48	46	32	2393
<b>Resided off reservation</b>					
---in Maricopa County	1466	17	57	21	1371
---in Pima County	422	2	27	2	391
---in Coconino County	336	0	2	0	334
---elsewhere in Arizona	597	6	18	9	564
<b>TOTAL</b>	2821	25	104	32	2660





# Utilization of Medical Services



**4.10.  
TRIMESTER OF PREGNANCY PRENATAL CARE BEGAN (2001 STATUS)**

	TOTAL	Prenatal care				Unknown
		No care	1st trimester	2nd trimester	3rd trimester	
<b>ALL AMERICAN INDIANS</b>	5340	102	3448	1313	361	116
<b>Resided on reservation</b>						
CAMP VERDE	13	0	7	5	1	0
COLORADO RIVER	26	1	17	4	2	2
FORT APACHE	218	5	134	55	16	8
FORT McDOWELL	2	0	1	0	1	0
GILA RIVER	140	2	101	27	7	3
HAVASUPAI	12	2	5	3	1	1
HOPI	93	1	63	18	6	5
HUALAPAI	30	0	16	8	4	2
NAVAJO	1569	16	1047	388	93	25
SALT RIVER	87	0	56	18	11	2
SAN CARLOS	202	8	89	53	37	15
TOHONO O'ODHAM	127	2	78	40	7	0
<b>TOTAL</b>	2519	37	1614	619	186	63
<b>Resided off reservation</b>						
---in Maricopa County	1466	30	957	378	75	26
---in Pima County	422	8	282	92	33	7
---in Coconino County	336	7	240	69	18	2
---elsewhere in Arizona	597	20	355	155	49	18
<b>TOTAL</b>	2821	65	1834	694	175	53

**4.11.  
NUMBER OF PRENATAL VISITS (2001 STATUS)**

	TOTAL	Prenatal visits					
		No visits	1-4 visits	5-8 visits	9-12 visits	13+ visits	Unknown
<b>ALL AMERICAN INDIANS</b>	5340	102	517	1347	2133	1086	155
<b>Resided on reservation</b>	13	0	2	7	2	2	0
CAMP VERDE	26	1	9	3	2	5	6
COLORADO RIVER	218	5	25	75	88	21	4
FORT APACHE	2	0	0	0	1	1	0
FORT McDOWELL	140	2	6	29	77	20	6
GILA RIVER	12	2	7	1	0	2	0
HAVASUPAI	93	1	8	26	38	15	5
HOPI	30	0	9	13	4	2	2
HUALAPAI	1569	16	166	445	568	348	26
NAVAJO	87	0	8	22	34	20	3
SALT RIVER	202	8	46	75	46	12	15
SAN CARLOS	127	2	13	32	40	38	2
TOHONO O'ODHAM	2519	37	299	728	900	486	69
<b>TOTAL</b>	1466	30	88	289	685	321	53
<b>Resided off reservation</b>	422	8	42	95	158	108	11
---in Maricopa County	336	7	21	68	156	82	2
---in Pima County	597	20	67	167	234	89	20
---in Coconino County	2821	65	218	619	1233	600	86
---elsewhere in Arizona							
<b>TOTAL</b>							

4.12.  
OBSTETRIC PROCEDURES (2001 STATUS)

	TOTAL	Obstetric procedures						
		Amniocentesis	Electronic Fetal Monitoring	Induction of labor	Stimulation of labor	Tocolysis	Ultrasound	Other
<b>ALL AMERICAN INDIANS</b>	5080	71	4381	872	639	151	3550	793
<b>Resided on reservation</b>	13	0	11	0	2	0	2	0
CAMP VERDE	19	0	16	1	2	0	10	4
COLORADO RIVER	209	3	189	49	59	19	164	105
FORT APACHE	2	0	2	0	0	0	1	1
FORT McDOWELL	138	2	136	10	7	13	135	61
GILA RIVER	12	0	11	2	4	0	4	1
HAVASUPAI	89	2	86	21	10	1	46	2
HOPÍ	29	0	29	2	9	1	1	0
HUALAPAI	1455	16	1378	284	170	24	880	50
NAVAJO	86	2	75	19	10	4	70	16
SALT RIVER	196	7	135	29	15	14	149	28
SAN CARLOS	122	8	39	7	1	0	117	1
TOHONO O'ODHAM	2370	40	2107	424	289	76	1579	269
TOTAL	1436	15	1236	199	182	57	1173	409
<b>Resided off reservation</b>	417	9	257	49	52	1	351	17
---in Maricopa County	329	1	306	101	33	2	98	3
---in Pima County	528	6	475	99	83	15	349	95
---in Coconino County	2710	31	2274	448	350	75	1971	524
---elsewhere in Arizona								
TOTAL								

**4.13. COMPLICATIONS OF LABOR AND DELIVERY (2001 STATUS)**

	TOTAL BIRTHS	Births with complications	Complications of labor and/or delivery																
			Febrile	Meconium	Rupture of membrane	Abruptio placenta	Placenta previa	Other bleeding	Seizures	Precipitous labor	Prolonged labor	Dysfunctional labor	Breech malpresentation	Cephalopelvic disp.	Cord prolapse	Anesthetic Complic.	Fetal distress	Other	
<b>TOTAL BIRTHS</b>	5340	1737	62	236	196	34	21	75	1	91	58	160	168	56	7	2	165	936	
<b>Resided on reservation</b>																			
CAMP VERDE	13	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	
COLORADO RIVER	26	7	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	3	
FORT APACHE	218	115	3	8	11	0	1	5	0	0	2	31	7	6	0	0	32	85	
FORT McDOWELL	2	2	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	
GILA RIVER	140	28	0	0	3	0	2	0	0	0	2	2	2	0	0	1	1	18	
HAVASUPAI	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
HOPI	93	31	2	5	9	0	1	1	0	7	3	3	0	1	0	0	3	8	
HUALAPAI	30	4	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3	
NAVAJO	1569	486	15	58	69	18	5	38	0	51	32	80	68	11	3	0	42	141	
SALT RIVER	87	36	1	8	5	0	2	1	0	4	0	0	4	1	0	0	1	23	
SAN CARLOS	202	55	3	10	6	2	0	0	0	2	4	3	3	2	0	0	8	27	
TOHONO O'ODHAM	127	19	0	0	1	0	1	0	0	3	0	0	4	1	0	0	1	10	
<b>TOTAL</b>	2519	787	25	91	105	20	12	45	0	67	43	119	94	22	3	1	90	321	
<b>Resided off reservation</b>																			
---in Maricopa County	1466	569	24	96	68	5	7	21	1	11	8	14	34	23	3	1	39	382	
---in Pima County	422	113	0	17	4	6	1	0	0	3	0	0	10	8	0	0	9	72	
---in Coconino County	336	77	7	9	12	1	1	1	0	2	4	6	13	0	0	0	3	38	
---elsewhere in Arizona	597	191	6	23	7	2	0	8	0	8	3	21	17	3	1	0	24	123	
<b>TOTAL</b>	2821	950	37	145	91	14	9	30	1	24	15	41	74	34	4	1	75	615	

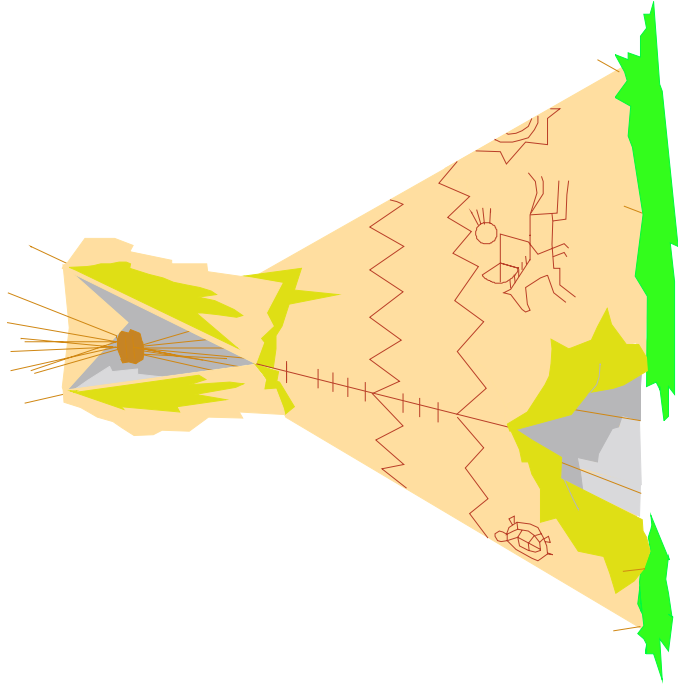


**4.14.  
METHOD OF DELIVERY (2001 STATUS)**

	TOTAL	Method of delivery					
		Vaginal	Vaginal after C-Section	Primary C-Section	Repeat C-Section	Forceps	Vacuum
<b>ALL AMERICAN INDIANS</b>	5340	4295	153	549	343	32	109
CAMP VERDE	13	9	0	4	0	0	0
COLORADO RIVER	26	16	0	5	5	4	0
FORT APACHE	218	172	9	21	16	6	9
FORT McDOWELL	2	0	0	1	1	0	0
GILA RIVER	140	111	1	14	14	0	3
HAVASUPAI	12	11	0	1	0	0	0
HOPI	93	86	3	3	1	0	0
HUALAPAI	30	24	0	2	4	0	0
NAVAJO	1569	1313	61	123	72	4	22
SALT RIVER	87	62	5	14	6	1	6
SAN CARLOS	202	151	3	22	26	0	7
TOHONO O'ODHAM	127	101	0	12	14	0	2
<b>TOTAL</b>	2519	2056	82	222	159	15	49
---in Maricopa County	1466	1150	44	189	83	8	29
---in Pima County	422	324	7	47	44	4	13
---in Coconino County	336	277	9	30	20	2	4
---elsewhere in Arizona	597	488	11	61	37	3	14
<b>TOTAL</b>	2821	2239	71	327	184	17	60
<b>Resided on reservation</b>							
<b>Resided off reservation</b>							

**4.15.  
ATTENDANT AT BIRTH (2001 STATUS)**

	TOTAL	ATTEND_TITLE_CODE					
		M.D.	C.N.M.	Midwife	D.O.	Other	Unknown
<b>ALL AMERICAN INDIANS</b>	5340	3069	1661	15	434	31	130
<b>Resided on reservation</b>	13	13	0	0	0	0	0
CAMP VERDE	26	24	1	0	1	0	0
COLORADO RIVER	218	141	3	0	73	0	1
FORT APACHE	2	2	0	0	0	0	0
FORT McDOWELL	140	77	8	0	55	0	0
GILA RIVER	12	7	0	0	5	0	0
HAVASUPAI	93	39	53	0	1	0	0
HUALAPAI	30	24	0	0	6	0	0
NAVAJO	1569	457	955	10	51	2	94
SALT RIVER	87	62	23	0	2	0	0
SAN CARLOS	202	197	4	0	1	0	0
TOHONO O'ODHAM	127	121	1	0	0	5	0
<b>TOTAL</b>	2519	1164	1048	10	195	7	95
<b>Resided off reservation</b>	1466	927	412	0	117	9	1
---in Maricopa County	422	334	67	0	11	10	0
---in Pima County	336	247	59	0	27	0	3
---elsewhere in Arizona	597	397	75	5	84	5	31
<b>TOTAL</b>	2821	1905	613	5	239	24	35



# Newborn's Health



**4.16.  
GESTATIONAL AGE (2001 STATUS)**

	TOTAL	Length of gestation				
		<37 weeks	37 weeks	38-43 weeks	43+ weeks	Unknown
<b>ALL AMERICAN INDIANS</b>	5340	537	387	4378	6	32
<b>Resided on reservation</b>	13	1	2	10	0	0
CAMP VERDE	26	2	0	16	0	8
COLORADO RIVER	218	35	12	171	0	0
FORT APACHE	2	0	0	2	0	0
FORT McDOWELL	140	19	14	107	0	0
GILA RIVER	12	2	0	10	0	0
HAVASUPAI	93	10	7	76	0	0
HUPI	30	3	2	25	0	0
HUALAPAI	1569	124	83	1356	3	3
NAVAJO	87	12	7	67	0	1
SALT RIVER	202	19	25	155	0	3
SAN CARLOS	127	21	13	93	0	0
TOHONO O'ODHAM	2519	248	165	2088	3	15
<b>Resided off reservation</b>	1466	144	118	1199	1	4
---in Maricopa County	422	56	30	334	0	2
---in Pima County	336	26	29	280	1	0
---in Coconino County	597	63	45	477	1	11
---elsewhere in Arizona	2821	289	222	2290	3	17
<b>TOTAL</b>						

**4.17.  
WEIGHT AT BIRTH (2001 STATUS)**

	TOTAL	Weight at birth					
		<1,000 grams	1,000-1,499	1,500-2,499	2,500-3,999	4000+	Unknown
<b>TOTAL BIRTHS</b>	5340	25	30	337	4442	500	6
<b>Resided on reservation</b>							
CAMP VERDE	13	1	0	1	8	3	0
COLORADO RIVER	26	0	0	2	18	6	0
FORT APACHE	218	2	0	18	185	11	2
FORT McDOWELL	2	0	0	0	2	0	0
GILA RIVER	140	2	0	12	114	12	0
HAVASUPAI	12	0	0	1	9	2	0
HOPI	93	0	0	10	78	5	0
HUALAPAI	30	0	0	4	21	5	0
NAVAJO	1569	3	9	104	1321	130	2
SALT RIVER	87	1	1	5	70	10	0
SAN CARLOS	202	0	1	7	172	22	0
TOHONO O'ODHAM	127	0	0	14	103	10	0
<b>TOTAL</b>	2519	9	11	178	2101	216	4
<b>Resided off reservation</b>							
---in Maricopa County	1466	9	9	83	1193	171	1
---in Pima County	422	3	3	24	351	41	0
---in Coconino County	336	1	2	18	295	20	0
---elsewhere in Arizona	597	3	5	34	502	52	1
<b>TOTAL</b>	2821	16	19	159	2341	284	2

4.18.  
**ABNORMAL CONDITIONS OF THE NEWBORN (2001 STATUS)**

TOTAL BIRTHS	Births with abnormal conditions of the newborn	Abnormal conditions								
		Anemia	Birth injury	Fetal Alcohol Syndrome	Membrane disease	Meconium aspiration	Assisted vent. <30 min	Assisted vent. >30 min.	Seizures	Other
<b>TOTAL BIRTHS</b>	5340	8	5	1	22	11	49	44	12	414
<b>Resided on reservation</b>										
CAMP VERDE	13	0	0	0	0	0	1	0	0	2
COLORADO RIVER	26	0	0	0	0	0	3	0	0	2
FORT APACHE	218	1	0	0	1	2	2	9	0	52
FORT McDOWELL	2	0	0	0	0	0	0	0	0	0
GILA RIVER	140	0	0	0	0	0	0	1	0	6
HAVASUPAI	12	0	0	0	0	0	0	0	0	0
HOPI	93	0	0	0	0	1	0	1	0	5
HUALAPAI	30	0	0	0	1	0	0	0	0	3
NAVAJO	1569	3	1	1	9	1	13	12	3	58
SALT RIVER	87	0	0	0	1	0	1	0	0	7
SAN CARLOS	202	1	0	0	0	0	5	1	1	17
TOHONO O'ODHAM	127	0	0	0	0	0	0	0	2	3
<b>TOTAL</b>	2519	5	1	1	12	4	25	24	6	155
<b>Resided off reservation</b>										
---in Maricopa County	1466	2	3	0	5	5	6	5	1	158
---in Pima County	422	0	1	0	0	0	12	2	2	34
---in Coconino County	336	0	0	0	1	0	1	2	1	23
---elsewhere in Arizona	597	1	0	0	4	2	5	11	2	44
<b>TOTAL</b>	2821	3	4	0	10	7	24	20	6	259

