

CHAPTER 2

TRENDS AND PATTERNS IN MORTALITY, ARIZONA, 2000-2010

2A. TOTAL MORTALITY

2B. LEADING CAUSES OF DEATH

2C. AGE-SPECIFIC MORTALITY

- **INFANT MORTALITY**
- **CHILDHOOD MORTALITY**
- **ADOLESCENT MORTALITY**
- **YOUNG ADULT MORTALITY**
- **MIDDLE-AGED ADULT MORTALITY**
- **ELDERLY MORTALITY**

2D. PATTERNS OF PREMATURE MORTALITY



2A.

TOTAL MORTALITY

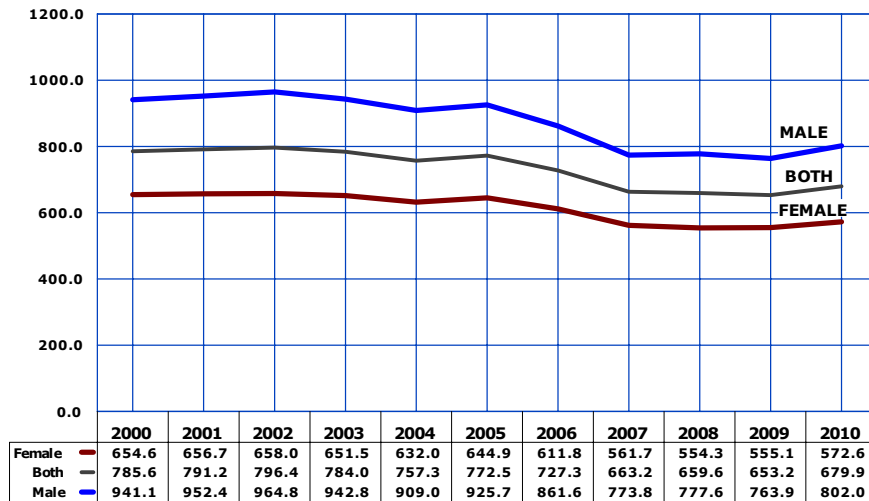
The total number of deaths from all causes among Arizona residents changed relatively little between 2005 and 2010 (**Table 2A-1**). The number of deaths occurring in Arizona (including the deaths of out-of-State residents) slightly increased from 46,429 in 2009 to 47,616 in 2010(**Table 5E-2**).

Neither American Indians nor Hispanics experienced an increase in mortality from 2009 to 2010. Based on age and race/ethnicity, the number of deaths among Hispanic or Latinos aged 15-34 years (the age and ethnic group most likely to be illegally in Arizona) declined by 30.2 percent from 2007 to 2010. Same as last year, we do not think that there was a miraculous improvement in the survival chances among Hispanics or Latinos aged 15-34 years. Rather, there were fewer deaths because the number of illegal Hispanic residents of the State was lower in 2010 than it was in 2007. From 2007 to 2010 the number of deaths decreased by 26.0 percent among infants less than 1 year of age (obviously associated with an unprecedented decrease in the number of live births).

There were fewer deaths in 2010 for some of the leading causes of mortality including diseases of heart, accidents (unintentional injuries), influenza and pneumonia, and septicemia. The causes with the largest increases were diabetes (27.3 percent), homicide (12.2 percent), Alzheimer's disease (10.9 percent), and Parkinson's disease (9.4 percent).

2A. TOTAL MORTALITY

Figure 2A-1
Age-adjusted Mortality Rates for all Causes by Gender and Year, Arizona, 2000-2010



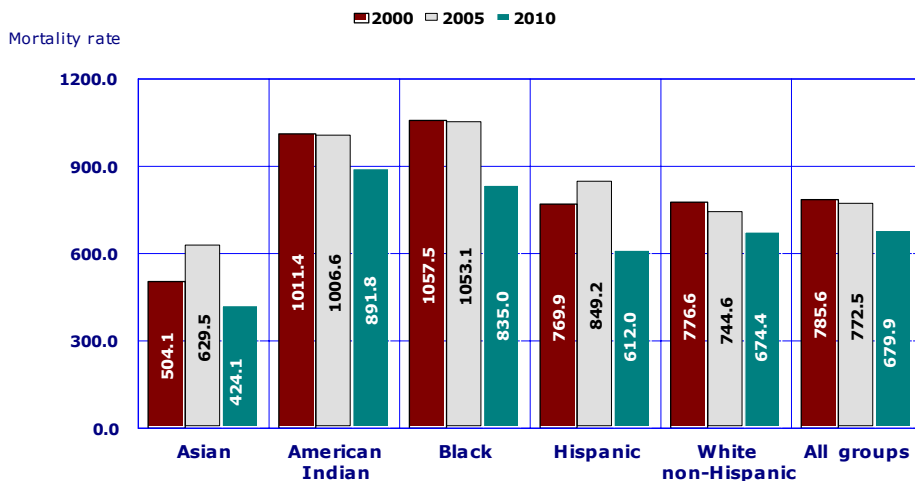
Beginning with the 2000 data year in Arizona, the age-adjusted mortality rates discussed below are based on the year 2000 population standard. The rates prior to 2000 were re-calculated using the new standard. All mortality rates in sections 2A and 2B are age-adjusted. A detailed explanation of the age-adjustment of mortality rates is given in **Technical Notes**.

The total age-adjusted mortality rate increased by 4.1 percent from 653.2 in 2009 to 679.9 in 2010 (**Figure 2A-1, Table 2B-2**). The age-adjusted mortality rates increased for both females and males.

The percent difference between male and female mortality rates slightly narrowed from 44 percent greater mortality rate in 2000 to 40 percent greater in 2010. However, the parallel trend lines (**Figure 2A-1**) do not seem to suggest that the full convergence in mortality risk between males and females is likely to happen anytime soon.

Number of deaths per 100,000 persons (adjusted to the 2000 standard U.S. population).

Figure 2A-2
Age-adjusted Mortality Rates* for all Causes by Race/Ethnicity and Year, Arizona Residents, 2000, 2005 and 2010



The 2010 age-adjusted death rates for the major race/ethnic groups were as follows: for Asian or Pacific Islander, 424.1 deaths per 100,000 population; Hispanic or Latino, 612; White non-Hispanic, 674.4; Black or African American, 835.0 and American Indian or Alaska Native, 891.8 (**Figure 2A-2, Table 2B-4**).

In 2010, as in 2005 and 2000, Blacks and American Indians had higher total mortality rates than White non-Hispanics, Hispanics and Asians. In contrast, the total mortality rates for Asians were lower than the rates of White non-Hispanics in 2000, 2005 and 2010.

Number of deaths per 100,000 population age-adjusted to the 2000 standard U.S.

2A. TOTAL MORTALITY

Figure 2A-3
Percent Annual Deaths by Month of Occurrence and Residence Status, Arizona, 2010

If there was no monthly variation in proportional contribution to the annual deaths total, 8.3 percent (100/12) of deaths should occur monthly. However, when the monthly distribution of resident deaths is examined, December (9.3 percent of annual deaths) and March (8.9 percent each) deviated higher in 2010 from the expected value (**Figure 2A-3**). February, June, and September were the three months with the lowest proportional contributions to the annual death total among Arizona residents.

The majority of the 2,098 non-residents who died in Arizona during 2010 did so during January, February, March, and April. September was the month with the lowest proportional contribution (5.1 percent) to the annual death total among out-of-State residents who died in Arizona.

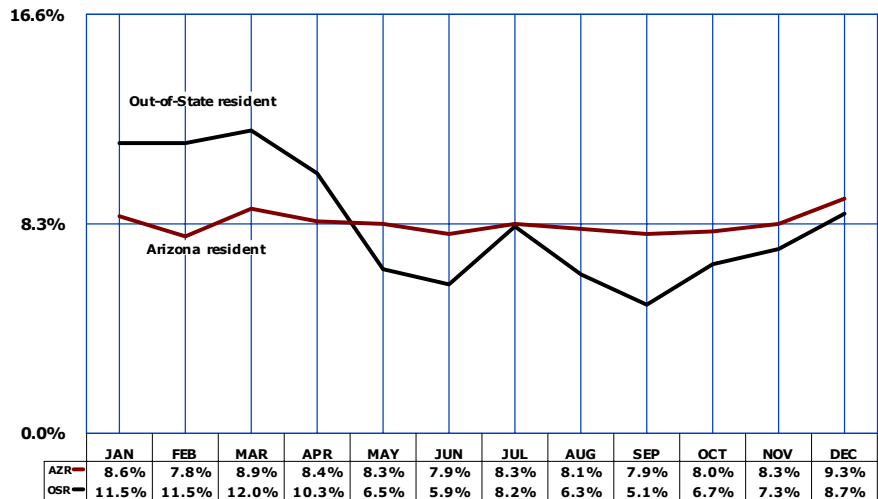
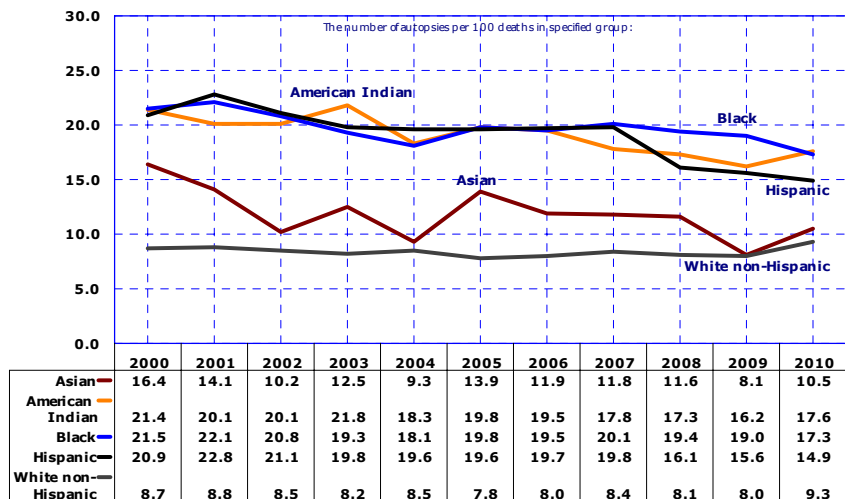


Figure 2A-4
Percentage of Deaths for which Autopsies were Reported by Race/Ethnicity and Year, Arizona Residents, 2000-2010

Autopsies were reported as performed on 4,263 decedents, or 9.3 percent of the deaths that occurred among Arizona residents in 2010. In 2000 - 2010, the percentage of deaths for which autopsies were reported varied from a high of 11.2 percent in 2001 to a low of 9.3 percent in 2010.

The percentage autopsied varies by the decedent's demographic characteristics. By race/ethnicity (**Figure 2A-4**) the percentage autopsied was lower for the White non-Hispanic population than for other groups. The prevalence of autopsies was substantially greater among Black, American Indian and Hispanic or Latino, sub-populations. A substantial portion of the differential in the use of autopsy by race/ethnicity reflects differences in the age and manner of death. For example, autopsies tend to be more common at younger ages and for homicide, suicide, accidents, and undetermined manner.



**TABLE 2A-1
NUMBER OF DEATHS BY RACE/ETHNICITY, GENDER AND YEAR, ARIZONA RESIDENTS, 2000-2010**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
TOTAL											
Total	40,202	40,851	42,320	42,830	42,736	45,115	45,415	44,640	45,128	45,065	45,871
Male	21,080	21,480	22,317	22,452	22,400	23,614	23,658	23,321	23,744	23,535	24,163
Female	19,122	19,371	20,003	20,378	20,336	21,501	21,757	21,319	21,384	21,530	21,708
White non-Hispanic											
Total	33,111	33,443	34,845	34,906	34,813	36,558	36,952	35,805	36,235	35,829	36,066
Male	17,063	17,250	17,946	17,972	17,916	18,723	18,711	18,339	18,758	18,476	18,693
Female	16,048	16,193	16,899	16,934	16,897	17,835	18,241	17,466	17,477	17,353	17,373
Hispanic or Latino											
Total	4,207	4,415	4,670	4,914	5,009	5,323	5,284	5,496	5,313	5,401	5,374
Male	2,394	2,560	2,750	2,812	2,874	3,115	3,114	3,146	2,996	2,978	2,959
Female	1,813	1,855	1,920	2,102	2,135	2,208	2,170	2,350	2,317	2,423	2,415
Black or African American											
Total	1,002	1,045	950	1,138	1,095	1,173	1,274	1,276	1,295	1,334	1,336
Male	556	567	557	623	598	623	754	695	712	697	735
Female	446	478	393	515	497	550	520	581	583	637	601
American Indian or Alaska Native											
Total	1,524	1,562	1,536	1,527	1,402	1,651	1,543	1,661	1,722	1,871	1,781
Male	875	897	884	864	780	929	901	950	981	1,028	1,015
Female	649	665	652	663	622	722	642	711	741	843	766
Asian or Pacific Islander											
Total	263	292	264	289	300	338	336	365	449	469	487
Male	126	139	142	129	145	172	164	168	230	241	258
Female	137	153	122	160	155	166	172	197	219	228	229
Unspecified other or unknown race											
Total	95	94	55	56	117	72	26	37	114	161	827
Male	66	67	38	52	87	52	14	23	67	115	503
Female	29	27	17	4	30	20	12	14	47	46	324

**TABLE 2A-2
RESIDENT MORTALITY BY MONTH OF OCCURRENCE AND YEAR, ARIZONA, 2000-2010**

Month of death	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	JAN	Count 4,062 10.1%	Count 3,595 8.8%	Count 3,811 9.0%	Count 3,809 8.9%	Count 4,015 9.4%	Count 3,933 8.7%	Count 4,640 10.2%	Count 4,213 9.4%	Count 4,149 9.2%	Count 3,983 8.8%
FEB	Count 3,503 8.7%	Count 3,419 8.4%	Count 3,873 9.2%	Count 3,430 8.0%	Count 3,671 8.6%	Count 3,472 7.7%	Count 4,013 8.8%	Count 3,726 8.3%	Count 4,059 9.0%	Count 3,592 8.0%	Count 3,582 7.8%
MAR	Count 3,505 8.7%	Count 3,685 9.0%	Count 4,148 9.8%	Count 3,817 8.9%	Count 3,834 9.0%	Count 3,992 8.8%	Count 4,124 9.1%	Count 4,062 9.1%	Count 4,426 9.8%	Count 3,954 8.8%	Count 4,084 8.9%
APR	Count 3,266 8.1%	Count 3,408 8.3%	Count 3,550 8.4%	Count 3,599 8.4%	Count 3,456 8.1%	Count 3,972 8.8%	Count 3,765 8.3%	Count 3,781 8.5%	Count 3,949 8.8%	Count 3,945 8.8%	Count 3,845 8.4%
MAY	Count 3,276 8.1%	Count 3,386 8.3%	Count 3,450 8.2%	Count 3,705 8.7%	Count 3,627 8.5%	Count 3,992 8.8%	Count 3,729 8.2%	Count 3,656 8.2%	Count 3,754 8.3%	Count 3,699 8.2%	Count 3,811 8.3%
JUN	Count 3,005 7.5%	Count 3,278 8.0%	Count 3,298 7.8%	Count 3,337 7.8%	Count 3,333 7.8%	Count 3,514 7.8%	Count 3,489 7.7%	Count 3,427 7.7%	Count 3,542 7.8%	Count 3,500 7.8%	Count 3,651 8.0%
JUL	Count 3,130 7.8%	Count 3,312 8.1%	Count 3,270 7.7%	Count 3,331 7.8%	Count 3,456 8.1%	Count 3,591 8.0%	Count 3,630 8.0%	Count 3,636 8.1%	Count 3,467 7.7%	Count 3,741 8.3%	Count 3,843 8.4%
AUG	Count 3,127 7.8%	Count 3,242 7.9%	Count 3,221 7.6%	Count 3,398 7.9%	Count 3,442 8.1%	Count 3,571 7.9%	Count 3,417 7.5%	Count 3,466 7.8%	Count 3,512 7.8%	Count 3,617 8.0%	Count 3,756 8.2%
SEP	Count 3,185 7.9%	Count 3,186 7.8%	Count 3,225 7.6%	Count 3,335 7.8%	Count 3,262 7.6%	Count 3,414 7.6%	Count 3,414 7.5%	Count 3,554 8.0%	Count 3,279 7.3%	Count 3,604 8.0%	Count 3,633 7.9%
OCT	Count 3,276 8.1%	Count 3,351 8.2%	Count 3,496 8.3%	Count 3,425 8.0%	Count 3,461 8.1%	Count 3,524 7.8%	Count 3,767 8.3%	Count 3,651 8.2%	Count 3,636 8.1%	Count 3,739 8.3%	Count 3,678 8.0%
NOV	Count 3,350 8.3%	Count 3,289 8.1%	Count 3,377 8.0%	Count 3,439 8.0%	Count 3,344 7.8%	Count 3,608 8.0%	Count 3,527 7.8%	Count 3,608 8.1%	Count 3,519 7.8%	Count 3,694 8.2%	Count 3,806 8.3%
DEC	Count 3,517 8.7%	Count 3,700 9.1%	Count 3,601 8.5%	Count 4,205 9.8%	Count 3,835 9.0%	Count 4,532 10.0%	Count 3,900 8.6%	Count 3,860 8.6%	Count 3,836 8.5%	Count 3,997 8.9%	Count 4,232 9.2%
TOTAL	Count 40,202 100.0%	Count 40,851 100.0%	Count 43,320 100.0%	Count 42,830 100.0%	Count 42,736 100.0%	Count 45,115 100.0%	Count 45,415 100.0%	Count 44,640 100.0%	Count 45,128 100.0%	Count 45,065 100.0%	Count 45,871 100.0%

