

HEALTH STATUS PROFILE OF AMERICAN INDIANS IN ARIZONA: 2002 DATA BOOK

by

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INTRODUCTION

The report *Health Status Profile of American Indians in Arizona: 2002 Data Book* is the eighth 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 2002.

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 2002 *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 2002 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 1992-2002 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 2002. Beginning with the 2001 edition of the report, these tables have changed to accommodate a new listing of 113 specific causes of mortality.

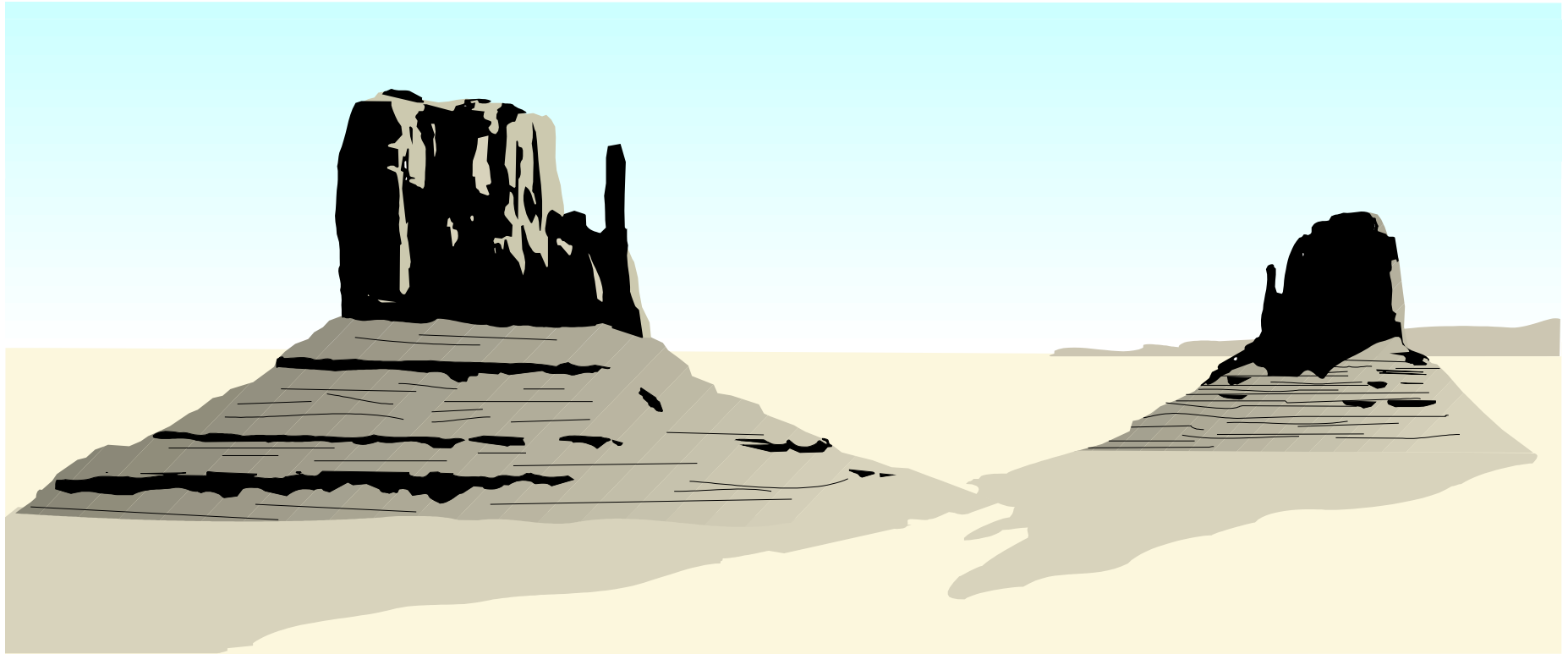
These sections are followed by the **Technical Notes**, which provide information about the sources of data and definitions of terms used in the report, as well as a comparison of cause-of-death categories classified by the Ninth (ICD-9) and the Tenth Revisions (ICD-10) of the International Classification of Diseases. Causes of death for 2000 - 2002 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 **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: 2002 Data Book* is available at

<http://www.hs.state.az.us/plan/report/hspam/index.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 2002**

The risk profile presented on the following page summarizes how American Indians as a group compared in 2002 to the state average on 70 of 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: *

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

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

Following the graphic profile is a detailed description of the 70 indicators. These indicators are organized around nine major subject areas:

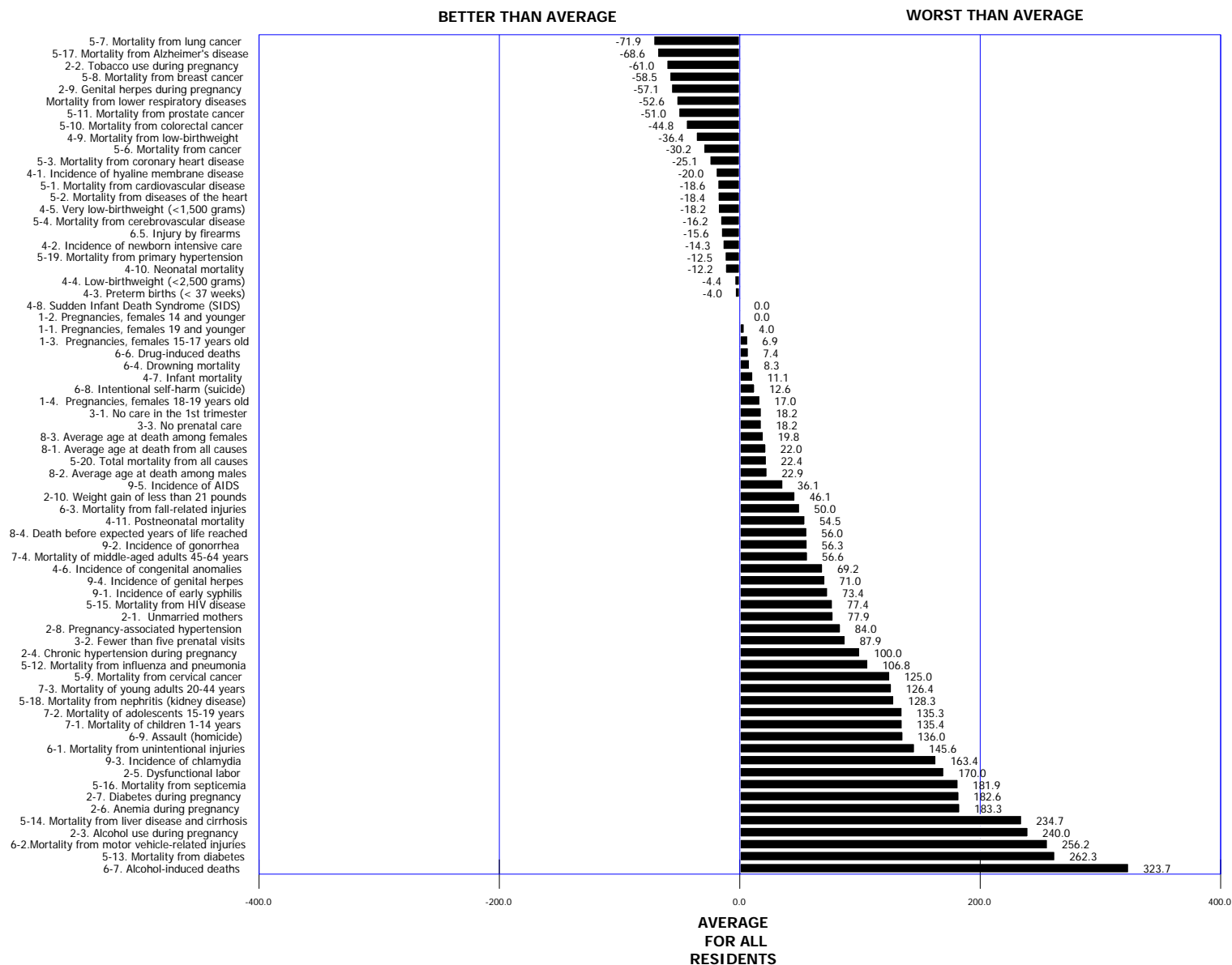
(1) TEEN PREGNANCIES, (2) MATERNAL LIFESTYLE AND HEALTH CHARACTERISTICS, (3) UTILIZATION OF PRENATAL CARE SERVICES, (4) NEWBORN'S HEALTH, (5) MORTALITY FROM NATURAL CAUSES (CHRONIC OR INFECTIOUS DISEASES), (6) MORTALITY FROM INJURIES, (7) AGE-SPECIFIC MORTALITY, (8) PATTERNS OF PREMATURE MORTALITY and (9) THE INCIDENCE OF REPORTABLE DISEASES.

In 2002, American Indian residents of Arizona ranked worse than the statewide average 43 times on 70 indicators. American Indians ranked poorly on measures of maternal lifestyle and health (alcohol use during pregnancy, high incidence of anemia, diabetes and dysfunctional labor). High age-specific mortality of children, adolescents and young adults, alcoholism, diabetes, motor vehicle accidents and mortality from unintentional injuries contributed to the premature death rate. However, American Indians ranked better than average with low mortality rates for several chronic diseases (lung cancer, Alzheimer's disease, breast cancer, colorectal cancer, chronic lower respiratory diseases, coronary heart disease), low tobacco use and low incidence of genital herpes among women giving birth.

* The comparative risk profiles for American Indian, 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 Group, Arizona, 2001***". In order to receive a copy of this publication, call the Bureau of Public Health Statistics at 602-542-7333. This and previously published reports also are available online at <http://www.hs.state.az.us/plan/report/dhsag/index.htm>.

2002 RISK PROFILE OF AMERICAN INDIANS

(percent above or below the average rate or ratio for all Arizona residents in 2002)



AMERICAN INDIANS' STANDING IN ARIZONA IN 2002 ON 70 INDICATORS OF HEALTH STATUS

1. TEEN PREGNANCIES

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

Figure number	Indicator	2002 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2002	Definitions
1-1	Pregnancies among females 19 and younger	36.6	4.0	35.2	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	1.3	0.0	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	45.1	6.9	42.2	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	130.1	17.0	111.2	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	2002 ratio for American Indians	Percent above or below the average ratio for all groups	Average ratio for all groups in 2002	Definitions
2-1	Unmarried mothers	69.7	73.4	40.2	The number of births to unmarried mothers per 100 births
2-2	Tobacco use during pregnancy	2.3	-61.0	5.9	The number of mothers giving birth who self-reported tobacco use during pregnancy per 100 births
2-3	Alcohol use during pregnancy	1.7	240.0	0.5	The number of mothers giving birth who self-reported alcohol use during pregnancy per 100 births
2-4	Chronic hypertension	0.8	100.0	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	2.7	170.0	1.0	Failure to progress in a normal pattern of labor (the number of cases per 100 births).
2-6	Anemia during pregnancy	5.1	183.3	1.8	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	6.5	182.6	2.3	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	4.6	84.0	2.5	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	-57.1	0.7	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	28.2	46.1	19.3	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	2002 ratio for American Indians	Percent above or below the average ratio for all groups	Average ratio for all groups in 2002	Definition
3-1	No care in the 1 st trimester	2.6	18.2	2.2	The number of mothers giving birth who received no prenatal care in the 1 st trimester of pregnancy per 100 births.
3-2	Fewer than five prenatal visits	12.4	87.9	6.6	The number of mothers giving birth who had fewer than five prenatal visits during pregnancy per 100 births.
3-3	No prenatal care	2.6	18.2	2.2	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	2002 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 in 2002	Definition
4-1	Incidence of hyaline membrane disease	0.4	-20.0	0.5	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	4.8	-14.3	5.6	The number of babies admitted to Newborn Intensive Care units per 100 births
4-3	Born too early (preterm or < 37 weeks)	9.6	-4.0	10	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 th week (259 th day), following onset of the last menstrual period.
4-4	Born too small: low-birthweight (<2,500 grams)	6.5	-4.4	6.8	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)	0.9	-18.2	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)	2.2	69.2	1.3	The numbers of babies born with birth defects per 100 births.
4-7	Infant mortality	7.0	11.1	6.3	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	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	0.7	-36.4	1.1	The number of infant deaths from low- birthweight/short gestation (ICD-10 code P07) per 1,000 live births
4-10	Neonatal mortality	3.6	-12.2	4.1	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	3.4	54.5	2.2	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	2002 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2002	Definition
5-1	Cardiovascular disease	216.2	-18.6	265.5	The number of deaths from cardiovascular diseases (ICD-10 codes I00-I78) per 100,000 age-adjusted population.
5-2	Diseases of the heart	164.0	-18.4	201.0	The number of deaths from disease of the heart (ICD-10 codes I00-I09, I11, I13, I20-I51) per 100,000 age-adjusted population.
5-3	Coronary heart disease	119.5	-25.1	159.5	The number of deaths from coronary heart disease (ICD-10 codes I200-I259) per 100,000 age-adjusted population.
5-4	Cerebrovascular disease	39.4	-16.2	47.0	The number of deaths from cerebrovascular disease (ICD-10 codes I60-I69) per 100,000 age-adjusted population.
5-5	Chronic lower respiratory diseases	22.3	-52.6	47.0	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)	117.6	-30.2	168.6	The number of deaths from cancer (ICD-10 codes C00-C97) per 100,000 age-adjusted population.
5-7	Lung cancer	13.1	-71.9	46.6	The number of deaths from lung cancer (ICD-10 codes C33-C34) per 100,000 age-adjusted population.
5-8	Breast cancer	5.1	-58.5	12.3	The number of deaths from breast cancer (ICD-10 code C50) per 100,000 age-adjusted female population.
5-9	Cervical cancer	2.7	125.0	1.2	The number of deaths from cervical cancer (ICD-10 code C53) per 100,000 age-adjusted female population.
5-10	Colorectal cancer	9.1	-44.8	16.5	The number of deaths from colorectal cancer (ICD-10 codes C18-C21) per 100,000 age-adjusted population.
5-11	Prostate cancer	4.9	-51.0	10.0	The number of deaths from prostate cancer (ICD-10 code C61) per 100,000 age-adjusted male population.
5-12	Influenza and pneumonia	51.7	106.8	25.0	The number of deaths from influenza and pneumonia (ICD-10 codes J10-J18) per 100,000 age-adjusted population.
5-13	Diabetes	80.8	262.3	22.3	The number of deaths from diabetes (ICD-10 codes E10-E14) per 100,000 age-adjusted population.
5-14	Chronic liver disease and cirrhosis	40.5	234.7	12.1	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	23.4	181.9	8.3	The number of deaths from septicemia (ICD-10 codes A40-A41) per 100,000 age-adjusted population.
5-17	Alzheimer's disease	8.8	-68.6	28.0	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)	25.8	128.3	11.3	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	4.9	-12.5	5.6	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	975.1	22.4	796.4	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	2002 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2002	Definition
6-1	Unintentional injuries	111.0	145.6	45.2	The number of deaths from unintentional injuries in accidents (ICD-10 codes V01–X59, Y85–Y86) per 100,000 age-adjusted population.
6-2	Motor vehicle-related injuries	65.9	256.2	18.5	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	12.9	50.0	8.6	The number of deaths from fall-related injuries (ICD-10 codes W00–W19) per 100,000 age-adjusted population.
6-4	Drowning mortality	1.3	8.3	1.2	The number of deaths due to accidental drowning and submersion (ICD-10 codes W65–W74) per 100,000 age-adjusted population.
6-5	Injury by firearms	14.6	-15.6	17.3	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	13.1	7.4	12.2	The number of drug-induced deaths (ICD-10 codes F11.0–F11.5, F11.7–F11.9, F12.0–F12.5, F12.7–F12.9, F13.0–F13.5, F13.7–F13.9, F14.0–F14.5, F14.7–F14.9, F15.0–F15.5, F15.7–F15.9, F16.0–F16.5, F16.7–F16.9, F17.0, F17.3–F17.5, F17.7–F17.9, F18.0–F18.5, F18.7–F18.9, F19.0–F19.5, F19.7–F19.9, X40–X44, X60–X64, X85, Y10–Y14) per 100,000 age-adjusted population. Causes of death attributable to drug-induced mortality include selected codes from the ICD-10 title Mental and behavioral disorders due to psychoactive substance use, accidental poisoning by and exposure to drugs, medicaments and biological substances; intentional self-poisoning (suicide) by and exposure to drugs; assault (homicide) by drugs, medicaments and biological substances; and poisoning by and exposure to drugs, medicaments and biological substances, undetermined intent. Drug-induced causes exclude accidents, homicides, and other causes indirectly related to drug use. Also excluded are newborn deaths associated with mother's drug use.
6-7	Alcohol-induced deaths	39.4	323.7	9.3	The number of alcohol-induced deaths (ICD-10 codes F10, G31.2, G62.1, I42.6, K29.2, K70, R78.0, X45, X65, Y15) per 100,000 age-adjusted population. Causes of death attributable to alcohol-induced mortality include mental and behavioral disorders due to alcohol use, degeneration of nervous system due to alcohol, alcoholic polyneuropathy, alcoholic cardiomyopathy, alcoholic gastritis, alcoholic liver disease, finding of alcohol in blood, accidental poisoning by and exposure to alcohol, intentional self-poisoning by and exposure to alcohol; and poisoning by and exposure to alcohol, undetermined intent. Alcohol-induced causes exclude accidents, homicides, and other causes indirectly related to alcohol use.
6-8	Intentional self-harm (suicide)	17.9	12.6	15.9	The number of deaths due to intentional self-harm (ICD-10 codes X60–X84, Y87.0) per 100,000 age-adjusted population.
6-9	Assault (homicide)	20.3	136.0	8.6	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	2002 rate for American Indians	Percent above or below the average rate for all groups	Average value for all groups in 2002	Definition
7-1	Mortality of children 1-14 years old	55.8	135.4	23.7	The number of deaths per 100,000 children 1-14 years old in 2002
7-2	Mortality of adolescents 15-19 years old	195.8	135.3	83.2	The number of deaths per 100,000 adolescents 15-19 years old in 2002
7-3	Mortality of young adults 20-44 years old	350.3	126.4	154.7	The number of deaths per 100,000 young adults 20-44 years old in 2002
7-4	Mortality of middle-aged adults 45-64 years old	1025.6	56.6	654.8	The number of deaths per 100,000 middle-aged adults 45-64 years old in 2002

8. PREMATURE MORTALITY

Figure number	Indicators	2002 value for American Indians	Percent above or below the average value for all groups	Average value for all groups in 2002	Definitions
8-1	Average age at death from all causes	55.8	22.0	71.5	The average age of Arizonans who died in 2002
8-2	Average age at death from all causes among males	52.5	22.9	68.1	The average age of Arizona males who died in 2002
8-3	Average age at death from all causes among females	60.4	19.8	75.3	The average age of Arizona females who died in 2002
8-4	Percent of total deaths before expected years of life reached	78.3	56.0	50.2	The number of deaths before reaching 76.9 years (the life expectancy of all U.S. residents in 2002) per 100 deaths

9. REPORTABLE DISEASES

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

Figure number	Indicators	2002 rate for American Indians	Percent above or below the average rate for all groups	Average rate for all groups in 2002	Definitions
9-1	Incidence of early syphilis	16.1	120.5	7.3	Number of reported cases of early syphilis per 100,000 population
9-2	Incidence of gonorrhea	107.7	56.3	68.9	Number of reported cases of gonorrhea per 100,000 population
9-3	Incidence of chlamydia	716.9	163.4	272.2	Number of reported cases of chlamydia per 100,000 population
9-4	Incidence of genital herpes	35.9	71.0	21.0	Number of reported cases of genital herpes per 100,000 population
9-5	Incidence of AIDS	11.0	36.1	8.1	Number of reported cases of AIDS per 100,000 population

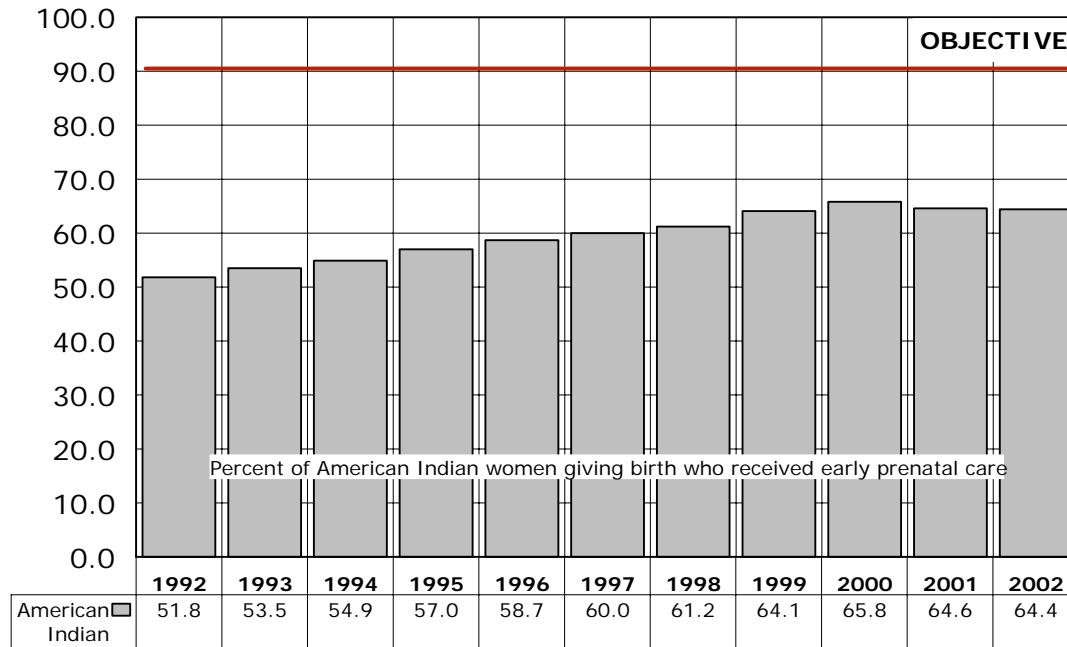


II.

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

2.1. Early Prenatal Care

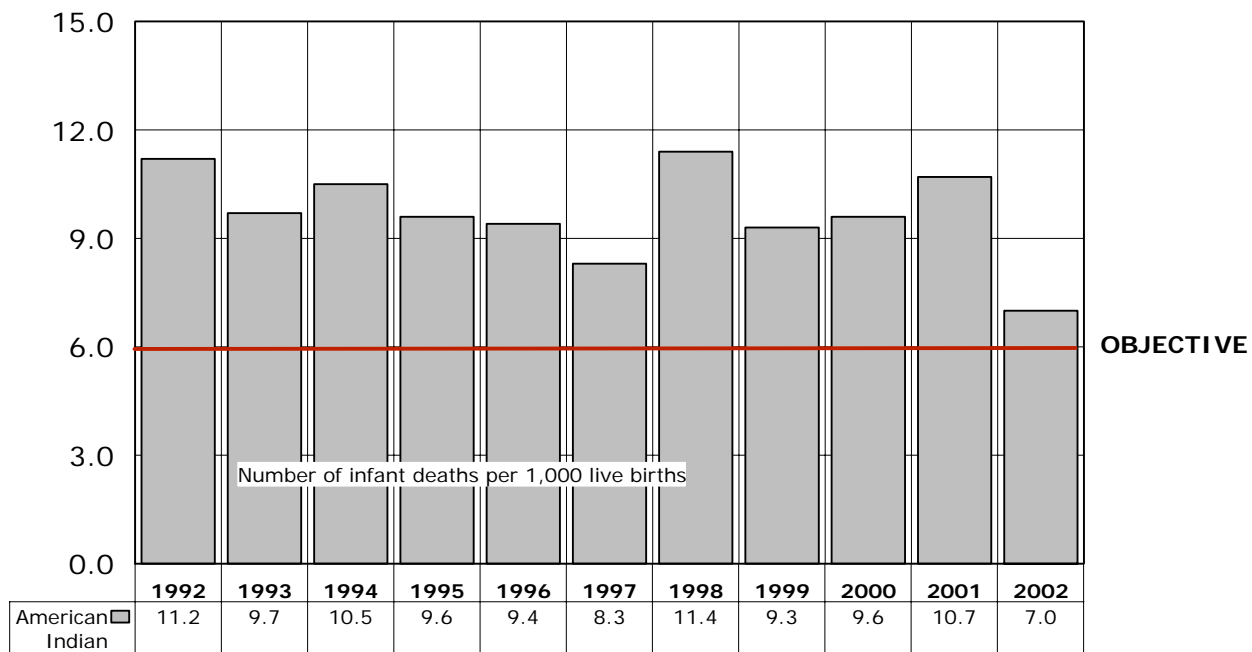
National Year 2010 Objective (HP16-10a*): Increase to 90 percent the proportion of women giving birth who receive prenatal care in the first trimester of pregnancy



Source: Table 1B-2 and Table 1B-14 in *Arizona Health Status and Vital Statistics 2002*.
HP16-10a: *Healthy People 2010 Objectives*, objective 16-10a.