**4.19. CONGENITAL ANOMALIES (BIRTH DEFECTS) (2001 STATUS)**

	TOTAL BIRTHS	Births with congenital anomalies	Congenital anomalies																					
			Anecephalus	Spina Bifida	Hydrocephalus	Microcephalus	Other CNS Anomaly	Heart Malformations	Other Respiratory /Circulatory	Rectal Atresia	Fistula/ Esoph. Atresia	Omphalocele	Other Gastrointestinal	Malformed Genitalia	Renal Agenesis	Other Urogenital	Cleft Lip/Palate	Polydactyly	Club Foot	Diaphragmatic Hernia	Other Musculoskeletal	Down's Syndrome	Other Chromosomal	Other
<b>TOTAL BIRTHS</b>	5340	121	0	2	4	0	7	7	10	0	0	2	1	2	1	0	4	8	2	1	2	5	1	78
<b>Resided on reservation</b>																								
CAMP VERDE	13	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
COLORADO RIVER	26	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
FORT APACHE	218	8	0	0	1	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
FORT McDOWELL	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GILA RIVER	140	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
HAVASUPAI	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HOPI	93	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
HUALAPAI	30	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
NAVAJO	1569	23	0	1	3	0	2	2	0	0	0	1	0	0	1	0	2	6	2	1	0	0	0	11
SALT RIVER	87	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
SAN CARLOS	202	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
TOHONO O'ODHAM	127	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>TOTAL</b>	2519	50	0	2	4	0	4	3	4	0	0	1	0	1	1	0	2	7	2	1	0	0	0	27
<b>Resided off reservation</b>																								
---in Maricopa County	1466	47	0	0	0	0	0	0	1	0	0	1	1	1	0	0	1	1	0	0	1	1	1	40
---in Pima County	422	8	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	6
---in Coconino County	336	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
---elsewhere in Arizona	597	13	0	0	0	1	3	3	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	4
<b>TOTAL</b>	2821	71	0	0	0	3	4	6	0	0	1	1	1	1	0	2	1	1	0	2	5	1	51	



**TABLE 4.20.  
CAUSES OF INFANT DEATH AMONG AMERICAN INDIAN RESIDENTS, ARIZONA, 2001**

	Total	Resided on reservation									Resided off reservation					
		COLORADO RIVER	FORT APACHE	FORT McDOWELL	GILA RIVER	HOPÍ	NAVAJO	SALT RIVER	SAN CARLOS	TOHONO O'DHAM	TOTAL	--in Maricopa County	--in Pima County	--in Coconino County	---elsewhere in Arizona	TOTAL
Total, all causes	57	2	2	2	2	2	10	2	3	1	26	15	9	2	5	31
Congenital malformations	11	1	1	0	0	1	4	0	1	0	8	1	0	0	2	3
Conditions originating in the perinatal period	15	0	0	1	0	0	2	2	1	0	6	4	4	0	1	9
---Complications of placenta, cord and membrane	3	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3
---Short gestation and low birth weight	2	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1
---Respiratory condition	2	0	0	1	0	0	1	0	0	0	2	0	0	0	0	0
---Maternal complications	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
---Bacterial sepsis of newborn	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
---Atelectasis	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
---Intrauterine hypoxia or birth asphyxia	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Diseases of the respiratory system	5	0	0	0	0	1	0	0	0	0	1	1	2	0	1	4
Infectious and parasitic diseases	4	0	1	0	0	0	0	0	0	0	1	2	1	0	0	3
Unknown cause	6	1	0	0	0	0	0	0	1	0	2	2	2	0	0	4
---Sudden infant death syndrome	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
---Other unspecified cause	4	1	0	0	0	0	0	0	1	0	2	0	2	0	0	2
Diseases of the circulatory system	4	0	0	0	1	0	0	0	0	0	1	2	0	1	0	3
Accident (unintentional injury)	4	0	0	0	0	0	2	0	0	0	2	2	0	0	0	2
Malignant neoplasms	2	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1
Diseases of the digestive system	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Diseases of the genitourinary system	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Assault (homicide)	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

**4.21. COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY COUNTY OF RESIDENCE, ARIZONA, 2001**

	TOTAL STATE	APACHE	COCHISE	COCONINO	GILA	GRAHAM	MARICOPA	MOHAVE	NAVAJO	PIMA	PINAL	SANTA CRUZ	YAVAPAI	YUMA	LA PAZ	UNKNOWN
<b>TOTAL</b>	5340	895	15	768	176	45	1552	65	889	548	274	1	34	46	27	5
<b>Mother's age group</b>																
<15	17	1	0	0	2	1	9	0	0	3	1	0	0	0	0	0
15-17	348	49	0	41	18	3	94	1	55	43	30	0	3	6	5	0
18-19	648	83	1	91	28	7	186	11	100	80	48	0	4	5	3	1
20-24	1750	258	4	260	58	12	554	32	281	165	91	0	11	16	8	0
25-29	1278	244	6	176	34	12	388	12	185	137	53	0	9	11	9	2
30-34	793	143	4	114	24	5	221	8	162	69	32	0	5	2	2	2
35-39	415	92	0	65	11	5	88	0	86	45	15	1	2	5	0	0
40-44	85	25	0	20	1	0	11	1	17	6	3	0	0	1	0	0
45+	6	0	0	1	0	0	1	0	3	0	1	0	0	0	0	0
<b>Payee for birth</b>																
AHCCCS	2921	541	3	364	25	11	897	45	482	341	161	0	16	25	9	1
IHS	1169	173	2	307	141	32	150	0	288	41	32	0	0	1	1	1
Private insurance	888	43	9	70	6	2	420	10	58	155	75	0	18	15	6	1
Self	43	4	1	2	0	0	24	3	0	4	2	1	0	2	0	0
Unknown	319	134	0	25	4	0	61	7	61	7	4	0	0	3	11	2
<b>Mother's education</b>																
< 8	54	8	0	2	1	0	17	0	7	10	7	0	1	1	0	0
8	166	15	1	7	6	1	68	0	13	31	18	0	1	4	1	0
9-11	1491	196	2	177	63	14	409	24	243	199	125	1	11	17	10	0
12	2041	385	4	336	65	22	507	31	383	176	88	0	14	15	12	3
13-16	1394	242	7	218	40	8	485	9	217	113	34	0	7	9	4	1
17+	110	14	1	25	1	0	42	0	13	14	0	0	0	0	0	0
Unknown	84	35	0	3	0	0	24	1	13	5	2	0	0	0	0	1
<b>Marital status</b>																
Married	1532	243	11	243	48	12	454	22	265	131	61	1	12	18	11	0
Unmarried	3742	639	4	518	127	30	1080	40	616	408	212	0	22	25	16	5
Other*	66	13	0	7	1	3	18	3	8	9	1	0	0	3	0	0
None	94	10	0	15	1	4	22	2	21	15	2	0	1	1	0	0
<b>Weight gain</b>																
1-16 pounds	866	214	3	117	26	3	211	8	161	73	43	0	3	1	1	2
16-20 pounds	576	132	0	75	20	6	153	7	105	37	32	0	3	6	0	0
21-24 pounds	371	92	2	50	7	2	109	4	67	31	6	0	1	0	0	0
25-30 pounds	1041	136	2	142	29	6	328	15	138	116	97	1	7	22	2	0
31+ pounds	1563	195	6	238	53	11	513	22	210	206	70	0	16	13	8	2
Unknown	829	116	2	131	40	13	216	7	187	70	24	0	3	3	16	1

\* "Refused", "Yes, divorced", "Unknown".

**4.21. (continued)  
COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY  
COUNTY OF RESIDENCE, ARIZONA, 2001**

	TOTAL STATE	APACHE	COCHISE	COCONINO	GILA	GRAHAM	MARICOPA	MOHAVE	NAVAJO	PIMA	PINAL	SANTA CRUZ	YAVAPAI	YUMA	LA PAZ	UNKNOWN
<b>Substance use</b>	Drinker, nonsmoker	73	8	0	4	8	0	19	2	24	3	5	0	0	0	0
	Smoker, nondrinker	150	14	1	4	1	0	63	5	19	34	4	0	2	2	1
	Smoker and drinker	64	5	1	2	7	1	23	1	12	4	4	0	1	1	2
	Nonsmoker and nondrinker	5053	868	13	758	160	44	1447	57	834	507	261	1	31	43	24
<b>Length of gestation</b>	<37 weeks	537	68	4	58	15	7	155	4	102	77	33	0	3	7	2
	37 weeks	387	47	0	59	20	6	125	4	55	42	25	0	3	1	0
	38-43 weeks	4378	779	11	646	139	31	1266	53	729	427	214	1	28	35	16
	43+ weeks	6	1	0	2	0	0	1	0	2	0	0	0	0	0	0
	Unknown	32	0	0	3	2	1	5	4	1	2	2	0	0	3	9
<b>Weight at birth</b>	<1,000 grams	25	1	0	3	0	0	10	0	4	3	3	0	1	0	0
	1,000-1,499	30	5	1	5	0	1	10	0	2	3	2	0	0	0	1
	1,500-2,499	337	58	0	48	6	2	88	6	63	38	18	0	2	5	2
	2,500-3,999	4442	748	12	658	149	39	1262	50	758	453	228	1	28	34	19
	4000+	500	81	2	54	21	3	181	9	59	51	23	0	3	7	6
<b>Prenatal care</b>	Unknown	6	2	0	0	0	0	1	0	3	0	0	0	0	0	0
	No care	102	9	2	15	8	2	30	0	18	9	5	1	2	0	1
	1st trimester	3448	581	9	554	75	20	1012	38	553	360	180	0	13	33	18
	2nd trimester	1313	234	2	149	48	14	396	19	230	132	58	0	16	8	4
	3rd trimester	361	55	1	39	33	5	86	4	68	40	22	0	3	3	2
	Unknown	116	16	1	11	12	4	28	4	20	7	9	0	0	2	2
	No visits	102	9	2	15	8	2	30	0	18	9	5	1	2	0	1
<b>Prenatal visits</b>	1-4 visits	517	75	2	77	32	18	95	16	104	55	26	0	5	1	9
	5-8 visits	1347	232	3	187	65	13	311	21	298	127	64	0	14	9	3
	9-12 visits	2133	325	5	315	48	7	719	16	335	197	134	0	9	18	3
	13+ visits	1086	233	3	167	11	2	341	7	118	147	31	0	4	16	5
	Unknown	155	21	0	7	12	3	56	5	16	13	14	0	0	2	6
<b>Newborn intensive care</b>	Yes	246	35	2	35	7	1	65	2	34	31	16	0	1	12	3
	No	5075	855	13	732	167	44	1485	62	853	517	258	1	33	31	21
	Unknown	19	5	0	1	2	0	2	1	2	0	0	0	0	3	0
<b>Obstetric procedures</b>	Amniocentesis	71	7	1	9	6	1	17	0	10	17	2	0	0	1	0
	Electronic Fetal Monitoring	4381	765	11	694	139	6	1310	59	743	295	266	0	31	42	16
	Induction of labor	872	127	4	214	29	2	218	12	179	56	22	0	2	4	1
	Stimulation of labor	639	77	4	100	15	1	191	17	157	53	13	0	8	1	2

**4.21. (continued)**  
**COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY COUNTY OF RESIDENCE, ARIZONA, 2001**

	TOTAL STATE	APACHE	COCHISE	COCONINO	GILA	GRAHAM	MARICOPA	MOHAVE	NAVAJO	PIMA	PINAL	SANTA CRUZ	YAVAPAI	YUMA	LA PAZ	UNKNOWN
<b>Method of delivery</b>																
Tocolysis	151	13	0	9	14	1	61	2	31	1	18	0	1	0	0	0
Ultrasound	3550	511	11	324	125	40	1241	12	496	467	256	0	9	43	10	5
Other	793	30	0	16	6	26	425	2	178	18	87	0	0	1	4	0
Vaginal	4295	737	12	637	133	33	1212	50	747	423	225	1	29	35	17	4
Vaginal after C-Section	153	37	0	19	3	0	49	0	37	7	1	0	0	0	0	0
Primary C-Section	549	73	0	68	19	5	204	8	70	59	26	0	5	6	5	1
Repeat C-Section	343	48	3	44	21	7	87	7	35	59	22	0	0	5	5	0
Forceps	32	1	0	4	0	0	8	0	10	5	0	0	0	0	4	0
Vacuum	109	10	0	11	6	1	34	3	17	16	8	1	0	1	0	1
<b>Births with medical risk factors</b>																
Total	2111	308	11	315	70	17	730	12	387	166	66	1	7	6	11	4
Anemia	319	45	0	33	19	1	146	2	49	7	14	0	0	0	1	2
Cardiac disease	14	2	0	3	1	0	4	0	4	0	0	0	0	0	0	0
Lung disease	13	2	0	0	1	0	4	1	5	0	0	0	0	0	0	0
Diabetes	330	74	0	37	11	6	90	3	68	14	21	0	4	1	1	0
Genital herpes	15	2	0	1	0	0	8	0	2	1	0	0	0	1	0	0
Hydramnios	103	28	0	26	2	0	23	0	22	0	1	0	0	0	1	0
Hemoglobinopathy	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Chronic hypertension	68	6	1	15	2	5	16	2	15	1	4	0	1	0	0	0
Pregnancy associated hypertension	305	52	1	68	14	2	68	1	80	6	6	0	2	2	3	0
Eclampsia	58	1	1	6	3	1	29	1	4	8	4	0	0	0	0	0
Previous infant 4000+g	51	17	3	3	4	0	15	1	8	0	0	0	0	0	0	0
Previous SGA infant	51	15	0	7	0	0	15	0	11	0	3	0	0	0	0	0
Renal disease	11	6	0	2	0	0	0	0	3	0	0	0	0	0	0	0
RH sensitization	7	1	0	1	0	0	0	1	2	1	1	0	0	0	0	0
Uterine bleeding	14	2	2	4	1	0	1	0	2	2	0	0	0	0	0	0
Incompetent cervix	3	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Other	1354	134	9	170	34	9	554	6	254	142	23	1	5	2	9	2
<b>Abnormal conditions of the newborn</b>																
Total	500	52	7	56	22	6	174	6	104	44	14	0	3	7	5	0
Anemia	8	2	0	1	1	0	2	0	2	0	0	0	0	0	0	0
Birth injury	5	1	0	0	0	0	3	0	0	1	0	0	0	0	0	0
Fetal Alcohol Syndrome	1	0	0	0	0	0	0	0	1	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, 2001**

	TOTAL STATE	APACHE	COCHISE	COCONINO	GILA	GRAHAM	MARICOPA	MOHAVE	NAVAJO	PIMA	PINAL	SANTA CRUZ	YAVAPAI	YUMA	LA PAZ	UNKNOWN
<b>Births with congenital anomalies</b>																
Hyaline membrane disease	22	6	0	3	0	0	6	1	6	0	0	0	0	0	0	0
Meconium aspiration	11	1	0	1	0	0	5	2	2	0	0	0	0	0	0	0
Assisted vent.<30 min	49	9	0	4	5	0	6	0	5	13	0	0	1	3	3	0
Assisted vent>30 min.	44	10	1	4	1	0	5	0	16	2	1	0	0	4	0	0
Seizures	12	1	0	1	1	0	1	0	4	4	0	0	0	0	0	0
Other	414	29	6	45	14	6	163	4	88	38	13	0	3	3	2	0
<b>Total</b>	121	15	0	10	3	2	53	1	20	9	4	0	2	0	2	0
Anencephalus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spina bifida	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
Hydrocephalus	4	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0
Microcephalus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other CNS anomaly	7	1	0	3	0	0	0	0	2	0	0	0	1	0	0	0
Heart malformations	7	3	0	1	1	0	0	0	1	1	0	0	0	0	0	0
Other respiratory /circulatory	10	0	0	0	0	0	1	0	7	2	0	0	0	0	0	0
Rectal atresia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tracheo-asophageal fistula / esophageal atresia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Congenital anomalies</b>																
Omphalocele/gastroschisis	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
Other gastrointestinal	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Malformed genitalia	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Renal agenesis	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other urogenital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cleft lip/palate	4	0	0	1	0	0	1	0	1	0	1	0	0	0	0	0
Polydactyly	8	3	0	2	0	0	1	0	1	0	0	0	1	0	0	0
Club foot	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Diaphragmatic hernia	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other muscoskeletal	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
Down's syndrome	5	1	0	1	0	0	1	0	0	2	0	0	0	0	0	0
Other chromosomal	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
<b>Other</b>	78	7	0	5	2	2	44	1	6	7	2	0	0	0	2	0

**4.21. (continued)  
COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY  
COUNTY OF RESIDENCE, ARIZONA, 2001**

	TOTAL STATE	APACHE	COCHISE	COCONINO	GILA	GRAHAM	MARICOPA	MOHAVE	NAVAJO	PIMA	PINAL	SANTA CRUZ	YAVAPAI	YUMA	LA PAZ	UNKNOWN
<b>Births with complications</b>	1737	267	6	223	46	14	605	17	345	132	51	0	6	15	7	3
<b>Complications of labor and/or delivery</b>																
<b>Total</b>	62	13	0	8	3	0	25	1	10	0	0	0	0	1	1	0
<b>Febrile</b>	236	36	1	26	9	1	105	3	31	17	1	0	0	4	1	1
<b>Meconium</b>	196	43	0	24	6	0	73	0	37	5	4	0	1	1	1	1
<b>Rupture of membrane</b>	34	10	0	6	2	0	5	0	4	6	0	0	0	1	0	0
<b>Abruptio placenta</b>	21	3	0	3	0	0	9	0	2	2	2	0	0	0	0	0
<b>Placenta previa</b>	75	13	0	21	0	0	22	0	19	0	0	0	0	0	0	0
<b>Other bleeding</b>	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
<b>Seizures</b>	91	35	0	11	2	0	15	0	21	6	0	0	0	1	0	0
<b>Precipitous labor</b>	58	14	0	17	4	0	8	0	12	0	2	0	0	1	0	0
<b>Prolonged labor</b>	160	49	2	28	3	1	14	0	61	0	2	0	0	0	0	0
<b>Dysfunctional labor</b>	168	40	0	32	4	0	39	3	27	14	7	0	1	0	1	0
<b>Breech malpresentation</b>	56	5	0	5	2	0	24	2	8	9	1	0	0	0	0	0
<b>Cephalopelvic disproportion</b>	7	0	0	3	0	0	3	0	1	0	0	0	0	0	0	0
<b>Cord prolapse</b>	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
<b>Anesthetic complications</b>	165	15	0	20	7	1	40	0	62	10	7	0	1	1	1	0
<b>Fetal distress</b>	936	72	5	82	17	13	404	10	203	82	30	0	4	8	3	3
<b>Other</b>	57	7	0	4	2	1	19	0	7	10	3	0	1	1	2	0
<b>Total infant</b>	35	4	0	4	2	0	12	0	5	5	1	0	0	1	1	0
<b>Postneonatal</b>	22	3	0	0	0	1	7	0	2	5	2	0	1	0	1	0
<b>Neonatal</b>																

Note: There were no live births or infant deaths to American Indians in Greenlee County.