**TABLE 2A-3
DEATHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2010**

Day of death	Month of death												Total
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	121	124	130	146	124	145	140	120	113	120	122	155	1,560
2	139	121	121	139	126	118	124	113	122	107	128	171	1,529
3	132	117	132	138	111	121	115	109	119	112	123	141	1,470
4	117	131	132	126	129	125	119	123	133	104	117	126	1,482
5	149	114	141	141	126	137	126	127	133	121	131	158	1,604
6	119	137	150	127	104	116	132	130	124	126	123	128	1,516
7	126	113	129	117	124	114	147	136	129	123	102	127	1,487
8	140	116	126	151	116	121	127	103	123	99	128	109	1,459
9	162	144	137	122	125	133	110	107	115	119	136	134	1,544
10	150	130	126	139	133	129	131	104	112	108	116	145	1,523
11	135	117	129	120	126	107	138	117	108	109	139	153	1,498
12	125	139	121	137	114	139	109	119	134	109	130	136	1,512
13	117	127	160	137	117	112	130	128	130	113	153	141	1,565
14	121	121	130	122	136	114	115	126	99	123	118	121	1,446
15	120	142	117	147	128	123	106	129	125	126	125	113	1,501
16	135	130	139	131	119	106	143	116	124	134	134	131	1,542
17	140	117	140	122	112	128	126	125	114	119	137	164	1,544
18	110	156	151	114	135	131	131	116	108	100	125	120	1,497
19	121	145	115	137	142	129	149	120	144	126	120	143	1,591
20	120	128	128	126	115	115	122	143	120	134	135	124	1,510
21	122	124	138	130	115	131	115	108	102	120	117	117	1,439
22	111	130	121	112	105	106	107	125	119	135	131	152	1,454
23	121	116	115	104	131	100	138	117	114	124	112	154	1,446
24	128	139	122	124	143	107	125	134	136	116	130	152	1,556
25	120	142	128	118	120	125	109	152	130	138	150	126	1,558
26	126	113	150	126	123	117	117	110	137	124	118	136	1,497
27	123	125	128	115	132	126	126	109	124	116	131	132	1,487
28	131	124	142	126	112	125	130	117	123	124	130	115	1,499
29	125		135	122	110	121	130	145	109	110	115	121	1,343
30	99		113	129	109	130	88	107	110	122	130	160	1,297
31	145		138		149		118	121		117		127	915
Total	3,950	3,582	4,084	3,845	3,811	3,651	3,843	3,756	3,633	3,678	3,806	4,232	45,871

**TABLE 2A-4
AGE-SPECIFIC MORTALITY BY PLACE OF DEATH AND DECEDENT STATUS, ARIZONA, 2010**

	Age											Total					
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+		Un- known				
IN HOSPITAL																	
In-patient	384	48	38	126	204	362	897	1,667	2,178	2,594	1,855	0	10,353				
Out-patient*	78	41	39	125	162	182	377	462	450	445	271	1	2,633				
Died on arrival	2	1	0	5	4	8	8	12	5	8	11	0	64				
Status unknown	41	16	28	148	296	457	1,212	2,015	2,588	3,411	3,252	1	13,465				
Subtotal	505	106	105	404	666	1,009	2,494	4,156	5,221	6,458	5,389	2	26,515				
NOT IN HOSPITAL																	
Nursing home**	8	2	4	19	45	118	453	1,053	1,704	2,750	3,132	0	9,288				
Residence	0	0	0	1	7	19	88	245	552	1,438	2,854	0	5,204				
Other***	5	9	12	202	258	226	325	329	347	939	1,893	5	4,550				
Unspecified	1	0	2	16	11	15	26	43	61	73	65	1	314				
Subtotal	14	11	18	238	321	378	892	1,670	2,664	5,200	7,944	6	19,356				
TOTAL	519	117	123	642	987	1,387	3,386	5,826	7,885	11,658	13,333	8	45,871				

* Includes Emergency Room.

** Includes other long-term care facilities.

*** Includes hospices.



2B.

LEADING CAUSES OF DEATH

In 2010, the Office of Vital Records (OVR) of the Arizona Department of Health Services has implemented, for the first time since 1989, the new (2003) Standard U.S. death certificate. The new certificate added several new questions: 1) whether tobacco use contributed to the death, 2) whether, if the decedent was a female, the death was "pregnancy-associated" (defined as death from any cause during pregnancy or within one calendar year of delivery or pregnancy termination).

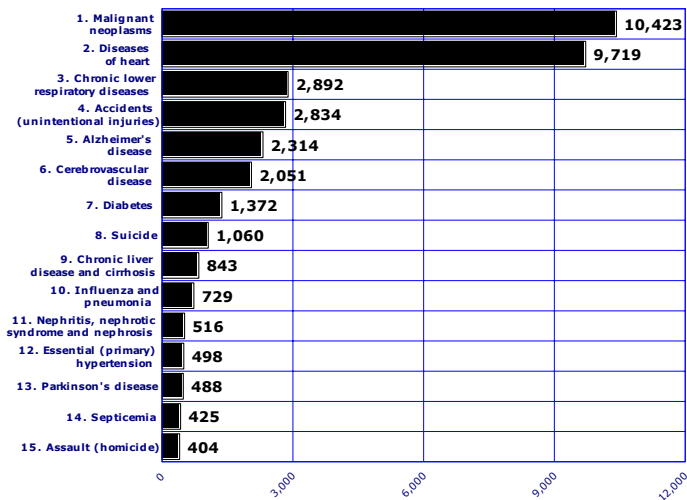
The death certificate now includes a new classification of the decedent's race/ethnic status, consistent with the revised federal standards for collecting and reporting racial and ethnic status. These standards were published in the Federal Register on October 30, 1997, as "Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity". The revised standards are available on the OMB (the Office of Management and Budget) web-site at: <http://www.whitehouse.gov/omb/fedreg/ombdir15.html>

There are now 15 racial categories (including Guamanian or Chamorro; Samoan or Native Hawaiian) to choose from. It is also permitted to indicate more than one race for a decedent. In 2010, among the 45,871 deaths of Arizona residents, indication of "two or more races" appeared on only 259 certificates. The total number of deaths for decedents identified as Native Hawaiian was 10. Five (5) Samoan residents of the State died in 2010. These frequency counts are not large enough to compute statistically reliable mortality rates. They are certainly not large enough for any comparison of the top ten or fifteen leading causes of death.

2B. LEADING CAUSES OF DEATH

Figure 2B-1A
Leading Causes of Death among Arizona Residents in 2010

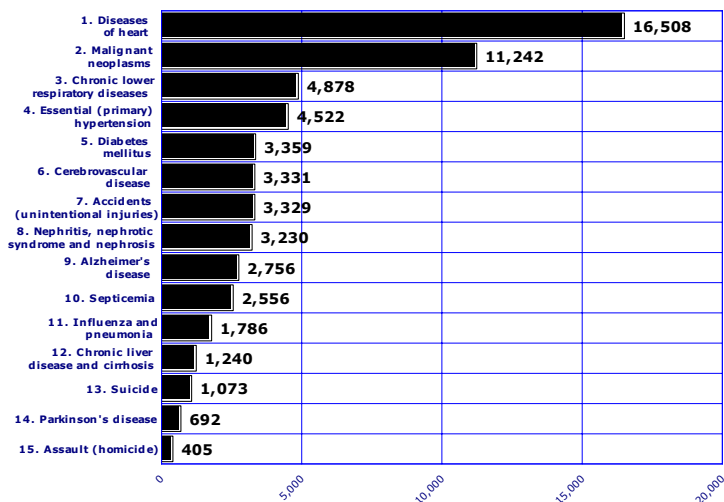
BASED ON THE NUMBER OF DEATHS DUE TO THE UNDERLYING CAUSE:



Based on the number of deaths (but not age-adjusted mortality rate), the leading underlying cause of death to Arizona residents in 2010 was cancer (10,423 or 22.7 percent of all deaths), followed by heart disease, which accounted for 9,719 or 21.2 percent of deaths (**Figure 2B-1A, Table 2B-1, Table 5E-14**). The third leading cause of death, *chronic lower respiratory diseases* accounted for 2,892 or 6.3 percent of total deaths. Deaths due to *accidents (unintentional injuries)* ranked fourth in 2010, with 2,834 resident deaths reported. Deaths due to *Alzheimer's disease* ranked fifth in 2010, with 2,314 resident deaths reported. Together, these five causes accounted for 61.4 percent of total deaths in 2010. The fifteen leading causes accounted for 79.7 percent of all deaths among Arizona residents.

Figure 2B-1B
Leading Causes of Death among Arizona Residents in 2010

BASED ON THE NUMBER OF DEATHS DUE TO ANY MENTION OF A CAUSE:



For the purpose of mortality statistics, every death is attributed to one underlying condition or underlying cause of death. The underlying cause is defined as the disease or injury that initiated the chain of events leading directly to death. It is selected from up to 20 causes and conditions entered by the physician on the death certificate. The totality of all these conditions is known as multiple cause of death.

In addition to 9,719 deaths that had diseases of the heart assigned as the underlying cause, another 6,789 deaths had diseases of the heart assigned as the other than underlying cause. The sum of these two counts (16,508, **Figure 2B-1B**) is the total number of deaths that had any mention of diseases of the heart on the 2010 death certificates. The ranking based on any mention of the 15 diagnostic categories is different from ranking of the leading causes of death based on the underlying cause. In particular, essential (primary) hypertension ranked 12th as the underlying cause but ranked 4th when any mention of it is counted.

2B. LEADING CAUSES OF DEATH
Five Leading Causes by Gender

It is important to note that (Figures 2B-2, 2B-3, 2B-4, and 2B-5) are based on the age-adjusted mortality rates and not on the number of deaths.

In 2010, diseases of the heart were the leading cause of death for American Indians. Cancer was the number one cause of death for Asians or Pacific Islanders, Blacks or African Americans, Hispanic or Latinos, and White non-Hispanics (Figure 2B-2, Table 2B-4). Unintentional injury was the third leading cause of death only for American Indians. For Asians, Alzheimer's disease was the 3rd leading cause of death in 2010. It was the fifth leading cause for Blacks and White non-Hispanics. Diabetes was among the top five causes of death among American Indians, Blacks and Hispanics, but not among Asians or White non-Hispanics (Table 2B-4).

Chronic liver disease and cirrhosis was the fifth leading cause of death specific to American Indians. Chronic lower respiratory diseases were the third leading cause of death specific to White non-Hispanics.

Figure 2B-2
Age-adjusted* Mortality Rates for the Five Leading Causes of Death for Both Genders by Race/Ethnicity, Arizona, 2010

Rank	Asian or Pacific Islander	American Indian or Alaska Native	Black or African American	Hispanic or Latino	White non-Hispanic
1	Cancer 96.2	Diseases of heart 135.9	Cancer 182.6	Cancer 126.2	Cancer 155.6
2	Diseases of heart 86.8	Cancer 106.4	Diseases of heart 177.7	Diseases of heart 121.3	Diseases of heart 145.4
3	Alzheimer's disease 32.2	Unintentional injury 99.2	Stroke 53.5	Diabetes 37.3	Chronic lower respiratory diseases 47.1
4	Stroke 26.0	Diabetes 79.3	Diabetes 50.0	Stroke 35.1	Unintentional injury 45.5
5	Unintentional injury 24.6	Chronic liver disease and cirrhosis 64.6	Alzheimer's disease 46.7	Unintentional injury 33.7	Alzheimer's disease 35.5

Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Figure 2B-3
Age-adjusted* Mortality Rates for the Five Leading Causes of Death by Race/Ethnicity among Females, Arizona, 2010

Except American Indians, cancer, not diseases of the heart, was the number one cause of death among females in all other race/ethnic groups (Figure 2B-3, Table 2B-4). Diseases of the heart were the 2nd leading cause of female mortality among Asians, Blacks, Hispanics or Latinos, and White non-Hispanic females. Stroke was the 3rd leading cause of mortality among Black or African American, 4th among Hispanic and 5th among Asian females. Chronic liver disease and cirrhosis was the fourth leading cause of death specific to American Indian females. Chronic lower respiratory diseases were the third leading cause of death specific to White non-Hispanic females.

Rank	Asian or Pacific Islander	American Indian or Alaska Native	Black or African American	Hispanic or Latino	White non-Hispanic
1	Cancer 74.2	Diseases of heart 108.1	Cancer 144.8	Cancer 110.6	Cancer 131.6
2	Diseases of heart 60.0	Cancer 86.6	Diseases of heart 133.9	Diseases of heart 99.5	Diseases of heart 113.7
3	Alzheimer's disease 36.9	Diabetes 76.9	Stroke 58.1	Alzheimer's disease 35.1	Chronic lower respiratory diseases 43.4
4	Unintentional injury 23.9	Chronic liver disease and cirrhosis 64.9	Diabetes 45.5	Stroke 34.6	Alzheimer's disease 40.0
5	Stroke 21.7	Unintentional injury 55.4	Alzheimer's disease 44.6	Diabetes 31.4	Unintentional injury 33.3

Number of deaths per 100,000 population to the 2000 U.S. standard.

**2B. LEADING CAUSES OF DEATH
Five Leading Causes by Gender**

**Figure 2B-4
Age-adjusted* Mortality Rates for the Five Leading Causes of Death
by Race/Ethnicity among Males, Arizona, 2010**

Rank	Asian or Pacific Islander	American Indian or Alaska Native	Black or African American	Hispanic or Latino	White non-Hispanic
1	Cancer 130.7	Diseases of heart 169.5	Diseases of heart 233.6	Diseases of heart 149.0	Cancer 185.8
2	Diseases of heart 128.1	Unintentional injury 148.9	Cancer 231.0	Cancer 148.8	Diseases of heart 181.9
3	Stroke 30.7	Cancer 137.8	Diabetes 56.8	Unintentional injury 45.3	Unintentional injury 58.0
4	Chronic lower respiratory diseases 29.5	Diabetes 80.6	Alzheimer's disease 55.4	Diabetes 45.0	Chronic lower respiratory diseases 52.2
5	Unintentional injury 24.9	Chronic liver disease and cirrhosis 63.9	Unintentional injury 42.3	Stroke 34.8	Intentional self-harm (suicide) 32.8

Diseases of the heart followed by cancer were the two leading causes of death among Black and Hispanic, males (**Figure 2B-4; Table 2B-4**). Cancer was the first leading cause of death among Asian or Pacific Islander and White non-Hispanic males, followed by diseases of the heart.

Chronic lower respiratory diseases were the 4th leading cause of death for Asian and White non-Hispanic males.

In 2010, based on the age-adjusted mortality rates, diabetes was among the five leading causes of death for American Indian, Black or African American and Hispanic males.

*Number of deaths per 100,000 population to the 2000 U.S. standard.