2.2. Infant Mortality

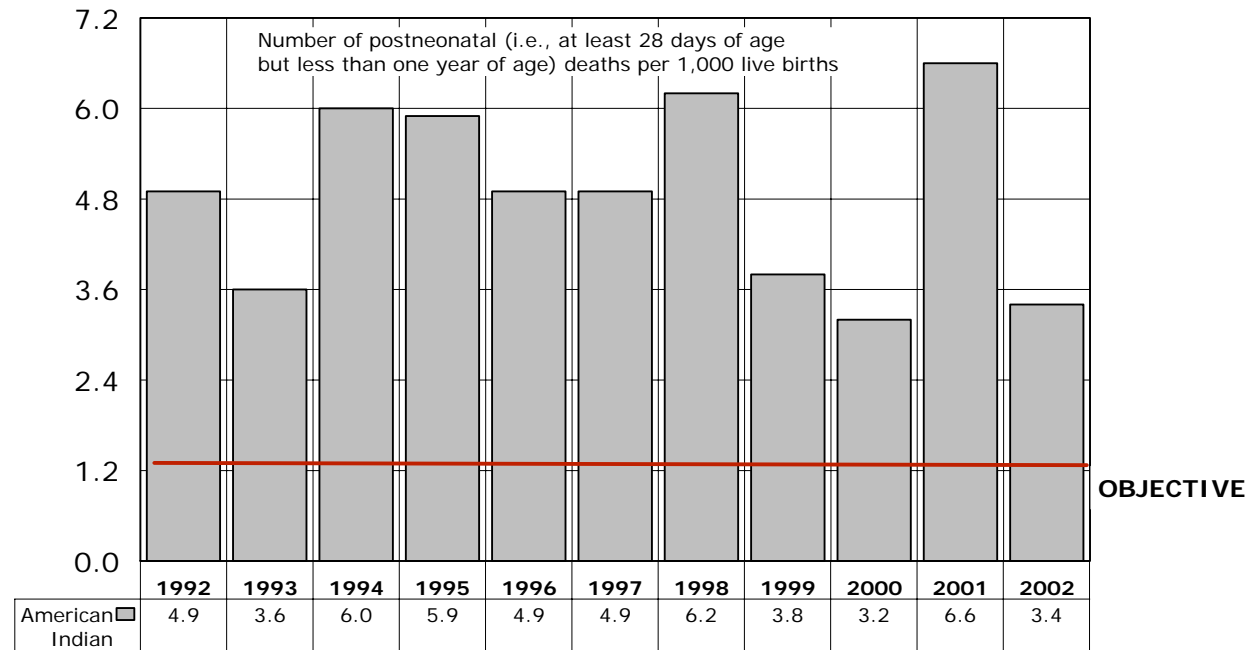
National Year 2010 Objective (HP16-1c): Reduce the rate of infant deaths to no more than 6 per 1,000 live births



Source: Table 2C-2 in *Arizona Health Status and Vital Statistics 2002*. 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

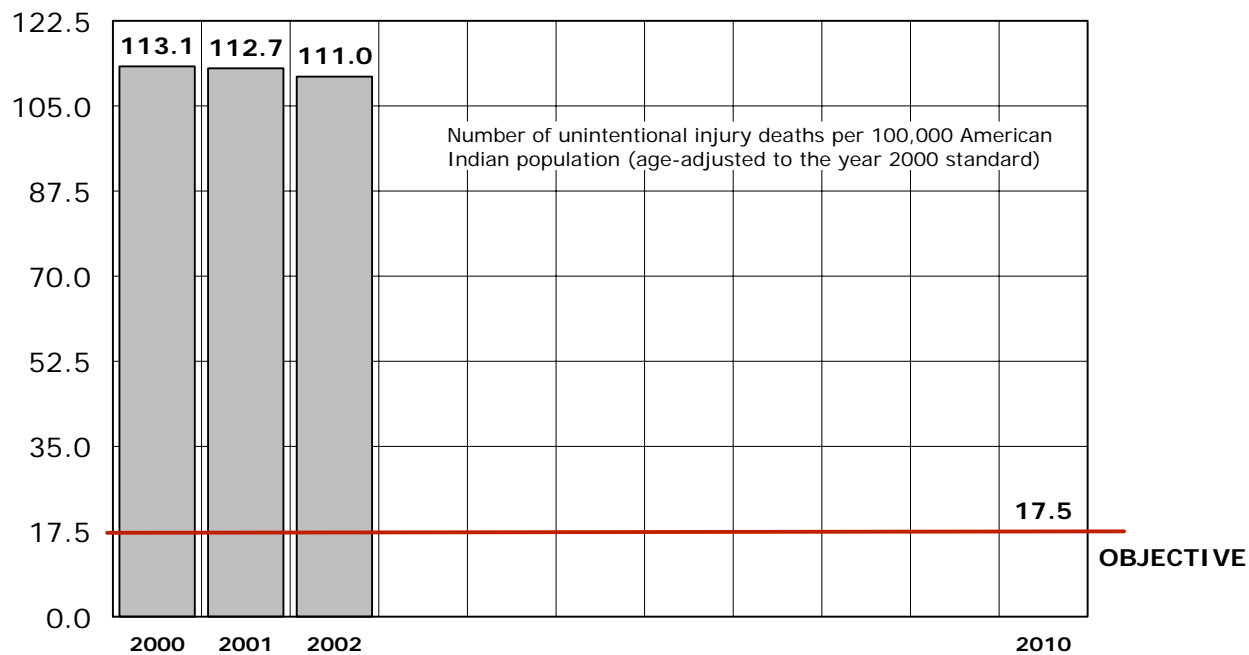
National Year 2010 Objective (HP16-1e): Reduce postneonatal mortality to no more than 1.2 per 1,000 live births.



Source: Table 2C-4 in *Arizona Health Status and Vital Statistics 2002*. 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

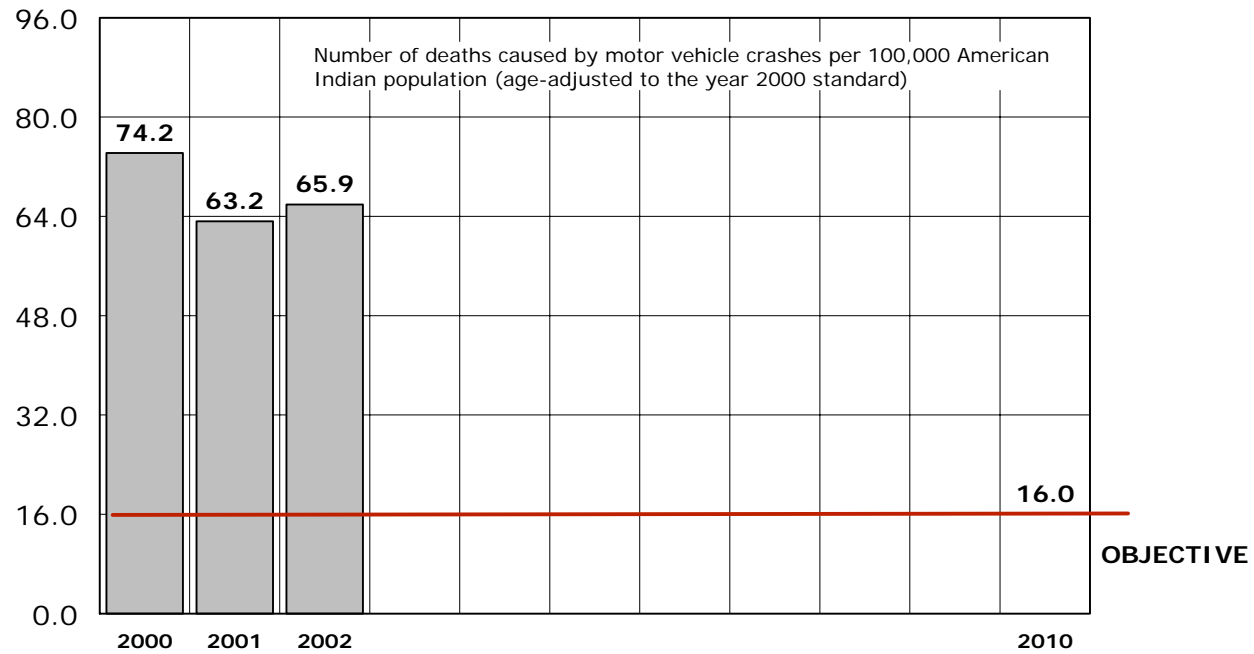
National Year 2010 Objective (HP15-13): Reduce deaths caused by unintentional injuries to no more than 17.5 per 100,000 age-adjusted population



Source: Table 2B-3 in *Arizona Health Status and Vital Statistics 2002*.

2.5. Motor Vehicle Crash Deaths

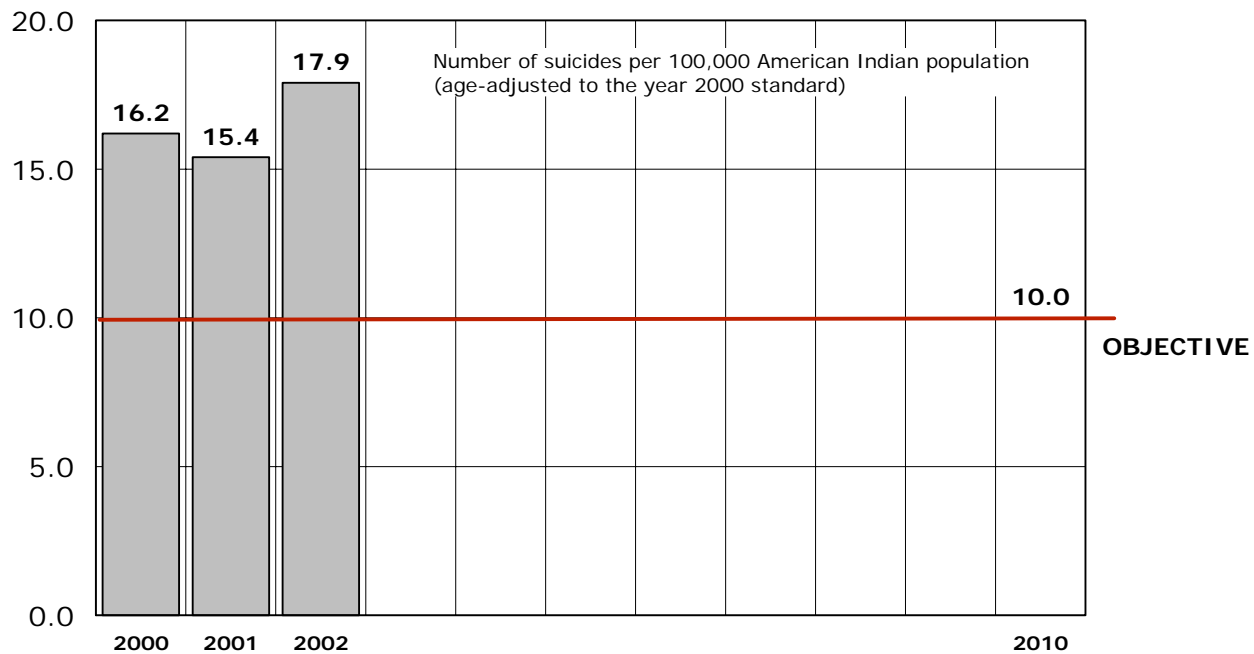
National Year 2010 Objective (HP15-15): Reduce deaths caused by motor vehicle crashes to no more than 16 per 100,000 age-adjusted population



Source: Table 2B-3 in *Arizona Health Status and Vital Statistics 2002*.

2.6. Intentional Self-Harm (Suicide)

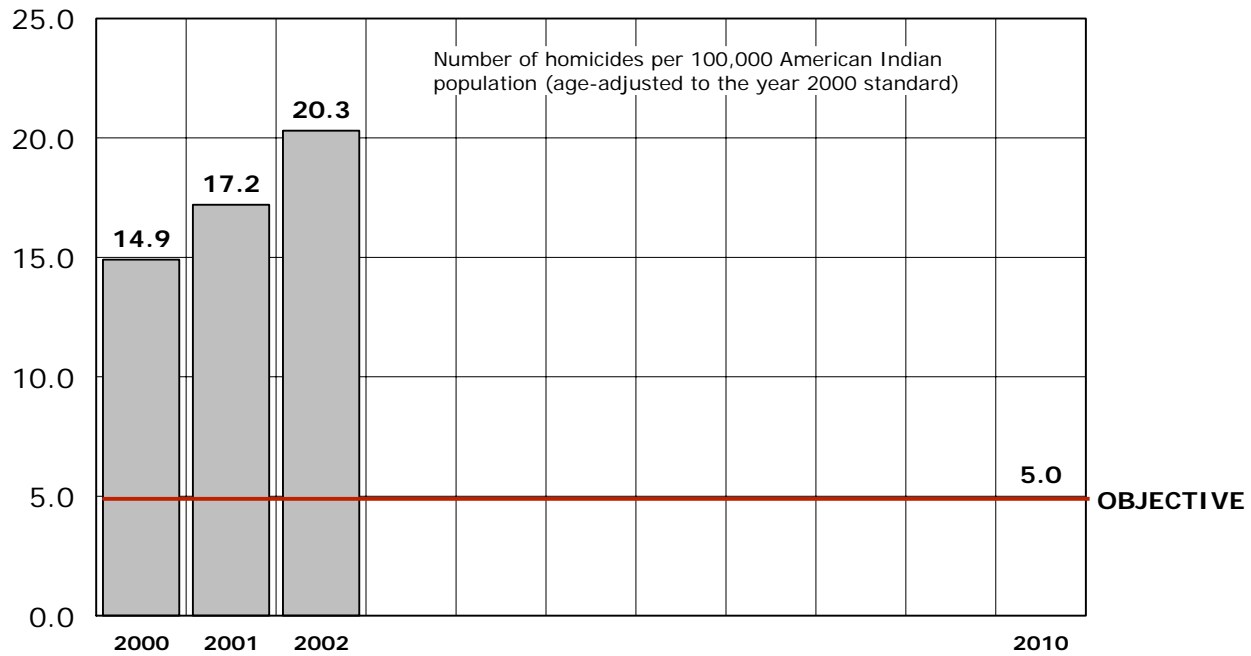
National Year 2010 Objective (HP18-1): Reduce the suicide rate to no more than 10 per 100,000 age-adjusted population



Source: Table 2B-3 in *Arizona Health Status and Vital Statistics 2002*.

2.7. Assault (Homicide)

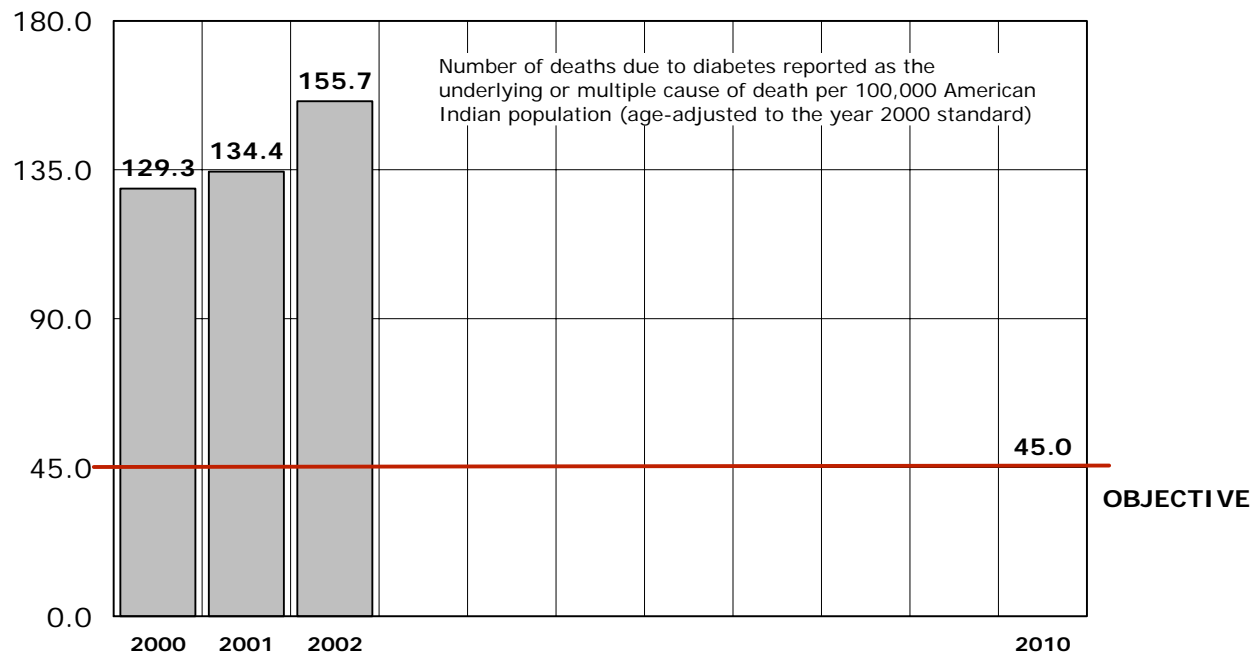
National Year 2010 Objective (HP15-32): Reduce the homicide rate to no more than 5 per 100,000 age-adjusted population



Source: Table 2B-3 in *Arizona Health Status and Vital Statistics 2002*.

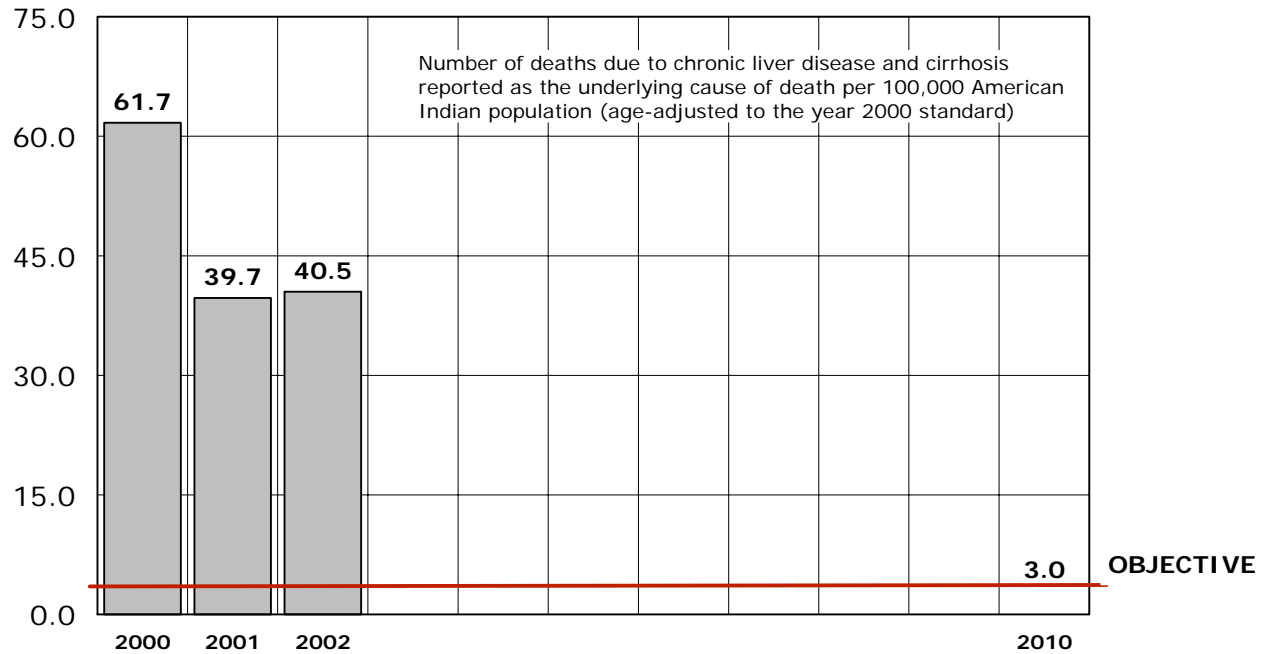
2.8. Diabetes-related Deaths

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

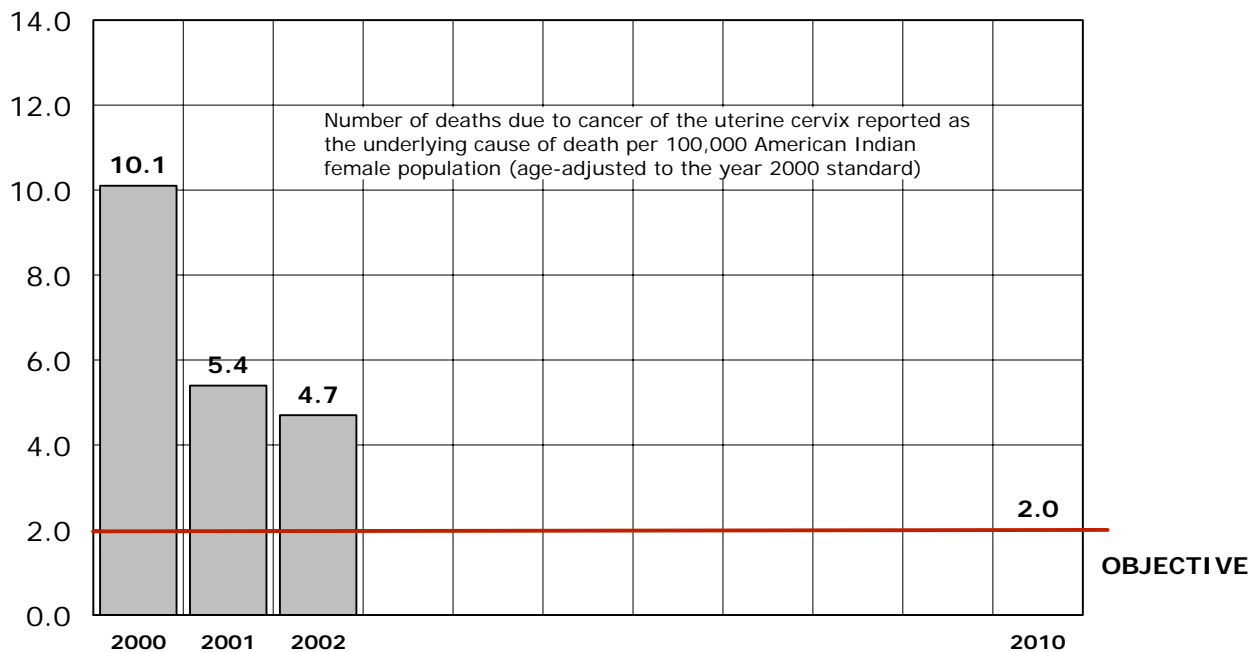


*Chronic liver disease and cirrhosis (ICD-10 codes K70, K73-K74).