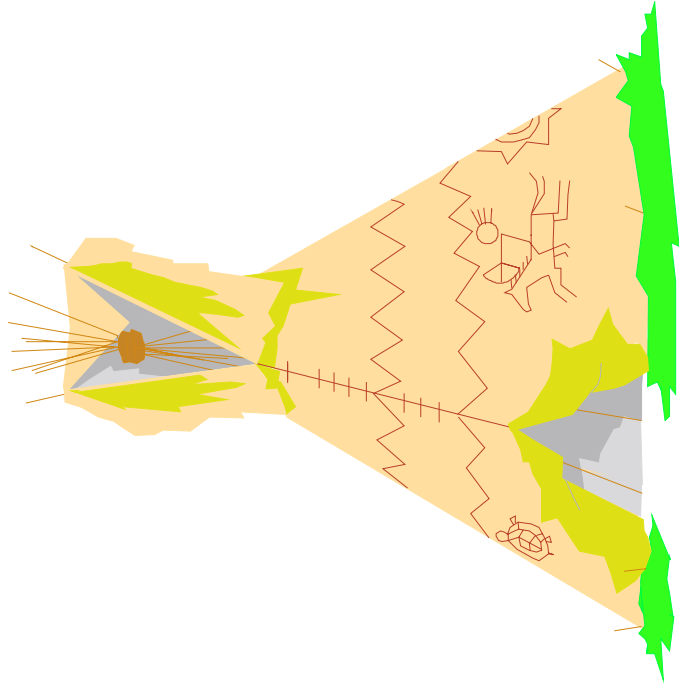


# **IV.**

## **PATTERNS OF MORTALITY AMONG AMERICAN INDIANS BY PLACE OF RESIDENCE IN ARIZONA IN 2001**







## AGE-SPECIFIC MORTALITY



**5.1.  
AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIANS IN 2001**

	TOTAL	Age group												
		<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+		
<b>Total, all American Indians</b>	1562	57	22	36	117	113	206	187	200	246	220	158		
<b>Resided on reservation</b>														
AK CHIN	2	0	0	0	0	1	0	0	1	0	0	0		
CAMP VERDE	6	0	0	0	0	0	2	1	1	0	1	1		
COLORADO RIVER	24	2	0	1	0	0	4	4	6	2	4	1		
FORT APACHE	70	2	4	0	8	4	14	7	9	12	7	3		
FORT McDOWELL	14	2	0	0	1	4	3	2	1	0	1	0		
GILA RIVER	74	2	1	2	4	5	10	11	12	16	9	2		
HAVASUPAI	2	0	0	0	0	0	0	0	0	1	1	0		
HOPI	50	2	2	1	2	4	3	4	8	6	6	12		
HUALAPAI	6	0	0	0	2	0	2	0	1	1	0	0		
KAIBAB	1	0	0	0	0	1	0	0	0	0	0	0		
NAVAJO	501	10	4	17	51	32	57	41	55	76	88	70		
SALT RIVER	46	2	3	0	1	2	7	7	7	10	5	2		
SAN CARLOS	60	3	1	1	6	3	12	10	8	3	8	5		
SAN XAVIER	1	0	0	0	0	0	0	1	0	0	0	0		
TOHONO O'ODHAM	69	1	0	1	3	2	16	10	8	11	9	8		
<b>TOTAL</b>	926	26	15	23	78	58	130	98	117	138	139	104		
<b>Resided off reservation</b>														
---in Maricopa County	292	15	3	6	21	29	35	43	45	43	30	22		
---in Pima County	141	9	1	4	6	11	16	21	19	29	17	8		
---in Coconino County	27	2	1	0	2	2	6	4	2	1	3	4		
---elsewhere in Arizona	176	5	2	3	10	13	19	21	17	35	31	20		
<b>TOTAL</b>	636	31	7	13	39	55	76	89	83	108	81	54		

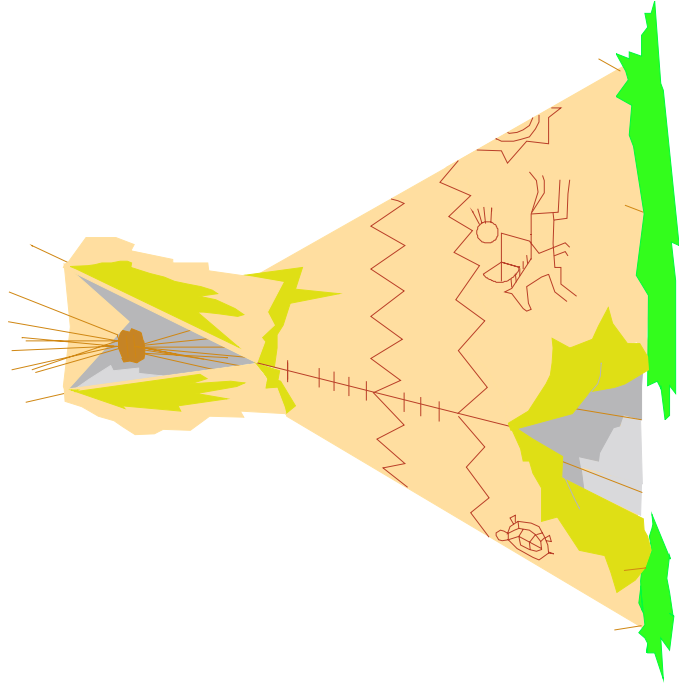
**5.2.  
AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIAN MALES IN 2001**

	TOTAL	Age group												
		<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+		
<b>Total, all American Indians</b>	897	29	10	25	95	81	147	118	107	123	98	64		
<b>Resided on reservation</b>														
AK CHIN	2	0	0	0	0	1	0	0	1	0	0	0		
CAMP VERDE	3	0	0	0	0	0	2	0	0	0	1	0		
COLORADO RIVER	14	1	0	1	0	0	2	4	5	0	1	0		
FORT APACHE	42	1	3	0	6	4	10	5	6	5	2	0		
FORT McDOWELL	12	1	0	0	1	4	3	2	1	0	0	0		
GILA RIVER	36	0	0	2	2	4	7	5	7	7	1	1		
HAVASUPAI	2	0	0	0	0	0	0	0	0	1	1	0		
HOPI	26	2	0	1	2	3	2	2	4	2	3	5		
HUALAPAI	6	0	0	0	2	0	2	0	1	1	0	0		
KAIBAB	1	0	0	0	0	1	0	0	0	0	0	0		
NAVAJO	294	6	3	9	40	26	40	24	31	34	52	29		
SALT RIVER	23	1	0	0	1	1	4	5	1	6	2	2		
SAN CARLOS	39	2	0	1	4	2	8	7	5	2	6	2		
SAN XAVIER	1	0	0	0	0	0	0	1	0	0	0	0		
TOHONO O'ODHAM	37	1	0	1	2	2	11	5	2	6	3	4		
TOTAL	538	15	6	15	60	48	91	60	64	64	72	43		
<b>Resided off reservation</b>														
---in Maricopa County	176	8	1	4	20	16	26	31	23	27	10	10		
---in Pima County	77	3	1	3	5	6	13	13	9	14	8	2		
---in Coconino County	12	1	1	0	2	1	3	2	2	0	0	0		
---elsewhere in Arizona	94	2	1	3	8	10	14	12	9	18	8	9		
TOTAL	359	14	4	10	35	33	56	58	43	59	26	21		

**5.3.  
AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIAN FEMALES IN 2001**

	TOTAL	Age group												
		<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+		
<b>Total, all American Indians</b>	665	28	12	11	22	32	59	69	93	123	122	94		
<b>Resided on reservation</b>	3	0	0	0	0	0	0	1	1	0	0	1		
<b>CAMP VERDE</b>	10	1	0	0	0	0	2	0	1	2	3	1		
<b>COLORADO RIVER</b>	28	1	1	0	2	0	4	2	3	7	5	3		
<b>FORT APACHE</b>	2	1	0	0	0	0	0	0	0	0	1	0		
<b>FORT McDOWELL</b>	38	2	1	0	2	1	3	6	5	9	8	1		
<b>GILA RIVER</b>	24	0	2	0	0	1	1	2	4	4	3	7		
<b>HOPi</b>	207	4	1	8	11	6	17	17	24	42	36	41		
<b>NAVAJO</b>	23	1	3	0	0	1	3	2	6	4	3	0		
<b>SALT RIVER</b>	21	1	1	0	2	1	4	3	3	1	2	3		
<b>SAN CARLOS</b>	32	0	0	0	1	0	5	5	6	5	6	4		
<b>TOHONO O'ODHAM</b>	388	11	9	8	18	10	39	38	53	74	67	61		
<b>TOTAL</b>	116	7	2	2	1	13	9	12	22	16	20	12		
<b>---in Maricopa County</b>	64	6	0	1	1	5	3	8	10	15	9	6		
<b>---in Pima County</b>	15	1	0	0	0	1	3	2	0	1	3	4		
<b>---in Coconino County</b>	82	3	1	0	2	3	5	9	8	17	23	11		
<b>---elsewhere in Arizona</b>	277	17	3	3	4	22	20	31	40	49	55	33		





## CAUSE-SPECIFIC MORTALITY





**5.4.  
DEATHS BY GENDER FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS  
IN 2001**

<b>Cause of death (Tenth Revision, International Statistical Classification of Diseases)</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>
<b>Total, all causes</b>	1562	897	665
Salmonella infections	0	0	0
Shigellosis and amebiasis	0	0	0
Certain other intestinal infections	2	0	2
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	35	20	15
Syphilis	0	0	0
Acute poliomyelitis	0	0	0
Arthropod-borne encephalitis	0	0	0
Measles	0	0	0
Viral hepatitis	0	0	0
Human immunodeficiency virus (HIV) disease	12	10	2
Malaria	0	0	0
Other and unspecified infectious and parasitic diseases	7	4	3
Malignant neoplasms	169	81	88
Malignant neoplasm of lip, oral cavity and pharynx	1	1	0
Malignant neoplasm of esophagus	2	2	0
Malignant neoplasm of stomach	17	9	8
Malignant neoplasm of colon, rectum, and anus	9	5	4
Malignant neoplasm of liver and intrahepatic bile ducts	13	8	5
Malignant neoplasm of pancreas	11	2	9
Malignant neoplasm of larynx	1	0	1
Malignant neoplasm of trachea, bronchus and lung	13	7	6
Malignant neoplasm of skin	2	2	0
Malignant neoplasm of breast	9	0	9
Malignant neoplasm of cervix uteri	5	0	5
Malignant neoplasm of corpus uteri and uterus, part unspecified	2	0	2
Malignant neoplasm of ovary	7	0	7
Malignant neoplasm of prostate	7	7	0
Malignant neoplasm of kidney and renal pelvis	17	11	6

**5.4. (continued)**  
**DEATHS BY GENDER FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS**  
**IN 2001**

<b>Cause of death (Tenth Revision, International Statistical Classification of Diseases)</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>
Malignant neoplasm of bladder	5	2	3
Malignant neoplasm of meninges, brain and other parts of CNS	3	1	2
Malignant neoplasm of lymphoid, hematopoietic and related tissue	19	10	9
Hodgkin's disease	0	0	0
Non-Hodgkin's lymphoma	4	2	2
Leukemia	8	4	4
Multiple myeloma and immunoproliferative neoplasms	7	4	3
Other and unspecified malignant neoplasms of lymphoid tissue	0	0	0
All other and unspecified malignant neoplasm	24	13	11
In situ neoplasms	6	3	3
Anemias	1	0	1
Diabetes	96	43	53
Nutritional deficiencies	4	3	1
Malnutrition	4	3	1
Other nutritional deficiencies	0	0	0
Meningitis	2	0	2
Parkinson's disease	3	2	1
Alzheimer's disease	12	3	9
Major cardiovascular diseases	291	151	140
Diseases of heart	220	119	101
Acute rheumatic fever and chronic rheumatic heart disease	2	1	1
Hypertensive heart disease	5	3	2
Hypertensive heart and renal disease	1	1	0
Ischemic heart disease	144	79	65
Acute myocardial infarction	47	29	18
Other acute ischemic heart disease	5	1	4
Other forms of chronic ischemic heart disease	92	49	43
Atherosclerotic cardiovascular disease	44	27	17
All other forms of chronic ischemic heart disease	48	22	26
Other heart diseases	68	35	33
Acute and subacute endocarditis	111	53	58
Diseases of pericardium and acute myocarditis	1	0	1
Heart failure	12	4	8
All other forms of heart disease	54	30	24
Essential (primary) hypertension and hypertensive renal disease	4	2	2

**5.4. (continued)  
DEATHS BY GENDER FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS  
IN 2001**

<b>Cause of death (Tenth Revision, International Statistical Classification of Diseases)</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>
Cerebrovascular diseases	57	26	31
Atherosclerosis	1	0	1
Other diseases of circulatory system	9	4	5
Aortic aneurysm and dissection	4	2	2
Other disease of arteries, arterioles and capillaries	5	2	3
Other disorders of circulatory system	4	3	1
Influenza and pneumonia	52	26	26
Influenza	0	0	0
Pneumonia	52	26	26
Other acute lower respiratory infections	1	1	0
Acute bronchiolitis	1	1	0
Unspecified acute lower respiratory infection	0	0	0
Chronic lower respiratory diseases	32	15	17
Bronchitis, chronic and unspecified	0	0	0
Emphysema	5	2	3
Asthma	6	2	4
Other chronic lower respiratory diseases	21	11	10
Pneumoconioses and chemical effects	0	0	0
Pneumonitis due to solids and liquids	10	4	6
Other disease of respiratory system	27	10	17
Peptic ulcer	0	0	0
Diseases of appendix	0	0	0
Hernia	1	0	1
Chronic liver disease and cirrhosis	75	47	28
Alcoholic liver disease	49	29	20
Other chronic liver disease and cirrhosis	26	18	8
Cholelithiasis and other disorders of gallbladder	1	1	0
Nephritis, nephritic syndrome and nephrosis	49	16	33
Acute and rapidly progressive nephritic and nephritic syndrome	1	1	0
Chronic glomerulonephritis	1	0	1
Renal failure	47	15	32
Others disorders of kidney	0	0	0
Infections of kidney	2	0	2
Hyperplasia of prostate	0	0	0
Inflammatory diseases of female pelvic organs	0	0	0