**Figure 2B-5
Age-adjusted* Mortality Rates for the Five Leading Causes of Death
by Gender in Urban** and Rural Areas, Arizona, 2010**

Rank	Urban male	Urban female	Rural male	Rural female
1	Cancer 176.8	Cancer 125.6	Diseases of heart 201.1	Cancer 132.6
2	Diseases of heart 173.5	Diseases of heart 110.3	Cancer 193.7	Diseases of heart 119.3
3	Unintentional injury 51.7	Alzheimer's disease 41.2	Unintentional injury 78.7	Chronic lower respiratory diseases 41.0
4	Chronic lower respiratory diseases 46.8	Chronic lower respiratory diseases 38.0	Chronic lower respiratory diseases 51.9	Unintentional injury 35.6
5	Alzheimer's disease 30.8	Unintentional injury 31.0	Intentional self-harm (suicide) 38.7	Stroke 34.4

In 2010, the profile of the leading causes of death differed by gender for the residents of the urban (Maricopa, Pima, Pinal, and Yuma counties) and rural (all the remaining counties) areas of the State (**Figure 2B-5, Table 2B-5**). For both urban and rural females cancer followed by diseases of the heart were the two leading causes of death. Cancer exceeded diseases of the heart as the leading cause of death among rural females but not rural males. Alzheimer's disease was the third leading cause of death among urban females. Suicide was the 5th leading cause of death specific to rural males.

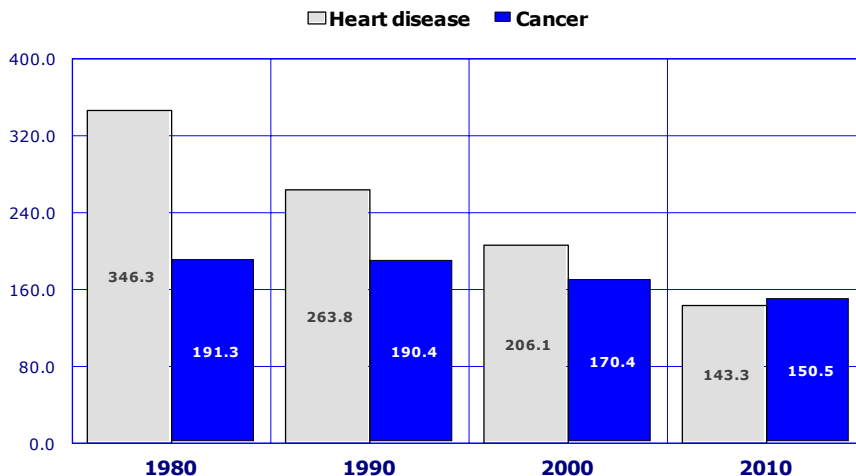
Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.
**Urban = Maricopa, Pima, Pinal and Yuma counties. The remaining counties comprise Arizona's rural areas.

2B. LEADING CAUSES OF DEATH
Diseases of heart and malignant neoplasm (cancer)

Figure 2B-6
Comparison of Age-adjusted* Mortality Rates for Heart Disease and Cancer
(Malignant Neoplasm), Arizona, 1980, 1990, 2000 and 2010

The age-adjusted mortality rate for diseases of the heart decreased by 58.6 percent from 346.3 deaths per 100,000 population in 1980 to 143.3/100,000 in 2010 (**Figure 2B-6**). The age-adjusted mortality rate for cancer declined substantially less by 21.3 percent during 1980-2010. In Arizona, the relative risk of death from the two leading causes changed from 81 percent greater for heart disease in 1980 to 5.0 percent greater for cancer in 2010.

In 2000, 1,436 more Arizonans died from diseases of the heart than cancer (**Table 2B-1**). In 2010, the number of deaths from cancer exceeded the number of heart disease deaths by 704 (**Table 2B-4**).

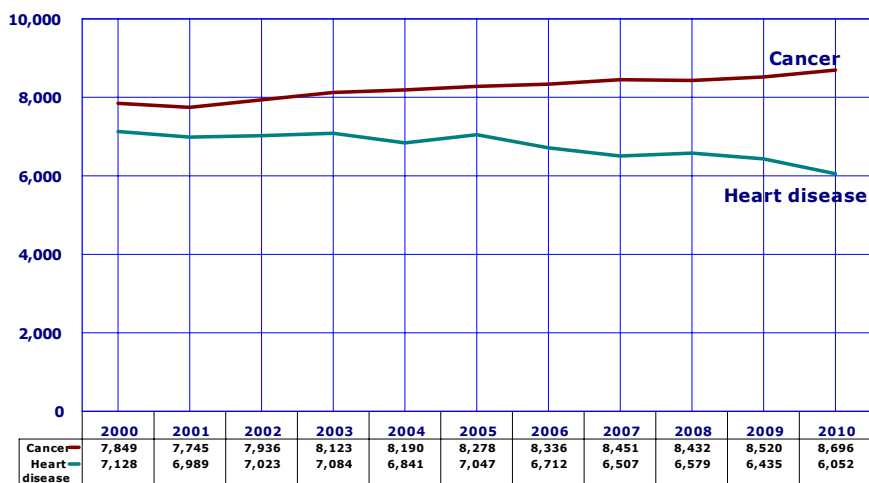


*Adjusted to the 2000 standard U.S. population.

Figure 2B-7
Number of Deaths from Heart Disease and Cancer among
Arizonans 0-84 Years, 2000-2010

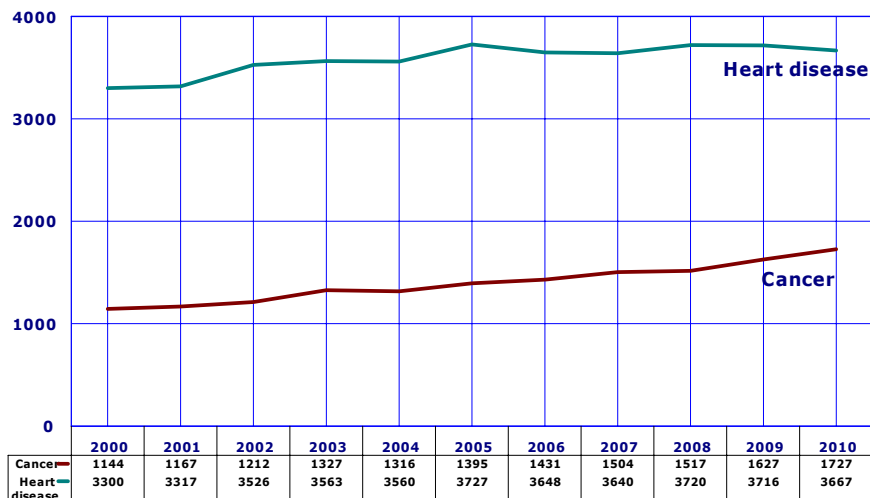
The prediction, that "in the early 21st century cancer would displace heart disease as the leading cause of death", was originally published in the 1990 edition of the *Arizona Health Status and Vital Statistics* report (p.90).

In fact, for the past several years cancer has already been the number one cause of death among Arizonans aged 0-84 years (**Figure 2B-7**). Beginning in 1996, the annual number of cancer deaths exceeded the number of deaths from heart disease. In 2010, 2,644 more Arizonans 0-84 years old died from cancer (8,696) than heart disease (6,052).



2B. LEADING CAUSES OF DEATH
Diseases of heart and malignant neoplasm (cancer)

Figure 2B-8
Deaths from Heart Disease and Cancer among Arizonans 85+, 2000-2010

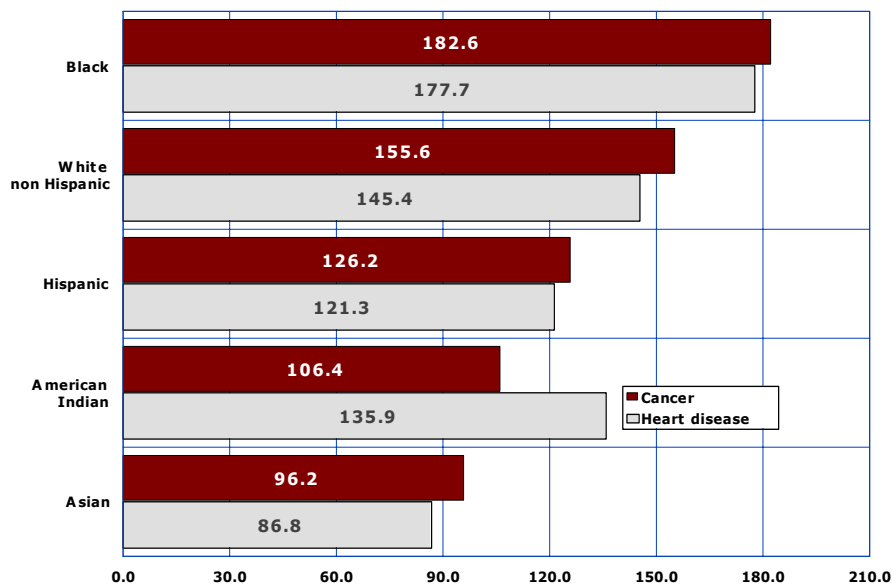


It is only among the oldest, 85 or older, that heart disease continues to be the number one cause of death (**Figure 2B-8**). In 2010, the elderly aged 85 years or older accounted for 16.6 percent of all deaths from cancer but 37.7 percent of all deaths from heart disease. In 2010, the median age at death from heart disease was 81 years (**Table 2D-3**) and only a minority of deaths (44.6 percent, **Table 2D-4**) was premature, i.e., before reaching the expected years of life at birth for all U.S. residents.

However, from 2000 to 2010, the number of deaths from cancer increased by 51.0 percent among Arizonans 85 years or older, a 4.6 times greater increase than the one seen for diseases of the heart (a 11.1 percent increase).

Note: there is more information available in our special online report "**Heart Disease vs. Cancer: An Epidemiologic Transition in Mortality Risks, Arizona residents, 1990-2008**". This publication can be accessed at <http://www.azdhs.gov/plan/report/epitrans/index.htm>

Figure 2B-9
Age-adjusted Mortality Rates for Heart Disease and Cancer by Race/Ethnicity, Arizona, 2010



Arizona's Blacks were 2 times more likely to die from diseases of the heart and 1.9 times more likely to die from malignant neoplasms in 2010 than Asians, the group at the lowest risk of both heart disease and cancer death among race/ethnic groups (**Figure 2B-9**, **Table 2B-4**).

Among Asians, White non-Hispanics, and Hispanics or Latinos the relative risk of death from cancer exceeded the mortality risk of death from heart disease in 2010 (**Table 2B-3**).

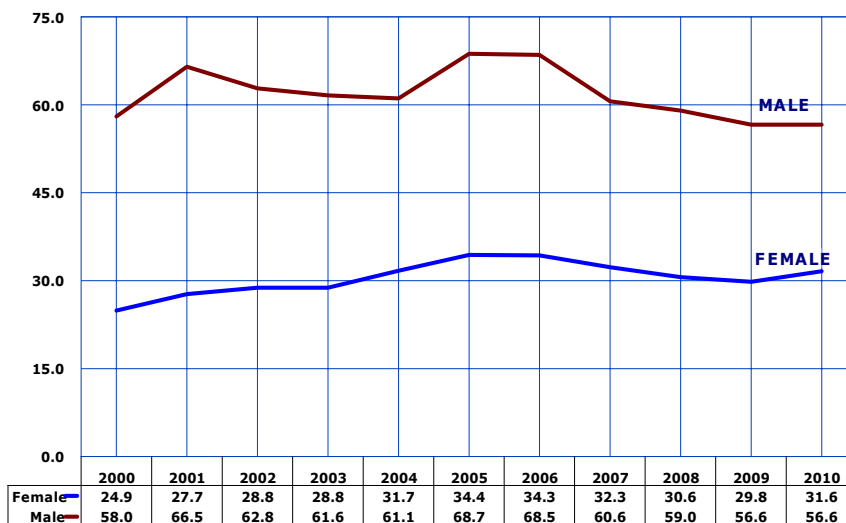
Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH
Accidents (unintentional injury)

The number of deaths from unintentional injuries decreased by 10.2 percent from a recent peak of 3,156 in 2006 to 2,834 in 2010 (**Table 2B-1**). In 2010, based on age-adjusted mortality rates, accidents ranked third as a leading cause of death for males and sixth for females (**Table 2B-4**). From 2009 to 2010 the age-adjusted mortality rate for accidents remained unchanged for males and it increased by 6.0 percent for females (**Figure 2B-10**).

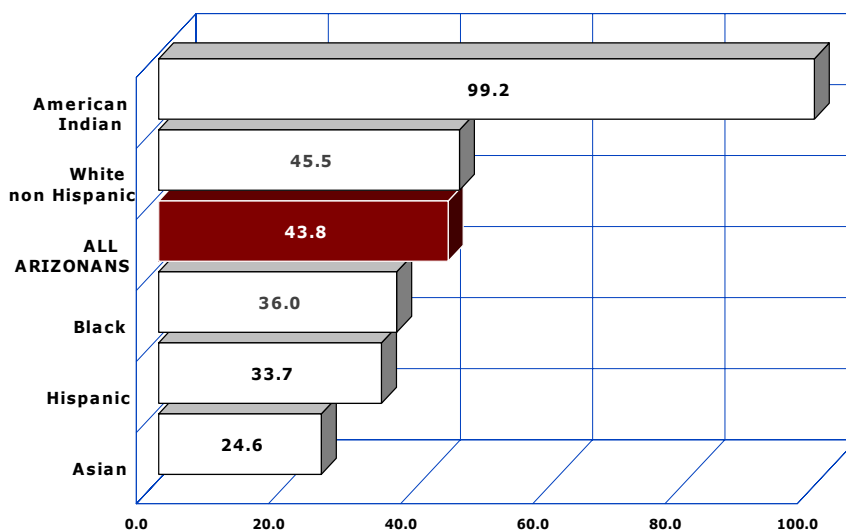
In 2010, the number of deaths in motor vehicle accidents declined to 711, the lowest annual number of deaths since 1991. (Due to high unemployment and high gas prices there were, arguably, fewer drivers on Arizona roads, and less driving). In contrast, Arizonans experienced, particularly, a large increase in the number of accidental drug poisoning/overdoses. They increased from 414 deaths in 2001 to 798 deaths in 2010. Both in 2009 and 2010, the number of deaths from accidental poisoning by drugs exceeded the number of deaths from motor vehicle-related injuries (**Table 2B-9**).

Figure 2B-10
Age-adjusted Mortality Rates for Accidents (unintentional injuries) by Gender and Year, Arizona, 2000-2010



Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Figure 2B-11
Age-adjusted Mortality Rates for Accidents (unintentional injuries) by Race/Ethnicity, Arizona, 2010



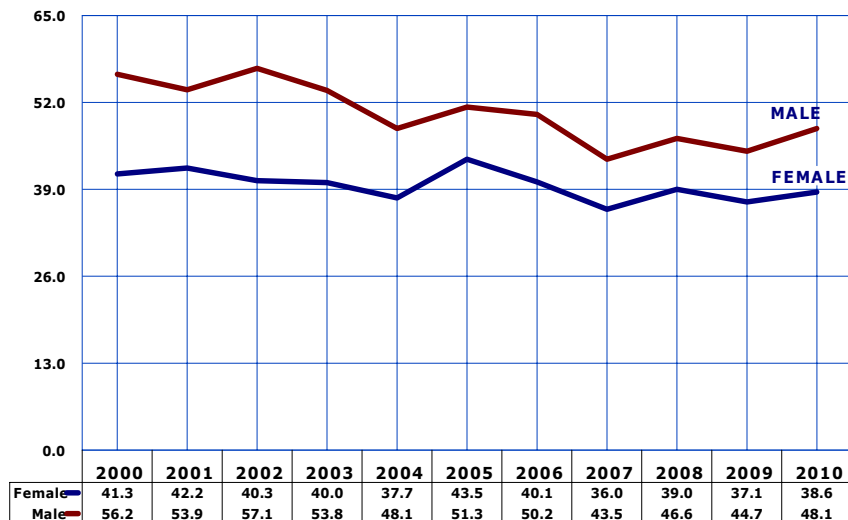
Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

The American Indian death rate for unintentional injuries (99.2/100,000) was 4 times greater than the rate for Asians (24.6/100,000), the group at the lowest risk of unintentional injury death among race/ethnic groups in the State (**Figure 2B-11, Table 2B-4**).