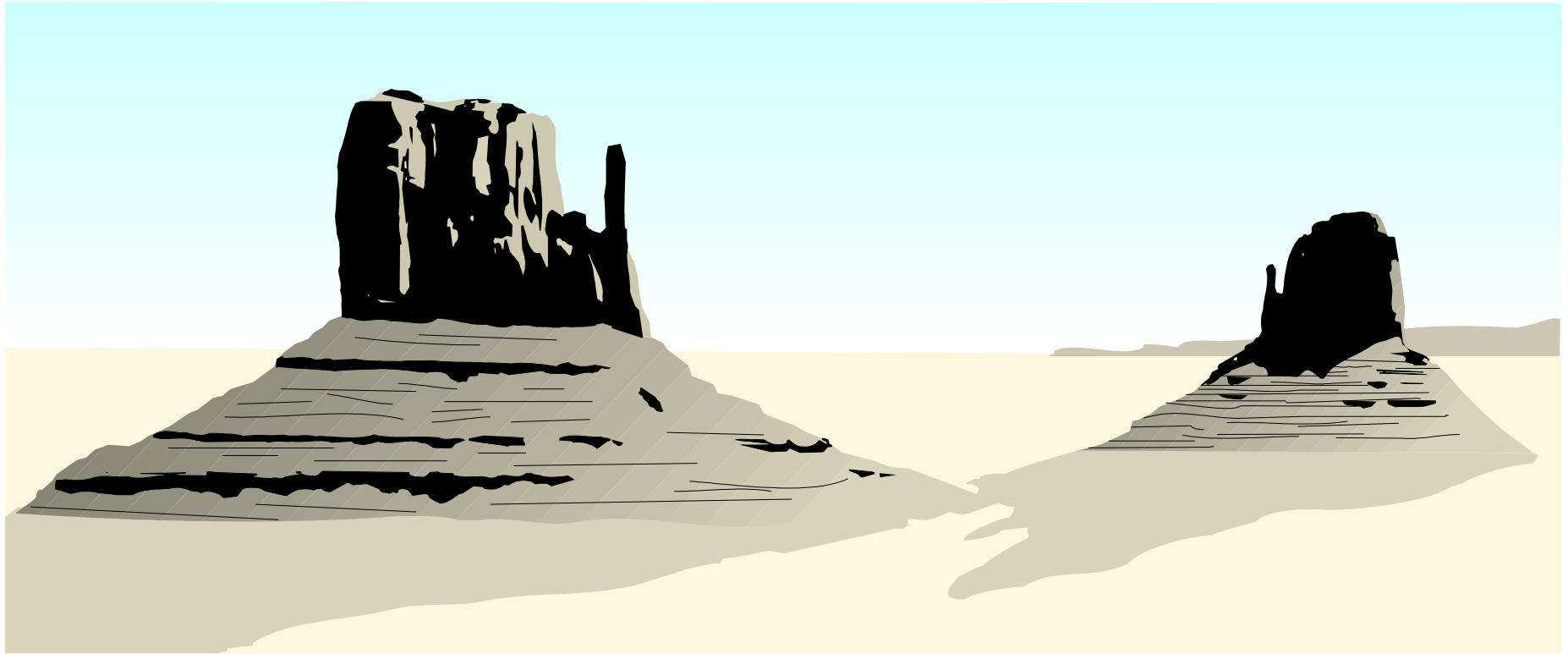
Source: Table 2B-3 in *Arizona Health Status and Vital Statistics 2002*.

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



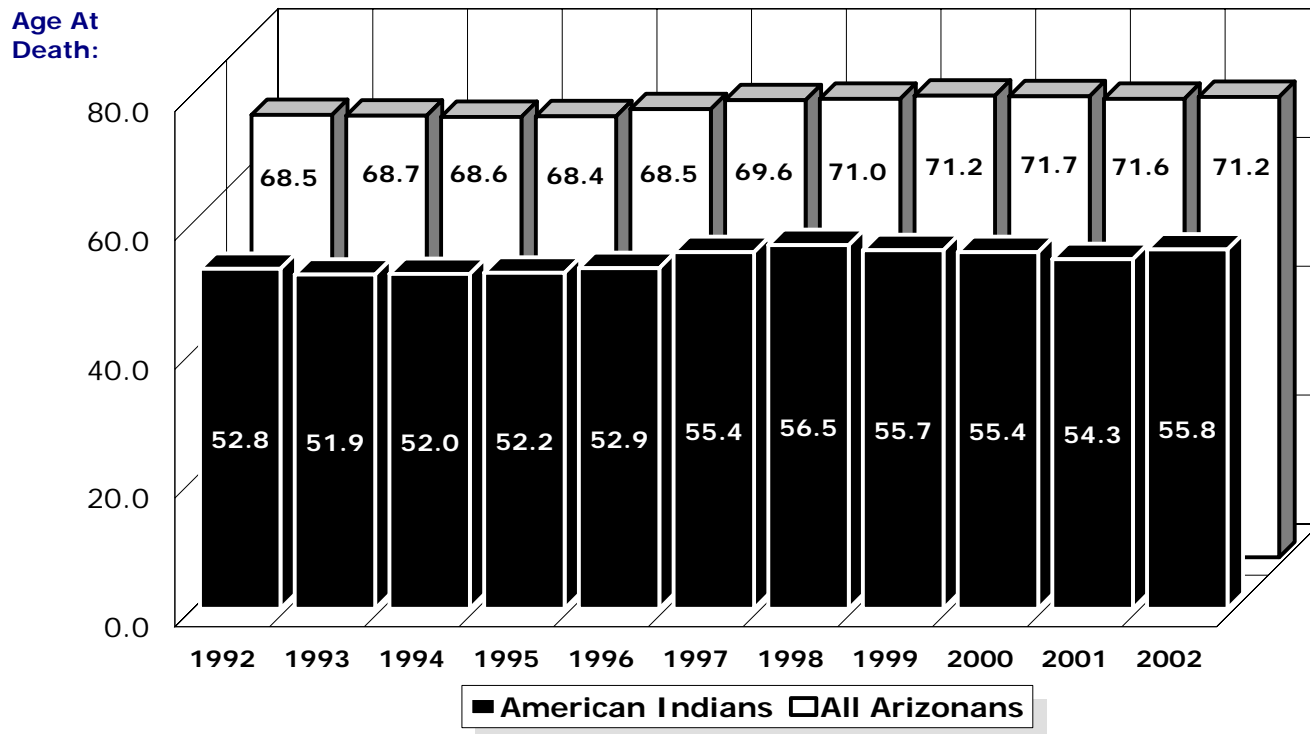
*Note: These rates based on fewer than 10 deaths/year are not statistically reliable.
Source: Table 2B-3 in *Arizona Health Status and Vital Statistics 2002*.



III.

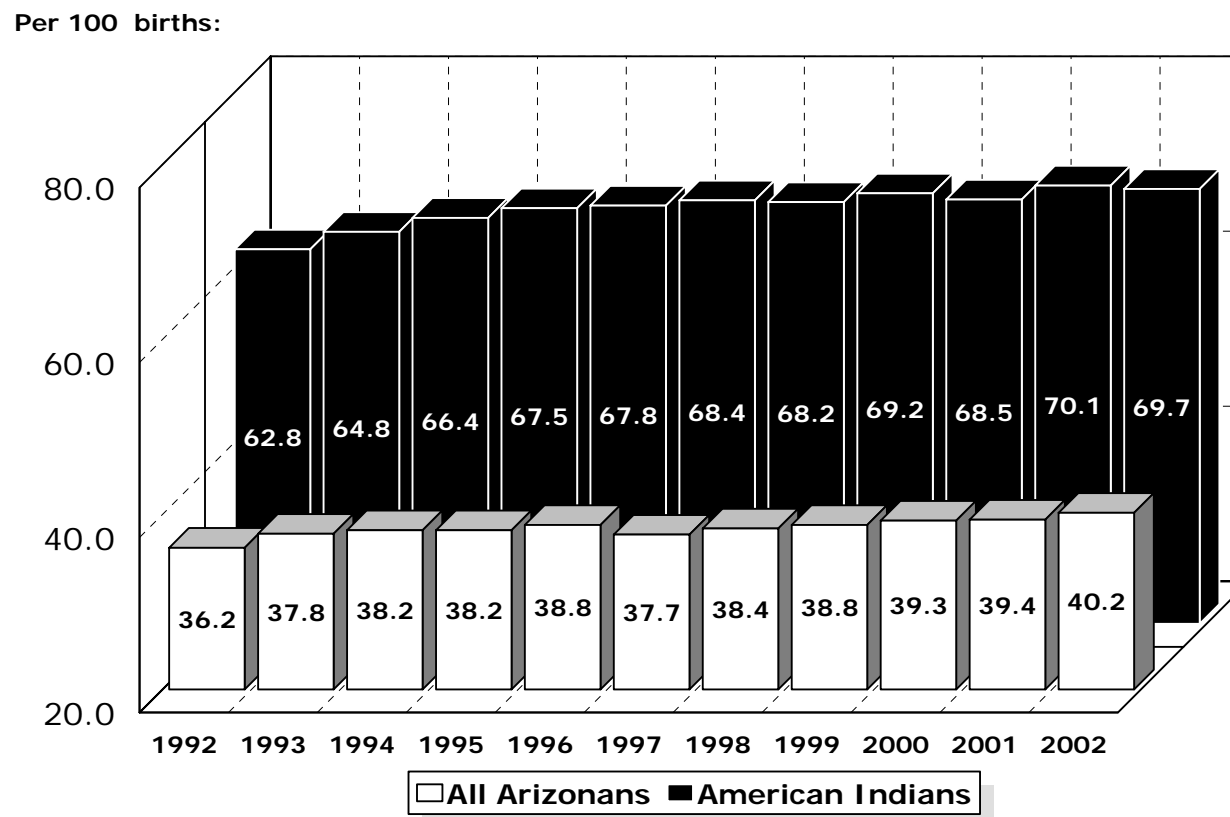
TRENDS IN SELECTED HEALTH PROBLEMS AND HEALTH RISKS AMONG AMERICAN INDIANS IN ARIZONA, 1992-2002

**3.1.
Average Age At Death From All Causes,
1992-2002**



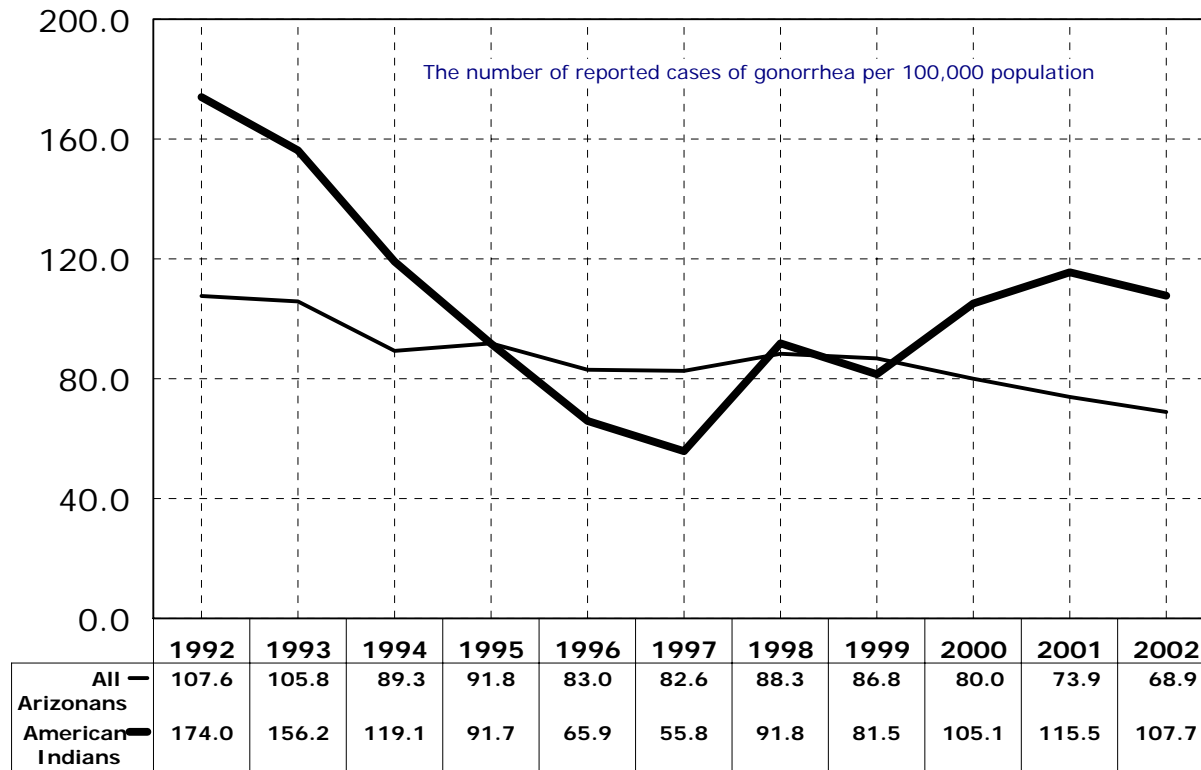
Source: Table 2D-1 in *Arizona Health Status and Vital Statistics 2002*.

3.2.
Births to Unmarried Mothers, 1992-2002



Source: Table 1B-2 and Table 1B-14 in *Arizona Health Status and Vital Statistics 2002*.

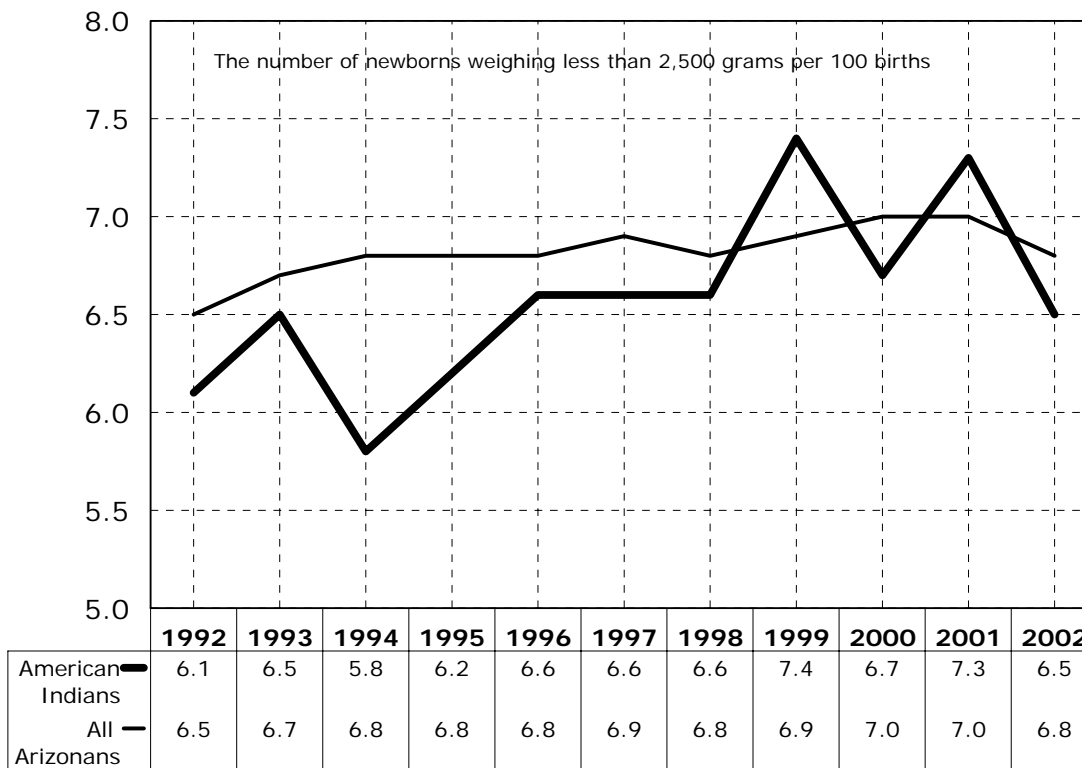
3.3.
The Incidence of Gonorrhea, 1992-2002



Source: Figure 3B-1, Table 3B-4 and Table 3B-5 in *Arizona Health Status and Vital Statistics 2002*.
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, 1992-2002

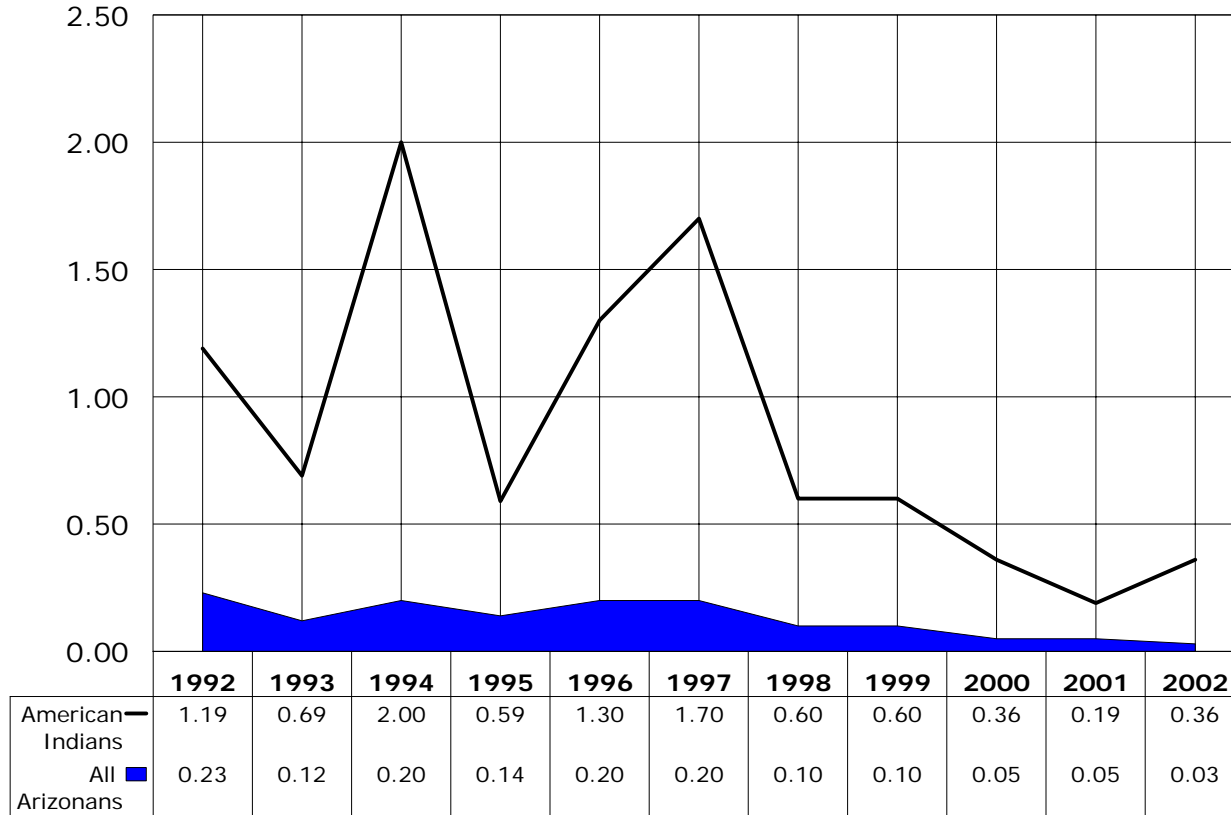
Per 100 births:



Source: Table 1B-2 and Table 1B-14 in *Arizona Health Status and Vital Statistics 2002*.

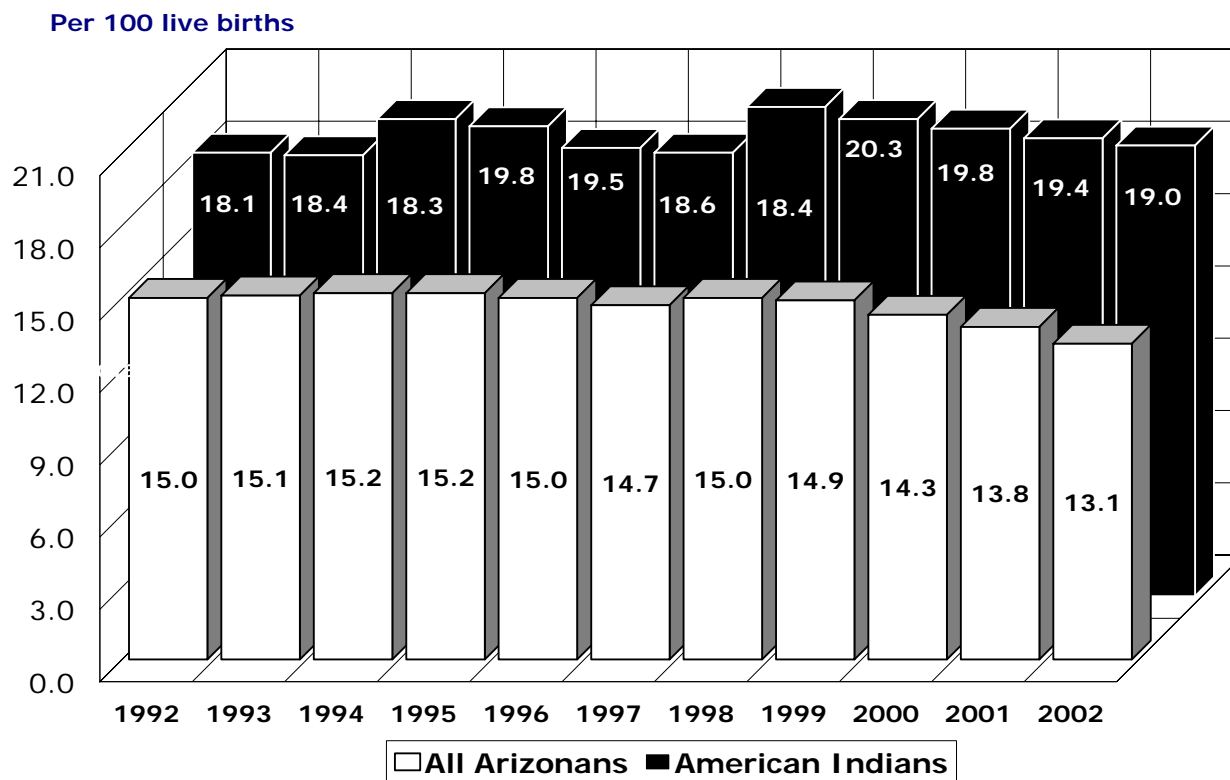
3.5.
The Incidence of Fetal Alcohol Syndrome, 1992-2002

Per 1,000 live births



Source: Table 1B-26 in *Arizona Health Status and Vital Statistics 2002*.

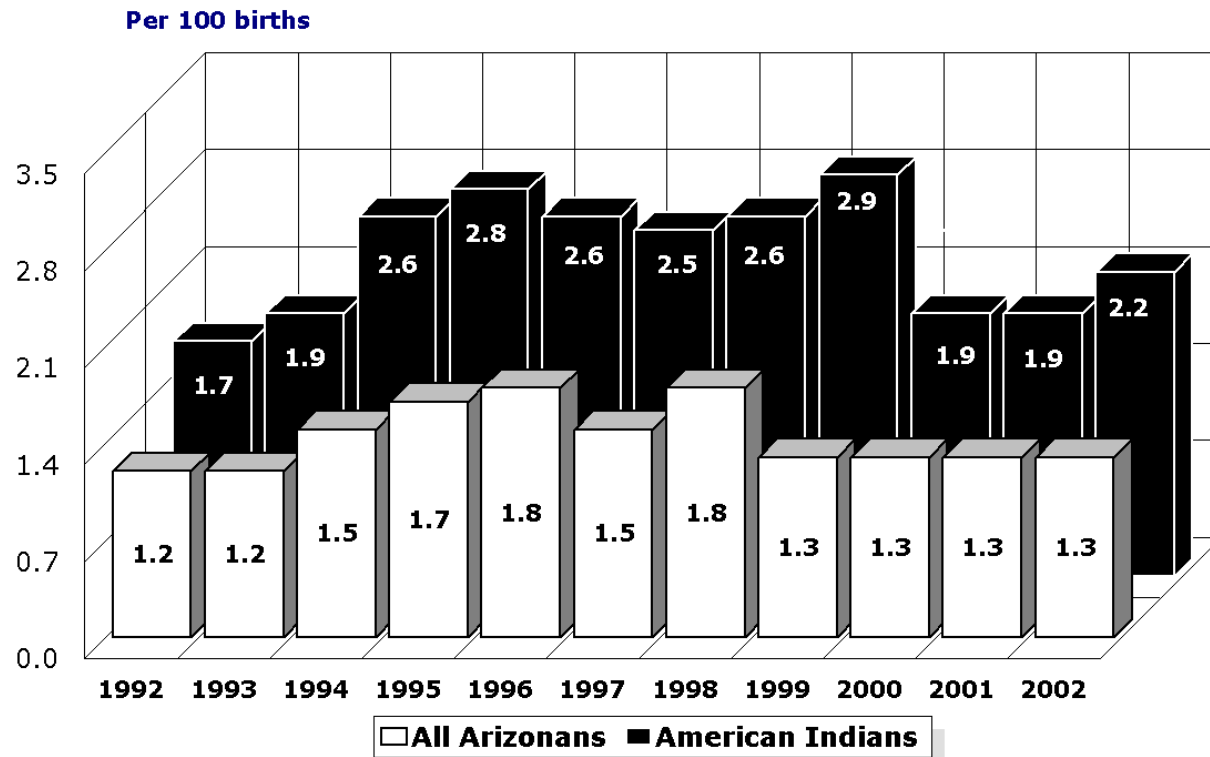
3.6. Births to Teenage Mothers,* 1992-2002



* 19 or younger.