**5.4. (continued)  
DEATHS BY GENDER FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS  
IN 2001**

<b>Cause of death (Tenth Revision, International Statistical Classification of Diseases)</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>
Pregnancy, childbirth and the puerperium	1	0	1
Pregnancy with abortive outcome	0	0	0
Other complications of pregnancy, childbirth and the puerperium	1	0	1
Perinatal conditions	15	5	10
Congenital malformations	17	9	8
Symptoms, signs, abnormal findings	23	14	9
<b>Total accidents</b>	<b>257</b>	<b>194</b>	<b>63</b>
Transport accidents	171	122	49
Motor vehicle accidents	154	109	45
Other land transport accidents	16	12	4
Water, air, space	1	1	0
Nontransport accidents	86	72	14
Falls	17	15	2
Accidental discharge of firearms	7	7	0
Accidental drowning and submersion	3	3	0
Accidental exposure to smoke, fire and flames	10	7	3
Accidental poisoning	21	15	6
Other and unspecified nontransport accidents	28	25	3
<b>Intentional self-harm (suicide)</b>	<b>43</b>	<b>36</b>	<b>7</b>
By discharge of firearms	9	9	0
By other means	34	27	7
<b>Assault (homicide)</b>	<b>47</b>	<b>33</b>	<b>14</b>
By discharge of firearms	16	14	2
By other means	31	19	12
Legal intervention	1	1	0
Events of undetermined intent	4	4	0
Discharge of firearms	0	0	0
Other and unspecified events of undetermined intent	4	4	0
Operations of war	0	0	0
Complications of medical and surgical care	0	0	0
<b>INJURY BY FIREARMS</b>	<b>33</b>	<b>31</b>	<b>2</b>
<b>DRUG-INDUCED DEATHS</b>	<b>23</b>	<b>14</b>	<b>9</b>
<b>ALCOHOL-INDUCED DEATHS</b>	<b>82</b>	<b>56</b>	<b>26</b>

**5.5.  
DEATHS BY AGE GROUP FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS  
IN 2001**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	Age group										
		<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
<b>Total, all causes</b>	1562	57	22	36	117	113	206	187	200	246	220	158
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	2	0	0	0	0	0	0	0	0	0	1	1
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	35	2	2	0	1	0	8	8	2	5	5	2
Syphilis	0	0	0	0	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0	0	0	0	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0
Viral hepatitis	0	0	0	0	0	0	0	0	0	0	0	0
Human immunodeficiency virus (HIV) disease	12	0	0	1	0	0	7	4	0	0	0	0
Malaria	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	7	2	1	1	0	0	0	1	2	0	0	0
Malignant neoplasms	169	2	0	1	5	4	12	19	40	45	33	8
Malignant neoplasm of lip, oral cavity and pharynx	1	0	0	0	0	0	1	0	0	0	0	0
Malignant neoplasm of esophagus	2	0	0	0	0	0	0	0	1	1	0	0
Malignant neoplasm of stomach	17	0	0	0	1	0	1	4	3	2	5	1
Malignant neoplasm of colon, rectum, and anus	9	0	0	0	0	0	1	0	2	3	2	1
Malignant neoplasm of liver and intrahepatic bile ducts	13	0	0	0	0	0	1	1	2	4	4	1
Malignant neoplasm of pancreas	11	0	0	0	0	1	0	0	4	3	2	1
Malignant neoplasm of larynx	1	0	0	0	0	0	0	0	1	0	0	0

**5.5. (continued)**  
**DEATHS BY AGE GROUP FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS**  
**IN 2001**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	Age group										
		<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Malignant neoplasm of trachea, bronchus and lung	13	0	0	0	0	0	0	1	3	7	2	0
Malignant neoplasm of skin	2	0	0	0	0	0	0	1	0	0	0	1
Malignant neoplasm of breast	9	0	0	0	0	0	2	1	2	1	2	1
Malignant neoplasm of cervix uteri	5	0	0	0	0	0	2	0	1	2	0	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	2	0	0	0	0	0	0	0	1	0	1	0
Malignant neoplasm of ovary	7	0	0	0	0	0	0	0	2	3	1	1
Malignant neoplasm of prostate	7	0	0	0	0	0	0	0	2	2	3	0
Malignant neoplasm of kidney and renal pelvis	17	1	0	0	0	0	0	3	7	1	5	0
Malignant neoplasm of bladder	5	0	0	0	0	0	0	0	2	3	0	0
Malignant neoplasm of meninges, brain and other parts of CNS	3	1	0	0	0	0	0	2	0	0	0	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	19	0	0	1	3	1	3	5	0	6	0	0
Hodgkin's disease	0	0	0	0	0	0	0	0	0	0	0	0
Non-Hodgkin's lymphoma	4	0	0	0	0	0	3	1	0	0	0	0
Leukemia	8	0	0	1	3	1	0	1	0	2	0	0
Multiple myeloma and immunoproliferative neoplasms	7	0	0	0	0	0	0	3	0	4	0	0
Other and unspecified malignant neoplasms of lymphoid tissue	0	0	0	0	0	0	0	0	0	0	0	0
All other and unspecified malignant neoplasm	24	0	0	0	1	2	1	1	6	6	6	1
In situ neoplasms	6	0	0	0	0	0	4	0	1	1	0	0
Anemias	1	0	0	0	0	0	0	0	0	0	0	1
Diabetes	96	0	0	1	0	0	4	11	24	31	17	8
Nutritional deficiencies	4	0	0	0	0	0	0	0	0	2	2	0
Malnutrition	4	0	0	0	0	0	0	0	0	2	2	0
Other nutritional deficiencies	0	0	0	0	0	0	0	0	0	0	0	0
Meningitis	2	0	1	0	0	0	0	0	0	1	0	0
Parkinson's disease	3	0	0	0	0	0	0	0	0	1	2	0
Alzheimer's disease	12	0	0	0	0	0	0	0	0	1	6	5

**5.5. (continued)  
DEATHS BY AGE GROUP FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS  
IN 2001**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	Age group										
		<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Major cardiovascular diseases	291	4	0	0	2	6	16	32	45	69	63	54
Diseases of heart	220	3	0	0	2	5	8	23	38	52	48	41
Acute rheumatic fever and chronic rheumatic heart disease	2	0	0	0	0	0	0	0	1	0	1	0
Hypertensive heart disease	5	0	0	0	0	0	0	0	1	3	0	1
Hypertensive heart and renal disease	1	0	0	0	0	0	0	0	0	0	0	1
Ischemic heart disease	144	0	0	0	0	1	3	20	29	37	28	26
Acute myocardial infarction	47	0	0	0	0	1	0	7	11	11	6	11
Other acute ischemic heart disease	5	0	0	0	0	0	0	1	0	1	1	2
Other forms of chronic ischemic heart disease	92	0	0	0	0	0	3	12	18	25	21	13
Atherosclerotic cardiovascular disease	44	0	0	0	0	0	3	9	11	11	7	3
All other forms of chronic ischemic heart disease	48	0	0	0	0	0	0	3	7	14	14	10
Other heart diseases	68	3	0	0	2	4	5	3	7	12	19	13
Acute and subacute endocarditis	111	0	0	1	1	1	8	11	25	33	21	10
Diseases of pericardium and acute myocarditis	1	1	0	0	0	0	0	0	0	0	0	0
Heart failure	12	0	0	0	0	0	1	1	0	3	3	4
All other forms of heart disease	54	2	0	0	1	4	4	2	7	9	16	9
Essential (primary) hypertension and hypertensive renal disease	4	0	0	0	0	0	1	0	0	1	1	1
Cerebrovascular diseases	57	1	0	0	0	1	7	9	6	11	12	10
Atherosclerosis	1	0	0	0	0	0	0	0	0	0	0	1
Other diseases of circulatory system	9	0	0	0	0	0	0	0	1	5	2	1
Aortic aneurysm and dissection	4	0	0	0	0	0	0	0	1	2	1	0
Other disease of arteries, arterioles and capillaries	5	0	0	0	0	0	0	0	0	3	1	1
Other disorders of circulatory system	4	0	0	0	0	0	0	1	1	1	0	1
Influenza and pneumonia	52	4	0	0	0	2	5	2	3	9	15	12
Influenza	0	0	0	0	0	0	0	0	0	0	0	0
Pneumonia	52	4	0	0	0	2	5	2	3	9	15	12
Other acute lower respiratory infections	1	0	1	0	0	0	0	0	0	0	0	0





**5.5. (continued)  
DEATHS BY AGE GROUP FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2002**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	Age group												
		<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+		
Congenital malformations	17	11	4	0	0	1	0	1	0	0	0	0	0	0
Symptoms, signs, abnormal findings	23	6	1	0	1	0	0	6	1	2	3	3	3	3
Total accidents	257	4	6	15	54	46	65	28	17	9	8	5	5	5
Transport accidents	171	4	5	10	44	32	38	18	9	5	3	3	3	3
Motor vehicle accidents	154	3	5	10	40	28	35	15	9	4	2	3	3	3
Other land transport accidents	16	1	0	0	4	4	3	2	0	1	1	0	0	0
Water, air, space	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Nontransport accidents	86	0	1	5	10	14	27	10	8	4	5	2	2	2
Falls	17	0	0	0	1	0	4	3	3	2	2	2	2	2
Accidental discharge of firearms	7	0	0	1	1	2	2	1	0	0	0	0	0	0
Accidental drowning and submersion	3	0	0	1	0	1	0	0	1	0	0	0	0	0
Accidental exposure to smoke, fire and flames	10	0	0	0	4	1	3	0	2	0	0	0	0	0
Accidental poisoning	21	0	0	0	1	7	10	2	1	0	0	0	0	0
Other and unspecified nontransport accidents	28	0	1	3	3	3	8	4	1	2	3	0	0	0
Intentional self-harm (suicide)	43	0	0	6	20	6	6	2	1	1	1	0	0	0
By discharge of firearms	9	0	0	0	5	2	0	1	0	0	1	0	0	0
By other means	34	0	0	6	15	4	6	1	1	1	0	0	0	0
Assault (homicide)	47	1	1	2	15	16	10	0	0	1	1	0	0	0
By discharge of firearms	16	0	0	1	9	5	1	0	0	0	0	0	0	0
By other means	31	1	1	1	6	11	9	0	0	1	1	0	0	0
Legal intervention	1	0	0	0	0	1	0	0	0	0	0	0	0	0
Events of undetermined intent	4	0	0	0	2	1	0	1	0	0	0	0	0	0
Discharge of firearms	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified events of undetermined intent	4	0	0	0	2	1	0	1	0	0	0	0	0	0
Operations of war	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Complications of medical and surgical care	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>INJURY BY FIREARMS</b>	33	0	0	2	15	10	3	2	0	0	1	0	0	0
<b>DRUG-INDUCED DEATHS</b>	23	0	0	1	2	8	9	2	1	0	0	0	0	0
<b>ALCOHOL-INDUCED DEATHS</b>	82	0	0	0	1	8	36	23	7	5	1	1	1	1

**5.6.  
DEATHS BY RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2001**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	On reservation													Off reservation									
	Total	AK CHIN	CAMP VERDE	COLORADO RIVER	FORT APACHE	FORT McDOWELL	GILA RIVER	HAVASUPAI	HOPI	HUALAPAI	KAIBAB	NAVAJO	SALT RIVER	SAN CARLOS	SAN XAVIER	TOHONO O'ODHAM	Total	---in Maricopa County	---in Pima County	---in Cochino County	---elsewhere in Arizona	Total	
<b>Total, all causes</b>	1562	2	6	24	70	14	74	2	50	6	1	501	46	60	1	69	926	292	141	27	176	636	
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
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
Certain other intestinal infections	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	2	0	0	0	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
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
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
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
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
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
Septicemia	35	0	0	0	1	1	2	0	1	0	0	7	0	2	0	3	17	6	5	1	6	18	
Syphilis	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
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
Measles	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	12	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	5	4	2	0	1	7	
Malaria	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	7	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	4	2	1	0	0	3	
Malignant neoplasms	169	0	0	2	4	0	8	0	6	0	0	51	4	10	0	5	90	33	13	7	26	79	
Malignant neoplasm of lip, oral cavity and pharynx	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
Malignant neoplasm of esophagus	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	1	
Malignant neoplasm of stomach	17	0	0	0	1	0	0	0	1	0	0	8	1	1	0	12	1	1	0	2	2	5	
Malignant neoplasm of colon, rectum, and anus	9	0	0	0	0	0	1	0	1	0	0	2	0	0	0	1	5	3	1	0	0	4	
Malignant neoplasm of liver and intrahepatic bile ducts	13	0	0	0	0	0	0	0	1	0	0	7	0	1	0	9	2	0	0	0	2	4	
Malignant neoplasm of pancreas	11	0	0	0	0	0	0	0	0	0	0	4	0	0	1	5	2	0	0	0	4	6	

**5.6. (continued)  
DEATHS BY RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2001**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	On reservation												Off reservation									
		AK CHIN	CAMP VERDE	COLORADO RIVER	FORT APACHE	FORT McDOWELL	GILA RIVER	HAVASUPAI	HOPI	HUALAPAI	KAIBAB	NAVAJO	SALT RIVER	SAN CARLOS	SAN XAVIER	TOHONO O'DHAM	Total	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	Total	
Malignant neoplasm of larynx	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Malignant neoplasm of trachea, bronchus and lung	13	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	2	2	2	0	7	11	
Malignant neoplasm of skin	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
Malignant neoplasm of breast	9	0	0	1	0	0	0	0	0	0	2	0	1	0	0	4	4	0	1	0	0	5	
Malignant neoplasm of cervix uteri	5	0	0	0	0	0	0	0	0	0	2	1	0	0	0	3	0	0	2	0	0	2	
Malignant neoplasm of corpus uteri and uterus, part unspecified	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	
Malignant neoplasm of ovary	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	1	0	7	
Malignant neoplasm of prostate	7	0	0	0	0	0	0	1	0	0	3	0	1	0	0	5	0	1	0	1	0	2	
Malignant neoplasm of kidney and renal pelvis	17	0	0	0	0	0	1	0	0	0	7	0	1	0	1	10	3	2	0	2	0	7	
Malignant neoplasm of bladder	5	0	0	0	0	0	0	0	0	1	1	0	0	0	2	1	1	0	1	0	1	3	
Malignant neoplasm of meninges, brain and other parts of CNS	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	3	
Malignant neoplasm of lymphoid, hematopoietic and related tissue	19	0	0	1	0	4	0	0	0	3	0	2	0	2	12	2	3	2	1	1	1	7	
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	
Non-Hodgkin's lymphoma	4	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2	1	0	0	1	0	2	
Leukemia	8	0	0	1	0	1	0	0	0	1	0	0	0	0	3	2	2	2	1	0	0	5	
Multiple myeloma and immunoproliferative neoplasms	7	0	0	0	0	2	0	0	0	0	2	0	2	0	7	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	
All other and unspecified malignant neoplasm	24	0	0	2	0	1	0	1	0	10	1	1	1	0	16	3	0	0	5	8			
In situ neoplasms	6	0	0	0	0	0	0	0	0	1	0	2	0	0	3	2	1	0	0	3			
Anemias	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0			
Diabetes	96	0	0	2	4	0	7	0	1	17	4	2	0	6	43	23	16	1	13	53			
Nutritional deficiencies	4	0	0	0	0	0	1	0	0	2	0	0	0	3	0	1	0	0	1	0	1		
Malnutrition	4	0	0	0	0	0	1	0	0	2	0	0	0	3	0	1	0	0	1	0	1		
Other nutritional deficiencies	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 113 CAUSES AMONG AMERICAN INDIANS IN 2001**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	On reservation												Off reservation										
		AK CHIN	CAMP VERDE	COLORADO RIVER	FORT APACHE	FORT McDOWELL	GILA RIVER	HAVASUPAI	HOPI	HUALAPAI	KAIBAB	NAVAJO	SALT RIVER	SAN CARLOS	SAN XAVIER	TOHONO O'ODHAM	Total	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	Total		
Meningitis	2	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0
Parkinson's disease	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0
Alzheimer's disease	12	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	3	4	1	0	4	9	4	9
Major cardiovascular diseases	291	0	2	1	17	3	17	0	7	4	0	79	13	10	0	15	168	67	20	5	31	123	123	
Diseases of heart	220	0	1	1	10	1	11	0	6	4	0	59	11	9	0	10	123	55	16	4	22	97	97	
Acute rheumatic fever and chronic rheumatic heart disease	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	1	
Hypertensive heart disease	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	0	4	4	
Hypertensive heart and renal disease	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Ischemic heart disease	144	0	1	1	8	1	10	0	0	2	0	32	10	7	0	6	78	42	8	0	16	66	66	
Acute myocardial infarction	47	0	1	0	4	0	4	0	0	2	0	13	1	2	0	2	29	11	1	0	6	18	18	
Other acute ischemic heart disease	5	0	0	1	1	0	0	0	0	0	0	2	0	0	0	0	4	0	0	0	1	1	1	
Other forms of chronic ischemic heart disease	92	0	0	0	3	1	6	0	0	0	0	17	9	5	0	4	45	31	7	0	9	47	47	
Atherosclerotic cardiovascular disease	44	0	0	0	2	0	3	0	0	0	0	7	6	2	0	1	21	19	1	0	3	23	23	
All other forms of chronic ischemic heart disease	48	0	0	0	1	1	3	0	0	0	0	10	3	3	0	3	24	12	6	0	6	24	24	
Other heart diseases	68	0	0	0	2	0	1	0	5	2	0	26	1	2	0	3	42	10	6	4	6	26	26	
Acute and subacute endocarditis	111	0	0	2	4	1	7	1	1	1	0	22	4	2	0	7	52	24	19	1	15	59	59	
Diseases of pericardium and acute myocarditis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Heart failure	12	0	0	0	1	0	0	0	1	0	0	7	0	0	0	0	9	0	0	1	2	3	3	
All other forms of heart disease	54	0	0	0	1	0	1	0	4	1	0	19	1	2	0	3	32	10	6	2	4	22	22	
Essential (primary) hypertension and hypertensive renal disease	4	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	3	1	0	0	0	1	1	
Cerebrovascular diseases	57	0	1	0	7	2	5	0	0	0	0	17	2	1	0	4	39	7	4	1	6	18	18	
Atherosclerosis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Other diseases of circulatory system	9	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	3	4	0	0	2	6	6	
Aortic aneurysm and dissection	4	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	1	1	0	0	1	2	2	