In 2010, Apache (92.7/100,000) and Greenlee (87.9/100,000) counties had the two highest age-adjusted mortality rates for unintentional injuries (**Table 5E-11**).

2B. LEADING CAUSES OF DEATH
Chronic lower respiratory diseases

Figure 2B-12
Age-adjusted Mortality Rates for Chronic Lower* Respiratory Diseases by Gender and Year, Arizona, 2000-2010

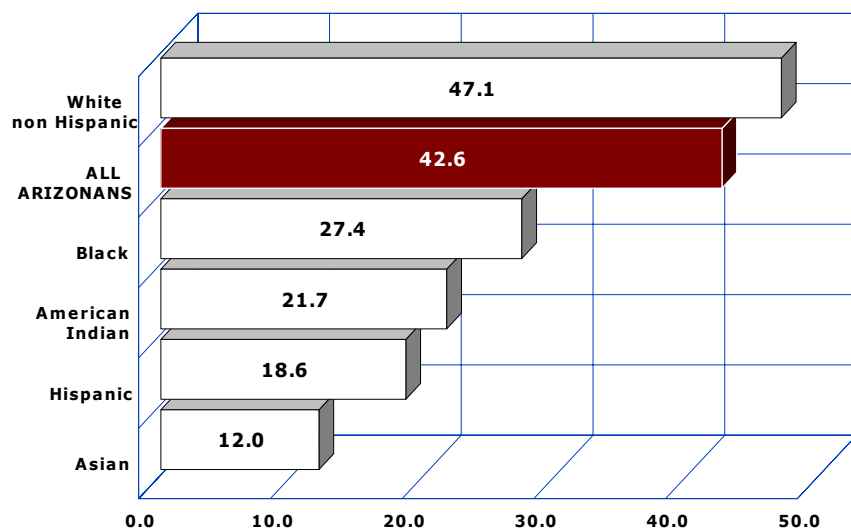


In 2010, chronic lower respiratory diseases (bronchitis, emphysema, asthma) were the 3rd leading cause of death among Arizona residents (**Table 2B-1**). From 2009 to 2010, the mortality rates for chronic lower respiratory diseases (CLRD) increased for both genders (**Figure 2B-12, Table 2B-2**).

Urban females had the lowest mortality rate for CLRD (38.0/100,000) among the gender by region groups (**Table 2B-5**). Rural males, the group with the highest mortality risk for CLRD (51.9/100,000), were 10.9 percent more likely in 2010 to die from this cause than urban males (46.8 deaths per 100,000).

The number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.
*This ICD-10 title corresponds to Chronic Obstructive Pulmonary Disease (ICD-9 title)

Figure 2B-13
Age-adjusted Mortality Rates for Chronic Lower Respiratory Diseases by Race/Ethnicity, Arizona, 2010



Death rates for emphysema, chronic bronchitis, asthma and other lower respiratory disorders were substantially higher among White non-Hispanics (47.1 deaths per 100,000) than they were among Blacks or African American (27.4/100,000), American Indians (21.7/100,00) and Asians (12.0/100,000); **Figure 2B-13, Table 2B-4**).

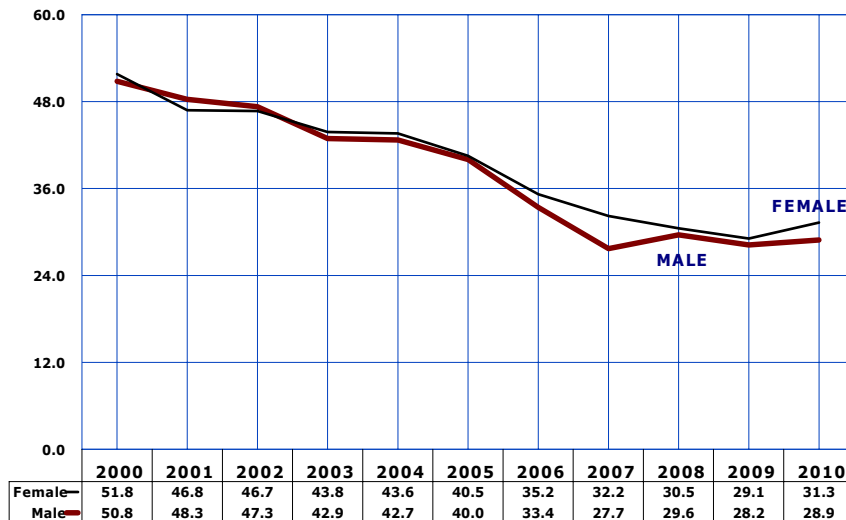
Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH
Cerebrovascular disease

Figure 2B-14
Age-adjusted Mortality Rates for Cerebrovascular Disease by Gender and Year, Arizona, 2000-2010

Cerebrovascular disease and diseases of the heart are two of the leading causes of death that share many risk factors such as hypertension, smoking, obesity and high levels of cholesterol. The age-adjusted mortality rate for stroke decreased by 40.6 percent from 51.7 deaths per 100,000 population in 2000 to 30.7/100,000 in 2010 (Table 2B-3).

In 2010, the number of deaths from cerebrovascular disease was greater among females (1,212) than males (839, Table 2B-4). Females remained at greater risk than males to die from a stroke in 2003-2010, as they were in 2000 (Figure 2B-14). In 2010 the age-adjusted mortality rates for stroke increased for both males and females (Figure 2B-14, Table 2B-2).

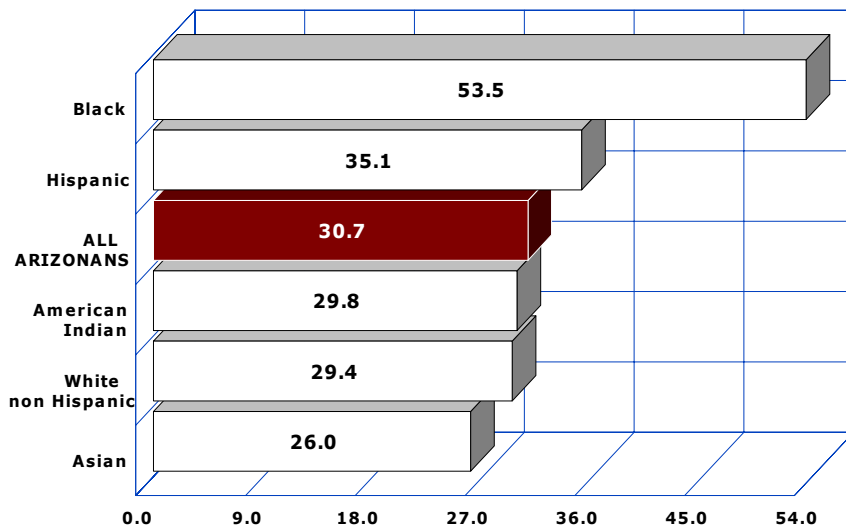


Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Figure 2B-15
Age-adjusted Mortality Rates for Cerebrovascular Disease by Race/Ethnicity, Arizona, 2010

Compared to Arizona's rate, Blacks or African Americans were 74.3 percent more likely to die from cerebrovascular disease in 2010 (Figure 2B-15, Table 2B-4). The 2010 mortality rate for cerebrovascular disease among Asians (26.0/100,000) was the lowest among race/ethnic groups.

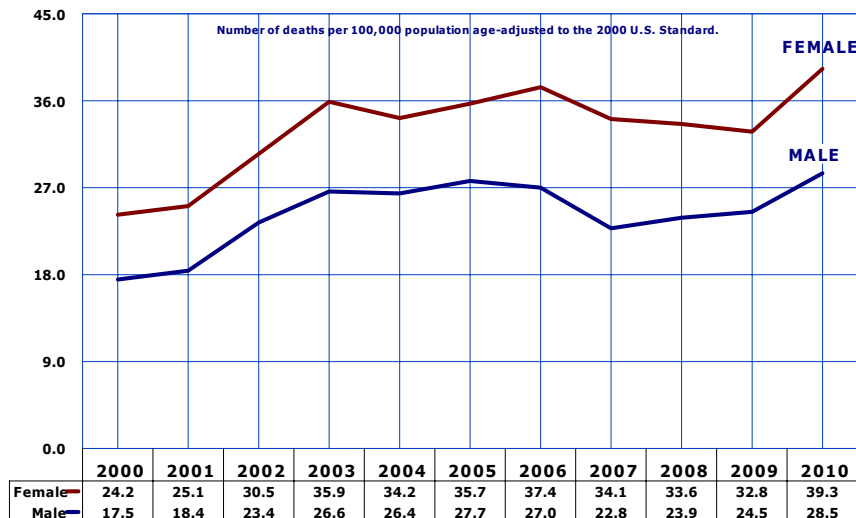
Asian females had the lowest mortality rate for cerebrovascular disease among gender by race subgroups (21.7 deaths per 100,000, Table 2B-4), while Black or African American females had the highest rate of 58.1 deaths per 100,000.



Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH
Alzheimer's disease

Figure 2B-16
Age-adjusted Mortality Rates for Alzheimer's Disease by Gender and Year, Arizona, 2000-2010



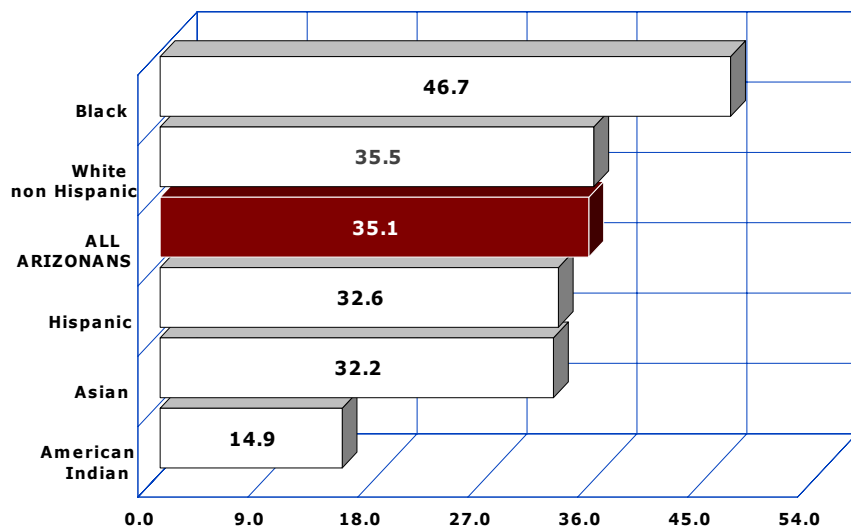
Note: The rates for 1998-1999 are comparability-modified.

Based on the number of deaths in 2010, Alzheimer's disease was the 3rd leading cause of death for females and 6th leading cause for males (**Table 2B-4**).

From 2009 to 2010, the age-adjusted mortality rate for Alzheimer's disease among females increased sharply by 19.8 percent from 32.8/100,000 to 39.3/100,000 in (**Figure 2B-16**). The age-adjusted mortality rate for Alzheimer's disease increased for the 3rd consecutive year for males from 22.8/100,000 in 2007 to 28.5/100,000 in 2010

In 2010, the age-adjusted death rate for Alzheimer's disease was 37.9 percent higher for females than for males.

Figure 2B-17
Age-adjusted Mortality Rates for Alzheimer's Disease by Race/Ethnicity, Arizona, 2010



Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

The age-adjusted mortality rates for Alzheimer's disease in 2010 were higher among Black or African American (46.7/100,000) and White non-Hispanic (35.5 deaths per 100,000) than they were among Hispanic or Latino (32.6/100,000), Asian (32.2/100,000), and American Indian residents of Arizona (14.9/100,000; **Figure 2B-17**, **Table 2B-4**).

White non-Hispanic residents of Arizona disproportionately contributed to mortality from Alzheimer's disease. In 2010, White non-Hispanics accounted for 57.8 percent (**Table 10C-1**) of the State's population, but 87.0 percent of all deaths from Alzheimer's disease (2,013 out of 2,314; **Table 2B-4**).

In 2010, the median age at death from Alzheimer's disease was 88 for females and 86 for males (**Table 2D-3**).

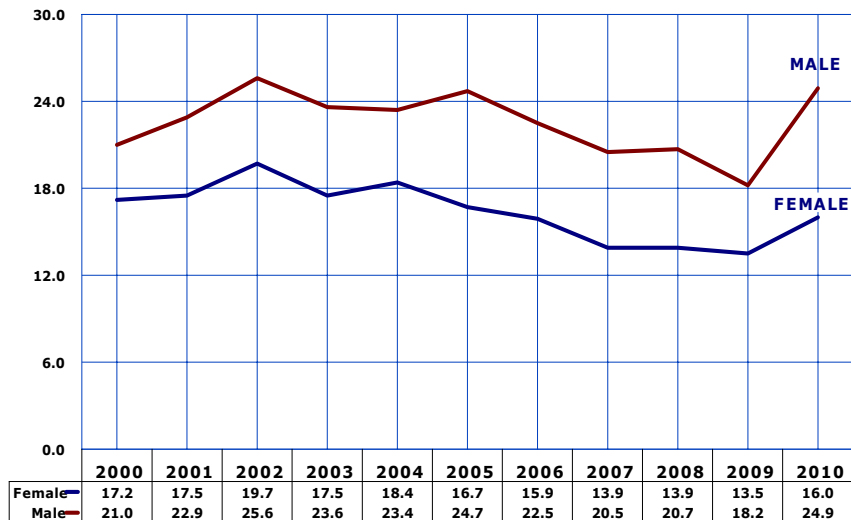
2B. LEADING CAUSES OF DEATH
Diabetes

Both men and women experienced a decline in mortality rates for diabetes from 2005 to 2009 (Figure 2B-18). From 2009 to 2010 the number of deaths from diabetes increased by 27.3 percent (based on the data in Table 2B-1).

In 2010, in addition to 1,372 deaths that had diabetes assigned as the underlying cause, another 1,987 deaths had diabetes assigned as a contributing factor (Figure 2B-1B). The diabetes-related death rate of 49.0/100,000 (Table 6A-6) was 2.4 times greater than the rate for diabetes as underlying cause (20.1/100,000, Table 2B-2).

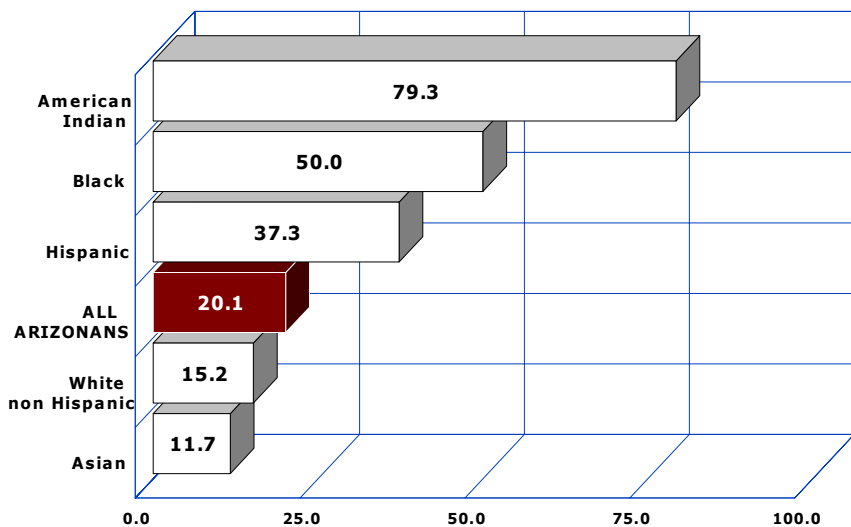
The diabetes-related death rate includes all mentions of diabetes on the death certificate as the underlying or other than underlying cause.