Source: Table 1B-2 and Table 1B-14 in *Arizona Health Status and Vital Statistics 2002*.

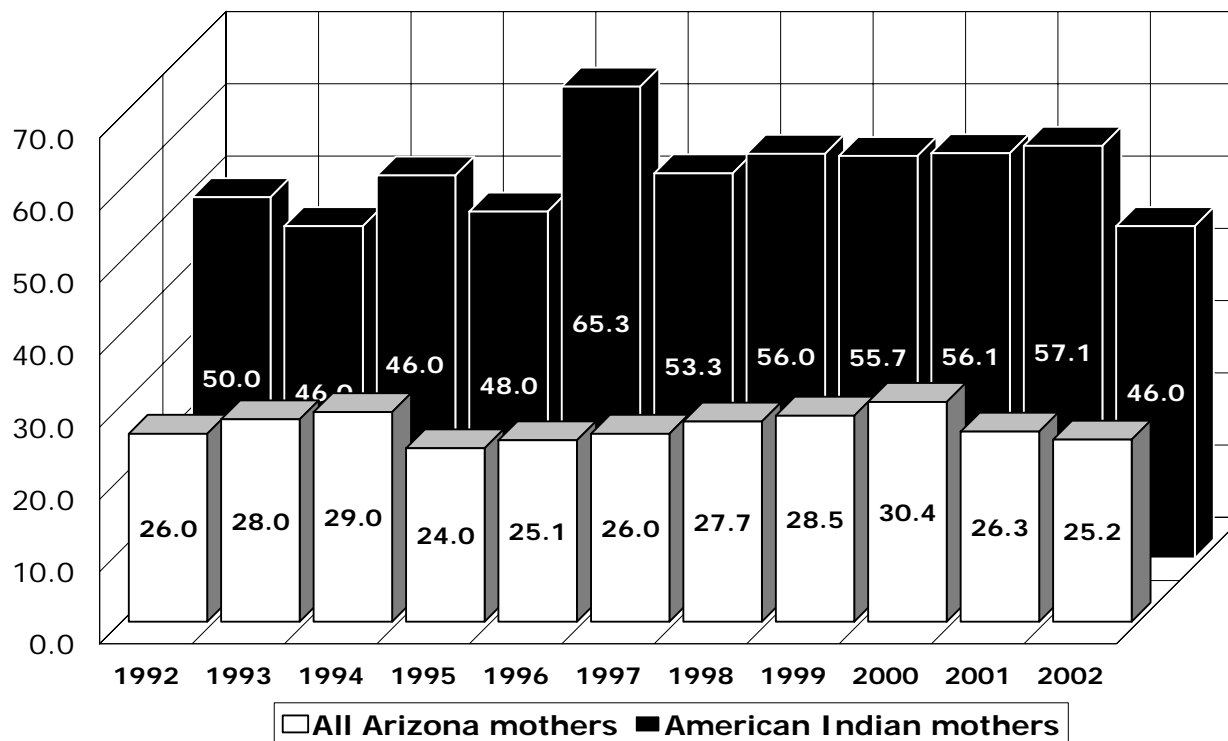
**3.7.
The Incidence of Birth Defects (Congenital Anomalies),
1992-2002**



Source: Table 1B-35 in *Arizona Health Status and Vital Statistics 2002*.

3.8.
The Incidence of Pregnancy Associated Hypertension,
1992-2002

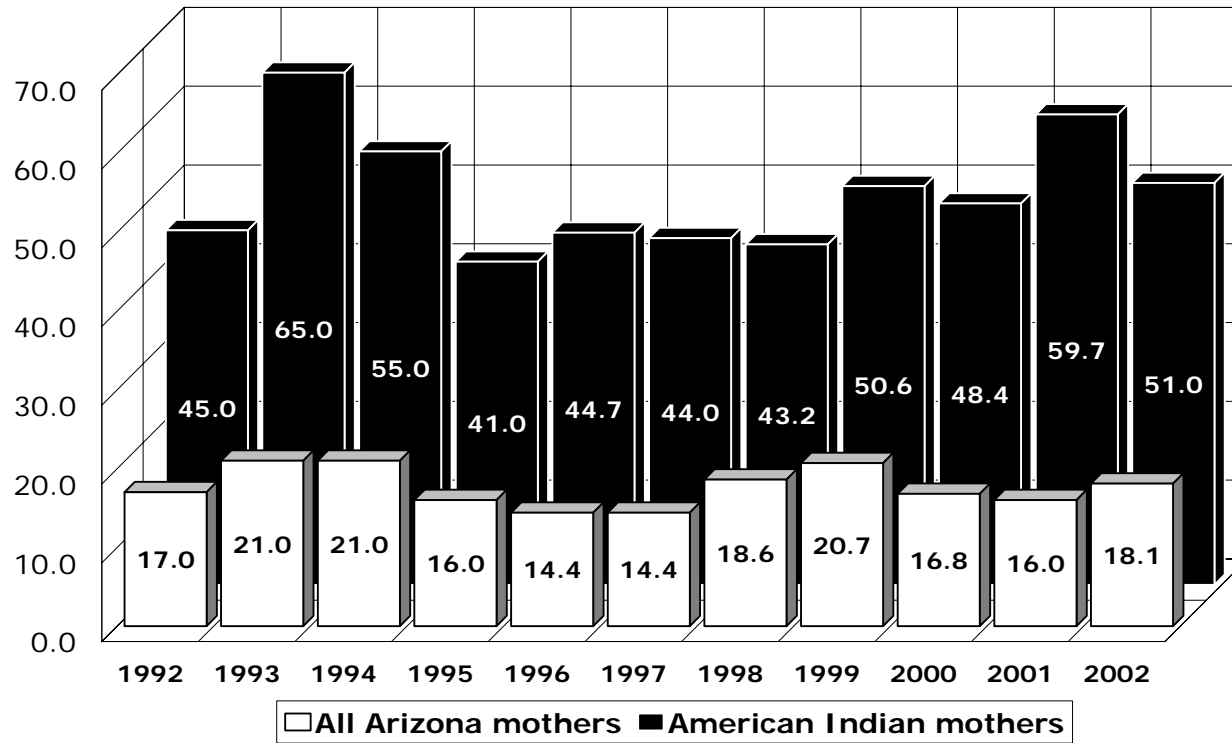
Per 1,000 births



Source: Table 1B-26 in *Arizona Health Status and Vital Statistics 2002*.

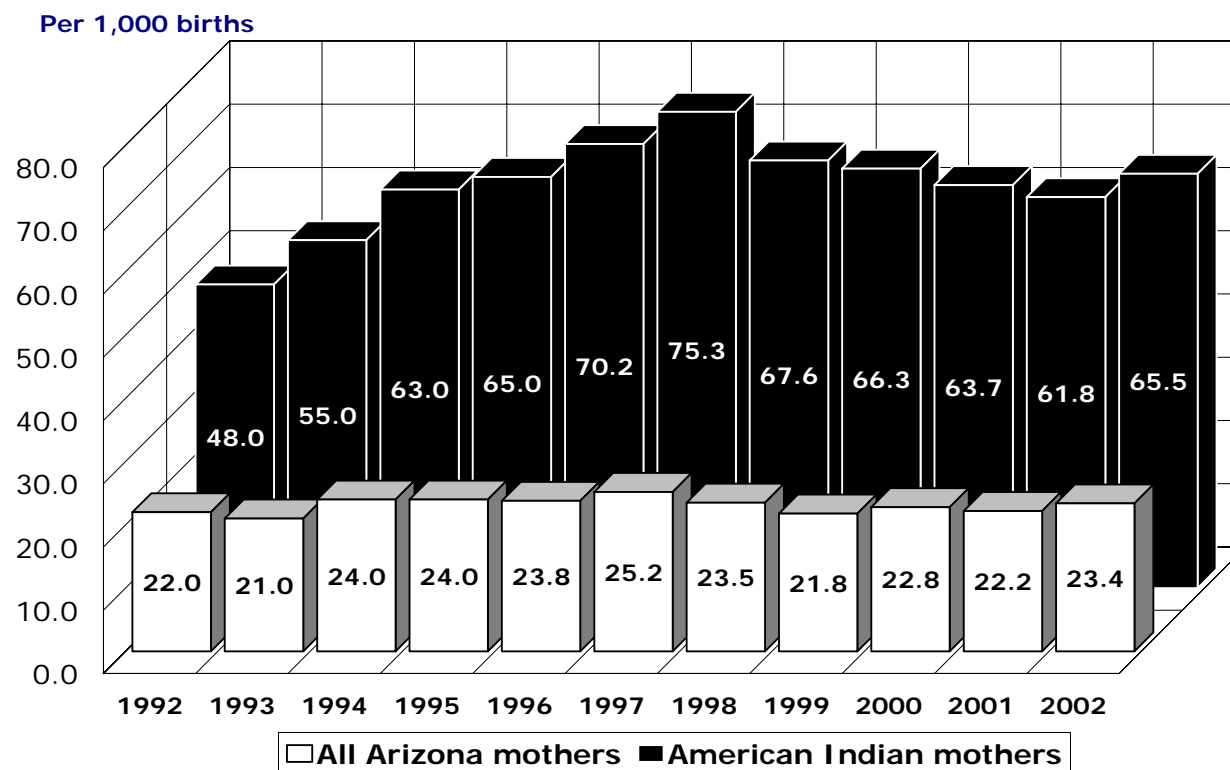
3.9.
The Incidence of Anemia During Pregnancy,
1992-2002

Per 1,000 births

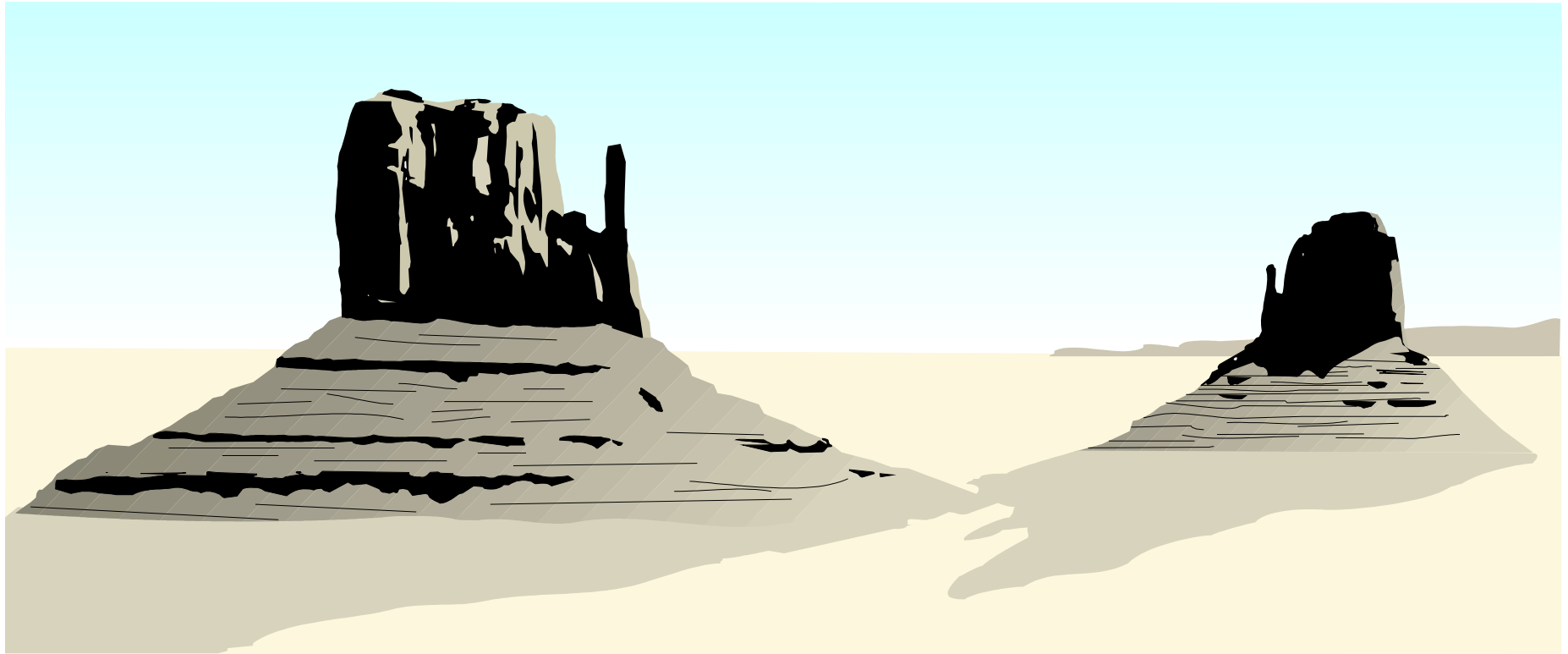


Source: Table 1B-26 in *Arizona Health Status and Vital Statistics 2002*.

3.10.
The Incidence of Diabetes During Pregnancy,
1992-2002

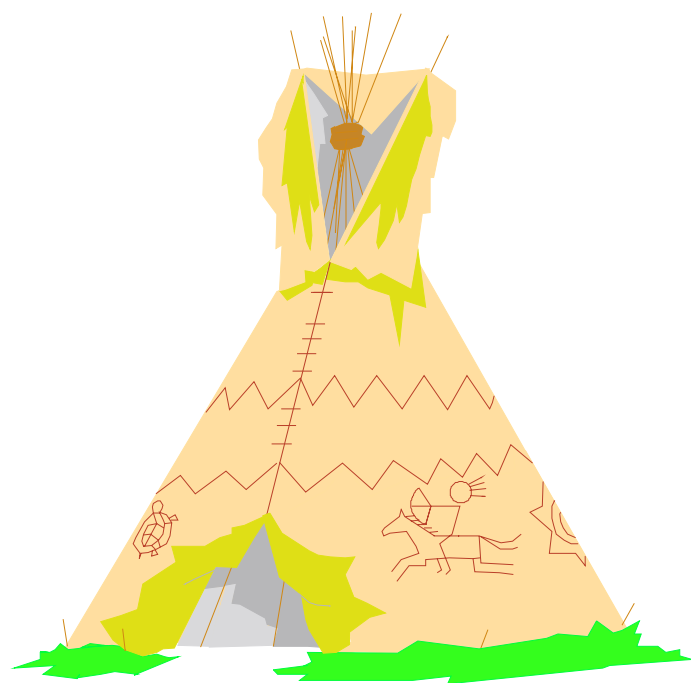


Source: Table 1B-26 in *Arizona Health Status and Vital Statistics 2002*.



IV.

CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND MOTHERS GIVING BIRTH BY PLACE OF RESIDENCE IN ARIZONA IN 2002



SOCIODEMOGRAPHIC CHARACTERISTICS

**4.1.
MATERNAL AGE (2002 STATUS)**

		TOTAL	Mother's Age Group								
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
ALL AMERICAN INDIANS		5,545	18	374	647	1,784	1,290	865	448	110	9
Resided on reservation	AK CHIN	1	1	0	0	0	0	0	0	0	0
	CAMP VERDE	16	1	3	1	8	2	0	1	0	0
	COLORADO RIVER	53	0	2	7	23	14	5	2	0	0
	FORT APACHE	245	3	20	24	82	44	47	23	2	0
	FORT McDOWELL	3	0	1	0	2	0	0	0	0	0
	GILA RIVER	157	1	16	19	63	24	24	7	1	2
	HAVASUPAI	9	0	0	2	1	2	2	1	1	0
	HOPI	79	0	3	11	24	17	10	11	3	0
	HUALAPAI	40	1	5	7	15	8	2	1	1	0
	NAVAJO	1,635	1	98	160	465	394	280	176	58	3
	SALT RIVER	141	1	15	21	57	23	16	7	1	0
	SAN CARLOS	251	0	31	31	88	44	36	18	3	0
	TOHONO O'ODHAM	131	2	8	22	32	37	23	6	1	0
	TOTAL	2,761	11	202	305	860	609	445	253	71	5
Resided off reservation	---in Maricopa County	1,484	4	79	166	502	394	228	90	19	2
	---in Pima County	402	2	30	60	141	95	49	21	3	1
	---in Coconino County	304	0	15	33	107	76	45	22	5	1
	---elsewhere in Arizona	594	1	48	83	174	116	98	62	12	0
	TOTAL	2,784	7	172	342	924	681	420	195	39	4

4.2.
EDUCATIONAL ATTAINMENT OF MOTHER (2002 STATUS)

		TOTAL	Mother's Education						Unknown
			< 8	8	9-11	12	13-16	17+	
ALL AMERICAN INDIANS		5,545	55	159	1,589	2,104	1,453	104	81
Resided on reservation	AK CHIN	1	1	0	0	0	0	0	0
	CAMP VERDE	16	0	2	5	7	2	0	0
	COLORADO RIVER	53	1	1	12	30	8	0	1
	FORT APACHE	245	0	3	78	114	46	2	2
	FORT McDOWELL	3	0	0	1	0	2	0	0
	GILA RIVER	157	3	13	72	52	17	0	0
	HAVASUPAI	9	0	1	4	3	1	0	0
	HOPI	79	1	0	14	43	21	0	0
	HUALAPAI	40	0	1	11	22	5	0	1
	NAVAJO	1,635	16	26	418	686	432	22	35
	SALT RIVER	141	3	7	69	36	11	0	15
	SAN CARLOS	251	4	8	89	99	46	2	3
	TOHONO O'ODHAM	131	2	6	54	45	24	0	0
	TOTAL	2,761	31	68	827	1,137	615	26	57
Resided off reservation	---in Maricopa County	1,484	15	47	356	502	499	53	12
	---in Pima County	402	2	20	122	142	99	8	9
	---in Coconino County	304	3	2	74	108	104	13	0
	---elsewhere in Arizona	594	4	22	210	215	136	4	3
	TOTAL	2,784	24	91	762	967	838	78	24

**4.3.
MARITAL STATUS OF MOTHER (2002 STATUS)**

		TOTAL	Marital Status		
			Married	Unmarried	Other*
ALL AMERICAN INDIANS		5,545	1,615	3,863	67
Resided on reservation	AK CHIN	1	0	1	0
	CAMP VERDE	16	1	15	0
	COLORADO RIVER	53	19	32	2
	FORT APACHE	245	75	169	1
	FORT McDOWELL	3	0	3	0
	GILA RIVER	157	26	129	2
	HAVASUPAI	9	3	6	0
	HOPI	79	15	64	0
	HUALAPAI	40	6	34	0
	NAVAJO	1,635	486	1,131	18
	SALT RIVER	141	24	115	2
	SAN CARLOS	251	72	176	3
	TOHONO O'ODHAM	131	12	119	0
	TOTAL	2,761	739	1,994	28
Resided off reservation	---in Maricopa County	1,484	481	979	24
	---in Pima County	402	99	299	4
	---in Coconino County	304	98	199	7
	---elsewhere in Arizona	594	198	392	4
	TOTAL	2,784	876	1,869	39

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

4.4.
RACE/ETHNICITY OF FATHER (2002 STATUS)

		TOTAL	White non-Hispanic	Hispanic	Black	American Indian	Asian	Unknown
ALL AMERICAN INDIANS		5,545	315	470	68	3,007	31	1,654
Resided on reservation	AK CHIN	1	0	0	0	0	0	1
	CAMP VERDE	16	0	3	0	9	0	4
	COLORADO RIVER	53	3	7	1	25	0	17
	FORT APACHE	245	2	3	0	178	1	61
	FORT McDOWELL	3	0	0	0	1	0	2
	GILA RIVER	157	1	10	0	87	0	59
	HAVASUPAI	9	0	1	0	4	0	4
	HOPI	79	2	0	0	56	0	21
	HUALAPAI	40	2	0	0	22	0	16
	NAVAJO	1,635	15	17	2	1,146	2	453
	SALT RIVER	141	5	14	1	56	0	65
	SAN CARLOS	251	1	8	0	152	0	90
	TOHONO O'ODHAM	131	1	1	1	59	2	67
	TOTAL	2,761	32	64	5	1,795	5	860
Resided off reservation	---in Maricopa County	1,484	164	254	48	633	17	368
	---in Pima County	402	40	66	6	115	5	170
	---in Coconino County	304	24	12	3	180	1	84
	---elsewhere in Arizona	594	55	74	6	284	3	172
	TOTAL	2,784	283	406	63	1,212	26	794

**4.5.
AGE OF FATHER (2002 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
ALL AMERICAN INDIANS	5,545	3	81	271	1,133	972	711	435	218	73	28	11	1,609
Resided on reservation	AK CHIN	1	0	0	0	0	0	0	0	0	0	0	1
	CAMP VERDE	16	0	1	0	5	3	3	0	0	0	0	4
	COLORADO RIVER	53	0	0	4	14	7	8	2	1	1	0	16
	FORT APACHE	245	0	6	15	54	33	28	29	15	3	0	61
	FORT McDOWELL	3	0	0	0	1	0	0	0	0	0	0	2
	GILA RIVER	157	0	2	9	34	26	12	7	8	0	0	59
	HAVASUPAI	9	0	0	1	1	0	1	0	2	0	0	4
	HOPI	79	0	1	2	16	12	8	13	5	1	0	21
	HUALAPAI	40	1	3	8	4	4	1	0	3	0	0	16
	NAVAJO	1,635	0	13	64	298	293	225	158	85	31	16	448
	SALT RIVER	141	2	3	14	28	12	10	4	3	0	0	65
	SAN CARLOS	251	0	5	21	52	34	23	13	7	4	1	89
	TOHONO O'ODHAM	131	0	3	4	20	13	15	6	2	1	0	67
TOTAL	2,761	3	37	142	527	437	334	232	131	41	17	853	
Resided off reservation	---in Maricopa County	1,484	0	18	66	344	339	215	97	46	11	4	342
	---in Pima County	402	0	6	15	71	64	38	24	9	4	1	170
	---in Coconino County	304	0	5	14	61	55	55	20	9	5	2	78
	---elsewhere in Arizona	594	0	15	34	130	77	69	62	23	12	4	166
	TOTAL	2,784	0	44	129	606	535	377	203	87	32	11	756

4.6.
SOURCE OF PAYMENT FOR LABOR AND DELIVERY (2002 STATUS)

		TOTAL	Payee for Birth				
			AHCCCS	IHS	Private Insurance	Self	Unknown
ALL AMERICAN INDIANS		5,545	3,112	1,237	862	40	294
Resided on reservation	AK CHIN	1	1	0	0	0	0
	CAMP VERDE	16	12	0	4	0	0
	COLORADO RIVER	53	27	3	7	0	16
	FORT APACHE	245	135	103	7	0	0
	FORT McDOWELL	3	1	1	1	0	0
	GILA RIVER	157	79	10	66	1	1
	HAVASUPAI	9	8	1	0	0	0
	HUPI	79	21	44	2	0	12
	HUALAPAI	40	34	0	4	2	0
	NAVAJO	1,635	884	517	86	1	147
	SALT RIVER	141	85	26	21	1	8
	SAN CARLOS	251	44	190	13	1	3
	TOHONO O'ODHAM	131	96	9	22	2	2
	TOTAL	2,761	1,427	904	233	8	189
Resided off reservation	---in Maricopa County	1,484	839	189	388	19	49
	---in Pima County	402	261	37	92	2	10
	---in Coconino County	304	223	29	42	7	3
	---elsewhere in Arizona	594	362	78	107	4	43
	TOTAL	2,784	1,685	333	629	32	105