**5.6. (continued)  
DEATHS BY RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2001**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	On reservation													Off reservation						
		AK CHIN	CAMP VERDE	COLORADO RIVER	FORT APACHE	FORT McDOWELL	GILA RIVER	HAVASUPAI	HOPI	HUALAPAI	KAIABAB	NAVAJO	SALT RIVER	SAN CARLOS	SAN XAVIER	TOHONO O'DHAM	Total	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona
Other disease of arteries, arterioles and capillaries	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	1	4
Other disorders of circulatory system	4	0	0	0	0	1	0	0	0	0	1	0	0	0	0	2	1	0	0	1	2
Influenza and pneumonia	52	0	0	2	2	0	1	0	2	0	20	2	3	0	2	34	7	8	0	3	18
Influenza	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pneumonia	52	0	0	2	2	0	1	0	2	0	20	2	3	0	2	34	7	8	0	3	18
Other acute lower respiratory infections	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Acute bronchiolitis	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	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
Chronic lower respiratory diseases	32	0	0	2	0	0	1	0	0	0	14	1	0	0	0	18	8	4	0	2	14
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
Emphysema	5	0	0	0	0	0	0	0	0	0	1	1	0	0	2	2	2	0	0	1	3
Asthma	6	0	0	1	0	0	0	0	0	0	2	0	0	0	3	1	2	0	0	0	3
Other chronic lower respiratory diseases	21	0	0	1	0	0	1	0	0	0	11	0	0	0	13	5	2	0	1	8	
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
Pneumonitis due to solids and liquids	10	0	0	1	1	0	0	1	0	0	5	0	0	0	8	0	1	0	1	2	
Other disease of respiratory system	27	0	0	1	0	0	0	1	0	0	13	0	0	0	2	17	2	4	0	4	10
Peptic ulcer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diseases of appendix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hernia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Chronic liver disease and cirrhosis	75	0	1	1	6	0	5	0	2	0	9	4	3	1	10	42	16	7	1	9	33
Alcoholic liver disease	49	0	1	1	4	0	3	0	2	0	9	2	2	0	7	31	8	4	1	5	18
Other chronic liver disease and cirrhosis	26	0	0	0	2	0	2	0	0	0	0	2	1	1	3	11	8	3	0	4	15
Cholelithiasis and other disorders of gallbladder	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Nephritis, nephrotic syndrome and nephrosis	49	0	0	0	2	0	6	0	4	0	7	2	0	0	5	26	9	9	1	4	23
Acute and rapidly progressive nephritic and nephrotic syndrome	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
Chronic glomerulonephritis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1

**5.6. (continued)  
DEATHS BY RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2001**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	On reservation												Off reservation								
		AK CHIN	CAMP VERDE	COLORADO RIVER	FORT APACHE	FORT McDOWELL	GILA RIVER	HAVASUPAI	HOP I	HUALAPAI	KAIBAB	NAVAJO	SALT RIVER	SAN CARLOS	SAN XAVIER	TOHONO O'DHAM	Total	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	Total
Renal failure	47	0	0	0	2	0	6	0	4	0	0	7	2	0	0	4	25	8	9	1	4	22
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
Infections of kidney	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
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
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
Pregnancy, childbirth and the puerperium	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	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	0	0	0	0	0
Other complications of pregnancy, childbirth and the puerperium	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
Perinatal conditions	15	0	0	0	0	1	0	0	0	0	0	2	2	1	0	0	6	4	4	0	1	9
Congenital malformations	17	0	0	1	1	0	0	0	1	0	0	5	1	2	0	0	11	3	0	0	3	6
Symptoms, signs, abnormal findings	23	0	0	2	1	0	1	0	2	0	0	4	0	2	0	0	12	5	3	1	2	11
Total accidents	257	1	2	2	12	2	12	0	13	1	0	94	7	8	0	10	164	41	20	5	27	93
Transport accidents	171	1	0	1	5	1	8	0	11	0	0	66	5	6	0	7	111	26	9	5	20	60
Motor vehicle accidents	154	1	0	1	4	1	7	0	9	0	0	64	4	5	0	6	102	23	9	4	16	52
Other land transport accidents	16	0	0	0	1	0	0	0	2	0	0	2	1	1	0	1	8	3	0	1	4	8
Water, air, space	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Nontransport accidents	86	0	2	1	7	1	4	0	2	1	0	28	2	2	0	3	53	15	11	0	7	33
Falls	17	0	1	0	0	0	1	0	1	0	0	4	0	1	0	1	9	5	1	0	2	8
Accidental discharge of firearms	7	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	1	1	0	2	4
Accidental drowning and submersion	3	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0
Accidental exposure to smoke, fire and flames	10	0	0	0	3	0	0	0	0	0	0	6	0	1	0	0	10	0	0	0	0	0
Accidental poisoning	21	0	1	0	0	0	3	0	0	0	0	2	0	0	0	1	7	6	6	0	2	14
Other and unspecified nontransport accidents	28	0	0	0	3	1	0	0	1	1	0	12	2	0	0	1	21	3	3	0	1	7
Intentional self-harm (suicide)	43	0	0	0	6	1	0	0	2	0	0	19	1	1	0	0	30	6	6	0	1	13
By discharge of firearms	9	0	0	0	0	1	0	0	2	0	0	3	0	0	0	0	6	2	1	0	0	3
By other means	34	0	0	0	6	0	0	0	0	0	0	16	1	1	0	0	24	4	5	0	1	10

**5.6. (continued)  
DEATHS BY RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2001**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	On reservation												Off reservation								
		AK CHIN	CAMP VERDE	COLORADO RIVER	FORT APACHE	FORT McDOWELL	GILA RIVER	HAVASUPAI	HOP I	HUALAPAI	KAIRAB	NAVAJO	SALT RIVER	SAN CARLOS	SAN XAVIER	TOHONO O'ODHAM	Total	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	Total
Assault (homicide)	47	0	0	0	2	2	6	0	1	0	0	9	1	6	0	2	29	12	1	3	2	18
By discharge of firearms	16	0	0	0	1	0	1	0	0	0	0	1	0	1	0	1	5	11	0	0	0	11
By other means	31	0	0	0	1	2	5	0	1	0	0	8	1	5	0	1	24	1	1	3	2	7
Legal intervention	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Events of undetermined intent	4	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	3	1	0	0	0	1
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
Other and unspecified events of undetermined intent	4	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	3	1	0	0	0	1
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
Complications of medical and surgical care	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>INJURY BY FIREARMS</b>	<b>33</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>14</b>	<b>15</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>19</b>
<b>DRUG-INDUCED DEATHS</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>7</b>	<b>6</b>	<b>7</b>	<b>0</b>	<b>3</b>	<b>16</b>
<b>ALCOHOL-INDUCED DEATHS</b>	<b>82</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>8</b>	<b>54</b>	<b>13</b>	<b>6</b>	<b>1</b>	<b>8</b>	<b>28</b>

**5.7.  
DEATHS BY COUNTY OF RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2001**

	Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	La Paz	Unknown
<b>Total, all causes</b>	1562	308	14	148	56	15	0	340	25	257	206	127	0	17	15	25	9
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	2	0	0	0	0	0	0	0	0	1	0	1	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	35	6	1	2	1	2	0	7	0	5	8	3	0	0	0	0	0
Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral hepatitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Human immunodeficiency virus (HIV) disease	12	1	0	1	0	0	0	5	0	1	2	1	0	1	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	7	0	0	0	0	0	0	2	0	4	1	0	0	0	0	0	0
Malignant neoplasms	169	36	6	19	11	1	0	37	2	21	15	17	0	0	2	2	0
Malignant neoplasm of lip, oral cavity and pharynx	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Malignant neoplasm of esophagus	2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
Malignant neoplasm of stomach	17	6	0	3	0	1	0	2	0	4	0	1	0	0	0	0	0
Malignant neoplasm of colon, rectum, and anus	9	1	0	1	0	0	0	3	0	1	1	2	0	0	0	0	0
Malignant neoplasm of liver and intrahepatic bile ducts	13	5	0	3	1	0	0	2	0	1	0	1	0	0	0	0	0
Malignant neoplasm of pancreas	11	4	0	0	1	0	0	2	0	2	1	1	0	0	0	0	0
Malignant neoplasm of larynx	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Malignant neoplasm of trachea, bronchus and lung	13	0	2	0	2	0	0	2	2	2	2	1	0	0	0	0	0
Malignant neoplasm of skin	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0



**5.7. (continued)  
DEATHS BY COUNTY OF RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2001**

	Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	La Paz	Unknown
Malignant neoplasm of breast	9	1	0	2	1	0	0	4	0	0	0	0	0	0	0	1	0
Malignant neoplasm of cervix uteri	5	2	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Malignant neoplasm of ovary	7	0	0	1	0	0	0	5	0	0	0	0	0	0	1	0	0
Malignant neoplasm of prostate	7	2	0	1	1	0	0	0	0	2	1	0	0	0	0	0	0
Malignant neoplasm of kidney and renal pelvis	17	5	0	1	1	0	0	3	0	2	2	3	0	0	0	0	0
Malignant neoplasm of bladder	5	1	1	0	0	0	0	2	0	0	1	0	0	0	0	0	0
Malignant neoplasm of meninges, brain and other parts of CNS	3	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	19	2	0	2	2	0	0	3	0	1	3	6	0	0	0	0	0
Hodgkin's disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Hodgkin's lymphoma	4	0	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0
Leukemia	8	1	0	1	0	0	0	2	0	1	2	1	0	0	0	0	0
Multiple myeloma and immunoproliferative neoplasms	7	1	0	1	2	0	0	0	0	0	0	3	0	0	0	0	0
Other and unspecified malignant neoplasms of lymphoid tissue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All other and unspecified malignant neoplasm	24	6	3	3	1	0	0	4	0	5	0	1	0	0	1	0	0
In situ neoplasms	6	0	0	1	2	0	0	2	0	0	1	0	0	0	0	0	0
Anemias	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Diabetes	96	11	1	4	2	0	0	27	3	11	22	9	0	1	3	2	0
Nutritional deficiencies	4	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Malnutrition	4	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Other nutritional deficiencies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningitis	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parkinson's disease	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Alzheimer's disease	12	0	0	0	1	0	1	4	1	4	1	1	0	0	0	0	0
Major cardiovascular diseases	291	43	4	30	10	4	0	78	7	43	34	26	0	6	5	1	0
Diseases of heart	220	34	2	20	8	4	0	63	7	32	25	17	0	4	3	1	0
Acute rheumatic fever and chronic rheumatic heart disease	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

**5.7. (continued)  
DEATHS BY COUNTY OF RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2001**

	Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	La Paz	Unknown
Hypertensive heart disease	5	0	0	0	0	0	0	2	0	1	2	0	0	0	0	0	0
Hypertensive heart and renal disease	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Ischemic heart disease	144	18	2	10	7	3	0	49	3	17	14	14	0	3	3	1	0
Acute myocardial infarction	47	7	1	5	2	1	0	12	3	7	3	3	0	2	1	0	0
Other acute ischemic heart disease	5	0	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0
Other forms of chronic ischemic heart disease	92	11	1	3	5	2	0	37	0	8	11	11	0	1	2	0	0
Atherosclerotic cardiovascular disease	44	7	0	0	3	2	0	21	0	3	2	7	0	1	0	0	0
All other forms of chronic ischemic heart disease	48	4	1	3	2	2	0	16	0	5	9	4	0	0	2	0	0
Other heart diseases	68	15	0	10	1	1	0	11	4	14	8	3	0	1	0	0	0
Acute and subacute endocarditis	111	13	2	7	2	0	0	29	4	12	26	10	0	1	3	2	0
Diseases of pericardium and acute myocarditis	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Heart failure	12	5	0	4	0	0	0	0	1	2	0	0	0	0	0	0	0
All other forms of heart disease	54	10	0	5	1	1	0	11	2	12	8	3	0	1	0	0	0
Essential (primary) hypertension and hypertensive renal disease	4	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0
Cerebrovascular diseases	57	7	2	9	2	0	0	10	0	10	8	7	0	2	0	0	0
Atherosclerosis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Other diseases of circulatory system	9	1	0	1	0	0	0	4	0	0	1	1	0	0	1	0	0
Aortic aneurysm and dissection	4	1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
Other disease of arteries, arterioles and capillaries	5	0	0	0	0	0	0	3	0	0	1	0	0	0	1	0	0
Other disorders of circulatory system	4	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
Influenza and pneumonia	52	10	0	6	2	1	0	8	1	9	10	3	0	0	0	2	0
Influenza	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pneumonia	52	10	0	6	2	1	0	8	1	9	10	3	0	0	0	2	0
Other acute lower respiratory infections	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Acute bronchiolitis	1	0	0	0	0	0	0	0	0	1	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	32	6	0	4	0	0	0	8	0	4	4	3	0	1	0	2	0
Bronchitis, chronic and unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Emphysema	5	1	0	0	0	0	0	2	0	0	0	1	0	1	0	0	0

5.7. (continued)  
**DEATHS BY COUNTY OF RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2001**

	Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	La Paz	Unknown
Asthma	6	2	0	0	0	0	0	1	0	0	2	0	0	0	0	1	0
Other chronic lower respiratory diseases	21	3	0	4	0	0	0	5	0	4	2	2	0	0	0	1	0
Pneumoconioses and chemical effects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pneumonitis due to solids and liquids	10	1	0	2	0	0	0	0	0	5	1	0	0	0	0	1	0
Other disease of respiratory system	27	8	0	5	1	0	0	2	0	3	6	0	0	0	1	1	0
Peptic ulcer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diseases of appendix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hernia	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Chronic liver disease and cirrhosis	75	7	0	3	3	0	0	19	0	11	17	12	0	2	0	1	0
Alcoholic liver disease	49	7	0	3	2	0	0	10	0	9	10	6	0	1	0	1	0
Other chronic liver disease and cirrhosis	26	0	0	0	1	0	0	9	0	2	7	6	0	1	0	0	0
Cholelithiasis and other disorders of gallbladder	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Nephritis, nephritic syndrome and nephrosis	49	3	0	3	1	0	0	11	1	8	14	8	0	0	0	0	0
Acute and rapidly progressive nephritic and nephritic syndrome	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Chronic glomerulonephritis	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Renal failure	47	3	0	3	1	0	0	10	1	8	13	8	0	0	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	2	1	0	0	0	0	0	0	0	0	1	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	1	0	0	0	0	0	0	1	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
Other complications of pregnancy, childbirth and the puerperium	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Perinatal conditions	15	2	0	0	0	1	0	7	0	1	4	0	0	0	0	0	0
Congenital malformations	17	2	0	1	2	0	0	4	0	5	0	1	0	1	0	1	0
Symptoms, signs, abnormal findings	23	2	0	2	1	1	0	5	0	5	3	1	0	0	1	2	0
Total accidents	257	48	0	25	7	1	0	47	6	63	30	22	0	3	3	2	0
Transport accidents	171	39	0	19	6	0	0	31	3	38	16	15	0	1	2	1	0
Motor vehicle accidents	154	36	0	18	5	0	0	27	3	34	15	13	0	0	2	1	0
Other land transport accidents	16	3	0	1	1	0	0	4	0	4	1	1	0	1	0	0	0

**5.7. (continued)  
DEATHS BY COUNTY OF RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2001**

	Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	La Paz	Unknown
Water, air, space	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Nontransport accidents	86	9	0	6	1	1	0	16	3	25	14	7	0	2	1	1	0
Falls	17	2	0	0	1	0	0	5	2	3	2	1	0	1	0	0	0
Accidental discharge of firearms	7	0	0	2	0	0	0	1	0	2	1	1	0	0	0	0	0
Accidental drowning and submersion	3	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0
Accidental exposure to smoke, fire and flames	10	0	0	0	0	1	0	0	0	9	0	0	0	0	0	0	0
Accidental poisoning	21	0	0	2	0	0	0	6	0	1	7	3	0	1	1	0	0
Other and unspecified nontransport accidents	28	7	0	2	0	0	0	4	1	8	4	2	0	0	0	0	0
Intentional self-harm (suicide)	43	9	0	5	0	1	0	8	0	14	6	0	0	0	0	0	0
By discharge of firearms	9	1	0	0	0	0	0	3	0	4	1	0	0	0	0	0	0
By other means	34	8	0	5	0	1	0	5	0	10	5	0	0	0	0	0	0
Assault (homicide)	47	6	0	6	5	1	0	15	0	4	3	7	0	0	0	0	0
By discharge of firearms	16	0	0	0	1	0	0	11	0	2	1	1	0	0	0	0	0
By other means	31	6	0	6	4	1	0	4	0	2	2	6	0	0	0	0	0
Legal intervention	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Events of undetermined intent	4	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
Discharge of firearms	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified events of undetermined intent	4	1	0	0	0	0	0	1	1	1	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>INJURY BY FIREARMS</b>	<b>33</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>DRUG-INDUCED DEATHS</b>	<b>23</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>8</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>ALCOHOL-INDUCED DEATHS</b>	<b>82</b>	<b>17</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>15</b>	<b>13</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>0</b>



# TECHNICAL NOTES



## Sources of Data

The charts 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).