Figure 2B-18
Age-adjusted Mortality Rates for Diabetes by Gender and Year, Arizona, 2000-2010



Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Figure 2B-19
Age-adjusted Mortality Rates for Diabetes by Race/Ethnicity, Arizona, 2010



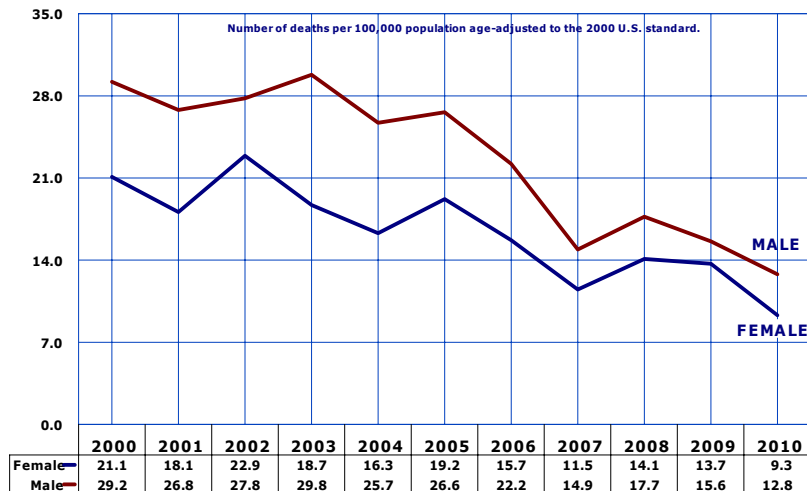
The number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

In 2010, compared to Arizona's rate, American Indians were 3.9 times more likely to die from diabetes (79.3 deaths per 100,000; Figure 2B-19, Table 2B-4). The rate of 11.7 deaths per 100,000 among Asians or Pacific Islanders was the lowest rate among race/ethnic groups in the State.

Among the 15 Arizona counties, in 2010 Apache (63.1/100,000), Santa Cruz (43.0/100,000), and Navajo (38.7 /100,000) had the highest mortality rates for diabetes (Table 5E-11).

2B. LEADING CAUSES OF DEATH
Influenza and pneumonia

Figure 2B-20
Age-adjusted Mortality Rates for Influenza and Pneumonia by
Gender and Year, Arizona, 2000-2010

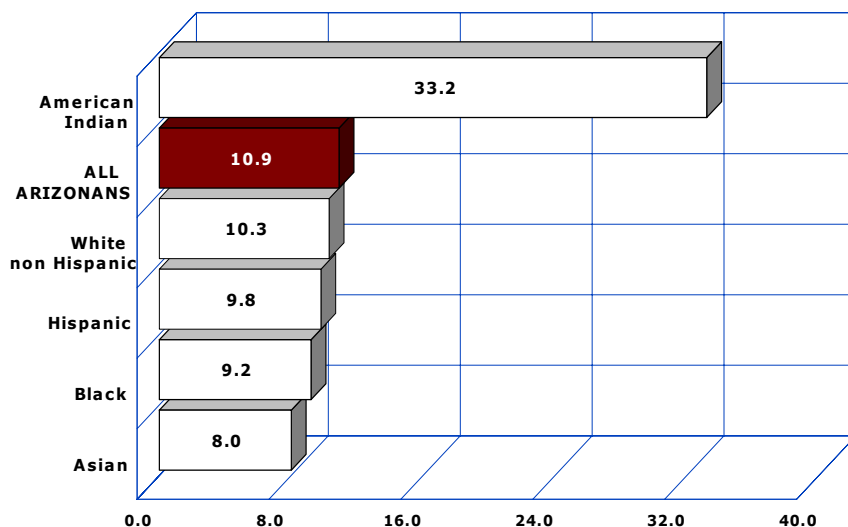


The number of deaths from influenza and pneumonia decreased by 43.0 percent from a recent high of 1,280 in 2005 to 729 in 2010 (**Table 2B-1**). In 2009, influenza and pneumonia were ranked the 10th leading cause of death in Arizona. Among the 729 deaths, influenza was identified as the underlying cause for 7 of them, while pneumonia was listed as the underlying cause on 722 death certificates (**Table 2B-6**).

The mortality rate for influenza and pneumonia decreased for females from 13.7 deaths per 100,000 in 2009 to 9.3 deaths in 2010 (**Figure 2B-20, Table 2B-2**). The mortality rate for influenza and pneumonia also decreased for males from 15.6 deaths per 100,000 in 2009 to 12.8/100,000 in 2010.

In 2010, Arizona males were 37.6 percent more likely to die from influenza and pneumonia than females.

Figure 2B-21
Age-adjusted Mortality Rates for Influenza and Pneumonia by
Race/Ethnicity, Arizona, 2010



Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

In 2010, American Indian residents of Arizona had the highest mortality rate for influenza and pneumonia (33.2 deaths per 100,000) among the race/ethnic groups. The age-adjusted mortality of 8.0/100,000 among Asians or Pacific Islanders was the lowest rate among race/ethnic groups in the State (**Figure 2B-21, Table 2B-4**).

Compared to the State death rate for influenza and pneumonia, Graham County's rate was 2.4 times greater (26.5/100,000). The mortality rate also was elevated in Coconino County (23.7/100,000; **Table 5E-11**).

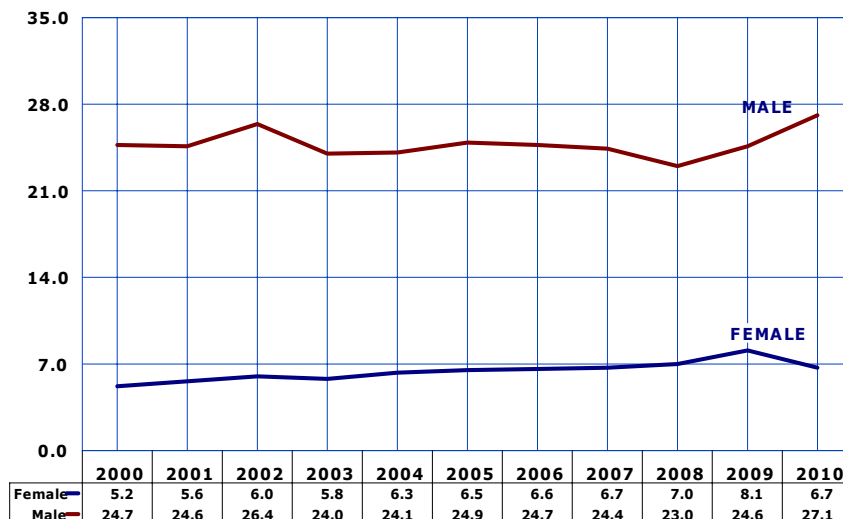
2B. LEADING CAUSES OF DEATH
Suicide

In 2010, suicide was the 5th leading cause of death among males. It ranked as the 12th cause of mortality for females. The age-adjusted suicide rate increased from 14.8 suicides per 100,000 residents of the State in 2008 to 16.1/100,000 in 2009, and 16.7/100,000 in 2010; the highest suicide rate since 1998 (Table 2B-3).

The suicide rate decreased for females from 8.1 suicides per 100,000 in 2009 to 6.7 in 2010 (Figure 2B-22, Table 2B-3). The male mortality risk for suicide increased from the 2009 rate of 24.6/100,000 to 27.1/100,000 in 2010.

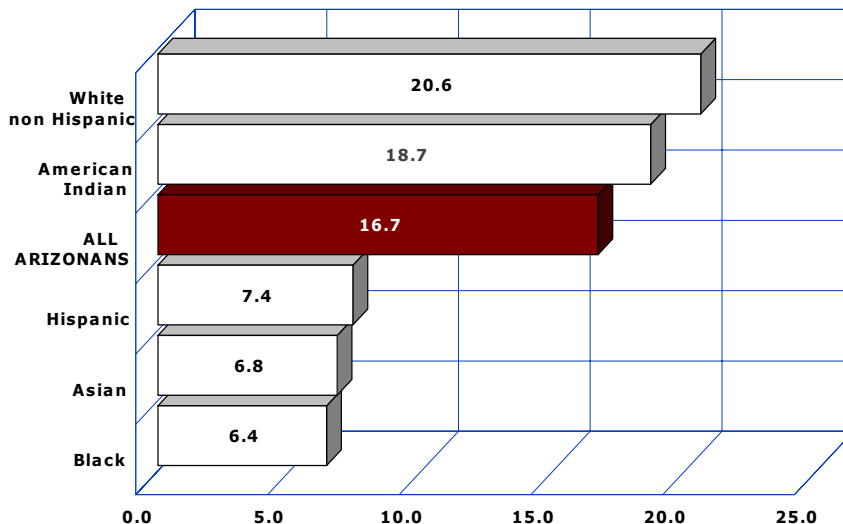
In 2009, suicide posed a 4 times greater mortality risk for males (27.1/100,000) than females (6.7/100,000).

Figure 2B-22
Age-adjusted Mortality Rates for Suicide by Gender and Year, Arizona, 2000-2010



Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Figure 2B-23
Age-adjusted Mortality Rates for Suicide by Race/Ethnicity, Arizona, 2010



Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

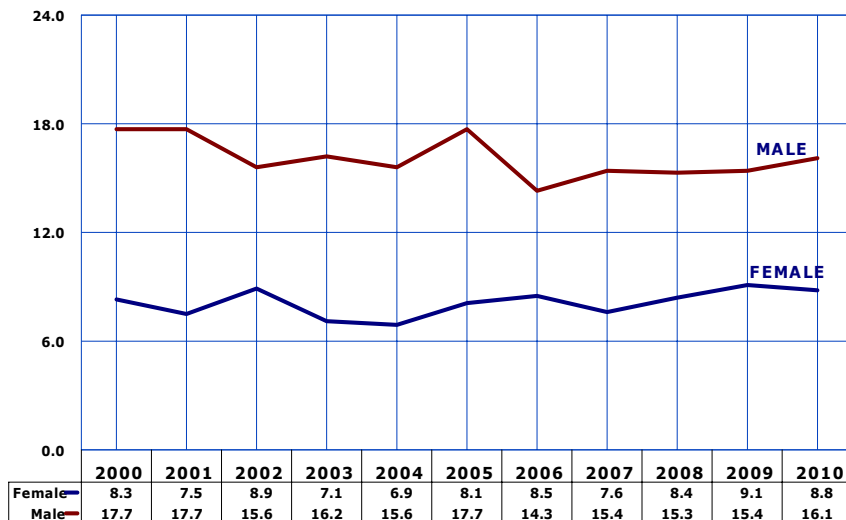
In 2010, White non-Hispanics (had the highest age-adjusted suicide rate (20.6 suicides per 100,000) among the race/ethnic groups (Figure 2B-23, Table 2B-4).

The suicide rates varied by race/ethnicity. They ranged from the age-adjusted mortality rate of 18.7/100,000 among American Indian residents of the State to a rate of 6.4/100,000 for Blacks or African American (Figure 2B-23).

The age-adjusted mortality rates varied in Arizona in 2010 from 4.0 suicides per 100,000 residents of La Paz County to 46.6 suicides per 100,000 residents of Apache County (Table 5E-11).

2B. LEADING CAUSES OF DEATH
Chronic liver disease and cirrhosis

Figure 2B-24
Age-adjusted Mortality Rates for Chronic Liver Disease and Cirrhosis
by Gender and Year, Arizona, 2000-2010



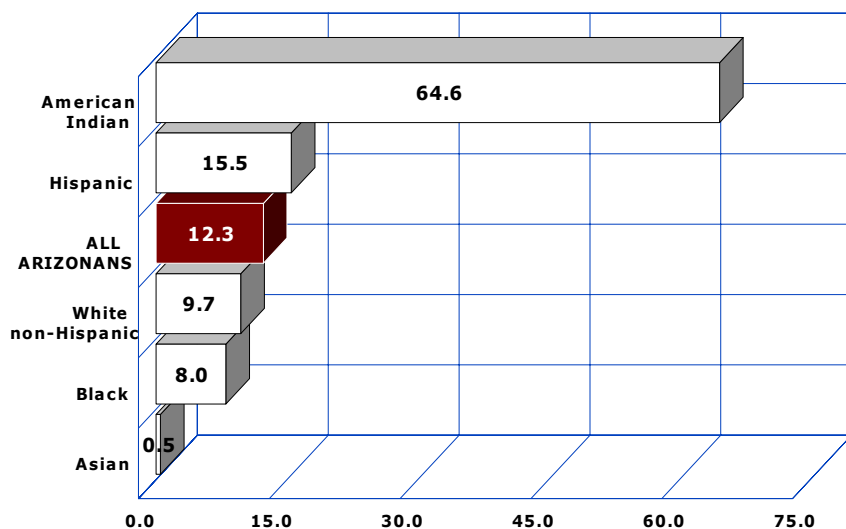
Chronic liver disease and cirrhosis was the 9th leading cause of death in Arizona in 2010 (**Figure 2B-1, Table 2B-1**). Among the 843 deaths due to chronic liver disease and cirrhosis, 534 (63.3 percent) were males (**Table 2B-4**).

Among females the age-adjusted mortality rate for chronic liver disease and cirrhosis slightly decreased from 9.1/100,000 in 2009 to 8.8 deaths per 100,000 in 2010. Among males, the mortality increased in 2010 to 16.1/100,000 (**Figure 2B-24, Table 2B-3**).

In 2010, La Paz, Navajo, and Apache counties had the highest mortality rates for chronic liver disease and cirrhosis (**Table 5E-11**).

The number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Figure 2B-25
Age-adjusted Mortality Rates for Chronic Liver Disease and Cirrhosis
by Race/Ethnicity, Arizona, 2010



The 2010 death rate for chronic liver disease and cirrhosis among American Indians (64.6 deaths per 100,000) was 129 times greater than the rate among Asians or Pacific Islanders (0.5/100,000) (**Figure 2B-25, Table 2B-4**). The rate for Hispanics (15.5 deaths per 100,000 population) was the second highest among race/ethnic groups in the State.

Compared to the median age at death from all causes (77 years), those who died from chronic liver disease and cirrhosis were 19 years younger (58 years, **Table 2D-3**). In 2010, the median age at death of American Indians who died from chronic liver disease and cirrhosis was only 48 years (**Table 2D-3**).

Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**TABLE 2B-1
NUMBER OF DEATHS FOR THE LEADING CAUSES OF MORTALITY BY YEAR, ARIZONA, 2000-2010**

Rank in 2000	Rank in 2010	Cause of death	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
2	1	Malignant neoplasms	8,994	8,914	9,148	9,451	9,506	9,673	9,768	9,955	9,949	10,147	10,423
1	2	Diseases of heart	10,430	10,312	10,551	10,649	10,402	10,779	10,362	10,147	10,299	10,151	9,719
4	3	Chronic lower respiratory diseases	2,493	2,463	2,530	2,522	2,392	2,778	2,771	2,651	2,896	2,808	2,892
5	4	Accidents (unintentional injury)	2,087	2,430	2,416	2,466	2,641	3,006	3,156	3,014	2,951	2,887	2,834
7	5	Alzheimer's disease	1,046	1,103	1,413	1,691	1,672	1,816	2,057	2,041	2,086	2,086	2,314
3	6	Cerebrovascular diseases	2,603	2,416	2,448	2,356	2,412	2,325	2,159	2,079	2,089	2,010	2,051
8	7	Diabetes	993	1,040	1,201	1,124	1,180	1,196	1,188	1,145	1,162	1,078	1,372
9	8	Intentional self-harm (suicide)	737	767	855	807	854	915	948	986	968	1,060	1,070
10	9	Chronic liver disease and cirrhosis	645	635	647	625	629	749	706	734	778	818	843
6	10	Influenza and pneumonia	1,201	1,100	1,294	1,248	1,108	1,280	1,147	875	1,075	1,007	729
11	11	Nephritis, nephrotic syndrome and nephrosis	605	622	600	550	625	603	549	510	488	532	516
15	12	Essential primary hypertension and hypertensive renal disease	275	298	293	339	405	390	420	389	475	475	498
14	13	Parkinson's disease	342	366	397	402	390	492	489	455	487	446	488
13	14	Septicemia	346	372	445	463	456	496	539	547	539	528	425
12	15	Assault (homicide)	394	467	478	480	486	503	525	494	461	360	404
ALL CAUSES			40,202	40,851	42,320	42,830	42,736	45,115	45,415	44,640	45,128	45,065	45,871

Note: The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2000-2010 are classified by ICD-10, replacing the Ninth Revision (ICD-9) used during 1979-1999. The group titles, such as Cardiovascular diseases, Infectious and parasitic diseases or Other cardiovascular diseases are not ranked to determine the leading causes of death. The ICD-10 code for the underlying cause of death was missing for as many as 970 death records in 2001, 704 in 2002 and 140 in 2008.