MATERNAL LIFESTYLE AND HEALTH CHARACTERISTICS

**4.7.
MATERNAL WEIGHT GAIN DURING PREGNANCY (2002 STATUS)**

		TOTAL	Weight Gain						Unknown
			None	1-16 pounds	16-20 pounds	21-24 pounds	25-30 pounds	31+ pounds	
ALL AMERICAN INDIANS		5,545	94	910	560	372	1,051	1,680	878
Resided on reservation	AK CHIN	1	0	1	0	0	0	0	0
	CAMP VERDE	16	0	0	3	0	3	10	0
	COLORADO RIVER	53	13	4	3	0	3	9	21
	FORT APACHE	245	2	31	19	21	27	62	83
	FORT McDOWELL	3	0	1	0	0	1	0	1
	GILA RIVER	157	4	25	14	4	70	34	6
	HAVASUPAI	9	0	1	2	0	2	3	1
	HOPI	79	3	7	8	5	10	11	35
	HUALAPAI	40	0	7	11	0	6	16	0
	NAVAJO	1,635	15	335	181	124	250	363	367
	SALT RIVER	141	5	27	12	5	20	49	23
	SAN CARLOS	251	4	41	26	10	38	80	52
	TOHONO O'ODHAM	131	5	35	7	11	25	42	6
	TOTAL	2,761	51	515	286	180	455	679	595
Resided off reservation	---in Maricopa County	1,484	22	217	159	114	302	527	143
	---in Pima County	402	5	55	32	31	69	145	65
	---in Coconino County	304	2	30	32	21	76	130	13
	---elsewhere in Arizona	594	14	93	51	26	149	199	62
	TOTAL	2,784	43	395	274	192	596	1,001	283

4.8.
MEDICAL RISK FACTORS OF PREGNANCY (2002 STATUS)

	TOTAL BIRTHS	Births with medical risk factors	Medical Risk Factors																	
			Anemia	Cardiac disease	Lung disease	Diabetes	Genital herpes	Hydramnios	Hemoglobinopathy	Chronic hypertension	Pregnancy associated hypertension	Eclampsia	Previous infant 4000+g	Previous SGA infant	Renal disease	RH sensitization	Uterine bleeding	Incompetent cervix	Other	
ALL AMERICAN INDIANS	5,545	2,128	283	7	10	363	19	79	3	47	255	44	81	38	7	9	14	3	1,366	
Resided on reservation	AK CHIN	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	CAMP VERDE	16	7	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	7
	COLORADO RIVER	53	16	2	0	0	2	0	0	0	2	1	0	0	1	0	0	0	1	13
	FORT APACHE	245	143	39	1	3	20	2	0	0	2	16	2	8	4	1	0	2	0	101
	FORT McDOWELL	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GILA RIVER	157	40	4	0	0	15	0	1	1	3	6	1	0	1	0	0	0	0	15
	HAVASUPAI	9	3	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1
	HOPI	79	25	2	0	0	7	0	2	0	5	6	1	1	1	0	0	1	0	5
	HUALAPAI	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NAVAJO	1,635	583	84	3	1	123	4	35	2	11	93	4	40	16	5	0	6	1	291
	SALT RIVER	141	59	9	0	0	4	2	2	0	0	1	2	5	2	0	0	0	1	44
	SAN CARLOS	251	129	20	0	0	26	2	2	0	10	19	4	3	5	0	0	2	0	69
	TOHONO O'ODHAM	131	28	1	0	0	6	0	1	0	0	4	0	0	0	0	0	0	0	16
TOTAL	2,761	1,033	161	4	4	205	10	44	3	33	148	14	57	30	6	0	11	3	562	
Resided off reservation	---in Maricopa County	1,484	694	96	3	4	109	6	27	0	7	39	20	17	7	0	2	1	0	516
	---in Pima County	402	108	8	0	0	11	1	1	0	0	11	6	0	0	0	3	0	0	82
	---in Coconino County	304	109	2	0	0	6	0	2	0	1	27	1	0	0	0	0	1	0	81
	---elsewhere in Arizona	594	184	16	0	2	32	2	5	0	6	30	3	7	1	1	4	1	0	125
	TOTAL	2,784	1,095	122	3	6	158	9	35	0	14	107	30	24	8	1	9	3	0	804

4.9.
SUBSTANCE USE DURING PREGNANCY (2002 STATUS)

		TOTAL	Substance Use			
			Drinker, nonsmoker	Smoker, nondrinker	Smoker and drinker	Nonsmoker and nondrinker
ALL AMERICAN INDIANS		5,545	93	130	51	5,271
Resided on reservation	AK CHIN	1	1	0	0	0
	CAMP VERDE	16	0	1	0	15
	COLORADO RIVER	53	0	2	0	51
	FORT APACHE	245	20	6	3	216
	FORT McDOWELL	3	0	0	0	3
	GILA RIVER	157	7	1	1	148
	HAVASUPAI	9	0	0	0	9
	HOPI	79	1	0	1	77
	HUALAPAI	40	2	0	1	37
	NAVAJO	1,635	18	18	10	1,589
	SALT RIVER	141	2	10	3	126
	SAN CARLOS	251	14	2	3	232
	TOHONO O'ODHAM	131	6	1	3	121
	TOTAL	2,761	71	41	25	2,624
	Resided off reservation	---in Maricopa County	1,484	12	48	18
---in Pima County		402	4	17	3	378
---in Coconino County		304	1	3	0	300
---elsewhere in Arizona		594	5	21	5	563
TOTAL		2,784	22	89	26	2,647



Utilization of Medical Services

**4.10.
TRIMESTER OF PREGNANCY PRENATAL CARE BEGAN (2002 STATUS)**

		TOTAL	Prenatal Care				
			No care	1st Trimester	2nd Trimester	3rd Trimester	Unknown
ALL AMERICAN INDIANS		5,545	143	3,573	1,359	393	77
Resided on reservation	AK CHIN	1	0	0	0	1	0
	CAMP VERDE	16	1	9	6	0	0
	COLORADO RIVER	53	3	33	10	3	4
	FORT APACHE	245	5	162	60	16	2
	FORT McDOWELL	3	1	2	0	0	0
	GILA RIVER	157	5	127	19	6	0
	HAVASUPAI	9	0	3	3	0	3
	HOPI	79	4	48	21	4	2
	HUALAPAI	40	0	26	4	0	10
	NAVAJO	1,635	33	1,036	424	132	10
	SALT RIVER	141	9	77	38	17	0
	SAN CARLOS	251	5	119	72	41	14
	TOHONO O'ODHAM	131	10	84	28	8	1
	TOTAL	2,761	76	1,726	685	228	46
Resided off reservation	---in Maricopa County	1,484	34	1,017	345	75	13
	---in Pima County	402	9	271	87	27	8
	---in Coconino County	304	3	212	71	17	1
	---elsewhere in Arizona	594	21	347	171	46	9
	TOTAL	2,784	67	1,847	674	165	31

**4.11.
NUMBER OF PRENATAL VISITS (2002 STATUS)**

		TOTAL	Prenatal Visits					Unknown
			No visits	1-4 visits	5-8 visits	9-12 visits	13+ visits	
ALL AMERICAN INDIANS		5,545	143	544	1,350	2,342	1,052	114
Resided on reservation	AK CHIN	1	0	1	0	0	0	0
	CAMP VERDE	16	1	2	5	6	2	0
	COLORADO RIVER	53	3	7	9	12	17	5
	FORT APACHE	245	5	29	90	90	27	4
	FORT McDOWELL	3	1	0	0	0	2	0
	GILA RIVER	157	5	8	23	95	22	4
	HAVASUPAI	9	0	0	4	2	0	3
	HOPI	79	4	6	17	36	14	2
	HUALAPAI	40	0	3	15	12	1	9
	NAVAJO	1,635	33	202	460	602	328	10
	SALT RIVER	141	9	17	38	49	19	9
	SAN CARLOS	251	5	72	83	52	25	14
	TOHONO O'ODHAM	131	10	4	29	53	33	2
	TOTAL	2,761	76	351	773	1,009	490	62
Resided off reservation	---in Maricopa County	1,484	34	80	265	767	308	30
	---in Pima County	402	9	28	80	182	97	6
	---in Coconino County	304	3	19	65	140	75	2
	---elsewhere in Arizona	594	21	66	167	244	82	14
	TOTAL	2,784	67	193	577	1,333	562	52

**4.12.
OBSTETRIC PROCEDURES (2002 STATUS)**

		TOTAL	Obstetric Procedures						
			Amniocentesis	Electronic Fetal Monitoring	Induction of labor	Stimulation of labor	Tocolysis	Ultrasound	Other
ALL AMERICAN INDIANS		5,242	40	4,687	861	791	210	3,640	2
Resided on reservation	AK CHIN	1	0	1	0	0	0	1	0
	CAMP VERDE	15	0	14	1	4	0	11	0
	COLORADO RIVER	41	0	41	4	4	2	22	0
	FORT APACHE	236	3	197	38	65	19	188	0
	FORT McDOWELL	2	0	1	0	1	0	2	0
	GILA RIVER	154	2	152	17	11	1	142	0
	HAVASUPAI	9	0	8	2	3	0	2	0
	HOPI	69	1	68	15	14	0	12	0
	HUALAPAI	40	0	40	11	11	0	1	0
	NAVAJO	1,498	11	1,443	276	205	22	902	2
	SALT RIVER	140	0	134	25	31	5	107	0
	SAN CARLOS	236	5	156	40	33	54	191	0
	TOHONO O'ODHAM	124	3	53	5	0	0	117	0
	TOTAL	2,565	25	2,308	434	382	103	1,698	2
Resided off reservation	---in Maricopa County	1,450	6	1,330	202	257	87	1,123	0
	---in Pima County	393	6	261	53	36	0	360	0
	---in Coconino County	292	1	281	86	33	2	81	0
	---elsewhere in Arizona	542	2	507	86	83	18	378	0
	TOTAL	2,677	15	2,379	427	409	107	1,942	0

**4.13.
COMPLICATIONS OF LABOR AND DELIVERY (2002 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 disproportion	Cord prolapse	Anesthetic Complications	Fetal distress	Other	
ALL AMERICAN INDIANS	5,545	1,916	70	241	236	20	16	72	5	89	83	151	178	39	7	4	195	1,038	
Resided on reservation	AK CHIN	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	CAMP VERDE	16	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
	COLORADO RIVER	53	13	1	2	1	0	0	0	0	0	0	2	0	0	0	0	10	
	FORT APACHE	245	139	0	11	4	2	0	7	0	0	2	28	16	7	2	0	37	107
	FORT McDOWELL	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	GILA RIVER	157	25	1	1	2	0	0	0	0	0	2	0	4	0	0	0	4	14
	HAVASUPAI	9	3	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1
	HOPI	79	33	1	3	8	3	0	5	0	2	3	6	2	0	0	0	6	9
	HUALAPAI	40	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NAVAJO	1,635	540	27	66	95	4	7	31	2	50	49	78	49	8	1	0	52	167
	SALT RIVER	141	57	1	16	2	0	1	0	0	3	0	1	2	0	0	0	3	41
	SAN CARLOS	251	92	0	18	6	1	0	2	1	8	1	2	4	1	0	0	14	51
	TOHONO O'ODHAM	131	20	1	1	2	0	0	2	0	3	0	0	2	0	0	0	0	11
TOTAL	2,761	925	32	119	121	10	8	47	3	66	57	115	83	16	3	0	117	412	
Resided off reservation	---in Maricopa County	1,484	592	31	85	77	6	3	13	0	12	12	13	47	14	1	1	35	385
	---in Pima County	402	116	1	16	9	1	1	1	0	4	0	0	11	2	1	0	9	77
	---in Coconino County	304	89	2	3	11	2	1	2	1	1	5	3	12	2	1	0	4	54
	---elsewhere in Arizona	594	194	4	18	18	1	3	9	1	6	9	20	25	5	1	3	30	110
	TOTAL	2,784	991	38	122	115	10	8	25	2	23	26	36	95	23	4	4	78	626

**4.14.
METHOD OF DELIVERY (2002 STATUS)**

		TOTAL	Method of Delivery					
			Vaginal	Vaginal after C-Section	Primary C-Section	Repeat C-Section	Forceps	Vacuum
ALL AMERICAN INDIANS		5,545	4,373	150	599	423	48	101
Resided on reservation	AK CHIN	1	1	0	0	0	0	0
	CAMP VERDE	16	11	1	1	3	0	0
	COLORADO RIVER	53	30	1	14	8	0	0
	FORT APACHE	245	178	7	36	24	12	2
	FORT McDOWELL	3	3	0	0	0	0	0
	GILA RIVER	157	120	0	22	15	0	3
	HAVASUPAI	9	6	0	1	2	0	0
	HOPI	79	67	2	7	3	0	1
	HUALAPAI	40	35	0	2	3	0	2
	NAVAJO	1,635	1,355	71	118	91	8	27
	SALT RIVER	141	106	4	15	16	3	8
	SAN CARLOS	251	181	8	31	31	2	10
	TOHONO O'ODHAM	131	102	2	9	18	0	2
	TOTAL	2,761	2,195	96	256	214	25	55
Resided off reservation	---in Maricopa County	1,484	1,160	31	183	110	14	25
	---in Pima County	402	316	3	51	32	1	5
	---in Coconino County	304	242	6	34	22	0	6
	---elsewhere in Arizona	594	460	14	75	45	8	10
		TOTAL	2,784	2,178	54	343	209	23

4.15.
ATTENDANT AT BIRTH (2002 STATUS)

		TOTAL	Attendant at Birth					
			M.D.	C.N.M.	Midwife	D.O.	Other	Unknown
ALL AMERICAN INDIANS		5,545	3,214	1,808	22	448	34	19
Resided on reservation	AK CHIN	1	1	0	0	0	0	0
	CAMP VERDE	16	16	0	0	0	0	0
	COLORADO RIVER	53	50	1	0	2	0	0
	FORT APACHE	245	139	3	0	102	1	0
	FORT McDOWELL	3	2	1	0	0	0	0
	GILA RIVER	157	81	8	1	67	0	0
	HAVASUPAI	9	5	1	0	3	0	0
	HOPI	79	47	32	0	0	0	0
	HUALAPAI	40	24	0	0	16	0	0
	NAVAJO	1,635	513	1,029	12	60	9	12
	SALT RIVER	141	101	34	0	5	1	0
	SAN CARLOS	251	238	10	0	1	2	0
	TOHONO O'ODHAM	131	122	5	0	0	4	0
	TOTAL	2,761	1,339	1,124	13	256	17	12
Resided off reservation	---in Maricopa County	1,484	932	470	4	73	5	0
	---in Pima County	402	311	76	0	6	8	1
	---in Coconino County	304	247	32	2	20	2	1
	---elsewhere in Arizona	594	385	106	3	93	2	5
	TOTAL	2,784	1,875	684	9	192	17	7



Newborn's Health

**4.16.
GESTATIONAL AGE (2002 STATUS)**

		TOTAL	Length of Gestation				
			<37 weeks	37 weeks	38-43 weeks	43+ weeks	Unknown
ALL AMERICAN INDIANS		5,545	531	399	4,581	2	32
Resided on reservation	AK CHIN	1	0	0	1	0	0
	CAMP VERDE	16	2	0	13	0	1
	COLORADO RIVER	53	9	6	26	0	12
	FORT APACHE	245	33	30	182	0	0
	FORT McDOWELL	3	0	0	3	0	0
	GILA RIVER	157	17	19	121	0	0
	HAVASUPAI	9	0	2	7	0	0
	HOPI	79	11	6	62	0	0
	HUALAPAI	40	2	3	35	0	0
	NAVAJO	1,635	119	92	1,418	1	5
	SALT RIVER	141	9	5	127	0	0
	SAN CARLOS	251	39	21	190	0	1
	TOHONO O'ODHAM	131	19	8	104	0	0
	TOTAL	2,761	260	192	2,289	1	19
Resided off reservation	---in Maricopa County	1,484	155	98	1,228	1	2
	---in Pima County	402	46	33	320	0	3
	---in Coconino County	304	31	18	255	0	0
	---elsewhere in Arizona	594	39	58	489	0	8
	TOTAL	2,784	271	207	2,292	1	13

4.17.
WEIGHT AT BIRTH (2002 STATUS)

		TOTAL	Weight at Birth					Unknown
			<1,000 grams	1,000-1,499	1,500-2,499	2,500-3,999	4000+	
ALL AMERICAN INDIANS		5,545	28	23	308	4,652	529	5
Resided on reservation	AK CHIN	1	0	0	0	1	0	0
	CAMP VERDE	16	0	0	1	12	3	0
	COLORADO RIVER	53	0	0	5	40	8	0
	FORT APACHE	245	3	2	17	205	18	0
	FORT McDOWELL	3	0	0	0	3	0	0
	GILA RIVER	157	0	0	7	140	10	0
	HAVASUPAI	9	0	0	0	8	1	0
	HOPI	79	0	0	8	69	2	0
	HUALAPAI	40	0	0	1	34	5	0
	NAVAJO	1,635	6	7	94	1,379	145	4
	SALT RIVER	141	1	1	9	116	14	0
	SAN CARLOS	251	6	2	13	206	24	0
	TOHONO O'ODHAM	131	0	1	9	112	8	1
	TOTAL	2,761	16	13	164	2,325	238	5
Resided off reservation	---in Maricopa County	1,484	7	7	77	1,220	173	0
	---in Pima County	402	2	1	27	329	43	0
	---in Coconino County	304	2	0	16	257	29	0
	---elsewhere in Arizona	594	1	2	24	521	46	0
	TOTAL	2,784	12	10	144	2,327	291	0

4.18.
ABNORMAL CONDITIONS OF THE NEWBORN (2002 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	
TOTAL BIRTHS	5,545	540	6	3	2	22	15	64	51	9	441	
Resided on reservation	AK CHIN	1	0	0	0	0	0	0	0	0	0	
	CAMP VERDE	16	3	0	0	0	0	0	2	0	2	
	COLORADO RIVER	53	15	0	0	0	0	0	4	5	8	
	FORT APACHE	245	52	2	0	0	2	1	7	10	40	
	FORT McDOWELL	3	0	0	0	0	0	0	0	0	0	
	GILA RIVER	157	7	0	0	0	3	0	0	1	7	
	HAVASUPAI	9	1	0	0	0	0	0	0	0	1	
	HOPI	79	5	0	0	0	0	0	2	0	3	
	HUALAPAI	40	2	0	1	0	0	1	0	0	1	
	NAVAJO	1,635	91	3	0	1	6	9	9	19	2	53
	SALT RIVER	141	15	0	0	0	0	1	1	0	15	
	SAN CARLOS	251	42	0	0	0	1	1	5	0	39	
	TOHONO O'ODHAM	131	0	0	0	0	0	0	0	0	0	
TOTAL	2,761	233	5	1	1	12	13	30	35	2	169	
Resided off reservation	---in Maricopa County	1,484	184	0	0	0	8	2	4	2	3	172
	---in Pima County	402	48	0	1	0	0	0	17	0	2	45
	---in Coconino County	304	18	0	0	0	0	0	0	1	0	17
	---elsewhere in Arizona	594	57	1	1	1	2	0	13	13	2	38
	TOTAL	2,784	307	1	2	1	10	2	34	16	7	272

**4.19.
CONGENITAL ANOMALIES (BIRTH DEFECTS) (2002 STATUS)**

		TOTAL BIRTHS	Births with congenital anomalies	Congenital Anomalies																					
				Anencephalus	Spina Bifida	Hydrocephalus	Microcephalus	Other CNS Anomaly	Heart Malformations	Other Respiratory /Circulatory	Rectal Atresia	Fistula/Esophageal 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
ALL AMERICAN INDIANS		5,545	121	0	1	1	0	0	5	11	0	0	2	0	2	0	3	6	2	3	0	5	2	1	88
Resided on reservation	AK CHIN	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	CAMP VERDE	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	COLORADO RIVER	53	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	FORT APACHE	245	8	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	4	
	FORT McDOWELL	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	GILA RIVER	157	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	HAVASUPAI	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	HOPI	79	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
	HUALAPAI	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NAVAJO	1,635	17	0	0	1	0	0	5	0	0	0	1	0	2	0	1	0	1	0	1	0	1	8	
	SALT RIVER	141	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	6	
	SAN CARLOS	251	10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	8	
	TOHONO O'ODHAM	131	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	2,761	47	0	1	1	0	0	5	4	0	0	2	0	2	0	2	0	2	1	0	2	0	1	29	
Resided off reservation	---in Maricopa County	1,484	62	0	0	0	0	0	0	4	0	0	0	0	0	1	4	0	1	0	2	2	0	53	
	---in Pima County	402	5	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	4	
	---in Coconino County	304	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	---elsewhere in Arizona	594	6	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	1	0	1	0	0	1	
	TOTAL	2,784	74	0	0	0	0	0	0	7	0	0	0	0	0	0	1	6	0	2	0	3	2	0	59

**TABLE 4.20.
CAUSES OF INFANT DEATH AMONG AMERICAN INDIAN RESIDENTS, ARIZONA, 2002**

	Total	Resided on reservation								Resided off reservation				
		FORT APACHE	HOPI	HUALAPAI	NAVAJO	SALT RIVER	SAN CARLOS	TOHONO O'ODHAM	TOTAL	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	TOTAL
Total, all causes	39	1	1	1	7	1	9	2	22	9	4	1	3	17
Congenital malformations	4	0	0	0	1	0	0	0	1	0	1	0	2	3
Conditions originating in the perinatal period	16	0	0	0	4	0	6	0	10	5	0	1	0	6
---Short gestation and low birth weight	4	0	0	0	0	0	3	0	3	1	0	0	0	1
---Respiratory condition	1	0	0	0	1	0	0	0	1	0	0	0	0	0
---Maternal complications	2	0	0	0	0	0	1	0	1	1	0	0	0	1
---Bacterial sepsis of newborn	2	0	0	0	0	0	1	0	1	1	0	0	0	1
---Atelectasis	1	0	0	0	1	0	0	0	1	0	0	0	0	0
---Intrauterine hypoxia or birth asphyxia	1	0	0	0	1	0	0	0	1	0	0	0	0	0
Diseases of the respiratory system	2	0	0	0	0	0	1	0	1	0	1	0	0	1
Infectious and parasitic diseases	5	1	1	0	0	1	2	0	5	0	0	0	0	0
Unknown cause	3	0	0	0	0	0	0	1	1	1	0	0	1	2
---Sudden infant death syndrome	2	0	0	0	0	0	0	0	0	1	0	0	1	2
---Other unspecified cause	1	0	0	0	0	0	0	1	1	0	0	0	0	0
Disease of the digestive system	2	0	0	0	1	0	0	0	1	0	1	0	0	1
Accident (unintentional injury)	1	0	0	0	0	0	0	0	0	0	1	0	0	1