The 2000 Census data for Arizona's Indian Reservations are available at <http://www.de.state.az.us/links/economic/webpage/popweb/resage00.xls>

## 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** - Prior to 1990: any neonate whose weight at birth is 2,500 grams or less. Beginning in 1990: any neonate weighing less than 2,500 grams at birth (less than 5 pounds 8 ounces).

**Neonatal death** - 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).

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

**Postneonatal death** - Any death of a liveborn 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

### Medical risk factors for this pregnancy

**Anemia** - Hemoglobin level of less than 10.0 g/dL during pregnancy, or hematocrit of less than 30 percent during pregnancy.

**Cardiac disease** - Disease of the heart.

**Acute or chronic lung disease** - Disease of the lungs during pregnancy.

**Diabetes** - Metabolic disorder characterized by excessive discharge of urine and persistent thirst; includes juvenile onset, adult onset and gestational diabetes during pregnancy.

**Genital herpes** - Infection of the skin of the genital area by herpes simplex virus.

**Hydramnios/Oligohydramnios** - Any noticeable excess (hydramnios) or lack (oligohydramnios) of amniotic fluid.

**Hemoglobinopathy** - A blood disorder caused by alteration in the genetically determined molecular structure of hemoglobin (for example, sickle cell anemia).

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

**Hypertension, pregnancy-associated** - 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.

**Incompetent cervix** - Characterized by painless dilation of the cervix in the second trimester or early in the third trimester of pregnancy, with premature expulsion of membranes though cervix and ballooning of the membranes into vagina, followed by rupture of the membrane and subsequent expulsion of the fetus.

**Previous infant 4,000+ grams** - The birthweight of a previous live-born child was over 4,000 grams (8lbs.14oz.).

**Previous preterm or small-for-gestational-age-infant** - Previous birth of an infant prior to term (before 37 completed weeks of gestation) or of an infant weighing less than the 10th percentile for gestational age using a standard weight for age chart.

**Renal disease** - Kidney disease.

**Rh Sensitization** - The process or state of becoming sensitized to the Rh factor as when an Rh-negative woman is pregnant with an Rh-positive fetus.

**Uterine bleeding** - Any clinically significant bleeding during the pregnancy taking into consideration the stage of pregnancy; any second or third trimester bleeding or third trimester bleeding of the uterus prior to the onset of labor.

### Complications of labor and/or delivery

**Febrile** - A fever greater than 100 degrees F. or 38 degrees C. occurring during labor and/or delivery.

**Meconium, moderate/heavy** - Meconium consists of undigested debris from swallowed amniotic fluid, various products of secretion and shedding by the gastrointestinal tract, moderate to heavy amounts of meconium in the amniotic fluid noted during labor and/or delivery.

**Premature rupture of membranes (more than 12 hours)** - Rupture of membranes at any time during pregnancy and more than 12 hours before the onset of labor.

**Abruptio placenta** - Premature separation of normally implanted placenta from the uterus.

**Placenta previa** - Implantation of the placenta over or near the internal opening of the cervix.

**Other excessive bleeding** - The loss of significant amount of blood from conditions other than abruptio placenta or placenta previa.

**Seizures during labor** - Maternal seizures occurring during labor from any cause.

**Precipitous labor** (less than 3 hours) Extremely rapid labor and delivery lasting less than 3 hours.

**Prolonged labor** (more than 20 hours) -

Abnormally slow progress of labor lasting more than 20 hours.

**Dysfunctional labor** - Failure to progress in a normal pattern of labor.

**Breech/Malpresentation** - At birth, the presentation of the fetal buttocks, rather than the head or other malpresentation.

**Cephalopelvic disproportion** - The relationship of the size, presentation and position of the fetal head to the maternal pelvis, which prevents dilation of the cervix and/or descent of the fetal head.

**Cord prolapse** - Premature expulsion of the umbilical cord in labor before the fetus is delivered.

**Anesthetic complications** - Any complication during labor and/or delivery brought on by an anesthetic agent or agents.

**Fetal distress** - Signs indicating fetal hypoxia (deficiency in amount of oxygen reaching fetal tissues).

### Abnormal conditions of the newborn

**Anemia** - Hemoglobin level of less than 13.0 g/dL, or a hematocrit of less than 39 percent.

**Birth injury** - Impairment of the infant's body function or structure due to adverse influences that occurred at birth.

**Fetal alcohol syndrome** - A syndrome of altered prenatal growth and development occurring in infants born of women who consumed excessive amounts of alcohol during pregnancy.

**Hyaline membrane disease/RDS** - A disorder primarily of prematurity, manifested clinically by respiratory distress and pathologically by pulmonary hyaline membranes and incomplete expansion of the lungs at birth.

**Meconium aspiration syndrome** - Aspiration of meconium by the fetus or newborn, affecting the lower respiratory system.

**Assisted ventilation (less than 30 minutes)** - A mechanical method of assisting respiration for newborns with respiratory failure.

**Assisted ventilation (30 minutes or more)** - Newborn placed on assisted ventilation for 30 minutes or longer.

**Seizures** - A seizure of any etiology.

### Congenital anomalies of child

**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.

**Hydrocephalus** - Excessive accumulation of cerebrospinal fluid within the ventricles of the brain with consequent enlargement of cranium.

**Microcephalus** - A significantly small head.

**Other central nervous system anomalies** - Other specified anomalies of the brain, spinal cord, and nervous system.

**Heart malformations** - Congenital anomalies of heart.

**Other circulatory/respiratory anomalies** - Other specified anomalies of the circulatory and respiratory systems.



**Rectal atresia/stenosis** – Congenital absence, closure, or narrowing of the rectum.

**Tracheo-esophageal fistula/Esophageal atresia** – An abnormal passage between the trachea and the esophagus; esophageal atresia is the congenital absence or closure of the esophagus.

**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.

**Other gastrointestinal anomalies** – Other specified congenital anomalies of the gastrointestinal system.

**Malformed genitalia** – Congenital anomalies of the reproductive organs.

**Renal agenesis** – One or both kidneys are completely absent.

**Other urogenital anomalies** – Other specified congenital anomalies of the organs concerned in the production and excretion of the urine, together with organs of reproduction.

**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.

**Polydactyly/Syndactyly/Adactyly**– Polydactyly is the presence of more than five digits on either hands and/or feet.; syndactyly is having fused or webbed fingers and/or toes; adactyly is the absence of fingers and/or toes.

**Club foot** – Deformities of the foot, which is twisted out of shape or position.

**Down's syndrome** – The most common chromosomal defect with most cases resulting from an extra chromosome (trisomy 21).

**Other chromosomal anomalies** – All other chromosomal aberrations.

**Diaphragmatic hernia** – Herniation of the abdominal contents through the diaphragm into the thoracic cavity usually resulting in respiratory distress.

**Other musculoskeletal/integumental anomalies** – Other specified congenital anomalies of the muscles, skeleton, or skin.

## 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	2001 population of American Indians	2001 deaths among American Indians	Age-specific rates for American Indians in 2001	2000 standard	Age-adjusted rate for American Indians in 2001	
					D (C/B)*100000	E D*E
<1	5216	57	1092.8	.013		15.1
1-4	20809	22	105.7	.055317		5.8
5-14	60938	36	59.1	.145565		8.6
15-24	48537	117	241.1	.138646		33.4
25-34	38347	113	294.7	.135573		40.0
35-44	37043	206	556.1	.162613		90.4
45-54	24926	187	750.2	.134834		101.2
55-64	14506	200	1378.7	.087247		120.3
65-74	8831	246	2785.6	.066037		184.0
75-84	4094	220	5373.7	.044842		241.0
85+	1435	158	11010.5	.015508		170.8
				TOTAL		1010.5

**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.

**Comparability ratios** Comparability ratios are measures of comparison between ICD-9 and ICD-10. Any comparison of causes of mortality in Arizona between 2000 and previous years needs to take into account the changes in statistical trends that can be attributed to changes in the classification system alone. Comparability ratio of 1.0 indicates that the same number of deaths would be assigned to a cause-of-death when ICD-9 or ICD-10 was used. The following table provides comparable cause-of-death categories in ICD-9 and ICD-10 and shows comparability ratios for 113 causes of death.

**Cause-of-Death Categories and Comparability Ratios for Selected 113 Causes of Death**

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)		Category codes according to the Ninth Revision (ICD-9)		Number of deaths allocated according to Tenth Revision		Estimated comparability ratio	Standard error	Relative standard error	95-percent confidence limits				
	A01-A02	002-003	A03-A06	004-006	30	37				0.8108	0.0644	7.9	0.6846	0.9370
Salmonella infections	A01-A02	002-003	A03-A06	004-006	*	*	37	0.8108	0.0644	*	*	*	*	*
Shigellosis and amebiasis	A03-A06	004-006	A04-A07	007-009	*	*	*	*	*	*	*	*	*	*
Certain other intestinal infections	A04-A07	A09	A07-009		*	*	*	*	*	*	*	*	*	*
Tuberculosis	A16-A19	010-018	A16-A19	010-018	653	764	653	0.8547	0.0172	2.0	0.8209	0.8885		
Respiratory tuberculosis	A16	010-012	A16	010-012	518	572	518	0.9056	0.0201	2.2	0.8662	0.9450		
Other tuberculosis	A17-A19	013-018	A17-A19	013-018	135	192	135	0.7031	0.0407	5.8	0.6233	0.7830		
Whooping cough	A37	033	A37	033	*	*	*	*	*	*	*	*	*	*
Scarlet fever and erysipelas	A38-A46	034.1-035	A38-A46	034.1-035	*	*	*	*	*	*	*	*	*	*
Meningococcal infection	A39	036	A39	036	221	222	221	0.9955	0.0149	1.5	0.9663	1.0247		
Septicemia	A40-A41	038	A40-A41	038	21,258	17,791	21,258	1.1949	0.0042	0.3	1.1867	1.2030		
Syphilis	A50-A53	090-097	A50-A53	090-097	21	33	21	0.6364	0.1184	18.6	0.4043	0.8685		
Acute poliomyelitis	A80	045	A80	045	*	*	*	*	*	*	*	*	*	*
Arthropod-borne viral encephalitis	A83-A84, A85.2	062-064	A83-A84, A85.2	062-064	*	*	*	*	*	*	*	*	*	*
Measles	B05	055	B05	055	*	*	*	*	*	*	*	*	*	*
Viral hepatitis	B15-B19	070	B15-B19	070	1,123	1,346	1,123	0.8343	0.0120	1.4	0.8109	0.8578		
Human immunodeficiency virus (HIV) disease	B20-B24	*042-*044	B20-B24	*042-*044	12,765	11,150	12,765	1.1448	0.0045	0.4	1.1360	1.1536		
Malaria	B50-B54	084	B50-B54	084	*	*	*	*	*	*	*	*	*	*
Other and unspecified infectious and parasitic diseases and their sequelae	A00, A05, A20-A36, A42-A44, A48-A49, A54-A79, A81-A82, A85.0-A85.1, A85.8, A86-B04, B06-B09, B25-B49, B55-B99	098-134, 136-139, 771.3	A00, A05, A20-A36, A42-A44, A48-A49, A54-A79, A81-A82, A85.0-A85.1, A85.8, A86-B04, B06-B09, B25-B49, B55-B99	098-134, 136-139, 771.3	464,688	461,544	464,688	1.0068	0.0002	0.0	1.0064	1.0072		
Malignant neoplasms	C00-C97	140-208	C00-C97	140-208	5,927	6,172	5,927	0.9603	0.0040	0.4	0.9525	0.9681		
Malignant neoplasms of lip, oral cavity and pharynx	C00-C14	140-149	C00-C14	140-149	9,596	9,630	9,596	0.9965	0.0020	0.2	0.9926	1.0003		
Malignant neoplasms of esophagus	C15	150	C15	150	11,480	11,408	11,480	1.0063	0.0019	0.2	1.0025	1.0101		
Malignant neoplasm of stomach	C16	151	C16	151	48,583	48,619	48,583	0.9993	0.0009	0.1	0.9975	1.0010		
Malignant neoplasms of colon, rectum and anus	C18-C21	153-154	C18-C21	153-154	9,732	10,102	9,732	0.9634	0.0023	0.2	0.9588	0.9679		
Malignant neoplasms of liver and intrahepatic bile ducts	C22	155	C22	155	24,313	24,361	24,313	0.9980	0.0009	0.1	0.9963	0.9997		
Malignant neoplasm of pancreas	C25	161	C25	161	3,209	3,194	3,209	1.0047	0.0053	0.5	0.9943	1.0150		
Malignant neoplasm of larynx	C32	162	C32	162	131,750	133,936	131,750	0.9837	0.0005	0.1	0.9827	0.9846		
Malignant neoplasms of trachea, bronchus and lung	C33-C34	172	C33-C34	172	5,941	6,139	5,941	0.9677	0.0032	0.3	0.9614	0.9741		
Malignant melanoma of skin	C43	174-175	C43	174-175	38,102	37,891	38,102	1.0056	0.0010	0.1	1.0036	1.0075		
Malignant neoplasm of breast	C50	180	C50	180	3,753	3,802	3,753	0.9871	0.0034	0.3	0.9805	0.9938		
Malignant neoplasm of cervix uteri	C53	179,182	C53	179,182	5,318	5,183	5,318	1.0260	0.0040	0.4	1.0182	1.0339		
Malignant neoplasms of corpus uteri and uterus, part unspecified	C54-C55	183.0	C54-C55	183.0	11,292	11,344	11,292	0.9954	0.0016	0.2	0.9923	0.9985		
Malignant neoplasm of ovary	C61	185	C61	185	30,672	30,267	30,672	1.0134	0.0015	0.1	1.0105	1.0162		
Malignant neoplasm of prostate	C62	189.0, 189.1	C62	189.0, 189.1	9,521	9,521	9,521	1.0000	0.0022	0.2	0.9957	1.0043		
Malignant neoplasms of kidney and renal pelvis	C64-C65	188	C64-C65	188	9,563	9,594	9,563	0.9968	0.0026	0.3	0.9916	1.0019		
Malignant neoplasm of bladder	C67	191-192	C67	191-192	10,039	10,359	10,039	0.9691	0.0025	0.3	0.9642	0.9740		
Malignant neoplasms of meninges, brain and other parts of central nervous system	C70-C72	200-208	C70-C72	200-208	44,715	44,530	44,715	1.0042	0.0012	0.1	1.0019	1.0064		
Malignant neoplasms of lymphoid, hematopoietic and related tissue	C81-C96	201	C81-C96	201	1,021	1,036	1,021	0.9855	0.0089	0.9	0.9680	1.0030		
Hodgkin's disease	C81	200, 202	C81	200, 202	17,924	18,326	17,924	0.9781	0.0018	0.2	0.9745	0.9817		
Non-Hodgkin's lymphoma	C82-C85	204-208	C82-C85	204-208	16,600	16,405	16,600	1.0119	0.0019	0.2	1.0083	1.0155		
Leukemia	C91-C95		C91-C95											

See footnotes at end of table.