**TABLE 2B-2
AGE-ADJUSTED* MORTALITY RATES BY GENDER AND YEAR FOR SELECTED LEADING CAUSES OF DEATH,
ARIZONA, 2000-2010**

		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
TOTAL, ALL CAUSES												
	Total	785.6	791.2	796.4	784.0	757.3	772.5	727.3	663.2	659.6	653.2	679.9
	Male	941.1	952.4	964.8	942.8	909.0	925.7	861.6	773.8	777.6	763.9	802.0
	Female	654.6	656.7	658.0	651.5	632.0	644.9	611.8	561.7	554.3	555.1	572.6
CARDIOVASCULAR DISEASE												
	Total	276.1	267.3	265.5	258.4	248.5	245.7	216.4	194.4	194.1	188.8	188.6
	Male	333.1	321.6	321.1	310.3	298.4	298.2	258.3	227.5	235.8	228.1	225.1
	Female	230.0	223.0	221.0	215.8	207.8	203.8	181.0	164.3	158.1	154.9	156.7
-----DISEASES OF HEART												
	Total	206.1	201.7	201.0	197.1	186.7	186.9	166.1	149.5	149.3	145.9	143.3
	Male	259.3	251.3	253.6	246.6	234.2	237.4	207.3	184.0	189.3	183.1	179.8
	Female	163.6	161.5	158.9	157.1	148.5	147.3	131.8	119.4	115.1	114.1	112.2
-----CEREBROVASCULAR DISEASE												
	Total	51.7	47.7	47.0	43.9	43.6	40.6	34.8	30.6	30.3	28.9	30.7
	Male	50.8	48.3	47.3	42.9	42.7	40.0	33.4	27.7	29.6	28.2	28.9
	Female	51.8	46.8	46.7	43.8	43.6	40.5	35.2	32.2	30.5	29.1	31.3
MALIGNANT NEOPLASMS												
	Total	170.4	169.2	168.6	169.4	164.7	161.8	154.7	148.0	145.5	147.2	150.5
	Male	204.0	199.8	209.1	208.3	201.2	197.1	187.0	176.7	173.8	174.9	180.6
	Female	145.8	147.5	139.1	141.3	138.6	136.1	131.0	125.6	123.0	125.8	127.1
CHRONIC LOWER RESPIRATORY DISEASE												
	Total	47.4	46.9	47.0	45.4	41.9	46.8	44.3	39.2	42.2	40.5	42.6
	Male	56.2	53.9	57.1	53.8	48.1	51.3	50.2	43.5	46.6	44.7	48.1
	Female	41.3	42.2	40.3	40.0	37.7	43.5	40.1	36.0	39.0	37.1	38.6
ACCIDENTS (UNINTENTIONAL INJURIES)												
	Total	41.1	46.6	45.2	44.8	46.0	51.1	51.2	46.6	44.7	43.1	43.8
	Male	58.0	66.5	62.8	61.6	61.1	68.7	68.5	60.6	59.0	56.6	56.6
	Female	24.9	27.7	28.8	28.8	31.7	34.4	34.3	32.3	30.6	29.8	31.6
-----MOTOR VEHICLE ACCIDENTS												
	Total	17.5	17.2	18.5	18.0	18.1	18.9	19.6	16.2	13.6	11.6	11.1
	Male	24.4	24.2	25.5	24.9	23.9	27.0	26.8	22.2	19.5	16.8	15.9
	Female	10.6	10.1	11.6	11.2	12.5	11.1	12.4	10.1	7.9	6.5	6.4
INFLUENZA AND PNEUMONIA **												
	Total	24.4	21.9	25.0	23.4	20.1	22.3	18.4	12.9	15.6	14.6	10.9
	Male	29.2	26.8	27.8	29.8	25.7	26.6	22.2	14.9	17.7	15.6	12.8
	Female	21.1	18.1	22.9	18.7	16.3	19.2	15.7	11.5	14.1	13.7	9.3

**TABLE 2B-2 (continued)
AGE-ADJUSTED* MORTALITY RATES BY GENDER AND YEAR FOR SELECTED LEADING CAUSES OF DEATH,
ARIZONA, 2000-2010**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ALZHEIMER'S DISEASE**											
Total	21.8	22.5	28.0	32.5	31.3	32.7	33.4	29.6	29.8	29.5	35.1
Male	17.5	18.4	23.4	26.6	26.4	27.7	27.0	22.8	23.9	24.5	28.5
Female	24.2	25.1	30.5	35.9	34.2	35.7	47.4	34.1	33.6	32.8	39.3
DIABETES											
Total	19.0	19.9	22.3	20.3	20.7	20.1	18.9	17.0	17.0	15.7	20.1
Male	21.0	22.9	25.6	23.6	23.4	24.7	22.5	20.5	20.7	18.2	24.9
Female	17.2	17.5	19.7	17.5	18.4	16.7	15.9	13.9	13.9	13.5	16.0
CHRONIC LIVER DISEASE AND											
Total	12.8	12.3	12.1	11.5	11.1	12.7	11.4	11.3	11.7	12.2	12.3
Male	17.7	17.7	15.6	16.2	15.6	17.7	14.3	15.4	15.3	15.4	16.1
Female	8.3	7.5	8.9	7.1	6.9	8.1	8.5	7.6	8.4	9.1	8.8
NEPHRITIS, NEPHROTIC SYNDROME, AND NEPHROSIS**											
Total	11.7	12.0	11.3	10.1	11.0	10.4	8.8	7.6	7.1	7.7	7.6
Male	13.9	15.6	12.9	12.0	13.4	12.7	10.5	8.8	8.6	9.2	9.0
Female	10.4	9.7	10.4	8.8	9.4	8.8	7.4	6.6	5.9	6.5	6.4
INTENTIONAL SELF-HARM (SUICIDE)											
Total	14.6	14.9	15.9	14.6	14.9	15.4	15.4	15.4	14.8	16.1	16.7
Male	24.7	24.6	26.4	24.0	24.1	24.9	24.7	24.4	23.0	24.6	27.1
Female	5.2	5.6	6.0	5.8	6.3	6.5	6.6	6.7	7.0	8.1	6.7
ASSAULT (HOMICIDE)											
Total	7.6	8.7	8.6	8.3	8.2	8.2	8.5	7.7	7.1	5.5	6.5
Male	11.1	13.7	13.9	12.8	13.3	13.5	13.5	11.8	11.2	8.0	10.5
Female	3.8	3.6	3.0	3.6	2.9	2.6	3.1	3.2	2.7	2.9	2.4
SEPTICEMIA**											
Total	6.7	7.2	8.3	8.4	8.0	8.4	8.6	8.1	7.9	7.7	7.4
Male	7.3	8.0	9.6	9.4	9.4	9.7	9.4	8.4	9.4	8.2	10.8
Female	6.1	6.5	7.2	7.6	7.0	7.5	8.0	7.9	6.7	7.3	5.1

* The number of deaths per 100,000 population adjusted to the 2000 U.S. standard. The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). Beginning in 2000, the causes of death are classified by ICD-10. The causes of death for 1998-1999 are classified by the Ninth Revision (ICD-9). The rates for 1998-1999 were revised in this edition of the report for consistency with the newly recomputed mortality rates in Table 2B-3.

** The rates for 1998-1999 are comparability-modified. In order to obtain comparability-modified data, the number of deaths or the death rate for a particular cause of death (such as Alzheimer's disease, Nephritis, Influenza and pneumonia, or Septicemia) classified by ICD-9 is adjusted by multiplying it by the comparability ratio for that cause. Comparability ratios are measures of comparison between ICD-9 and ICD-10. 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 comparability ratios for causes of death other than the four selected above are within 1.0-1.1 range (see **Technical Notes**).

**TABLE 2B-3
AGE-ADJUSTED* MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 1980, 1990-2010**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
Intentional self-harm (suicide)																		
1980	17.5	27.9	8.1	18.5	28.7	9.3	11.3	21.1	2.0	10.9	16.8	4.5	18.6	33.1	5.6	8.7	19.6	0.0
1990	19.0	32.6	6.5	20.9	36.1	7.2	9.4	16.6	2.8	12.5	17.2	7.7	20.1	39.1	2.6	7.9	4.6	10.1
1991	18.0	30.8	6.4	19.1	32.8	6.7	12.1	20.3	4.6	17.8	23.6	12.3	18.9	35.1	4.0	2.5	5.5	0.0
1992	17.3	29.0	6.5	18.8	31.1	7.5	10.4	19.2	2.6	10.3	17.8	2.4	19.6	34.7	5.6	4.8	10.5	0.0
1993	18.9	32.2	6.9	21.2	35.7	8.2	8.8	14.9	2.4	8.0	12.4	3.0	21.7	39.1	5.5	5.2	7.7	3.2
1994	19.4	32.2	7.4	21.2	34.9	8.3	11.1	19.6	2.2	8.7	13.9	2.9	20.8	33.0	8.8	16.7	18.9	15.4
1995	19.5	31.1	8.6	22.2	35.1	10.2	9.7	15.8	3.4	14.4	24.6	5.8	16.3	30.0	3.5	4.1	5.0	4.0
1996	16.9	28.4	6.2	19.1	31.8	7.5	9.0	16.2	1.8	7.3	11.7	2.2	15.9	25.6	6.8	4.7	9.9	0.0
1997	17.2	28.7	6.3	19.4	31.8	7.7	8.8	16.3	1.3	12.3	21.5	3.5	18.7	30.5	7.4	11.0	18.2	5.7
1998	17.5	28.7	7.1	20.1	32.2	8.9	9.5	18.4	0.8	6.5	8.7	3.9	16.1	28.1	5.0	6.8	9.1	3.9
1999	15.7	25.5	6.5	16.7	27.1	7.0	10.5	17.8	3.7	12.8	26.1	0.0	16.6	27.6	6.4	6.4	10.3	3.4
2000	14.6	24.7	5.2	16.7	27.6	6.8	7.2	12.7	1.4	6.5	12.2	0.0	16.2	29.7	3.7	5.7	12.3	0.0
2001	14.9	24.6	5.6	12.8	21.0	5.1	5.9	9.9	1.6	9.2	15.2	2.4	15.4	26.4	5.2	9.4	15.4	4.7
2002	15.9	26.4	6.0	18.3	30.0	7.4	8.3	14.2	2.5	6.2	11.4	0.0	17.9	31.7	4.9	4.1	9.1	0.0
2003	14.6	24.0	5.8	16.4	27.1	6.4	8.2	11.8	4.2	11.3	16.6	4.8	15.2	27.4	3.6	6.0	7.0	5.9
2004	14.9	24.1	6.3	16.6	26.4	7.5	9.8	17.5	2.2	12.1	17.3	5.1	17.0	28.5	6.5	4.0	7.0	2.7
2005	15.4	24.9	6.5	16.6	26.7	7.3	10.5	17.8	3.0	3.3	4.7	1.8	17.5	28.7	6.8	11.7	8.9	14.1
2006	15.4	24.7	6.6	17.8	27.9	8.5	8.2	14.2	2.0	8.3	13.9	2.3	13.7	23.4	4.5	8.4	13.2	4.3
2007	15.4	24.4	6.7	18.7	29.4	8.3	9.2	14.7	3.6	6.2	10.1	1.7	9.8	16.3	3.6	6.1	49.2	2.4
2008	14.8	23.0	7.0	17.6	27.3	8.5	6.5	10.8	1.9	7.5	10.3	4.2	13.5	21.2	5.9	9.9	10.7	8.8
2009	16.1	24.6	8.1	18.4	28.0	9.5	9.0	14.0	3.9	10.5	12.7	7.7	15.9	22.9	9.3	9.9	19.9	2.3
2010	16.7	27.1	6.7	20.6	32.8	8.7	7.4	12.5	2.6	6.4	9.9	2.2	18.7	32.3	5.7	6.8	11.0	3.2

* Adjusted to the 2000 standard U.S. population.

** Chronic obstructive pulmonary diseases in 1980 and 1990.

Note: Beginning in 2000, when the new standard for the age-adjustment of mortality rates was implemented, all previously published rates for 1979-1999 became obsolete. With the 2008 edition of this report we have added the recomputed age-adjusted mortality rates for 1991-1999. In order to compute these rates, we have used the population denominators consistent with both the 1990 and 2000 census. The mortality rates for 1989-1999 in Table 2B-2 also were revised for consistency.

The denominators are available at:

<http://www.azdhs.gov/plan/menu/info/pop/pop19/popsets19.htm>

**TABLE 2B-4
NUMBER OF DEATHS AND AGE-ADJUSTED* MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY AND
GENDER, ARIZONA, 2010**

	NUMBER OF DEATHS																									
	All groups**						White non-Hispanic				Hispanic or Latino				Black or African American				American Indian or Alaska Native				Asian or Pacific Islander			
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F		
Total, all causes	45,871	24,163	21,708	36,066	18,693	17,373	5,374	2,959	2,415	1,336	735	601	1,781	1,015	766	487	258	229								
Major cardiovascular diseases	12,754	6,663	6,091	10,494	5,416	5,078	1,292	686	606	376	209	167	308	167	141	133	78	55								
Diseases of heart	9,719	5,351	4,368	8,086	4,396	3,690	916	512	404	270	160	110	227	132	95	90	55	35								
Coronary heart disease	7,687	4,378	3,309	6,382	3,592	2,790	715	410	305	239	145	94	166	102	64	78	50	28								
Malignant neoplasms	10,423	5,639	4,784	8,584	4,677	3,907	1,116	568	548	297	166	131	195	103	92	126	67	59								
Malignant neoplasm of trachea, bronchus and lung	2,655	1,465	1,190	2,341	1,277	1,064	180	110	70	60	33	27	15	11	4	30	19	11								
Malignant neoplasm of colon, rectum, and anus	952	520	432	766	401	365	112	71	41	33	20	13	22	13	9	13	11	2								
Malignant neoplasm of breast	732	12	720	581	10	571	101	0	101	26	2	24	10	0	10	11	0	11								
Malignant neoplasm of prostate	NA	549	NA	NA	449	NA	NA	61	NA	NA	19	NA	NA	10	NA	NA	4	NA								
Malignant melanoma of skin	191	133	58	182	126	56	3	2	1	3	3	0	1	0	1	1	1	0								
Malignant neoplasm of cervix uteri	68	0	68	41	0	41	17	0	17	2	0	2	5	0	5	2	0	2								
Accident (unintentional injury)	2,834	1,732	1,102	1,976	1,157	819	442	297	145	78	44	34	245	178	67	34	17	17								
Motor vehicle accidents	711	501	210	374	268	106	173	117	56	24	16	8	118	86	32	10	4	6								
Falls	762	357	405	658	305	353	58	31	27	4	2	2	26	12	14	8	4	4								
Accidental poisoning	879	547	332	635	381	254	135	95	40	30	16	14	56	41	15	3	3	0								
Accidental drowning and submersion	86	66	20	53	42	11	17	13	4	1	0	1	9	7	2	5	3	2								
Chronic lower respiratory diseases	2,892	1,419	1,473	2,650	1,287	1,363	131	72	59	39	20	19	33	16	17	11	9	2								
Cerebrovascular diseases	2,051	839	1,212	1,636	649	987	261	119	142	69	29	40	49	20	29	28	17	11								
Alzheimer's disease	2,314	753	1,561	2,013	648	1,365	191	66	125	49	19	30	20	7	13	25	7	18								
Influenza and pneumonia	729	370	359	566	286	280	72	34	38	13	7	6	60	35	25	8	3	5								
Diabetes	1,372	773	599	822	493	329	303	161	142	75	37	38	145	70	75	13	4	9								
Intentional self-harm (suicide)	1,070	846	224	832	651	181	125	103	22	18	15	3	57	48	9	14	10	4								
Chronic liver disease and cirrhosis	843	534	309	495	334	161	163	111	52	15	8	7	158	74	84	1	1	0								
Nephritis, nephrotic syndrome and nephrosis	516	269	247	356	191	165	84	41	43	25	16	9	36	12	24	5	3	2								
Assault (homicide)	404	330	74	138	98	40	153	135	18	43	38	5	52	46	6	8	4	4								
Parkinson's disease	488	296	192	419	256	163	50	29	21	5	2	3	11	7	4	2	1	1								
Septicemia	425	210	215	294	145	149	60	32	28	29	14	15	31	12	19	4	2	2								
Essential (primary) hypertension and	498	231	267	363	167	196	72	34	38	29	16	13	21	10	11	9	4	5								
Human immunodeficiency virus (HIV) disease	99	89	10	49	45	4	25	22	3	14	12	2	5	4	1	1	1	0								
Injury by firearms	907	776	131	618	514	104	182	165	17	43	41	2	37	34	3	14	11	3								
Drug-induced deaths	1,106	638	468	826	463	363	160	104	56	37	20	17	35	20	15	5	5	0								
Alcohol-induced deaths	952	682	270	573	414	159	132	109	23	17	13	4	213	134	79	0	0	0								