**4.21.
COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY
COUNTY OF RESIDENCE, ARIZONA, 2002**

	TOTAL STATE	APACHE	COCHISE	COCONINO	GILA	GRAHAM	GREENLEE	MARICOPA	MOHAVE	NAVAJO	PIMA	PINAL	SANTA CRUZ	YAVAPAI	YUMA	LA PAZ	UNKNOWN	
TOTAL	5,545	917	14	707	215	66	1	1,619	78	940	532	291	1	48	41	54	21	
Mother's age group	<15	18	2	0	0	0	0	5	1	2	4	3	0	1	0	0	0	
	15-17	374	49	2	40	29	4	95	9	69	38	30	0	5	2	2	0	
	18-19	647	93	3	73	25	10	1	186	13	106	82	39	0	4	3	7	2
	20-24	1,784	256	7	228	65	29	0	554	31	274	172	103	0	19	16	24	6
	25-29	1,290	219	0	177	40	14	0	417	14	186	132	50	0	8	10	14	9
	30-34	865	169	1	111	37	6	0	243	7	159	72	39	0	8	7	5	1
	35-39	448	94	1	61	17	2	0	97	2	114	27	23	1	3	2	2	2
	40-44	110	34	0	16	2	1	0	20	1	28	4	2	0	0	1	0	1
45+	9	1	0	1	0	0	0	2	0	2	1	2	0	0	0	0	0	
Payee for birth	AHCCCS	3,112	599	3	352	48	12	0	920	57	519	356	163	1	30	25	27	0
	IHS	1,237	147	0	284	150	48	1	213	1	323	46	19	0	1	1	3	0
	Private insurance	862	43	9	57	14	5	0	409	11	60	114	102	0	16	15	7	0
	Self	40	1	1	7	1	0	0	20	2	1	4	3	0	0	0	0	0
	Unknown	294	127	1	7	2	1	0	57	7	37	12	4	0	1	0	17	21
Mother's education	< 8	55	10	0	6	3	1	0	18	1	6	4	5	0	0	0	1	0
	8	159	14	1	11	9	0	0	53	2	18	26	20	0	2	1	1	1
	9-11	1,589	215	1	194	76	21	1	422	30	275	175	135	1	13	15	12	3
	12	2,104	381	8	278	76	36	0	535	34	404	187	89	0	17	16	30	13
	13-16	1,453	262	4	202	45	8	0	511	10	213	123	42	0	13	7	9	4
	17+	104	14	0	14	2	0	0	53	0	10	8	0	0	3	0	0	0
	Unknown	81	21	0	2	4	0	0	27	1	14	9	0	0	0	2	1	0
Marital status	Married	1,615	245	8	235	63	19	0	503	17	282	111	63	1	19	17	20	12
	Unmarried	3,863	661	6	463	151	45	1	1,090	61	650	417	225	0	29	24	32	8
	Other*	67	11	0	9	1	2	0	26	0	8	4	3	0	0	0	2	1
Weight gain	None	94	7	0	6	2	2	0	27	5	15	10	4	0	1	1	14	0
	1-16 pounds	910	203	2	90	38	9	0	242	10	153	90	57	1	4	0	4	7
	16-20 pounds	560	115	1	72	25	5	0	171	14	83	39	27	0	4	0	3	1
	21-24 pounds	372	88	1	36	6	5	0	119	1	66	42	7	0	0	0	0	1
	25-30 pounds	1,051	139	1	136	30	11	1	322	17	154	94	102	0	12	26	3	3
	31+ pounds	1,680	225	9	215	67	23	0	572	26	222	186	79	0	25	14	9	8
	Unknown	878	140	0	152	47	11	0	166	5	247	71	15	0	2	0	21	1

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

4.21.
COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY
COUNTY OF RESIDENCE, ARIZONA, 2002

		TOTAL STATE	APACHE	COCHISE	COCONINO	GILA	GRAHAM	MARICOPA	MOHAVE	NAVAJO	PIMA	PINAL	SANTA CRUZ	YAVAPAI	YUMA	LA PAZ	UNKNOWN
Substance use	Drinker, nonsmoker	73	8	0	4	8	0	19	2	24	3	5	0	0	0	0	0
	Smoker, nondrinker	150	14	1	4	1	0	63	5	19	34	4	0	2	2	1	0
	Smoker and drinker	64	5	1	2	7	1	23	1	12	4	4	0	1	1	2	0
	Nonsmoker and nondrinker	5053	868	13	758	160	44	1447	57	834	507	261	1	31	43	24	5
Length of gestation	<37 weeks	537	68	4	58	15	7	155	4	102	77	33	0	3	7	2	2
	37 weeks	387	47	0	59	20	6	125	4	55	42	25	0	3	1	0	0
	38-43 weeks	4378	779	11	646	139	31	1266	53	729	427	214	1	28	35	16	3
	43+ weeks	6	1	0	2	0	0	1	0	2	0	0	0	0	0	0	0
	Unknown	32	0	0	3	2	1	5	4	1	2	2	0	0	3	9	0
Weight at birth	<1,000 grams	25	1	0	3	0	0	10	0	4	3	3	0	1	0	0	0
	1,000-1,499	30	5	1	5	0	1	10	0	2	3	2	0	0	0	0	1
	1,500-2,499	337	58	0	48	6	2	88	6	63	38	18	0	2	5	2	1
	2,500-3,999	4442	748	12	658	149	39	1262	50	758	453	228	1	28	34	19	3
	4000+	500	81	2	54	21	3	181	9	59	51	23	0	3	7	6	0
	Unknown	6	2	0	0	0	0	1	0	3	0	0	0	0	0	0	0
Prenatal care	No care	102	9	2	15	8	2	30	0	18	9	5	1	2	0	1	0
	1st trimester	3448	581	9	554	75	20	1012	38	553	360	180	0	13	33	18	2
	2nd trimester	1313	234	2	149	48	14	396	19	230	132	58	0	16	8	4	3
	3rd trimester	361	55	1	39	33	5	86	4	68	40	22	0	3	3	2	0
	Unknown	116	16	1	11	12	4	28	4	20	7	9	0	0	2	2	0
Prenatal visits	No visits	102	9	2	15	8	2	30	0	18	9	5	1	2	0	1	0
	1-4 visits	517	75	2	77	32	18	95	16	104	55	26	0	5	1	9	2
	5-8 visits	1347	232	3	187	65	13	311	21	298	127	64	0	14	9	3	0
	9-12 visits	2133	325	5	315	48	7	719	16	335	197	134	0	9	18	3	2
	13+ visits	1086	233	3	167	11	2	341	7	118	147	31	0	4	16	5	1
	Unknown	155	21	0	7	12	3	56	5	16	13	14	0	0	2	6	0
Newborn intensive care	Yes	246	35	2	35	7	1	65	2	34	31	16	0	1	12	3	2
	No	5075	855	13	732	167	44	1485	62	853	517	258	1	33	31	21	3
	Unknown	19	5	0	1	2	0	2	1	2	0	0	0	0	3	3	0
Obstetric procedures	Amniocentesis	71	7	1	9	6	1	17	0	10	17	2	0	0	1	0	0
	Electronic Fetal Monitoring	4381	765	11	694	139	6	1310	59	743	295	266	0	31	42	16	4
	Induction of labor	872	127	4	214	29	2	218	12	179	56	22	0	2	4	1	2
	Stimulation of labor	639	77	4	100	15	1	191	17	157	53	13	0	8	1	2	0
	Tocolysis	151	13	0	9	14	1	61	2	31	1	18	0	1	0	0	0

**4.21.
COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY
COUNTY OF RESIDENCE, ARIZONA, 2002**

		TOTAL STATE	APACHE	COCHISE	COCONINO	GILA	GRAHAM	MARICOPA	MOHAVE	NAVAJO	PIMA	PINAL	SANTA CRUZ	YAVAPAI	YUMA	LA PAZ	UNKNOWN
Method of delivery	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
Births with medical risk factors	Total	2111	308	11	315	70	17	730	12	387	166	66	1	7	6	11	4
Medical risk factors	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	
Abnormal conditions of the newborn	Total	500	52	7	56	22	6	174	6	104	44	14	0	3	7	5	0
Abnormal conditions	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
	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

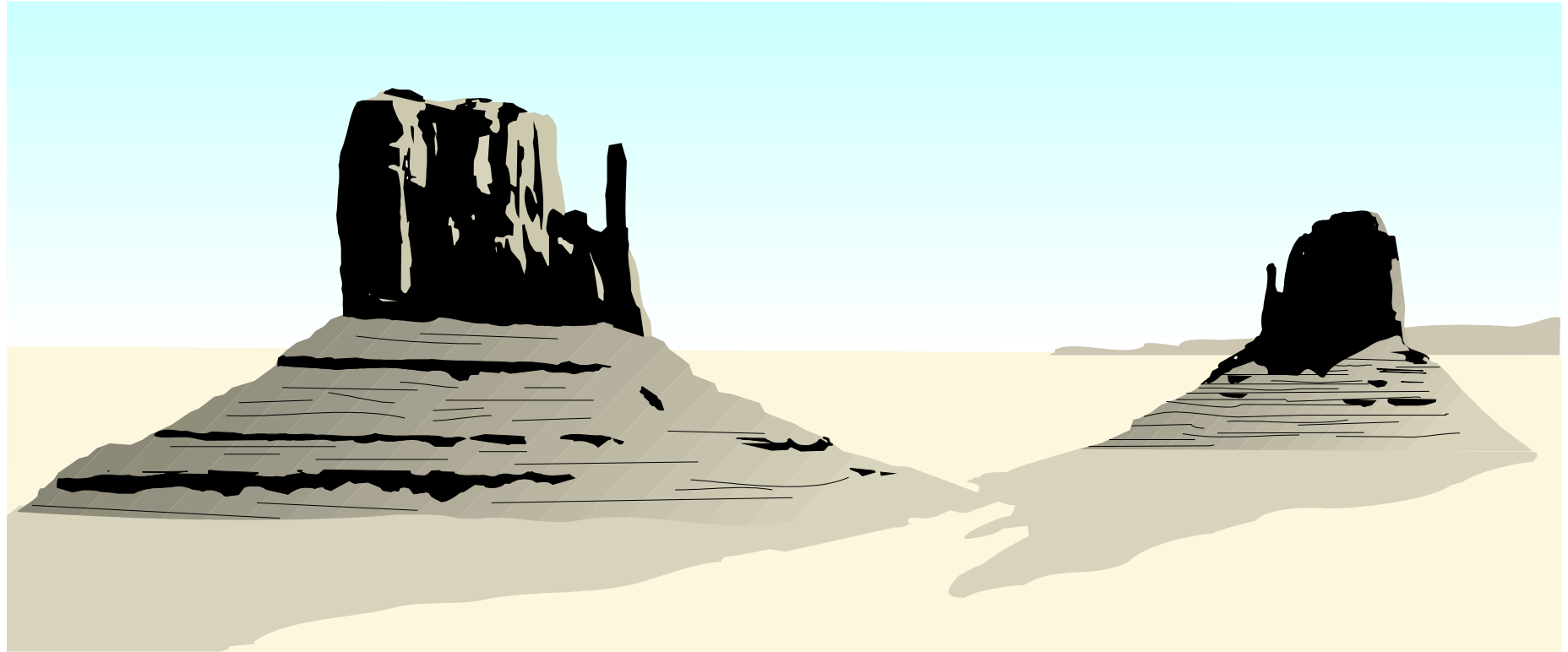
4.21.
COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY
COUNTY OF RESIDENCE, ARIZONA, 2002

	TOTAL STATE	APACHE	COCHISE	COCONINO	GILA	GRAHAM	MARICOPA	MOHAVE	NAVAJO	PIMA	PINAL	SANTA CRUZ	YAVAPAI	YUMA	LA PAZ	UNKNOWN
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
Births with congenital anomalies	Total	121	15	0	10	3	53	1	20	9	4	0	2	0	2	0
Congenital anomalies	Anencephalus	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
	Hydrocephalus	4	1	0	0	0	0	0	0	3	0	0	0	0	0	0
	Microcephalus	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	1	0	0	0
	Heart malformations	7	3	0	1	1	0	0	0	1	1	0	0	0	0	0
	Other respiratory /circulatory	10	0	0	0	0	0	1	0	7	2	0	0	0	0	0
	Rectal atresia	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
	Omphalocele/ gastroschisis	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0
	Other gastrointestinal	1	0	0	0	0	0	1	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
	Renal agenesis	1	1	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
	Cleft lip/palate	4	0	0	1	0	0	1	0	1	0	1	0	0	0	0
	Polydactyly	8	3	0	2	0	0	1	0	1	0	0	1	0	0	0
	Club foot	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	Diaphragmatic hernia	1	1	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
	Down's syndrome	5	1	0	1	0	0	1	0	0	2	0	0	0	0	0
Other chromosomal	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
Other	78	7	0	5	2	2	44	1	6	7	2	0	0	0	2	

4.21.
COMPARISON OF SELECTED CHARACTERISTICS OF AMERICAN INDIAN NEWBORNS AND WOMEN GIVING BIRTH BY
COUNTY OF RESIDENCE, ARIZONA, 2002

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

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 2002



AGE-SPECIFIC MORTALITY

**5.1.
AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIANS IN 2002**

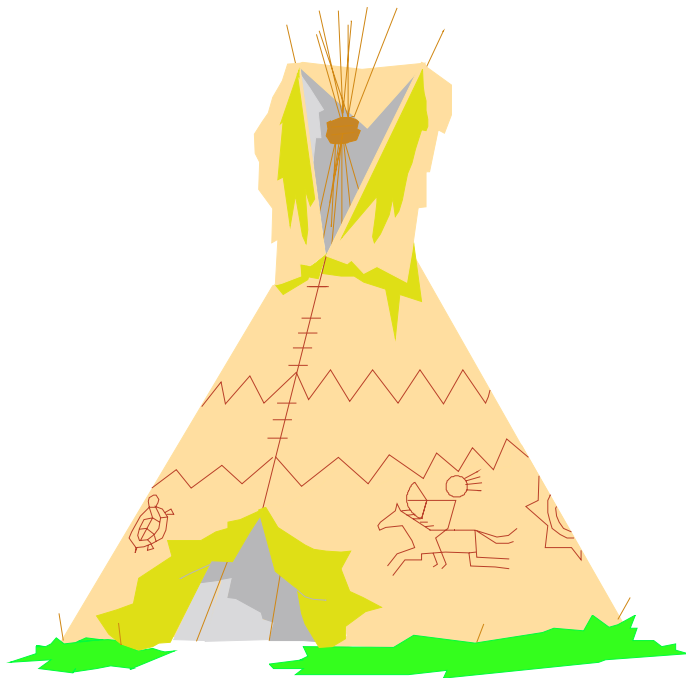
		TOTAL	Age group										
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total, all American Indians		1,536	39	15	32	112	114	183	224	193	252	211	161
Resided on reservation	AK CHIN	3	0	0	0	1	0	0	1	0	0	1	0
	CAMP VERDE	6	0	0	0	1	1	0	0	0	1	1	2
	COLORADO RIVER	28	0	0	0	1	1	4	5	3	6	7	1
	FORT APACHE	76	1	2	3	7	7	7	12	7	16	13	1
	FORT McDOWELL	7	0	0	0	0	2	1	3	1	0	0	0
	GILA RIVER	83	0	2	3	6	5	13	16	9	10	12	7
	HAVASUPAI	3	0	0	1	0	0	0	1	0	0	1	0
	HOPI	44	1	0	2	2	2	6	7	2	5	7	10
	HUALAPAI	19	1	0	0	1	2	3	3	3	1	4	1
	KAIBAB	3	0	0	0	0	1	0	0	1	0	1	0
	NAVAJO	520	7	4	17	30	41	65	51	58	88	73	86
	SALT RIVER	46	1	0	1	6	4	6	8	13	2	5	0
	SAN CARLOS	77	9	1	1	5	4	9	11	6	20	8	3
	SAN XAVIER	4	0	0	0	0	1	2	0	0	1	0	0
	TOHONO O'ODHAM	101	2	1	1	14	10	11	18	16	17	5	6
	TOTAL	1,020	22	10	29	74	81	127	136	119	167	138	117
Resided off reservation	---in Maricopa County	230	9	3	1	22	16	28	39	31	37	29	15
	---in Pima County	110	4	0	1	3	9	12	28	16	16	14	7
	---in Coconino County	35	1	2	1	0	5	4	5	3	4	5	5
	---elsewhere in Arizona	141	3	0	0	13	3	12	16	24	28	25	17
		TOTAL	516	17	5	3	38	33	56	88	74	85	73

5.2.
AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIAN MALES IN 2002

	TOTAL	Age group										
		<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total, all American Indians	884	22	9	16	83	91	120	136	106	131	92	78
Resided on reservation	AK CHIN	1	0	0	0	0	0	1	0	0	0	0
	CAMP VERDE	4	0	0	0	0	1	0	0	1	1	1
	COLORADO RIVER	16	0	0	1	1	2	4	3	0	4	1
	FORT APACHE	42	0	1	4	7	4	7	2	12	4	0
	FORT McDOWELL	4	0	0	0	2	0	2	0	0	0	0
	GILA RIVER	50	0	2	3	4	12	6	6	5	6	4
	HAVASUPAI	1	0	0	0	0	0	1	0	0	0	0
	HOPI	31	0	0	2	1	5	6	1	5	4	7
	HUALAPAI	9	0	0	1	1	1	2	2	1	1	0
	KAI BAB	1	0	0	0	0	0	0	0	0	1	0
	NAVAJO	320	6	3	26	38	40	31	32	53	40	43
	SALT RIVER	23	0	0	3	2	4	3	7	0	3	0
	SAN CARLOS	50	7	1	3	4	6	8	4	13	2	1
	SAN XAVIER	2	0	0	0	0	2	0	0	0	0	0
	TOHONO O'ODHAM	62	0	1	14	6	7	13	11	5	1	3
TOTAL	616	13	8	57	67	83	84	68	95	67	60	
Resided off reservation	---in Maricopa County	120	6	0	16	14	18	23	15	12	11	5
	---in Pima County	65	2	0	2	6	9	22	9	10	3	1
	---in Coconino County	18	0	1	0	3	2	2	2	1	2	4
	---elsewhere in Arizona	65	1	0	8	1	8	5	12	13	9	8
	TOTAL	268	9	1	26	24	37	52	38	36	25	18

5.3.
AGE-SPECIFIC MORTALITY AMONG AMERICAN INDIAN FEMALES IN 2002

		TOTAL	Age group										
			<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total, all American Indians		652	17	6	16	29	23	63	88	87	121	119	83
Resided on reservation	AK CHIN	2	0	0	0	1	0	0	0	0	0	1	0
	CAMP VERDE	2	0	0	0	1	0	0	0	0	0	0	1
	COLORADO RIVER	12	0	0	0	0	0	2	1	0	6	3	0
	FORT APACHE	34	1	1	2	3	0	3	5	5	4	9	1
	FORT McDOWELL	3	0	0	0	0	0	1	1	1	0	0	0
	GILA RIVER	33	0	0	1	3	1	1	10	3	5	6	3
	HAVASUPAI	2	0	0	1	0	0	0	0	0	0	1	0
	HOPI	13	1	0	2	0	1	1	1	1	0	3	3
	HUALAPAI	10	1	0	0	0	1	2	1	1	0	3	1
	KAIBAB	2	0	0	0	0	1	0	0	1	0	0	0
	NAVAJO	200	1	1	9	4	3	25	20	26	35	33	43
	SALT RIVER	23	1	0	0	3	2	2	5	6	2	2	0
	SAN CARLOS	27	2	0	0	2	0	3	3	2	7	6	2
	SAN XAVIER	2	0	0	0	0	1	0	0	0	1	0	0
	TOHONO O'ODHAM	39	2	0	0	0	4	4	5	5	12	4	3
	TOTAL	404	9	2	15	17	14	44	52	51	72	71	57
Resided off reservation	---in Maricopa County	110	3	3	1	6	2	10	16	16	25	18	10
	---in Pima County	45	2	0	0	1	3	3	6	7	6	11	6
	---in Coconino County	17	1	1	0	0	2	2	3	1	3	3	1
	---elsewhere in Arizona	76	2	0	0	5	2	4	11	12	15	16	9
	TOTAL	248	8	4	1	12	9	19	36	36	49	48	26



CAUSE-SPECIFIC MORTALITY

**5.4.
DEATHS BY GENDER FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS
IN 2002**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	Male	Female
Total, all causes	1,536	884	652
Salmonella infections	0	0	0
Shigellosis and amebiasis	0	0	0
Certain other intestinal infections	0	0	0
Tuberculosis	5	3	2
Respiratory tuberculosis	4	3	1
Other tuberculosis	1	0	1
Whooping cough	1	0	1
Scarlet fever and erysipelas	0	0	0
Meningococcal infection	0	0	0
Septicemia	38	17	21
Syphilis	0	0	0
Acute poliomyelitis	0	0	0
Arthropod-borne encephalitis	0	0	0
Measles	0	0	0
Viral hepatitis	5	4	1
Human immunodeficiency virus (HIV) disease	13	13	0
Malaria	0	0	0
Other and unspecified infectious and parasitic diseases	12	5	7
Malignant neoplasms	167	74	93
Malignant neoplasm of lip, oral cavity and pharynx	3	2	1
Malignant neoplasm of esophagus	3	3	0
Malignant neoplasm of stomach	16	7	9
Malignant neoplasm of colon, rectum, and anus	13	6	7
Malignant neoplasm of liver and intrahepatic bile ducts	8	4	4
Malignant neoplasm of pancreas	7	4	3
Malignant neoplasm of larynx	0	0	0
Malignant neoplasm of trachea, bronchus and lung	18	8	10
Malignant neoplasm of skin	1	0	1
Malignant neoplasm of breast	10	0	10
Malignant neoplasm of cervix uteri	4	0	4
Malignant neoplasm of corpus uteri and uterus, part unspecified	3	0	3
Malignant neoplasm of ovary	5	0	5
Malignant neoplasm of prostate	5	5	0
Malignant neoplasm of kidney and renal pelvis	16	12	4

5.4. (continued)
DEATHS BY GENDER FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS
IN 2002

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	Male	Female
Malignant neoplasm of bladder	4	0	4
Malignant neoplasm of meninges, brain and other parts of CNS	1	1	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	21	13	8
Hodgkin's disease	0	0	0
Non-Hodgkin's lymphoma	8	4	4
Leukemia	11	7	4
Multiple myeloma and immunoproliferative neoplasms	2	2	0
Other and unspecified malignant neoplasms of lymphoid tissue	0	0	0
All other and unspecified malignant neoplasm	28	9	19
In situ neoplasms	4	4	0
Anemias	3	2	1
Diabetes	111	46	65
Nutritional deficiencies	4	0	4
Malnutrition	3	0	3
Other nutritional deficiencies	1	0	1
Meningitis	3	3	0
Parkinson's disease	6	5	1
Alzheimer's disease	9	3	6
Major cardiovascular diseases	275	147	128
Diseases of heart	208	116	92
Acute rheumatic fever and chronic rheumatic heart disease	2	1	1
Hypertensive heart disease	8	5	3
Hypertensive heart and renal disease	0	0	0
Ischemic heart disease	144	81	63
Acute myocardial infarction	52	31	21
Other acute ischemic heart disease	0	0	0
Other forms of chronic ischemic heart disease	92	50	42
Atherosclerotic cardiovascular disease	35	21	14
All other forms of chronic ischemic heart disease	57	29	28
Other heart diseases	54	29	25
Acute and subacute endocarditis	128	55	73
Diseases of pericardium and acute myocarditis	0	0	0
Heart failure	15	6	9
All other forms of heart disease	38	23	15
Essential (primary) hypertension and hypertensive renal disease	7	4	3

5.4. (continued)
DEATHS BY GENDER FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS
IN 2002

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	Male	Female
Cerebrovascular diseases	49	25	24
Atherosclerosis	4	0	4
Other diseases of circulatory system	7	2	5
Aortic aneurysm and dissection	5	1	4
Other disease of arteries, arterioles and capillaries	2	1	1
Other disorders of circulatory system	4	1	3
Influenza and pneumonia	61	29	32
Influenza	2	2	0
Pneumonia	59	27	32
Other acute lower respiratory infections	0	0	0
Acute bronchiolitis	0	0	0
Unspecified acute lower respiratory infection	0	0	0
Chronic lower respiratory diseases	26	14	12
Bronchitis, chronic and unspecified	0	0	0
Emphysema	5	3	2
Asthma	2	1	1
Other chronic lower respiratory diseases	19	10	9
Pneumoconioses and chemical effects	0	0	0
Pneumonitis due to solids and liquids	13	9	4
Other disease of respiratory system	22	12	10
Peptic ulcer	1	1	0
Diseases of appendix	0	0	0
Hernia	3	1	2
Chronic liver disease and cirrhosis	79	50	29
Alcoholic liver disease	55	38	17
Other chronic liver disease and cirrhosis	24	12	12
Cholelithiasis and other disorders of gallbladder	3	3	0
Nephritis, nephritic syndrome and nephrosis	36	15	21
Acute and rapidly progressive nephritic and nephritic syndrome	0	0	0
Chronic glomerulonephritis	1	1	0
Renal failure	35	14	21
Others disorders of kidney	0	0	0
Infections of kidney	1	0	1
Hyperplasia of prostate	0	0	0
Inflammatory diseases of female pelvic organs	1	0	1