**Cause-of-Death Categories and Comparability Ratios for Selected 113 Causes of Death**

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)		Category codes according to the Ninth Revision (ICD-9)		Number of deaths allocated according to Tenth Revision		Number of deaths allocated according to Ninth Revision		Estimated comparability ratio	Standard error	Relative standard error	95-percent confidence limits	
	C88,C90	203	C88,C90	203	9,099	8,763	1,0383	0,0030				0,3	1,0324
Multiple myeloma and immunoproliferative neoplasms	C88,C90	203	C88,C90	203	9,099	8,763	1,0383	0,0030	0,3	1,0324	1,0443		
Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	C96	---	C96	---	*	*	*	*	*	*	*	*	*
All other and unspecified malignant neoplasms	C17,C23-C24,C26-C31,C37-C41,C44-C49,C51-C52,C57-C60,C66,C68-C69,C73-C80,C97	152,156,158-160,163-171,173,181,183.2-184,186-187,189.2-190,193-199	C17,C23-C24,C26-C31,C37-C41,C44-C49,C51-C52,C57-C60,C66,C68-C69,C73-C80,C97	152,156,158-160,163-171,173,181,183.2-184,186-187,189.2-190,193-199	51,182	45,492	1,1251	0,0021	0,2	1,1210	1,1292		
In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	D00-D48	210-239	D00-D48	210-239	9,263	5,532	1,6744	0,0164	1,0	1,6422	1,7067		
Anemias	D50-D64	280-285	D50-D64	280-285	3,059	3,200	0,9559	0,0077	0,8	0,9409	0,9710		
Diabetes mellitus	E10-E14	250	E10-E14	250	48,636	48,242	1,0082	0,0011	0,1	1,0060	1,0103		
Nutritional deficiencies	E40-E64	260-269	E40-E64	260-269	3,215	2,763	1,1636	0,0165	1,4	1,1312	1,1960		
Malnutrition	E40-E46	260-263	E40-E46	260-263	2,607	2,665	0,9782	0,0151	1,5	0,9487	1,0078		
Other nutritional deficiencies	E50-E64	264-269	E50-E64	264-269	608	98	6,2041	0,5961	9,6	5,0358	7,3724		
Meningitis	G00,G03	320-322	G00,G03	320-322	592	584	1,0137	0,0136	1,3	0,9871	1,0403		
Parkinson's disease	G20-G21	332	G20-G21	332	10,404	10,392	1,0012	0,0028	0,3	0,9956	1,0067		
Alzheimer's disease	G30	331.0	G30	331.0	29,707	19,121	1,5536	0,0071	0,5	1,5398	1,5675		
Major cardiovascular diseases	I00-I78	390-434,436-448	I00-I78	390-434,436-448	796,919	798,435	0,9981	0,0002	0,0	0,9977	0,9985		
Diseases of heart	I00-I09,I11,I13,I20-I51	390-398,402,404,410-429	I00-I09,I11,I13,I20-I51	390-398,402,404,410-429	615,564	624,405	0,9858	0,0002	0,0	0,9854	0,9863		
Acute rheumatic fever and chronic rheumatic heart diseases	I00-I09	390-398	I00-I09	390-398	2,446	2,980	0,8208	0,0089	1,1	0,8034	0,8382		
Hypertensive heart disease	I11	402	I11	402	17,322	21,577	0,8028	0,0028	0,3	0,7973	0,8083		
Hypertensive heart and renal disease	I13	404	I13	404	2,170	2,027	1,0705	0,0160	1,5	1,0392	1,1019		
Ischemic heart diseases	I20-I25	410-414,429.2	I20-I25	410-414,429.2	466,459	466,935	0,9990	0,0002	0,0	0,9985	0,9994		
Acute myocardial infarction	I21-I22	410	I21-I22	410	178,125	180,169	0,9887	0,0003	0,0	0,9880	0,9893		
Other acute ischemic heart diseases	I24	411	I24	411	2,667	2,638	1,0110	0,0117	1,2	0,9880	1,0340		
Other forms of chronic ischemic heart disease	I20,I25	412-414,429.2	I20,I25	412-414,429.2	285,667	284,128	1,0054	0,0004	0,0	1,0046	1,0062		
Atherosclerotic cardiovascular disease, so described	I25.0	429.2	I25.0	429.2	64,354	61,362	1,0488	0,0016	0,2	1,0456	1,0519		
All other forms of chronic ischemic heart disease	I20,I25.1-I25.9	412-414	I20,I25.1-I25.9	412-414	221,313	222,766	0,9935	0,0004	0,0	0,9927	0,9942		
Other heart diseases	I26-I51	415-429,1,429.3-429.9	I26-I51	415-429,1,429.3-429.9	127,167	130,886	0,9716	0,0010	0,1	0,9696	0,9736		
Acute and subacute endocarditis	I33	421	I33	421	552	554	0,9964	0,0137	1,4	0,9695	1,0233		
Diseases of pericardium and acute myocarditis	I30-I31,I40	420,422-423	I30-I31,I40	420,422-423	489	475	1,0295	0,0160	1,6	0,9981	1,0608		
Heart failure	I50	428	I50	428	44,297	42,554	1,0410	0,0013	0,1	1,0384	1,0435		
All other forms of heart disease	I26-I28,I34-I38,I42-I49,I51	415-417,424-427,429.0-429.1,429.3-42	I26-I28,I34-I38,I42-I49,I51	415-417,424-427,429.0-429.1,429.3-42	81,829	87,303	0,9373	0,0014	0,2	0,9345	0,9401		
Essential (primary) hypertension and hypertensive renal disease	I10,I12	401,403	I10,I12	401,403	11,958	10,684	1,1192	0,0050	0,4	1,1094	1,1291		
Cerebrovascular diseases	I60-I69	430-434,436-438	I60-I69	430-434,436-438	137,264	129,640	1,0588	0,0008	0,1	1,0572	1,0604		
Atherosclerosis	I70	440	I70	440	13,894	14,417	0,9637	0,0025	0,3	0,9588	0,9686		
Other diseases of circulatory system	I71-I78	441-448	I71-I78	441-448	18,239	19,289	0,9456	0,0021	0,2	0,9414	0,9498		
Aortic aneurysm and dissection	I71	441	I71	441	12,216	12,201	1,0012	0,0010	0,1	0,9992	1,0032		
Other diseases of arteries, arterioles and capillaries	I72-I78	442-448	I72-I78	442-448	6,023	7,088	0,8497	0,0053	0,6	0,8394	0,8601		
Other disorders of circulatory system	I80-I99	451-459	I80-I99	451-459	2,984	2,899	1,0293	0,0172	1,7	0,9956	1,0631		
Influenza and pneumonia	J10-J18	480-487	J10-J18	480-487	50,526	72,371	0,6982	0,0018	0,3	0,6947	0,7016		
Influenza	J10-J11	487	J10-J11	487	572	567	1,0088	0,0073	0,7	0,9945	1,0231		
Pneumonia	J12-J18	480-486	J12-J18	480-486	49,954	71,804	0,6957	0,0018	0,3	0,6922	0,6992		
Other acute lower respiratory infections	J20-J22	466	J20-J22	466	346	355	0,9746	0,0392	4,0	0,8978	1,0515		
Acute bronchitis and bronchiolitis	J20-J21	466	J20-J21	466	265	355	0,7465	0,0264	3,5	0,6947	0,7983		

See footnotes at end of table.

**Cause-of-Death Categories and Comparability Ratios for Selected 113 Causes of Death**

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)		Category codes according to the Ninth Revision (ICD-9)		Number of deaths allocated according to Tenth Revision		Estimated comparability ratio		Standard error		Relative standard error		95-percent confidence limits	
	J22	---	---	---	Tenth Revision	Ninth Revision	*	*	*	*	*	*	Lower	Upper
Unspecified acute lower respiratory infection	J22				94,326	90,022	1.0478	0.0009	0.1	1.0460	1.0496			
Chronic lower respiratory diseases	J40-J47		490-494,496		913	2,320	0.3935	0.0107	2.7	0.3726	0.4145			
Bronchitis, chronic and unspecified	J40-J42		490-491		14,369	14,774	0.9726	0.0031	0.3	0.9666	0.9786			
Empysema	J43		492		4,217	4,718	0.8938	0.0061	0.7	0.8819	0.9057			
Asthma	J45-J46		493		74,827	68,210	1.0970	0.0014	0.1	1.0943	1.0998			
Other chronic lower respiratory diseases	J44,J47		494,496		860	845	1.0178	0.0099	1.0	0.9983	1.0372			
Pneumoconioses and chemical effects	J60-J66,J68		500-506		10,183	9,104	1.1185	0.0048	0.4	1.1092	1.1279			
Other diseases due to solids and liquids	J69		507		16,656	14,269	1.1673	0.0052	0.4	1.1572	1.1774			
Other diseases of respiratory system	J00-J06,J30-J39,J67,J70-J98		034.0,460-465,470-478,495,508-519		3,574	3,686	0.9696	0.0045	0.5	0.9608	0.9784			
Peptic ulcer	K25-K28		531-534		209	202	1.0347	0.0242	2.3	0.9873	1.0820			
Diseases of appendix	K35-K38		540-543		658	633	1.0395	0.0154	1.5	1.0094	1.0696			
Hernia	K40-K46		550-553		21,688	20,920	1.0367	0.0027	0.3	1.0314	1.0420			
Chronic liver disease and cirrhosis	K70,K73-K74		571		10,147	9,965	1.0183	0.0050	0.5	1.0085	1.0281			
Alcoholic liver disease	K70		571.0-571.3		11,541	10,955	1.0535	0.0041	0.4	1.0454	1.0615			
Other chronic liver disease and cirrhosis	K73-K74		571.4-571.9		1,725	1,803	0.9567	0.0060	0.6	0.9450	0.9685			
Cholelithiasis and other disorders of gallbladder	K80-K82		574-575		24,939	20,242	1.2320	0.0044	0.4	1.2234	1.2407			
Nephritis, nephrotic syndrome and nephrosis	N00-N07,N17-N19,N25-N27		580-589		161	249	0.6466	0.0342	5.3	0.5796	0.7136			
Acute and rapidly progressive nephritic and nephrotic syndrome	N00-N01,N04		580-581											
Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified	N02-N03,N05-N07,N26		582-583,587		468	1,213	0.3858	0.0144	3.7	0.3575	0.4141			
Renal failure	N17-N19		584-586		24,290	18,758	1.2949	0.0050	0.4	1.2852	1.3047			
Other disorders of kidney	N25,N27		588-589		20	22	0.9091	0.0867	9.5	0.7392	1.0790			
Infections of kidney	N10-N12,N13.6,N15.1		590		731	726	1.0069	0.0144	1.4	0.9786	1.0352			
Hyperplasia of prostate	N40		600		326	327	0.9969	0.0159	1.6	0.9658	1.0280			
Inflammatory diseases of female pelvic organs	N70-N76		614-616		63	64	0.9844	0.0410	4.2	0.9040	1.0648			
Pregnancy, childbirth and the puerperium	O00-O99		630-676		*	*	*	*	*	*	*			
Pregnancy with abortive outcome	O00-O07		630-639		*	*	*	*	*	*	*			
Other complications of pregnancy, childbirth and the puerperium	O10-O99		640-676		*	*	*	*	*	*	*			
Certain conditions originating in the perinatal period	P00-P96		760-771.2,771.4-779		10,184	9,555	1.0658	0.0033	0.3	1.0593	1.0724			
Congenital malformations, deformations and chromosomal abnormalities	Q00-Q99		740-759		5,950	7,025	0.8470	0.0055	0.6	0.8362	0.8577			
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	R00-R99		780-799		16,940	17,732	0.9553	0.0034	0.4	0.9487	0.9620			
All other diseases (Residual)	Residual		Residual		109,853	122,107	0.8996	0.0015	0.2	0.8968	0.9025			
Accidents (unintentional injuries)	V01-X59,Y85-Y86		E800-E869,E880-E929		31,084	30,163	1.0305	0.0014	0.1	1.0278	1.0333			
Transport accidents	V01-V99,Y85		E800-E848,E929.0,E929.1		17,547	17,586	0.9978	0.0006	0.1	0.9966	0.9990			
Motor vehicle accidents	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. V83-V86,V87.0-V87.8,V88.0-V88.8, V89.0,V89.2		E810-E825		16,632	17,051	0.9754	0.0006	0.1	0.9742	0.9766			

See footnotes at end of table.

**Cause-of-Death Categories and Comparability Ratios for Selected 113 Causes of Death**

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)		Category codes according to the Ninth Revision (ICD-9)		Number of deaths allocated according to Tenth Revision		Number of deaths allocated according to Ninth Revision		Estimated comparability ratio	Standard error	Relative standard error	95-percent confidence limits	
	Tenth Revision (ICD-10)	Category codes according to the Tenth Revision (ICD-10)	Ninth Revision (ICD-9)	Category codes according to the Ninth Revision (ICD-9)	Tenth Revision	Ninth Revision	Tenth Revision	Ninth Revision				Lower	Upper
Other land transport accidents	V01-V05, V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.4, V82.2-V82.9, V87.8, V88.9, V89.1, V89.3, V89.9	E800-E807, E826-E829	*	*	*	*	*	*	*	*	*	*	*
Water, air and space, and other and unspecified transport accidents and their sequelae	V90-V99, Y85	E830-E848, E929.0, E929.1	351	347	1,0115	0.0209	2.1	0.9706	1.0525				
Nontransport accidents	W00-X59, Y86	E850-E869, E880-E928, E929.2-E929.9	13,537	12,577	1.0763	0.0035	0.3	1.0696	1.0831				
Falls	W00-W19	E880-E888	5,173	6,152	0.8409	0.0049	0.6	0.8313	0.8505				
Accidental discharge of firearms	W32-W34	E922	493	466	1.0579	0.0127	1.2	1.0331	1.0828				
Accidental drowning and submersion	W65-W74	E910	283	284	0.9965	0.0127	1.3	0.9716	1.0213				
Accidental exposure to smoke, fire and flames	X00-X09	E890-E899	493	506	0.9743	0.0089	0.9	0.9568	0.9918				
Accidental poisoning and exposure to noxious agents	X40-X49	E850-E869, E924.1	*	*	*	*	*	*	*				
Other and unspecified nontransport accidents and their sequelae	W20-W31, W35-W64, W75-W99, X10-X39, X50-X59, Y86	E900-E909, E911-E921, E923-E924.0, E924.8-E928, E929.2-E929.9	6,698	4,721	1.4188	0.0123	0.9	1.3947	1.4428				
Intentional self-harm (suicide)	X60-X84, Y87.0	E950-E959	18,352	18,422	0.9962	0.0005	0.0	0.9952	0.9972				
Intentional self-harm (suicide) by discharge of firearms	X72-X74	E955.0-E955.4	14,157	14,183	0.9982	0.0007	0.1	0.9968	0.9996				
Intentional self-harm (suicide) by other and unspecified means and their sequelae	X60-X71, X75-X84, Y87.0	E950-E954, E955.5-E959	4,195	4,239	0.9896	0.0023	0.2	0.9850	0.9942				
Assault (homicide)	X85-Y09, Y87.1	E960-E969	12,287	12,308	0.9983	0.0006	0.1	0.9972	0.9994				
Assault (homicide) by discharge of firearms	X93-X95	E965.0-E965.4	8,718	8,745	0.9969	0.0008	0.1	0.9953	0.9985				
Assault (homicide) by other and unspecified means and their sequelae	X85-X92, X96-Y09, Y87.1	E960-E964, E965.5-E969	3,569	3,563	1.0017	0.0024	0.2	0.9969	1.0064				
Legal intervention	Y35, Y89.0	E970-E978	*	*	*	*	*	*	*				
Events of undetermined intent	Y10-Y34, Y87.2, Y89.9	E980-E989	*	*	*	*	*	*	*				
Discharge of firearms, undetermined intent	Y22-Y24	E985.0-E985.4	*	*	*	*	*	*	*				
Other and unspecified events of undetermined intent and their sequelae	Y10-Y21, Y25-Y34, Y87.2, Y89.9	E980-E984, E985.5-E989	*	*	*	*	*	*	*				
Operations of war and their sequelae	Y36, Y89.1	E990-E999	*	*	*	*	*	*	*				
Complications of medical and surgical care	Y40-Y84, Y88	E870-E879, E930-E949	*	*	*	*	*	*	*				

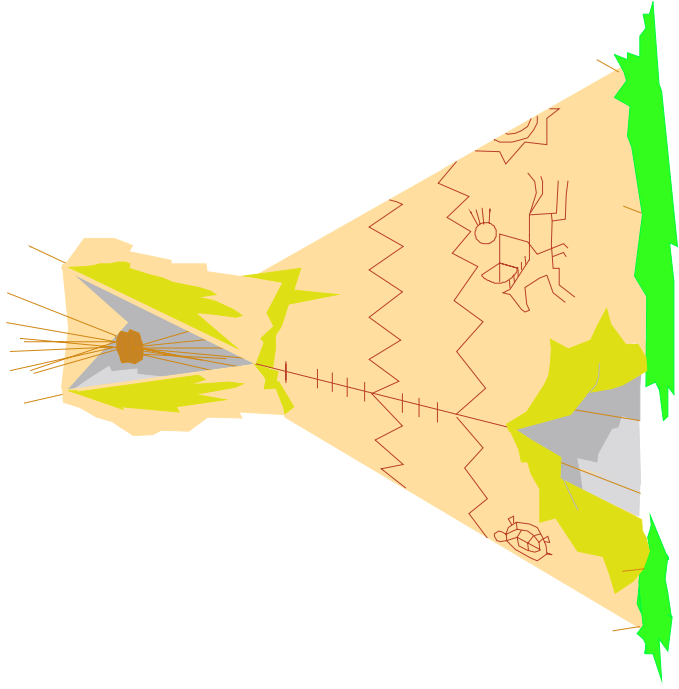
Injury by firearms <sup>1</sup>	W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0	E922, E955.0-E955.4, E965.0-E965.4, E970, E985.0-E985.4	23,355	23,418	0.9973	0.0006	0.1	0.9961	0.9985
Drug-induced deaths <sup>1</sup>	F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, 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	E950.0-E950.5, E962.0, E980.0-E980.5	1,158	969	1.1950	0.0225	1.9	1.1509	1.2391
Alcohol-induced deaths <sup>1</sup>	F10, G31.2, G62.1, I42.6, I29.2, K70, R78.0, X45, X65, Y15	291, 303, 305.0, 357.5, 425.5, 535.3, 571.0-571.3, 790.3, E860	14,783	15,269	0.9682	0.0025	0.3	0.9633	0.9731

\* Figure does not meet standards of reliability or precision.  
 --- Category not applicable.  
 0.0 Quantity more than zero but less than 0.05.  
<sup>1</sup>Included in selected categories.