**TABLE 2B-4 (continued)
NUMBER OF DEATHS AND AGE-ADJUSTED* MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY AND GENDER, ARIZONA, 2010**

	AGE-ADJUSTED MORTALITY RATES:**																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	All groups**				White non-Hispanic				Hispanic or Latino				Black or African American				American Indian or Alaska Native				Asian or Pacific Islander																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	T	M	F		T	M	F		T	M	F		T	M	F		T	M	F		T	M	F		T	M	F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Total, all causes	679.9	802.0	572.6	674.4	791.8	569.7	612.0	716.0	525.0	835.0	1009.6	698.5	891.8	1080.0	731.1	424.1	544.7	345.7	188.6	225.1	156.7	188.8	224.9	156.6	172.4	201.5	148.9	258.5	305.4	215.1	183.2	216.9	154.8	130.0	175.8	98.9	143.3	179.8	112.2	145.4	181.9	113.7	121.3	149.0	99.5	177.7	233.6	133.9	135.9	169.5	108.1	86.8	128.1	60.0	112.9	146.4	84.8	114.5	147.9	85.9	96.3	122.5	76.2	159.3	214.3	116.3	98.6	133.7	71.6	75.6	120.4	47.4	150.5	180.6	127.1	155.6	185.8	131.6	126.2	148.8	110.6	182.6	231.0	144.8	106.4	137.8	86.6	96.2	130.7	74.2	38.1	46.1	31.5	41.7	49.5	35.3	20.6	28.5	14.6	36.6	41.7	31.4	7.5	12.5	3.6	22.1	36.9	12.8	13.8	16.6	11.4	13.9	16.0	12.1	13.5	19.0	9.2	21.9	28.9	16.0	12.4	19.9	8.0	10.3	22.2	2.6	10.5	0.4	19.2	10.8	0.4	19.9	10.1	0.0	18.5	14.9	2.5	25.8	4.4	0.0	8.2	7.5	0.0	12.9	NA	19.1	NA	NA	18.4	NA	NA	23.9	NA	NA	35.2	NA	NA	21.6	NA	NA	12.6	NA	2.8	4.3	1.6	3.6	5.3	2.1	0.2	0.3	0.1	2.2	5.1	0.0	0.4	0.0	0.7	1.1	2.8	0.0	1.0	0.0	2.0	0.8	0.0	1.6	1.5	0.0	2.8	0.8	0.0	1.8	3.0	0.0	5.0	2.2	0.0	3.5	43.8	56.6	31.6	45.5	58.0	33.3	33.7	45.3	22.8	36.0	42.3	30.7	99.2	148.9	55.4	24.6	24.9	23.9	14.0	17.6	10.5	17.3	21.2	13.3	8.7	12.6	5.0	11.8	11.8	11.8	21.1	34.1	10.0	1.3	2.8	0.0	11.1	15.9	6.4	9.2	13.6	4.8	11.1	15.6	6.9	10.8	14.2	7.2	41.7	60.2	24.0	5.5	4.3	6.3	11.5	12.7	10.3	11.9	13.2	10.7	8.0	8.9	7.1	2.3	3.4	1.6	17.5	19.4	16.1	8.8	11.1	7.3	1.3	2.1	0.6	1.5	2.4	0.6	0.7	1.1	0.3	0.4	0.0	0.8	3.0	5.1	1.0	2.5	2.6	2.3	42.6	48.1	38.6	47.1	52.2	43.4	18.6	25.4	14.3	27.4	32.2	23.8	21.7	24.1	20.0	12.0	29.5	1.7	35.1	28.5	39.3	35.5	28.5	40.0	32.6	28.6	35.1	46.7	55.4	44.6	14.9	12.6	16.0	32.2	24.3	36.9	30.7	28.9	31.3	29.4	27.2	30.5	35.1	34.8	34.6	53.5	41.4	58.1	29.8	30.0	29.5	26.0	30.7	21.7	16.7	27.1	6.7	20.6	32.8	8.7	7.4	12.5	2.6	6.4	9.9	2.2	18.7	32.3	5.7	6.8	11.0	3.2	10.9	12.8	9.3	10.3	12.1	8.9	9.8	11.6	8.9	9.2	13.9	7.0	33.2	41.3	26.1	8.0	9.8	7.4	20.1	24.9	16.0	15.2	20.1	11.0	37.3	45.0	31.4	50.0	56.8	45.5	79.3	80.6	76.9	11.7	9.3	13.1	6.3	7.0	5.8	5.4	6.1	4.9	6.3	5.9	6.2	17.6	20.4	16.3	16.3	12.1	18.7	3.8	7.0	2.2	12.3	16.1	8.8	9.7	13.6	6.1	15.5	20.9	10.3	8.0	9.5	7.0	64.6	63.9	64.9	0.5	1.2	0.0	7.6	9.0	6.4	6.3	7.7	5.2	10.7	11.9	9.8	16.5	25.7	10.6	19.9	14.9	23.5	3.8	5.2	2.6	7.4	10.8	5.1	7.5	10.9	5.1	7.8	11.1	5.7	4.4	3.4	4.7	8.1	14.6	4.2	1.4	1.7	1.2	7.4	8.1	6.9	6.5	7.1	6.0	10.0	10.9	9.4	21.2	22.9	18.0	11.1	12.5	10.3	11.7	12.6	11.1	6.5	10.5	2.4	3.8	5.5	2.2	8.0	13.5	2.3	15.4	25.6	3.4	18.0	31.4	5.0	4.1	4.2	4.0	1.6	2.8	0.3	1.3	2.3	0.2	1.7	3.0	0.4	5.7	9.3	1.7	1.9	2.9	0.9	0.5	1.3	0.0	14.2	24.8	4.0	15.3	25.8	5.2	9.9	17.9	2.1	15.5	27.6	1.4	11.7	21.2	2.2	6.9	11.7	2.5	17.6	20.5	14.6	22.2	25.5	18.7	10.2	13.7	7.0	14.6	14.9	14.4	12.5	15.0	10.1	2.2	4.8	0.0	14.1	20.8	8.0	12.0	17.7	6.7	11.0	19.1	3.7	7.3	10.5	3.9	84.8	115.4	58.5	0.0	0.0	0.0

*The number of deaths per 100,000 resident population age-adjusted to the 2000 U.S. standard. The rates for breast cancer and cervical cancer are per 100,000 females. The rate for prostate cancer is per 100,000 males.

**Includes unspecified other or unknown race/ethnic groups.

**TABLE 2B-5
AGE-ADJUSTED* MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY URBAN/RURAL AREA AND GENDER,
ARIZONA, 2010**

	Arizona			Urban			Rural		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total, all causes	679.9	802.0	572.6	660.4	775.6	561.5	760.2	905.2	622.1
Cardiovascular diseases	188.6	225.1	156.7	184.1	219.0	154.3	204.8	245.2	166.1
Diseases of heart	143.3	179.8	112.2	139.0	173.5	110.3	158.6	201.1	119.3
Coronary heart disease	112.9	146.4	84.8	111.0	142.8	85.1	118.2	156.9	82.4
Malignant neoplasms	150.5	180.6	127.1	147.8	176.8	125.6	160.3	193.7	132.6
Lung cancer	38.1	46.1	31.5	37.4	45.5	30.9	40.0	47.4	33.4
Colorectal cancer	13.8	16.6	11.4	13.8	16.5	11.5	13.6	17.1	10.5
Breast cancer	10.5	0.4	19.2	10.4	0.4	18.9	11.2	0.2	21.0
Prostate cancer	8.1	19.1	0.0	7.7	18.4	0.0	9.7	22.2	0.0
Malignant melanoma of skin	2.8	4.3	1.6	2.6	4.1	1.4	3.6	5.0	2.2
Cervical cancer	1.0	0.0	2.0	1.0	0.0	1.9	1.4	0.0	2.6
Accident (unintentional injuries)	43.8	56.6	31.6	41.1	51.7	31.0	57.0	78.7	35.6
Accidental poisoning	14.0	17.6	10.5	13.2	16.1	10.1	17.8	22.7	12.9
Motor vehicle accidents	11.1	15.9	6.4	9.5	13.2	5.9	19.4	29.7	9.1
Falls	11.5	12.7	10.3	12.0	13.1	10.9	9.2	11.0	7.7
Accidental drowning	1.3	2.1	0.6	1.3	1.9	0.7	1.4	2.6	0.2
Chronic lower respiratory diseases	42.6	48.1	38.6	41.6	46.8	38.0	45.7	51.9	41.0
Alzheimer's disease	35.1	28.5	39.3	37.2	30.8	41.2	25.7	18.8	30.3
Cerebrovascular diseases	30.7	28.9	31.3	30.0	28.4	30.5	33.2	30.7	34.4
Diabetes	20.1	24.9	16.0	19.5	24.2	15.7	21.9	27.6	16.9
Intentional self-harm (suicide)	16.7	27.1	6.7	15.1	24.8	6.0	24.3	38.7	9.9
Chronic liver disease and cirrhosis	12.3	16.1	8.8	11.2	14.9	7.8	17.4	21.4	13.6
Influenza and pneumonia	10.9	12.8	9.3	9.9	11.1	9.0	14.8	19.3	10.8
Nephritis	7.6	9.0	6.4	6.8	8.2	5.7	11.0	12.2	9.6
Parkinson's disease	7.4	10.8	5.1	7.6	11.0	5.3	6.6	10.3	4.0
Septicemia	6.3	7.0	5.8	5.9	6.7	5.3	8.2	8.2	8.2
Assault (homicide)	6.5	10.5	2.4	6.0	9.8	2.1	8.1	12.1	4.0
(HIV) disease	1.6	2.8	0.3	1.6	2.8	0.4	1.2	2.3	0.0
Injury by firearms	14.2	24.8	4.0	13.2	23.6	3.3	18.0	29.3	7.0
Drug-induced deaths	17.6	20.5	14.6	16.8	19.4	14.1	20.8	23.9	17.5
Alcohol-induced deaths	14.1	20.8	8.0	12.3	18.3	6.8	23.1	32.3	14.3

*The number of deaths per 100,000 population in specified group age-adjusted to the 2000 standard U.S. The causes of death for 2007 are classified by the Tenth Revision of the International Classification of Diseases (ICD-10). The rates for breast cancer and cervical cancer are per 100,000 females. The rates for prostate cancer is per 100,000 males.

**TABLE 2B-6
DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,
ARIZONA RESIDENTS, 2010**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Number of deaths:			Crude death rate per 100,000 persons:		
	Total	Male	Female	Total	Male	Female
Total, all causes	45,871	24,163	21,708	717.6	760.8	675.0
Salmonella infections	1	0	1	0.0	0.0	0.0
Shigellosis and amebiasis	1	1	0	0.0	0.0	0.0
Certain other intestinal infections	276	121	155	4.3	3.8	4.8
Enterocolitis due to Clostridium difficile	218	100	118	3.4	3.1	3.7
Tuberculosis	15	9	6	0.2	0.3	0.2
Respiratory tuberculosis	12	7	5	0.2	0.2	0.2
Other tuberculosis	3	2	1	0.0	0.1	0.0
Whooping cough	0	0	0	0.0	0.0	0.0
Scarlet fever and erysipelas	0	0	0	0.0	0.0	0.0
Meningococcal infection	2	1	1	0.0	0.0	0.0
Septicemia	425	210	215	6.6	6.6	6.7
Syphilis	0	0	0	0.0	0.0	0.0
Acute poliomyelitis	0	0	0	0.0	0.0	0.0
Arthropod-borne encephalitis	0	0	0	0.0	0.0	0.0
Measles	0	0	0	0.0	0.0	0.0
Viral hepatitis	219	152	67	3.4	4.8	2.1
Human immunodeficiency virus (HIV) disease	99	89	10	1.5	2.8	0.3
Malaria	0	0	0	0.0	0.0	0.0
Other and unspecified infectious and parasitic diseases	174	84	90	2.7	2.6	2.8
Malignant neoplasms	10,423	5,639	4,784	163.1	177.6	148.7
Malignant neoplasm of lip, oral cavity and pharynx	134	98	36	2.1	3.1	1.1
Malignant neoplasm of esophagus	273	220	53	4.3	6.9	1.6
Malignant neoplasm of stomach	199	123	76	3.1	3.9	2.4
Malignant neoplasm of colon, rectum, and anus	952	520	432	14.9	16.4	13.4
Malignant neoplasm of liver and intrahepatic bile ducts	379	237	142	5.9	7.5	4.4
Malignant neoplasm of pancreas	707	373	334	11.1	11.7	10.4
Malignant neoplasm of larynx	66	51	15	1.0	1.6	0.5
Malignant neoplasm of trachea, bronchus and lung	2,655	1,465	1,190	41.5	46.1	37.0
Malignant melanoma of skin	191	133	58	3.0	4.2	1.8
Malignant neoplasm of breast	732	12	720	11.5	0.4	22.4
Malignant neoplasm of cervix uteri	68	0	68	1.1	0.0	2.1
Malignant neoplasm of corpus uteri and uterus, part unspecified	138	0	138	2.2	0.0	4.3
Malignant neoplasm of ovary	283	0	283	4.4	0.0	8.8
Malignant neoplasm of prostate	549	549	0	8.6	17.3	0.0
Malignant neoplasm of kidney and renal pelvis	286	189	97	4.5	6.0	3.0
Malignant neoplasm of bladder	247	183	64	3.9	5.8	2.0
Malignant neoplasm of meninges, brain and other parts of CNS	268	153	115	4.2	4.8	3.6
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,049	610	439	16.4	19.2	13.6
Hodgkin's disease	22	12	10	0.3	0.4	0.3
Non-Hodgkin's lymphoma	379	219	160	5.9	6.9	5.0
Leukemia	441	261	180	6.9	8.2	5.6
Multiple myeloma and immunoproliferative neoplasms	206	117	89	3.2	3.7	2.8
Other and unspecified malignant neoplasms of lymphoid tissue	1	1	0	0.0	0.0	0.0
All other and unspecified malignant neoplasm	1,247	723	524	19.5	22.8	16.3
In situ neoplasms	443	231	212	6.9	7.3	6.6
Anemias	50	19	31	0.8	0.6	1.0
Diabetes	1,372	773	599	21.5	24.3	18.6

TABLE 2B-6 (continued)
DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,
ARIZONA RESIDENTS, 2010