5.4. (continued)
DEATHS BY GENDER FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS
IN 2002

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Total	Male	Female
Pregnancy, childbirth and the puerperium	0	0	0
Pregnancy with abortive outcome	0	0	0
Other complications of pregnancy, childbirth and the puerperium	0	0	0
Perinatal conditions	17	12	5
Congenital malformations	6	2	4
Symptoms, signs, abnormal findings	18	8	10
Total accidents	256	183	73
Transport accidents	179	128	51
Motor vehicle accidents	174	123	51
Other land transport accidents	3	3	0
Water, air, space	2	2	0
Nontransport accidents	77	55	22
Falls	18	9	9
Accidental discharge of firearms	1	1	0
Accidental drowning and submersion	3	2	1
Accidental exposure to smoke, fire and flames	4	4	0
Accidental poisoning	26	20	6
Other and unspecified nontransport accidents	26	19	7
Intentional self-harm (suicide)	50	43	7
By discharge of firearms	18	17	1
By other means	32	26	6
Assault (homicide)	54	39	15
By discharge of firearms	21	14	7
By other means	33	25	8
Legal intervention	1	1	0
Events of undetermined intent	5	3	2
Discharge of firearms	1	0	1
Other and unspecified events of undetermined intent	4	3	1
Operations of war	0	0	0
Complications of medical and surgical care	2	0	2
I N J U R Y B Y F I R E A R M S	42	33	9
D R U G - I N D U C E D D E A T H S	31	22	9
A L C O H O L - I N D U C E D D E A T H S	80	58	22

**5.5.
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+
Total, all causes	1,536	39	15	32	112	114	183	224	193	252	211	161
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	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	5	0	0	0	0	0	0	1	1	1	1	1
Respiratory tuberculosis	4	0	0	0	0	0	0	1	1	0	1	1
Other tuberculosis	1	0	0	0	0	0	0	0	0	1	0	0
Whooping cough	1	1	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	38	2	1	1	2	3	3	5	7	6	6	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	5	0	0	0	0	1	1	3	0	0	0	0
Human immunodeficiency virus (HIV) disease	13	0	0	0	0	2	10	1	0	0	0	0
Malaria	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	12	2	1	0	0	0	1	0	3	3	2	0
Malignant neoplasms	167	0	0	2	5	7	14	24	32	35	29	19
Malignant neoplasm of lip, oral cavity and pharynx	3	0	0	0	0	0	0	0	2	0	1	0
Malignant neoplasm of esophagus	3	0	0	0	0	0	0	0	1	1	1	0
Malignant neoplasm of stomach	16	0	0	0	0	0	0	2	2	6	5	1
Malignant neoplasm of colon, rectum, and anus	13	0	0	0	0	0	1	3	3	3	0	3
Malignant neoplasm of liver and intrahepatic bile ducts	8	0	0	0	0	1	0	1	0	3	2	1
Malignant neoplasm of pancreas	7	0	0	0	0	0	0	1	2	0	3	1
Malignant neoplasm of larynx	0	0	0	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+
Malignant neoplasm of trachea, bronchus and lung	18	0	0	0	0	0	0	2	6	6	4	0
Malignant neoplasm of skin	1	0	0	0	0	0	0	0	0	0	0	1
Malignant neoplasm of breast	10	0	0	0	0	1	4	2	1	2	0	0
Malignant neoplasm of cervix uteri	4	0	0	0	0	0	0	2	1	0	0	1
Malignant neoplasm of corpus uteri and uterus, part unspecified	3	0	0	0	0	0	0	0	1	1	1	0
Malignant neoplasm of ovary	5	0	0	0	0	0	0	4	1	0	0	0
Malignant neoplasm of prostate	5	0	0	0	0	0	0	0	0	1	2	2
Malignant neoplasm of kidney and renal pelvis	16	0	0	0	0	0	2	0	6	4	2	2
Malignant neoplasm of bladder	4	0	0	0	1	0	0	1	1	1	0	0
Malignant neoplasm of meninges, brain and other parts of CNS	1	0	0	1	0	0	0	0	0	0	0	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	21	0	0	0	3	2	2	3	2	3	4	2
Hodgkin's disease	0	0	0	0	0	0	0	0	0	0	0	0
Non-Hodgkin's lymphoma	8	0	0	0	1	1	0	2	2	1	1	0
Leukemia	11	0	0	0	2	1	2	0	0	1	3	2
Multiple myeloma and immunoproliferative neoplasms	2	0	0	0	0	0	0	1	0	1	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	28	0	0	1	1	3	5	3	3	4	3	5
In situ neoplasms	4	0	0	1	0	0	0	0	0	0	3	0
Anemias	3	0	0	0	0	0	0	0	1	0	0	2
Diabetes	111	0	0	0	0	0	7	16	24	37	21	6
Nutritional deficiencies	4	0	0	0	0	0	0	0	0	0	3	1
Malnutrition	3	0	0	0	0	0	0	0	0	0	2	1
Other nutritional deficiencies	1	0	0	0	0	0	0	0	0	0	1	0
Meningitis	3	1	0	0	0	0	1	0	1	0	0	0
Parkinson's disease	6	0	0	0	0	0	0	0	1	0	2	3
Alzheimer's disease	9	0	0	0	0	0	0	0	0	2	1	6

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+
Major cardiovascular diseases	275	0	1	1	3	2	12	30	45	73	67	41
Diseases of heart	208	0	1	0	3	2	10	18	39	51	52	32
Acute rheumatic fever and chronic rheumatic heart disease	2	0	0	0	0	1	0	0	1	0	0	0
Hypertensive heart disease	8	0	0	0	1	0	3	1	2	1	0	0
Hypertensive heart and renal disease	0	0	0	0	0	0	0	0	0	0	0	0
Ischemic heart disease	144	0	0	0	1	0	4	10	30	42	43	14
Acute myocardial infarction	52	0	0	0	1	0	1	3	12	15	15	5
Other acute ischemic heart disease	0	0	0	0	0	0	0	0	0	0	0	0
Other forms of chronic ischemic heart disease	92	0	0	0	0	0	3	7	18	27	28	9
Atherosclerotic cardiovascular disease	35	0	0	0	0	0	2	4	4	10	10	5
All other forms of chronic ischemic heart disease	57	0	0	0	0	0	1	3	14	17	18	4
Other heart diseases	54	0	1	0	1	1	3	7	6	8	9	18
Acute and subacute endocarditis	128	2	0	0	2	2	10	18	24	37	25	8
Diseases of pericardium and acute myocarditis	0	0	0	0	0	0	0	0	0	0	0	0
Heart failure	15	0	0	0	0	0	0	1	0	5	4	5
All other forms of heart disease	38	0	1	0	1	1	3	5	6	3	5	13
Essential (primary) hypertension and hypertensive renal disease	7	0	0	0	0	0	0	1	2	3	1	0
Cerebrovascular diseases	49	0	0	1	0	0	1	11	1	14	13	8
Atherosclerosis	4	0	0	0	0	0	0	0	1	3	0	0
Other diseases of circulatory system	7	0	0	0	0	0	1	0	2	2	1	1
Aortic aneurysm and dissection	5	0	0	0	0	0	0	0	2	1	1	1
Other disease of arteries, arterioles and capillaries	2	0	0	0	0	0	1	0	0	1	0	0
Other disorders of circulatory system	4	0	0	0	0	0	1	1	1	0	0	1
Influenza and pneumonia	61	1	0	0	1	1	3	6	7	6	15	21
Influenza	2	0	0	0	0	0	0	0	1	0	1	0
Pneumonia	59	1	0	0	1	1	3	6	6	6	14	21
Other acute lower respiratory infections	0	0	0	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	16	0	0	1	0	0	0	0	0	0	0
Symptoms, signs, abnormal findings	6	4	1	1	0	0	0	0	0	0	0	0
Total accidents	18	3	1	0	1	0	1	2	1	2	5	2
Transport accidents	256	1	8	16	58	43	49	37	14	18	7	5
Motor vehicle accidents	179	1	8	14	52	33	34	24	8	2	2	1
Other land transport accidents	174	1	8	14	50	32	32	24	8	2	2	1
Water, air, space	3	0	0	0	2	1	0	0	0	0	0	0
Nontransport accidents	2	0	0	0	0	0	2	0	0	0	0	0
Falls	77	0	0	2	6	10	15	13	6	16	5	4
Accidental discharge of firearms	18	0	0	0	1	0	0	4	4	4	2	3
Accidental drowning and submersion	1	0	0	1	0	0	0	0	0	0	0	0
Accidental exposure to smoke, fire and flames	4	0	0	0	0	1	2	0	0	1	0	0
Accidental poisoning	26	0	0	0	3	8	10	4	1	0	0	0
Other and unspecified nontransport accidents	26	0	0	1	2	1	3	3	1	11	3	1
Intentional self-harm (suicide)	50	0	0	3	15	16	10	5	0	1	0	0
By discharge of firearms	18	0	0	0	9	3	3	2	0	1	0	0
By other means	32	0	0	3	6	13	7	3	0	0	0	0
Assault (homicide)	54	0	1	3	15	14	8	11	2	0	0	0
By discharge of firearms	21	0	1	3	8	4	2	3	0	0	0	0
By other means	33	0	0	0	7	10	6	8	2	0	0	0
Legal intervention	1	0	0	0	1	0	0	0	0	0	0	0
Events of undetermined intent	5	1	0	0	0	0	0	2	1	1	0	0
Discharge of firearms	1	0	0	0	0	0	0	0	1	0	0	0
Other and unspecified events of undetermined intent	4	1	0	0	0	0	0	2	0	1	0	0
Operations of war	0	0	0	0	0	0	0	0	0	0	0	0
Complications of medical and surgical care	2	0	0	0	0	0	0	1	1	0	0	0
I N J U R Y B Y F I R E A R M S	42	0	1	4	18	7	5	5	1	1	0	0
D R U G - I N D U C E D D E A T H S	31	0	0	0	3	10	12	4	1	0	1	0
A L C O H O L - I N D U C E D D E A T H S	80	0	0	1	1	12	19	31	8	8	0	0

5.6.
DEATHS BY RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2002

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	
Total, all causes	1,536	3	6	28	76	7	83	3	44	19	3	520	46	77	4	101	1,020	230	110	35	141	516	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	5	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5	0	0	0	0	0	0
Respiratory tuberculosis	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4	0	0	0	0	0	0
Other tuberculosis	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Whooping cough	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	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	38	0	0	1	2	1	2	0	0	0	0	9	2	2	0	6	25	8	2	0	3	13	
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	5	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	3	1	0	1	0	2	
Human immunodeficiency virus (HIV) disease	13	0	0	1	0	0	2	0	0	0	0	3	0	1	0	0	7	6	0	0	0	6	
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	12	0	0	0	1	0	2	0	0	0	0	3	0	1	0	3	10	2	0	0	0	2	
Malignant neoplasms	167	0	2	1	8	0	7	0	4	2	1	58	4	7	0	10	104	25	10	2	26	63	
Malignant neoplasm of lip, oral cavity and pharynx	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	1	2	
Malignant neoplasm of esophagus	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	3	0	0	0	0	0	
Malignant neoplasm of stomach	16	0	1	0	1	0	0	0	1	0	0	9	0	0	0	2	14	0	1	0	1	2	
Malignant neoplasm of colon, rectum, and anus	13	0	1	0	1	0	1	0	0	0	0	3	1	1	0	0	8	2	0	0	3	5	

5.6. (continued)
DEATHS BY RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2002

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
Malignant neoplasm of liver and intrahepatic bile ducts	8	0	0	0	1	0	1	0	1	1	0	2	0	1	0	1	8	0	0	0	0	0
Malignant neoplasm of pancreas	7	0	0	0	1	0	0	0	0	0	0	3	0	0	0	0	4	2	1	0	0	3
Malignant neoplasm of larynx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malignant neoplasm of trachea, bronchus and lung	18	0	0	1	0	0	1	0	0	0	2	0	0	0	0	0	4	7	2	0	5	14
Malignant neoplasm of skin	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Malignant neoplasm of breast	10	0	0	0	0	0	0	0	0	0	0	3	2	1	0	0	6	2	1	1	0	4
Malignant neoplasm of cervix uteri	4	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	1	2
Malignant neoplasm of corpus uteri and uterus, part unspecified	3	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	3	0	0	0	0	0
Malignant neoplasm of ovary	5	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	3	1	0	0	1	2
Malignant neoplasm of prostate	5	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	2	2
Malignant neoplasm of kidney and renal pelvis	16	0	0	0	0	0	0	0	1	0	0	6	0	2	0	0	9	1	1	0	5	7
Malignant neoplasm of bladder	4	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	2	2	0	0	0	2
Malignant neoplasm of meninges, brain and other parts of CNS	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	21	0	0	0	1	0	3	0	1	1	1	6	0	0	0	1	14	4	2	0	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	8	0	0	0	1	0	1	0	0	1	1	3	0	0	0	0	7	0	1	0	0	1
Leukemia	11	0	0	0	0	0	2	0	1	0	0	2	0	0	0	1	6	4	0	0	1	5
Multiple myeloma and immunoproliferative neoplasms	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	1
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	28	0	0	0	1	0	0	0	0	0	0	13	0	1	0	4	19	2	2	1	4	9
In situ neoplasms	4	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	3	0	0	1	0	1
Anemias	3	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	1	1
Diabetes	111	2	1	8	4	2	13	0	3	1	0	25	7	4	0	10	80	16	6	1	8	31

**5.6. (continued)
DEATHS BY RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2002**

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'ODHAM	Total	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	Total
Nutritional deficiencies	4	0	0	0	1	0	0	0	0	0	0	1	0	2	0	0	4	0	0	0	0	0
Malnutrition	3	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	3	0	0	0	0	0
Other nutritional deficiencies	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Meningitis	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	1	2
Parkinson's disease	6	0	0	0	0	0	0	0	1	0	0	4	0	0	0	1	6	0	0	0	0	0
Alzheimer's disease	9	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	6	0	0	1	7
Major cardiovascular diseases	275	0	0	7	11	0	18	0	9	5	0	91	8	11	1	9	170	37	23	7	38	105
Diseases of heart	208	0	0	5	7	0	14	0	6	5	0	71	6	9	1	5	129	27	20	2	30	79
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	0	1	0	0	1
Hypertensive heart disease	8	0	0	0	0	0	1	0	0	0	0	1	1	0	1	1	5	1	2	0	0	3
Hypertensive heart and renal disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ischemic heart disease	144	0	0	5	5	0	12	0	4	4	0	39	4	6	0	4	83	24	13	1	23	61
Acute myocardial infarction	52	0	0	1	3	0	3	0	3	1	0	14	0	2	0	2	29	6	7	0	10	23
Other acute ischemic heart disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other forms of chronic ischemic heart disease	92	0	0	4	2	0	9	0	1	3	0	25	4	4	0	2	54	18	6	1	13	38
Atherosclerotic cardiovascular disease	35	0	0	2	1	0	2	0	0	0	0	9	1	2	0	1	18	11	2	0	4	17
All other forms of chronic ischemic heart disease	57	0	0	2	1	0	7	0	1	3	0	16	3	2	0	1	36	7	4	1	9	21
Other heart diseases	54	0	0	0	2	0	1	0	2	1	0	30	1	3	0	0	40	2	4	1	7	14
Acute and subacute endocarditis	128	2	1	8	6	2	13	0	4	3	0	29	7	6	0	12	93	18	7	1	9	35
Diseases of pericardium and acute myocarditis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heart failure	15	0	0	0	1	0	1	0	0	0	0	10	1	0	0	0	13	0	1	0	1	2
All other forms of heart disease	38	0	0	0	1	0	0	0	2	1	0	20	0	3	0	0	27	2	3	1	5	11
Essential (primary) hypertension and hypertensive renal disease	7	0	0	0	1	0	0	0	1	0	0	2	1	0	0	2	7	0	0	0	0	0
Cerebrovascular diseases	49	0	0	1	3	0	3	0	1	0	0	16	1	2	0	1	28	8	2	4	7	21

5.6. (continued)
DEATHS BY RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2002

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'ODHAM	Total	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	Total
Atherosclerosis	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	1	3
Other diseases of circulatory system	7	0	0	1	0	0	0	0	1	0	0	2	0	0	0	1	5	1	1	0	0	2
Aortic aneurysm and dissection	5	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	3	1	1	0	0	2
Other disease of arteries, arterioles and capillaries	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	0
Other disorders of circulatory system	4	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	3	0	0	0	1	1
Influenza and pneumonia	61	0	1	1	2	0	1	0	1	1	25	1	4	0	4	41	6	5	4	5	20	61
Influenza	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0
Pneumonia	59	0	1	1	2	0	1	0	1	1	0	25	1	2	0	4	39	6	5	4	5	20
Other acute lower respiratory infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute bronchiolitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unspecified acute lower respiratory infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic lower respiratory diseases	26	0	1	1	0	0	1	0	0	0	0	8	1	0	0	0	12	6	5	1	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	0
Emphysema	5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	2	4
Asthma	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	1
Other chronic lower respiratory diseases	19	0	1	1	0	0	1	0	0	0	0	6	1	0	0	0	10	5	3	1	0	9
Pneumoconioses and chemical effects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pneumonitis due to solids and liquids	13	0	0	0	0	0	0	0	0	0	0	7	0	0	0	1	8	1	2	1	1	5
Other disease of respiratory system	22	0	0	0	4	0	0	0	1	0	0	5	1	0	0	3	14	1	2	1	4	8
Peptic ulcer	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Diseases of appendix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hernia	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0
Chronic liver disease and cirrhosis	79	0	0	0	2	2	2	0	2	0	0	14	5	4	1	9	41	16	10	3	9	38
Alcoholic liver disease	55	0	0	0	2	2	1	0	0	0	0	11	4	3	0	2	25	13	6	3	8	30
Other chronic liver disease and cirrhosis	24	0	0	0	0	0	1	0	2	0	0	3	1	1	1	7	16	3	4	0	1	8
Cholelithiasis and other disorders of gallbladder	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2	1	0	0	0	1

**5.6. (continued)
DEATHS BY RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2002**

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
Nephritis, nephrotic syndrome and nephrosis	36	0	0	0	3	0	5	0	1	1	0	12	0	3	0	1	26	1	2	1	6	10
Acute and rapidly progressive nephritic and nephrotic syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic glomerulonephritis	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
Renal failure	35	0	0	0	3	0	5	0	1	1	0	11	0	3	0	1	25	1	2	1	6	10
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	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	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	0	0	0	0	0
Inflammatory diseases of female pelvic organs	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Pregnancy, childbirth and the puerperium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pregnancy with abortive outcome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other complications of pregnancy, childbirth and the puerperium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Perinatal conditions	17	0	0	0	0	0	1	0	0	0	0	4	0	6	0	0	11	5	0	1	0	6
Congenital malformations	6	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2	0	1	1	2	4
Symptoms, signs, abnormal findings	18	0	0	0	0	0	1	0	0	0	0	8	0	2	0	1	12	3	1	1	1	6
Total accidents	256	1	1	5	18	0	13	1	10	4	0	95	7	12	0	21	188	33	18	4	13	68
Transport accidents	179	1	1	3	12	0	11	1	6	3	0	71	2	7	0	15	133	23	9	2	12	46
Motor vehicle accidents	174	1	1	3	12	0	11	1	6	3	0	69	2	7	0	15	131	20	9	2	12	43
Other land transport accidents	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2	1	0	0	0	1
Water, air, space	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
Nontransport accidents	77	0	0	2	6	0	2	0	4	1	0	24	5	5	0	6	55	10	9	2	1	22
Falls	18	0	0	0	2	0	1	0	1	0	0	4	3	0	0	1	12	5	1	0	0	6
Accidental discharge of firearms	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
Accidental drowning and submersion	3	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2	1	0	0	0	1
Accidental exposure to smoke, fire and flames	4	0	0	0	1	0	0	0	0	0	0	1	0	2	0	0	4	0	0	0	0	0
Accidental poisoning	26	0	0	1	0	0	1	0	0	0	0	4	2	1	0	4	13	4	7	2	0	13

5.6. (continued)
DEATHS BY RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2002

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'ODHAM	Total	---in Maricopa County	---in Pima County	---in Coconino County	---elsewhere in Arizona	Total
Other and unspecified nontransport accidents	26	0	0	0	3	0	0	0	2	1	0	14	0	2	0	1	23	1	1	0	1	3
Intentional self-harm (suicide)	50	0	0	0	6	1	4	0	2	0	0	16	0	0	0	4	33	7	4	0	6	17
By discharge of firearms	18	0	0	0	2	0	1	0	1	0	0	3	0	0	0	2	9	6	1	0	2	9
By other means	32	0	0	0	4	1	3	0	1	0	0	13	0	0	0	2	24	1	3	0	4	8
Assault (homicide)	54	0	0	1	2	0	1	0	0	0	0	24	4	0	1	5	38	11	3	0	2	16
By discharge of firearms	21	0	0	0	0	0	1	0	0	0	0	8	1	0	0	3	13	7	1	0	0	8
By other means	33	0	0	1	2	0	0	0	0	0	0	16	3	0	1	2	25	4	2	0	2	8
Legal intervention	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
Events of undetermined intent	5	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	2	0	0	0	2
Discharge of firearms	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Other and unspecified events of undetermined intent	4	0	0	0	0	0	0	0	0	0	0	3	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	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1
I N J U R Y B Y F I R E A R M S	42	0	0	0	2	0	2	0	1	0	0	12	2	0	0	5	24	14	2	0	2	18
D R U G - I N D U C E D D E A T H S	31	0	0	1	0	0	2	0	1	0	0	3	2	0	0	4	13	7	8	2	1	18
A L C O H O L - I N D U C E D D E A T H S	80	0	0	0	5	2	1	0	2	0	0	18	5	6	0	4	43	16	7	6	8	37

5.7. (continued)
DEATHS BY COUNTY OF RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2002

	Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	La Paz	Unknown
Malignant neoplasm of breast	10	3	0	1	1	0	0	4	0	0	1	0	0	0	0	0	0
Malignant neoplasm of cervix uteri	4	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	3	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0
Malignant neoplasm of ovary	5	1	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0
Malignant neoplasm of prostate	5	2	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0
Malignant neoplasm of kidney and renal pelvis	16	6	0	0	1	0	0	1	1	4	1	2	0	0	0	0	0
Malignant neoplasm of bladder	4	1	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0
Malignant neoplasm of meninges, brain and other parts of CNS	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	21	1	0	3	0	0	0	4	1	6	3	3	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	8	0	0	1	0	0	0	0	1	4	1	1	0	0	0	0	0
Leukemia	11	1	0	1	0	0	0	4	0	2	1	2	0	0	0	0	0
Multiple myeloma and immunoproliferative neoplasms	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Other and unspecified malignant neoplasms of lymphoid tissue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All other and unspecified malignant neoplasm	28	6	0	3	2	0	0	2	0	7	6	1	0	0	1	0	0
In situ neoplasms	4	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
Anemias	3	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
Diabetes	111	16	0	7	0	3	0	29	2	15	14	14	0	1	2	8	0
Nutritional deficiencies	4	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0
Malnutrition	3	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
Other nutritional deficiencies	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Meningitis	3	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
Parkinson's disease	6	4	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Alzheimer's disease	9	1	0	0	0	0	0	7	0	0	0	0	0	1	0	0	0
Major cardiovascular diseases	275	54	2	29	10	4	1	48	9	43	32	23	0	6	7	7	0
Diseases of heart	208	41	1	16	7	3	1	35	9	36	26	19	0	3	6	5	0
Acute rheumatic fever and chronic rheumatic heart disease	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

5.7. (continued)
DEATHS BY COUNTY OF RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2002