Source: National vital statistics reports; vol 49 no 8. National Center for Health Statistics. 2001.



# APPENDIX A



## COMMUNITIES ON INDIAN RESERVATIONS IN ARIZONA





**COMMUNITIES ON INDIAN RESERVATIONS IN ARIZONA**

<b>RESERVATION</b>	<b>COUNTY</b>	<b>COMMUNITY CODE*</b>	<b>COMMUNITY NAME</b>
<b>AK CHIN</b>	<b>PINAL</b>	<b>11059</b>	<b>AK CHIN</b>
		<b>11060</b>	<b>AK CHIN INDIAN RESERVATION/NOS**</b>
<b>CAMP VERDE</b>	<b>YAVAPAI</b>	<b>13079</b>	<b>CAMP VERDE INDIAN RESERVATION/NOS</b>
		<b>13080</b>	<b>MIDDLE VERDE</b>
<b>COCOPAH</b>	<b>YUMA</b>	<b>14024</b>	<b>COCOPAH INDIAN RESERVATION</b>
<b>COLORADO RIVER</b>	<b>LA PAZ</b>	<b>15003</b>	<b>PARKER</b>
		<b>15023</b>	<b>COLORADO RIVER INDIAN RESERVATION/NOS</b>
		<b>15024</b>	<b>POSTON</b>
		<b>15025</b>	<b>PARKER VALLEY</b>
		<b>15026</b>	<b>MOHAVE TRIBAL CEMETERY</b>
		<b>01024</b>	<b>FORT APACHE INDIAN RESERVATION/NOS</b>
<b>FORT APACHE</b>	<b>APACHE</b>	<b>01025</b>	<b>HAWLEY LAKE</b>
		<b>01026</b>	<b>MAVERICK</b>
		<b>01027</b>	<b>MCNARY</b>
		<b>04031/04036/04037</b>	<b>FORT APACHE INDIAN RESERVATION/NOS</b>
<b>GILA</b>		<b>04032</b>	<b>AMOS WASH</b>
		<b>04033</b>	<b>CANYON DAY</b>
		<b>04034</b>	<b>CARRIZO</b>
		<b>04035</b>	<b>CEDAR CREEK</b>
		<b>04038</b>	<b>WARRIOR CANYON</b>
		<b>09063/09064</b>	<b>FORT APACHE INDIAN RESERVATION/NOS</b>
<b>NAVAJO</b>		<b>09065</b>	<b>CHINO SPRINGS</b>
		<b>09066/09079</b>	<b>CIBECUE</b>
		<b>09067</b>	<b>DEER SPRINGS</b>
		<b>09068</b>	<b>DIAMOND CREEK</b>
		<b>09069</b>	<b>EAST FORK</b>
		<b>09070</b>	<b>FORT APACHE</b>
		<b>09071</b>	<b>INDIAN PINE</b>
		<b>09072</b>	<b>HONDAH</b>
		<b>09073</b>	<b>MCNARY</b>
		<b>09074</b>	<b>NORTH FORK</b>
		<b>09075</b>	<b>SEVEN MILE</b>

## COMMUNITIES ON INDIAN RESERVATIONS IN ARIZONA

RESERVATION	COUNTY	COMMUNITY CODE*	COMMUNITY NAME
FORT APACHE (CONTINUED)		09076	WHITERIVER
		09077	RAINBOW CITY
		09078	CASTLE BUTTE
FORT McDOWELL	MARICOPA	07107	FORT McDOWELL
FORT MOHAVE	MOHAVE	07108	FORT McDOWELL INDIAN RESERVATION/NOS
FORT YUMA	YUMA	08048	FORT MOHAVE
GILA RIVER	MARICOPA	14023	FORT YUMA
		07021	FIREBIRD LAKE
		07103	GILA RIVER INDIAN RESERVATION/NOS
		07104	GILA CROSSING
		07105	SAINT JOHNS
		07106	KOMATKE
PINAL		11061/11065	GILA RIVER INDIAN RESERVATION/NOS
		11062	BAPCHULE
		11063	BLACKWATER
		11064	CASA BLANCA
		11066	LOWER SANTAN
		11067	OLBERG
		11068	PROGRESSIVE COLONY
		11069	SACATON
		11070	SANTAN
		11071	SOUTH GOODYEAR
		11072	STONIC
		11073	UPPER SANTAN
		11074	SNAKETOWN
		11075	LONG BUTTE
		11076	WETCAMP
		11077	WEST CHANDLER
	11078	SWEETWATER	
	11079	GILA RIVER INDIAN COMMUNITY (GRIC)	
	11081	COCLEBURR	
	11083	JACKRABBIT	

**COMMUNITIES ON INDIAN RESERVATIONS IN ARIZONA**

<b>RESERVATION</b>	<b>COUNTY</b>	<b>COMMUNITY CODE*</b>	<b>COMMUNITY NAME</b>
<b>HAVASUPAI</b>	<b>COCONINO</b>	<b>03059</b>	<b>SUPAI</b>
		<b>03060</b>	<b>HAVASUPAI INDIAN RESERVATION/NOS</b>
<b>HOPi</b>	<b>COCONINO</b>	<b>03061</b>	<b>HOPi INDIAN RESERVATION/NOS</b>
		<b>03071</b>	<b>MOENCOPI</b>
		<b>03083</b>	<b>MOENAVE</b>
		<b>09026</b>	<b>HOPi INDIAN RESERVATION/NOS</b>
<b>NAVAJO</b>	<b>NAVAJO</b>	<b>09027/09028</b>	<b>BACAVI</b>
		<b>09035</b>	<b>HANO</b>
		<b>09037</b>	<b>HOTEVILLA</b>
		<b>09040</b>	<b>KEAMS CANYON</b>
		<b>09042</b>	<b>MISHONGNOVI</b>
		<b>09043/09094</b>	<b>KYKOTSMOVI VILLAGE</b>
		<b>09044</b>	<b>OLD ORAIBI</b>
		<b>09045</b>	<b>ORAIBI</b>
		<b>09047</b>	<b>POLACCA</b>
		<b>09050</b>	<b>SECOND MESA</b>
		<b>09051/09052/09056</b>	<b>SHIPAULOVI</b>
<b>HUALAPAI</b>	<b>COCONINO</b>	<b>09053/09054</b>	<b>SHONGOPOVI</b>
		<b>09055</b>	<b>SICHOMOVI</b>
		<b>09058</b>	<b>SNOWBIRD</b>
		<b>09060</b>	<b>WALPI</b>
		<b>03057</b>	<b>HUALAPAI INDIAN RESERVATION/NOS</b>
		<b>03058</b>	<b>FRAZIERS WELL</b>
<b>MOHAVE</b>	<b>MOHAVE</b>	<b>08054</b>	<b>PEACH SPRINGS INDIAN RESERVATION/NOS</b>
		<b>08055</b>	<b>PEACH SPRINGS</b>
		<b>08059</b>	<b>VALENTINE INDIAN RESERVATION/NOS</b>
<b>KAIBAB</b>	<b>COCONINO</b>	<b>08060</b>	<b>VALENTINE</b>
		<b>03056</b>	<b>KAIBAB INDIAN RESERVATION/NOS</b>
		<b>08049</b>	<b>KAIBAB INDIAN RESERVATION/NOS</b>
		<b>08051</b>	<b>KAIBAB</b>
		<b>08052</b>	<b>MOCCASIN</b>
		<b>08053</b>	<b>SIX MILE</b>

## COMMUNITIES ON INDIAN RESERVATIONS IN ARIZONA

RESERVATION	COUNTY	COMMUNITY CODE*	COMMUNITY NAME
NAVAJO	APACHE	01018	NAVAJO
		01020	PINON
		01022	PAINTED DESERT
		01028	FORT DEFIANCE
		01029	CHINLE
		01030	SAWMILL
		01031	WINDOW ROCK
		01032/01042	TSAILEE
		01033	KINLICHEE
		01034	GANADO
		01035	NAZLINI
		01036	STEAMBOAT
		01037	MANY FARMS
		01038	COTTONWOOD
		01039	ROCK POINT
		01040	DENNEHOTSO
		01041	HUNTER'S POINT
		01043	LUKACHUKAI
		01044	ROUND ROCK
		01045	BLUE GAP
		01046	ROUGH ROCK
		01047	BLUE CANYON
		01048/01062	ST. MICHAELS
		01049	WHEATFIELDS
		01050	SALINA SPRINGS
		01051	KLGETOH
		01052	TOYEI
01053	WIDE RUINS		
01054	HOUCK		
01055	TEEC NOS POS		
01056	LUPTON		
01057	RED VALLEY		

**COMMUNITIES ON INDIAN RESERVATIONS IN ARIZONA**

<b>RESERVATION</b>	<b>COUNTY</b>	<b>COMMUNITY CODE*</b>	<b>COMMUNITY NAME</b>
<b>NAVAJO (CONTINUED)</b>		<b>01058</b>	<b>COVE</b>
		<b>01059</b>	<b>CORNFIELDS</b>
		<b>01060</b>	<b>CANYON DEL MUERTO</b>
		<b>01061</b>	<b>NAVAJO STATION</b>
		<b>01063</b>	<b>WOODSPRINGS</b>
		<b>01064</b>	<b>SWEETWATER</b>
		<b>01065</b>	<b>ALLETOWN</b>
		<b>01067</b>	<b>OAK SPRINGS</b>
		<b>01068</b>	<b>RED MESA</b>
		<b>01069</b>	<b>WHIPPORWILL</b>
		<b>01070</b>	<b>GREASEWOOD</b>
		<b>01071</b>	<b>SUNRISE</b>
		<b>01072</b>	<b>CROSS CANYON</b>
		<b>01073</b>	<b>PINE SPRINGS</b>
		<b>01075</b>	<b>BABY ROCKS</b>
		<b>01079</b>	<b>BURNWATER</b>
		<b>01108</b>	<b>DEL MUERTO</b>
	<b>COCONINO</b>		<b>03018</b>
		<b>03062</b>	<b>COW SPRINGS</b>
		<b>03063</b>	<b>DINNEBITO</b>
		<b>03064</b>	<b>ELEPHANT'S FEET</b>
		<b>03065</b>	<b>HOWELL MESA</b>
		<b>03067</b>	<b>RED LAKE</b>
		<b>03068</b>	<b>TONALEA</b>
		<b>03069</b>	<b>TUBA CITY</b>
		<b>03070</b>	<b>BITTER SPRINGS</b>
		<b>03072</b>	<b>KAIBETO</b>
		<b>03073</b>	<b>LEUPP</b>
		<b>03074</b>	<b>CEDAR RIDGE</b>
	<b>03075</b>	<b>INSCRIPTION</b>	
	<b>03076</b>	<b>THE GAP</b>	

## COMMUNITIES ON INDIAN RESERVATIONS IN ARIZONA

RESERVATION	COUNTY	COMMUNITY CODE*	COMMUNITY NAME
NAVAJO (CONTINUED)		03077	CAMERON
		03078	NAVAJO MOUNTAIN
		03079	INSCRIPTION HOUSE
		03080	LECHEE
		03081	FOREST LAKES
		03082	TOLANI LAKE
		03084	WHITE MESA
		03085	COALMINE
		03086	SAND SPRINGS
		03087	RARE METALS
		03088	COPPERMINE
	NAVAJO	09029	BIG MOUNTAIN
		09030	BLUE GAP
		09036	HARD ROCKS
		09038/09039	JEDITO
		09041	LOW MOUNTAIN
		09046	PINON
		09059	TACHEE
		09061	WHIPPORWILL
		09080	TEESTO (TEESTOH)
		09081	KAYENTA
		09082	WHITECONE
		09083	SHONTO
		09084	GREASEWOOD
		09085/09090	DILCON
		09086	CHILCHINBETO
		09087	BURNTCORN
		09088	BLACK MESA
		09089	BIRD SPRINGS
		09091	INDIAN WELLS
		09093	KITSEEL
		09095	SEBA DAIKAL

**COMMUNITIES ON INDIAN RESERVATIONS IN ARIZONA**

<b>RESERVATION</b>	<b>COUNTY</b>	<b>COMMUNITY CODE*</b>	<b>COMMUNITY NAME</b>
<b>NAVAJO (CONTINUED)</b>		<b>09102</b>	<b>LOWER GREASEWOOD</b>
<b>SALT RIVER</b>	<b>MARICOPA</b>	<b>07109</b>	<b>SALT RIVER INDIAN RESERVATION</b>
<b>SAN CARLOS</b>	<b>GILA</b>	<b>04040</b>	<b>SAN CARLOS INDIAN RESERVATION/NOS</b>
		<b>04041</b>	<b>COOLIDGE DAM</b>
		<b>04042</b>	<b>CUTTER</b>
		<b>04043</b>	<b>PERIDOT</b>
		<b>04044</b>	<b>SAN CARLOS</b>
	<b>GRAHAM</b>	<b>05030</b>	<b>SAN CARLOS INDIAN RESERVATION/NOS</b>
		<b>05031</b>	<b>BYLAS</b>
		<b>05032</b>	<b>CALVA</b>
		<b>05033</b>	<b>SAN CARLOS LAKE</b>
<b>SAN XAVIER</b>	<b>PIMA</b>	<b>10047</b>	<b>SAN XAVIER INDIAN RESERVATION/NOS</b>
<b>TOHONO O'ODHAM</b>	<b>MARICOPA</b>	<b>07099</b>	<b>TOHONO O'ODHAM INDIAN RESERVATION/NOS</b>
		<b>07100</b>	<b>KAKA</b>
		<b>07101/07102</b>	<b>GILA BEND INDIAN COMMUNITY/SAN LUCY VILLAGE</b>
	<b>PIMA</b>	<b>10048</b>	<b>TOHONO O'ODHAM</b>
		<b>10049</b>	<b>SANTA ROSA</b>
		<b>10050</b>	<b>HICKIWAN</b>
		<b>10051</b>	<b>PISINEMO</b>
		<b>10052</b>	<b>IRON STAND VILLAGE</b>
		<b>10053</b>	<b>LITTLE TUCSON</b>
		<b>10054</b>	<b>SELLS</b>
		<b>10055</b>	<b>TOPAWA</b>
		<b>10056/10060</b>	<b>MENEGER'S DAM</b>
		<b>10057</b>	<b>QUEEN'S WELL</b>
	<b>PINAL</b>	<b>11055</b>	<b>TOHONO O'ODHAM INDIAN RESERVATION/NOS</b>
		<b>11056</b>	<b>CHUICHU</b>
		<b>11057</b>	<b>KOHATK</b>
		<b>01105</b>	<b>NORTH KOMELIK</b>

\* THE CITY/TOWN/PLACE CODES USED BY THE OFFICE OF VITAL RECORDS OF THE ARIZONA DEPARTMENT OF HEALTH SERVICES.

\*\* NOT OTHERWISE SPECIFIED.