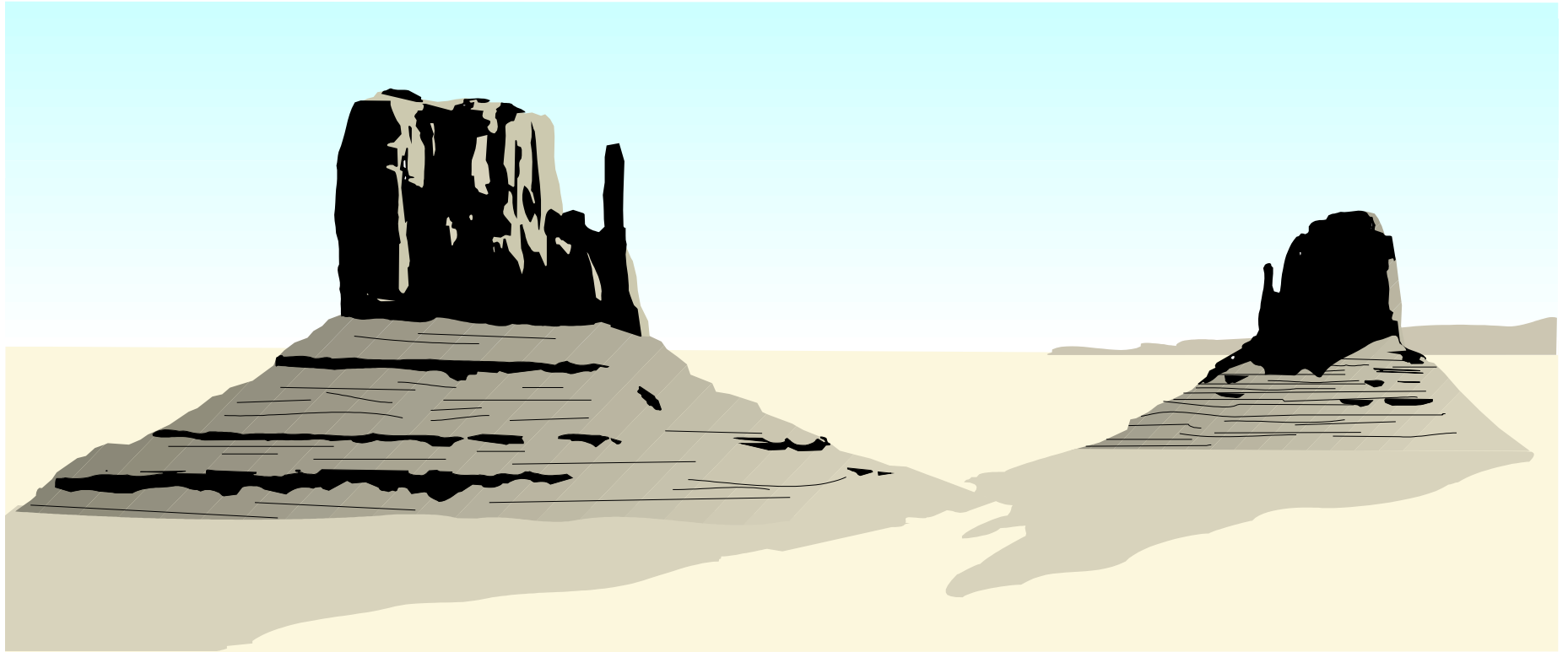
	Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	La Paz	Unknown
Hypertensive heart disease	8	1	0	0	0	0	0	2	0	0	4	1	0	0	0	0	0
Hypertensive heart and renal disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ischemic heart disease	144	23	1	9	7	1	1	30	8	21	17	16	0	2	3	5	0
Acute myocardial infarction	52	10	1	2	2	1	0	7	4	8	9	4	0	1	2	1	0
Other acute ischemic heart disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other forms of chronic ischemic heart disease	92	13	0	7	5	0	1	23	4	13	8	12	0	1	1	4	0
Atherosclerotic cardiovascular disease	35	6	0	2	2	0	0	13	0	4	3	2	0	1	0	2	0
All other forms of chronic ischemic heart disease	57	7	0	5	3	0	1	10	4	9	5	10	0	0	1	2	0
Other heart diseases	54	16	0	7	0	2	0	3	1	15	4	2	0	1	3	0	0
Acute and subacute endocarditis	128	19	0	7	0	4	0	31	4	19	16	16	0	1	3	8	0
Diseases of pericardium and acute myocarditis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heart failure	15	5	0	2	0	0	0	1	0	4	1	1	0	0	1	0	0
All other forms of heart disease	38	11	0	5	0	2	0	2	1	11	3	1	0	1	1	0	0
Essential (primary) hypertension and hypertensive renal disease	7	1	0	1	0	0	0	2	0	2	1	0	0	0	0	0	0
Cerebrovascular diseases	49	10	1	10	3	1	0	9	0	4	3	3	0	3	1	1	0
Atherosclerosis	4	1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
Other diseases of circulatory system	7	1	0	1	0	0	0	1	0	1	2	0	0	0	0	1	0
Aortic aneurysm and dissection	5	1	0	1	0	0	0	1	0	0	1	0	0	0	0	1	0
Other disease of arteries, arterioles and capillaries	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Other disorders of circulatory system	4	1	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0
Influenza and pneumonia	61	12	0	11	4	0	0	8	1	11	7	3	0	3	0	1	0
Influenza	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Pneumonia	59	12	0	11	2	0	0	8	1	11	7	3	0	3	0	1	0
Other acute lower respiratory infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute bronchiolitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unspecified acute lower respiratory infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic lower respiratory diseases	26	7	0	1	0	0	0	7	0	2	5	2	0	1	0	1	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	1	0	1	1	1	0	0	0	0	0
Asthma	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

5.7. (continued)
DEATHS BY COUNTY OF RESIDENCE FOR SELECTED 113 CAUSES AMONG AMERICAN INDIANS IN 2002

	Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	La Paz	Unknown
Other chronic lower respiratory diseases	19	5	0	1	0	0	0	6	0	1	3	1	0	1	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	13	1	0	5	0	0	0	1	0	2	3	1	0	0	0	0	0
Other disease of respiratory system	22	3	0	3	0	0	0	2	0	8	5	0	0	1	0	0	0
Peptic ulcer	1	0	0	0	0	0	0	0	0	0	0	1	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	3	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0
Chronic liver disease and cirrhosis	79	7	0	8	2	0	0	26	3	8	17	7	0	1	0	0	0
Alcoholic liver disease	55	5	0	7	2	0	0	19	2	6	8	5	0	1	0	0	0
Other chronic liver disease and cirrhosis	24	2	0	1	0	0	0	7	1	2	9	2	0	0	0	0	0
Cholelithiasis and other disorders of gallbladder	3	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0
Nephritis, nephritic syndrome and nephrosis	36	5	0	5	1	0	0	1	1	10	3	8	0	0	2	0	0
Acute and rapidly progressive nephritic and nephritic syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic glomerulonephritis	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Renal failure	35	5	0	4	1	0	0	1	1	10	3	8	0	0	2	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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyperplasia of prostate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inflammatory diseases of female pelvic organs	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Pregnancy, childbirth and the puerperium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Perinatal conditions	17	3	0	2	2	3	0	6	0	0	0	1	0	0	0	0	0
Congenital malformations	6	0	0	2	0	0	0	0	0	2	1	1	0	0	0	0	0
Symptoms, signs, abnormal findings	18	6	1	2	2	0	0	3	0	1	2	1	0	0	0	0	0
Total accidents	256	58	1	24	8	3	0	40	5	53	39	17	0	2	1	5	0
Transport accidents	179	43	1	18	6	0	0	25	4	37	24	15	0	2	1	3	0
Motor vehicle accidents	174	41	1	18	6	0	0	22	4	37	24	15	0	2	1	3	0
Other land transport accidents	3	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Water, air, space	2	0	0	0	0	0	0	2	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 2002

	Total State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	La Paz	Unknown
Nontransport accidents	77	15	0	6	2	3	0	15	1	16	15	2	0	0	0	2	0
Falls	18	4	0	0	0	0	0	8	0	3	2	1	0	0	0	0	0
Accidental discharge of firearms	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Accidental drowning and submersion	3	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0
Accidental exposure to smoke, fire and flames	4	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0
Accidental poisoning	26	3	0	3	0	1	0	6	0	0	11	1	0	0	0	1	0
Other and unspecified nontransport accidents	26	6	0	3	1	1	0	1	1	11	2	0	0	0	0	0	0
Intentional self-harm (suicide)	50	10	0	4	1	1	0	8	0	11	8	6	0	0	1	0	0
By discharge of firearms	18	2	0	1	1	0	0	6	0	4	3	1	0	0	0	0	0
By other means	32	8	0	3	0	1	0	2	0	7	5	5	0	0	1	0	0
Assault (homicide)	54	16	0	3	0	0	0	15	0	9	8	2	0	0	0	1	0
By discharge of firearms	21	7	0	0	0	0	0	8	0	1	3	2	0	0	0	0	0
By other means	33	9	0	3	0	0	0	7	0	8	5	0	0	0	0	1	0
Legal intervention	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Events of undetermined intent	5	2	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0
Discharge of firearms	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Other and unspecified events of undetermined intent	4	2	0	0	0	0	0	1	0	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	2	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
INJURY BY FIREARMS	42	10	0	1	1	0	0	16	0	5	6	3	0	0	0	0	0
DRUG-INDUCED DEATHS	31	3	0	2	0	0	0	9	0	1	12	3	0	0	0	1	0
ALCOHOL-INDUCED DEATHS	80	8	0	12	4	1	0	23	2	13	10	6	0	1	0	0	0



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.

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.

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

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	2002 population of American Indians	2002 deaths among American Indians	Age-specific rates for American Indians in 2002	2000 standard	Age-adjusted rate for American Indians In 2002
A	B	C	D (C/B)*100000	E	F D*E
<1	5378	39	725	.013818	10.0
1-4	21457	15	70	.055317	3.9
5-14	62837	32	51	.145565	7.4
15-24	50049	112	224	.138646	31.0
25-34	39542	114	288	.135573	39.1
35-44	38197	183	479	.162613	77.9
45-54	25702	224	872	.134834	117.5
55-64	14958	193	1290	.087247	112.6
65-74	9106	252	2767	.066037	182.8
75-84	4221	211	4999	.044842	224.2
85+	1479	161	10886	.015508	168.8
				TOTAL	975.1

Age-specific mortality - Number of deaths in a specific age group during a calendar year.

Cause of death - For the purpose of national mortality statistics, every death is attributed to one underlying condition, based on information reported on the death certificate and utilizing the international rules for selecting the underlying cause of death from the reported conditions.

Cause-specific mortality - Number of deaths from a specified cause during a calendar year.

Classification of causes of death - The cause of death used in this report is the underlying cause classified according to the *International Classification of Diseases (ICD)*. Beginning with the 2000 data year in Arizona (1999 nationally), a new revision of the International Classification of Diseases was implemented. The Tenth Revision (ICD-10) has replaced the Ninth Revision (ICD-9), which was in effect since 1979.

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		Estimated comparability ratio	Standard error	Relative standard error	95-percent confidence limits	
			Tenth Revision	Ninth Revision				Lower	Upper
			Salmonella infections	A01-A02				002-003	30
Shigellosis and amebiasis	A03,A06	004,006	*	*	*	*	*	*	*
Certain other intestinal infections	A04,A07-A09	007-009	*	*	*	*	*	*	*
Tuberculosis	A16-A19	010-018	653	764	0.8547	0.0172	2.0	0.8209	0.8885
Respiratory tuberculosis	A16	010-012	518	572	0.9056	0.0201	2.2	0.8662	0.9450
Other tuberculosis	A17-A19	013-018	135	192	0.7031	0.0407	5.8	0.6233	0.7830
Whooping cough	A37	033	*	*	*	*	*	*	*
Scarlet fever and erysipelas	A38,A46	034.1-035	*	*	*	*	*	*	*
Meningococcal infection	A39	036	221	222	0.9955	0.0149	1.5	0.9663	1.0247
Septicemia	A40-A41	038	21,258	17,791	1.1949	0.0042	0.3	1.1867	1.2030
Syphilis	A50-A53	090-097	21	33	0.6364	0.1184	18.6	0.4043	0.8685
Acute poliomyelitis	A80	045	*	*	*	*	*	*	*
Arthropod-borne viral encephalitis	A83-A84,A85.2	062-064	*	*	*	*	*	*	*
Measles	B05	055	*	*	*	*	*	*	*
Viral hepatitis	B15-B19	070	1,123	1,346	0.8343	0.0120	1.4	0.8109	0.8578
Human immunodeficiency virus (HIV) disease	B20-B24	*042-*044	12,765	11,150	1.1448	0.0045	0.4	1.1360	1.1536
Malaria	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	001,005,020-032,037,039-041,046-054, 056-061,065-066,071-083,085-088, 098-134,136-139,771.3							
Malignant neoplasms	C00-C97	140-208	464,688	461,544	1.0068	0.0002	0.0	1.0064	1.0072
Malignant neoplasms of lip, oral cavity and pharynx	C00-C14	140-149	5,927	6,172	0.9603	0.0040	0.4	0.9525	0.9681
Malignant neoplasm of esophagus	C15	150	9,596	9,630	0.9965	0.0020	0.2	0.9926	1.0003
Malignant neoplasm of stomach	C16	151	11,480	11,408	1.0063	0.0019	0.2	1.0025	1.0101
Malignant neoplasms of colon, rectum and anus	C18-C21	153-154	48,583	48,619	0.9993	0.0009	0.1	0.9975	1.0010
Malignant neoplasms of liver and intrahepatic bile ducts	C22	155	9,732	10,102	0.9634	0.0023	0.2	0.9588	0.9679
Malignant neoplasm of pancreas	C25	157	24,313	24,361	0.9980	0.0009	0.1	0.9963	0.9997
Malignant neoplasm of larynx	C32	161	3,209	3,194	1.0047	0.0053	0.5	0.9943	1.0150
Malignant neoplasms of trachea, bronchus and lung	C33-C34	162	131,750	133,936	0.9837	0.0005	0.1	0.9827	0.9846
Malignant melanoma of skin	C43	172	5,941	6,139	0.9677	0.0032	0.3	0.9614	0.9741
Malignant neoplasm of breast	C50	174-175	38,102	37,891	1.0056	0.0010	0.1	1.0036	1.0075
Malignant neoplasm of cervix uteri	C53	180	3,753	3,802	0.9871	0.0034	0.3	0.9805	0.9938
Malignant neoplasms of corpus uteri and uterus, part unspecified	C54-C55	179,182	5,318	5,183	1.0260	0.0040	0.4	1.0182	1.0339
Malignant neoplasm of ovary	C56	183.0	11,292	11,344	0.9954	0.0016	0.2	0.9923	0.9985
Malignant neoplasm of prostate	C61	185	30,672	30,267	1.0134	0.0015	0.1	1.0105	1.0162
Malignant neoplasms of kidney and renal pelvis	C64-C65	189.0,189.1	9,521	9,521	1.0000	0.0022	0.2	0.9957	1.0043
Malignant neoplasm of bladder	C67	188	9,563	9,594	0.9968	0.0026	0.3	0.9916	1.0019
Malignant neoplasms of meninges, brain and other parts of central nervous system	C70-C72	191-192	10,039	10,359	0.9691	0.0025	0.3	0.9642	0.9740
Malignant neoplasms of lymphoid, hematopoietic and related tissue	C81-C96	200-208	44,715	44,530	1.0042	0.0012	0.1	1.0019	1.0064
Hodgkin's disease	C81	201	1,021	1,036	0.9855	0.0089	0.9	0.9680	1.0030
Non-Hodgkin's lymphoma	C82-C85	200,202	17,924	18,326	0.9781	0.0018	0.2	0.9745	0.9817
Leukemia	C91-C95	204-208	16,600	16,405	1.0119	0.0019	0.2	1.0083	1.0155

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		Estimated comparability ratio	Standard error	Relative standard error	95-percent confidence limits	
			Tenth Revision	Ninth Revision				Lower	Upper
Multiple myeloma and immunoproliferative neoplasms	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	- - -	*	*	*	*	*	*	*
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	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	9,263	5,532	1.6744	0.0164	1.0	1.6422	1.7067
Anemias	D50-D64	280-285	3,059	3,200	0.9559	0.0077	0.8	0.9409	0.9710
Diabetes mellitus	E10-E14	250	48,636	48,242	1.0082	0.0011	0.1	1.0060	1.0103
Nutritional deficiencies	E40-E64	260-269	3,215	2,763	1.1636	0.0165	1.4	1.1312	1.1960
Malnutrition	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	608	98	6.2041	0.5961	9.6	5.0358	7.3724
Meningitis	G00,G03	320-322	592	584	1.0137	0.0136	1.3	0.9871	1.0403
Parkinson's disease	G20-G21	332	10,404	10,392	1.0012	0.0028	0.3	0.9956	1.0067
Alzheimer's disease	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	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	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	2,446	2,980	0.8208	0.0089	1.1	0.8034	0.8382
Hypertensive heart disease	I11	402	17,322	21,577	0.8028	0.0028	0.3	0.7973	0.8083
Hypertensive heart and renal disease	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	466,459	466,935	0.9990	0.0002	0.0	0.9985	0.9994
Acute myocardial infarction	I21-I22	410	178,125	180,169	0.9887	0.0003	0.0	0.9880	0.9893
Other acute ischemic heart diseases	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	285,667	284,128	1.0054	0.0004	0.0	1.0046	1.0062
Atherosclerotic cardiovascular disease, so described	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	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	127,167	130,886	0.9716	0.0010	0.1	0.9696	0.9736
Acute and subacute endocarditis	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	489	475	1.0295	0.0160	1.6	0.9981	1.0608
Heart failure	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-I49,151	415-417,424-427,429.0-429.1,429.3-429.9	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	11,958	10,684	1.1192	0.0050	0.4	1.1094	1.1291
Cerebrovascular diseases	I60-I69	430-434,436-438	137,264	129,640	1.0588	0.0008	0.1	1.0572	1.0604
Atherosclerosis	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	18,239	19,289	0.9456	0.0021	0.2	0.9414	0.9498
Aortic aneurysm and dissection	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	6,023	7,088	0.8497	0.0053	0.6	0.8394	0.8601
Other disorders of circulatory system	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	50,526	72,371	0.6982	0.0018	0.3	0.6947	0.7016
Influenza	J10-J11	487	572	567	1.0088	0.0073	0.7	0.9945	1.0231
Pneumonia	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	346	355	0.9746	0.0392	4.0	0.8978	1.0515
Acute bronchitis and bronchiolitis	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		Estimated comparability ratio	Standard error	Relative standard error	95-percent confidence limits	
			Tenth Revision	Ninth Revision				Lower	Upper
Unspecified acute lower respiratory infection	J22	- - -	*	*	*	*	*	*	*
Chronic lower respiratory diseases	J40-J47	490-494,496	94,326	90,022	1.0478	0.0009	0.1	1.0460	1.0496
Bronchitis, chronic and unspecified	J40-J42	490-491	913	2,320	0.3935	0.0107	2.7	0.3726	0.4145
Emphysema	J43	492	14,369	14,774	0.9726	0.0031	0.3	0.9666	0.9786
Asthma	J45-J46	493	4,217	4,718	0.8938	0.0061	0.7	0.8819	0.9057
Other chronic lower respiratory diseases	J44, J47	494,496	74,827	68,210	1.0970	0.0014	0.1	1.0943	1.0998
Pneumoconioses and chemical effects	J60-J66, J68	500-506	860	845	1.0178	0.0099	1.0	0.9983	1.0372
Pneumonitis due to solids and liquids	J69	507	10,183	9,104	1.1185	0.0048	0.4	1.1092	1.1279
Other diseases of respiratory system	J00-J06, J30-J39, J67, J70-J98	034.0,460-465,470-478,495,508-519	16,656	14,269	1.1673	0.0052	0.4	1.1572	1.1774
Peptic ulcer	K25-K28	531-534	3,574	3,686	0.9696	0.0045	0.5	0.9608	0.9784
Diseases of appendix	K35-K38	540-543	209	202	1.0347	0.0242	2.3	0.9873	1.0820
Hernia	K40-K46	550-553	658	633	1.0395	0.0154	1.5	1.0094	1.0696
Chronic liver disease and cirrhosis	K70, K73-K74	571	21,688	20,920	1.0367	0.0027	0.3	1.0314	1.0420
Alcoholic liver disease	K70	571.0-571.3	10,147	9,965	1.0183	0.0050	0.5	1.0085	1.0281
Other chronic liver disease and cirrhosis	K73-K74	571.4-571.9	11,541	10,955	1.0535	0.0041	0.4	1.0454	1.0615
Cholelithiasis and other disorders of gallbladder	K80-K82	574-575	1,725	1,803	0.9567	0.0060	0.6	0.9450	0.9685
Nephritis, nephrotic syndrome and nephrosis	N00-N07, N17-N19, N25-N27	580-589	24,939	20,242	1.2320	0.0044	0.4	1.2234	1.2407
Acute and rapidly progressive nephritic and nephrotic syndrome	N00-N01, N04	580-581	161	249	0.6466	0.0342	5.3	0.5796	0.7136
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-V82.1, 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		Estimated comparability ratio	Standard error	Relative standard error	95-percent confidence limits	
			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-V81.9 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	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 ¹	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 ¹	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	292,304,305.2-305.9,E850-E858, 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 ¹	F10,G31.2,G62.1,I42.6,K29.2,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.

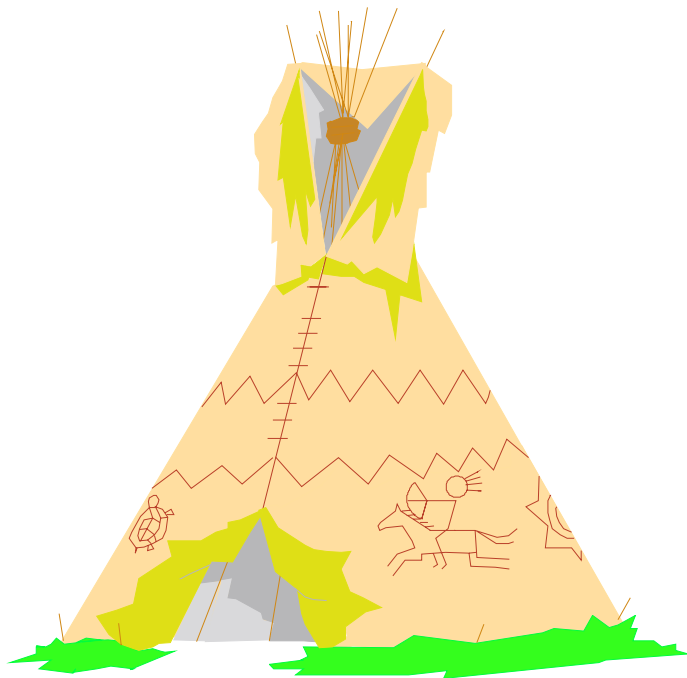
- - - Category not applicable.

0.0 Quantity more than zero but less than 0.05.

¹Included 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

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

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
		07108	FORT McDOWELL INDIAN RESERVATION/NOS
FORT MOHAVE	MOHAVE	08048	FORT MOHAVE
FORT YUMA	YUMA	14023	FORT YUMA
GILA RIVER	MARICOPA	07021	FIREBIRD LAKE
		07103	GILA RIVER INDIAN RESERVATION/NOS
		07104	GILA CROSSING
		07105	SAINT JOHNS
		07106	KOMATKE
		11061/11065	GILA RIVER INDIAN RESERVATION/NOS
	PINAL	11062	BAPCHULE
		11063	BLACKWATER
		11064	CASA BLANCA
		11066	LOWER SANTAN
		11067	OLBERG
		11068	PROGRESSIVE COLONY
		11069	SACATON
		11070	SANTAN
		11071	SOUTH GOODYEAR
11072	STOTONIC		
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

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

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	TSAILLEE
		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

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

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	JEDDITO
		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

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

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

** NOT OTHERWISE SPECIFIED.