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Number of deaths:			Crude death rate per 100,000 persons:		
	Total	Male	Female	Total	Male	Female
Nutritional deficiencies	39	16	23	0.6	0.5	0.7
Malnutrition	37	16	21	0.6	0.5	0.7
Other nutritional deficiencies	2	0	2	0.0	0.0	0.1
Obesity	138	87	51	2.2	2.7	1.6
Meningitis	11	8	3	0.2	0.3	0.1
Parkinson's disease	488	296	192	7.6	9.3	6.0
Alzheimer's disease	2,314	753	1,561	36.2	23.7	48.5
Major cardiovascular diseases	12,754	6,663	6,091	199.5	209.8	189.4
Diseases of heart	9,719	5,351	4,368	152.0	168.5	135.8
Acute rheumatic fever and chronic rheumatic heart disease	42	15	27	0.7	0.5	0.8
Hypertensive heart disease	644	302	342	10.1	9.5	10.6
Hypertensive heart and renal disease	36	16	20	0.6	0.5	0.6
Ischemic heart disease	7,043	4,076	2,967	110.2	128.3	92.3
Acute myocardial infarction	1,494	827	667	23.4	26.0	20.7
Other acute ischemic heart disease	22	17	5	0.3	0.5	0.2
Other forms of chronic ischemic heart disease	5,527	3,232	2,295	86.5	101.8	71.4
Atherosclerotic cardiovascular disease	1,699	1,050	649	26.6	33.1	20.2
All other forms of chronic ischemic heart disease	3,828	2,182	1,646	59.9	68.7	51.2
Other heart diseases	1,954	942	1,012	30.6	29.7	31.5
Acute and subacute endocarditis	27	16	11	0.4	0.5	0.3
Diseases of pericardium and acute myocarditis	13	7	6	0.2	0.2	0.2
Heart failure	543	247	296	8.5	7.8	9.2
All other forms of heart disease	1,371	672	699	21.4	21.2	21.7
Essential (primary) hypertension and hypertensive renal disease	498	231	267	7.8	7.3	8.3
Cerebrovascular diseases	2,051	839	1,212	32.1	26.4	37.7
Atherosclerosis	153	69	84	2.4	2.2	2.6
Other diseases of circulatory system	333	173	160	5.2	5.4	5.0
Aortic aneurysm and dissection	167	108	59	2.6	3.4	1.8
Other disease of arteries, arterioles and capillaries	166	65	101	2.6	2.0	3.1
Other disorders of circulatory system	93	50	43	1.5	1.6	1.3
Influenza and pneumonia	729	370	359	11.4	11.7	11.2
Influenza	7	6	1	0.1	0.2	0.0
Pneumonia	722	364	358	11.3	11.5	11.1
Other acute lower respiratory infections	4	3	1	0.1	0.1	0.0
Acute bronchiolitis	4	3	1	0.1	0.1	0.0
Unspecified acute lower respiratory infection	0	0	0	0.0	0.0	0.0
Chronic lower respiratory diseases	2,892	1,419	1,473	45.2	44.7	45.8
Bronchitis, chronic and unspecified	7	5	2	0.1	0.2	0.1
Emphysema	229	128	101	3.6	4.0	3.1
Asthma	57	26	31	0.9	0.8	1.0
Other chronic lower respiratory diseases	2,599	1,260	1,339	40.7	39.7	41.6
Pneumoconioses and chemical effects	13	11	2	0.2	0.3	0.1
Pneumonitis due to solids and liquids	261	147	114	4.1	4.6	3.5
Other disease of respiratory system	501	277	224	7.8	8.7	7.0
Peptic ulcer	70	41	29	1.1	1.3	0.9
Diseases of appendix	8	3	5	0.1	0.1	0.2
Hernia	39	20	19	0.6	0.6	0.6

TABLE 2B-6 (continued)
DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,
ARIZONA RESIDENTS, 2010

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Number of deaths:			Crude death rate per 100,000 persons:		
	Total	Male	Female	Total	Male	Female
Chronic liver disease and cirrhosis	843	534	309	13.2	16.8	9.6
Alcoholic liver disease	604	414	190	9.4	13.0	5.9
Other chronic liver disease and cirrhosis	239	120	119	3.7	3.8	3.7
Cholelithiasis and other disorders of gallbladder	71	40	31	1.1	1.3	1.0
Nephritis, nephrotic syndrome and nephrosis	516	269	247	8.1	8.5	7.7
Acute and rapidly progressive nephritic and nephrotic syndrome	4	0	4	0.1	0.0	0.1
Chronic glomerulonephritis	90	41	49	1.4	1.3	1.5
Renal failure	422	228	194	6.6	7.2	6.0
Others disorders of kidney	0	0	0	0.0	0.0	0.0
Infections of kidney	9	3	6	0.1	0.1	0.2
Hyperplasia of prostate	11	11	0	0.2	0.3	0.0
Inflammatory diseases of female pelvic organs	2	0	2	0.0	0.0	0.1
Pregnancy, childbirth and the puerperium	12	0	12	0.2	0.0	0.4
Pregnancy with abortive outcome	0	0	0	0.0	0.0	0.0
Other complications of pregnancy, childbirth and the puerperium	12	0	12	0.2	0.0	0.4
Perinatal conditions	233	134	99	3.6	4.2	3.1
Congenital malformations	208	112	96	3.3	3.5	3.0
Symptoms, signs, abnormal findings	1,137	549	587	17.8	17.3	18.3
Total accidents	2,834	1,732	1,102	44.3	54.5	34.3
Transport accidents	767	539	228	12.0	17.0	7.1
Motor vehicle accidents	711	501	210	11.1	15.8	6.5
Other land transport accidents	21	16	5	0.3	0.5	0.2
Water, air, space	35	22	13	0.5	0.7	0.4
Nontransport accidents	2,067	1,193	874	32.3	37.6	27.2
Falls	762	357	405	11.9	11.2	12.6
Accidental discharge of firearms	11	8	3	0.2	0.3	0.1
Accidental drowning and submersion	86	66	20	1.3	2.1	0.6
Accidental exposure to smoke, fire and flames	25	17	8	0.4	0.5	0.2
Accidental poisoning	879	547	332	13.8	17.2	10.3
Other and unspecified nontransport accidents	304	198	106	4.8	6.2	3.3
Intentional self-harm (suicide)	1,070	846	224	16.7	26.6	7.0
By discharge of firearms	602	521	81	9.4	16.4	2.5
By other means	468	325	143	7.3	10.2	4.4
Assault (homicide)	404	330	74	6.3	10.4	2.3
By discharge of firearms	265	222	43	4.1	7.0	1.3
By other means	139	108	31	2.2	3.4	1.0
Legal intervention	12	12	0	0.2	0.4	0.0
Events of undetermined intent	162	92	70	2.5	2.9	2.2
Discharge of firearms	18	14	4	0.3	0.4	0.1
Other and unspecified events of undetermined intent	144	78	66	2.3	2.5	2.1
Operations of war	0	0	0	0.0	0.0	0.0
Complications of medical and surgical care	51	27	24	0.8	0.9	0.7
INJURY BY FIREARMS	907	776	131	14.2	24.4	4.1
DRUG-INDUCED DEATHS	1,106	638	468	17.3	20.1	14.6
ALCOHOL-INDUCED DEATHS	952	682	270	14.9	21.5	8.4

Note: The list of Causes of Death was developed for the general analysis of ICD-10 mortality statistics and for ranking of leading causes of death. It is similar in structure and content and replaces the list of 72 Selected Causes of Death used for ICD-9 mortality statistics.

**TABLE 2B-7
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY CATEGORY, GENDER AND YEAR, ARIZONA, 2000-2010**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ALL FORMS OF HEART DISEASE											
TOTAL	10,430	10,312	10,551	10,649	10,402	10,779	10,362	10,147	10,052	10,151	9,719
Male	5,594	5,469	5,642	5,649	5,543	5,789	5,538	5,455	5,535	5,558	5,351
Female	4,836	4,843	4,909	5,000	4,859	4,990	4,834	4,692	4,517	4,593	4,368
Acute rheumatic fever and chronic rheumatic heart disease											
TOTAL	32	37	46	63	46	55	57	38	57	51	42
Male	13	16	14	25	18	16	15	15	24	16	15
Female	19	21	32	38	28	39	42	23	33	35	27
Hypertensive heart and renal disease*											
TOTAL	*30	26	31	33	32	39	24	29	48	35	36
Male	13	11	14	20	9	18	13	15	22	18	16
Female	17	15	17	13	23	21	11	14	26	17	20
Ischemic heart disease											
TOTAL	7,949	7,656	7,962	8,037	7,836	8,060	7,628	7,163	7,326	7,372	7,043
Male	4,386	4,245	4,449	4,402	4,344	4,509	4,202	4,005	4,225	4,233	4,076
Female	3,563	3,411	3,513	3,635	3,492	3,551	3,426	3,158	3,101	3,139	2,967
Hypertensive heart disease											
TOTAL	261	355	431	440	463	487	506	646	636	698	644
Male	136	164	197	215	223	226	256	332	322	340	302
Female	125	191	234	225	240	261	250	314	314	358	342
Other heart diseases											
TOTAL	2,158	2,238	2,104	2,076	2,025	2,138	2,147	2,271	1,985	1,995	1,954
Male	1,046	1,033	968	987	949	1,020	1,052	1,088	942	951	942
Female	1,112	1,205	1,136	1,089	1,076	1,118	1,095	1,183	1,043	1,044	1,012

Note: Beginning in 2000, the causes of death are classified by ICD-10, replacing the Ninth Revision (ICD-9) used during 1979-1999.

* The comparability ratio for hypertensive heart and renal disease is 1.5, indicating a 50 percent increase in hypertensive heart and renal disease deaths when classified by ICD-10.

**TABLE 2B-8
NUMBER OF DEATHS FOR SELECTED SUBCATEGORIES OF MALIGNANT NEOPLASMS BY GENDER AND YEAR,
ARIZONA, 2000-2010**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ALL CANCERS	TOTAL	8,994	8,914	9,148	9,451	9,506	9,873	9,768	9,955	10,147	10,423
	Male	4,756	4,627	4,982	5,088	5,107	5,184	5,233	5,364	5,432	5,639
	Female	4,238	4,287	4,166	4,363	4,399	4,489	4,535	4,591	4,715	4,784
ICD-9 140-149/ICD-10 C00-C14	TOTAL	108	116	122	114	127	140	115	133	125	134
Malignant neoplasm of lip, oral cavity and pharynx (oropharyngeal cancer)	Male	65	80	91	85	87	95	80	91	101	98
	Female	43	36	31	29	40	45	35	42	50	36
ICD-9 150/ICD-10 C15	TOTAL	192	202	239	239	240	222	261	252	262	273
Malignant neoplasm of esophagus	Male	145	151	191	196	190	188	209	206	212	220
	Female	47	51	48	43	50	34	52	46	50	53
ICD-9 151/ICD-10 C16	TOTAL	180	183	197	177	189	200	190	186	200	199
Malignant neoplasm of stomach	Male	112	115	132	106	110	113	111	106	121	105
	Female	68	68	65	71	79	87	79	80	79	76
ICD-9 153, 154/ICD-10 C18-C21	TOTAL	888	871	887	995	870	915	917	966	896	887
Malignant neoplasm of colon, rectum, rectosigmoid junction and anus	Male	469	434	484	535	466	490	495	535	466	463
	Female	419	437	403	460	404	425	422	431	430	424
ICD-9 157/ICD-10 C25	TOTAL	472	519	477	474	551	579	575	629	636	622
Malignant neoplasm of pancreas	Male	242	260	244	240	306	305	301	362	340	304
	Female	230	259	233	234	245	274	274	267	296	318
ICD-9 162/ICD-10 C33-C34	TOTAL	2,489	2,381	2,565	2,682	2,656	2,607	2,718	2,573	2,632	2,691
Malignant neoplasm of trachea, bronchus and lung	Male	1,428	1,312	1,439	1,530	1,490	1,461	1,528	1,443	1,477	1,480
	Female	1,061	1,069	1,126	1,152	1,166	1,146	1,190	1,130	1,155	1,211
ICD-9 172/ICD-10 C43	TOTAL	143	128	156	150	152	169	179	188	168	226
Malignant melanoma of skin	Male	99	93	101	105	104	133	124	124	115	160
	Female	44	35	55	45	48	36	55	64	53	66
ICD-9 174,175/ICD-10 C50	TOTAL	719	680	656	672	664	677	745	724	734	716
Malignant neoplasm of breast	Male	8	13	10	5	1	7	6	6	9	8
	Female	711	667	646	667	663	670	739	718	725	708

**TABLE 2B-8 (continued)
NUMBER OF DEATHS FOR SELECTED SUBCATEGORIES OF MALIGNANT NEOPLASMS BY GENDER AND YEAR,
ARIZONA, 2000-2010**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ICD-9 180/ICD-10 C53											
Malignant neoplasm of cervix uteri											
TOTAL	80	74	63	63	64	65	54	62	60	64	68
Female	80	74	63	63	64	65	54	62	60	64	68
ICD-9 179, 182/ ICD-10 C54-C55											
Malignant neoplasm of body of uterus and of uterus, part unspecified											
TOTAL	63	91	75	81	98	107	97	97	115	108	138
Female	63	91	75	81	98	107	97	97	115	108	138
ICD-9 185/ICD-10 C61											
Malignant neoplasm of prostate											
TOTAL	600	501	533	544	544	564	522	548	568	551	549
Male	600	501	533	544	544	564	522	548	568	551	549
ICD-9 188/ICD-10 C67											
Malignant neoplasm of bladder											
TOTAL	221	216	209	229	238	244	238	270	258	264	247
Male	161	154	152	164	157	180	175	206	192	206	183
Female	60	62	57	65	81	64	63	64	66	58	64
ICD-9 189/ICD-10 C64-C65											
Malignant neoplasm of kidney and other and unspecified urinary organs											
TOTAL	184	215	230	215	227	248	238	231	247	240	286
Male	113	135	152	137	149	150	156	147	154	161	189
Female	71	80	78	78	78	98	82	84	93	79	97
ICD-9 191, 192/ICD-10 C70-C72											
Malignant neoplasm of brain											
TOTAL	222	211	210	214	224	276	248	248	268	275	268
Male	129	101	127	126	115	153	133	141	152	151	153
Female	93	110	83	88	109	123	115	107	116	124	115
ICD-9 201/ICD-10 81											
Hodgkin's disease											
TOTAL	20	20	26	16	17	17	19	30	17	16	22
Male	10	14	15	10	12	9	14	19	10	9	12
Female	10	6	11	6	5	8	5	11	7	7	10
ICD-9 200, 202/ICD-10 C82-C85											
Malignant lymphoma other than Hodgkin's disease											
TOTAL	366	384	409	386	370	381	373	362	434	388	379
Male	192	211	207	204	208	218	213	200	230	212	219
Female	174	173	202	182	162	163	160	162	204	176	160
ICD-9 203/ICD-10 C88, C90											
Multiple myeloma and immunoproliferative neoplasms											
TOTAL	146	166	192	169	202	201	199	213	203	189	206
Male	79	93	124	89	119	107	110	118	123	107	117
Female	67	73	68	80	83	94	89	95	80	82	89
Other malignant neoplasms											
TOTAL	2,901	1,956	1,902	2,031	2,073	2,061	2,080	2,243	2,092	2,340	2,417
Male	904	960	912	1,012	1,049	1,011	1,056	1,112	1,093	1,212	1,273
Female	997	996	990	1,019	1,024	1,050	1,024	1,131	999	1,128	1,144

Note: Beginning with the 2000 data year, the causes of death are classified by ICD-10, replacing the Ninth Revision (ICD-9) used during 1979-1999.

**TABLE 2B-9
NUMBER OF DEATHS FROM UNINTENTIONAL INJURIES IN ACCIDENTS BY CATEGORY AND YEAR AMONG
ARIZONA RESIDENTS, 2000-2010**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Total unintentional injury deaths	2,087	2,430	2,416	2,466	2,641	3,006	3,156	3,014	2,951	2,887	2,834
Railway accident	13	9	3	10	11	10	17	12	9	8	12
Motor vehicle accident	896	908	1,003	1,005	1,060	1,137	1,220	1,035	891	771	711
Water transport accident	6	6	4	1	4	5	3	1	4	2	1
Accident involving aircraft	20	9	19	23	21	9	32	17	32	15	16
Poisoning by drugs/medicaments	230	414	458	447	517	549	624	669	689	802	798
Poisoning by gases and vapors	20	32	24	18	16	14	22	52	77	85	81
Falls	374	445	448	469	526	685	702	720	748	731	762
Fire, flames, smoke	46	49	41	42	30	56	43	31	50	31	25
Excessive natural heat	23	21	35	40	34	74	62	28	33	39	51
Excessive natural cold	15	20	15	15	17	28	17	20	25	24	17
Contact with venomous snakes and lizards	1	0	0	0	1	0	0	0	1	0	1
Contact with venomous spiders	0	0	0	0	1	2	0	1	0	0	0
Contact with scorpions	1	1	1	0	0	0	0	0	0	0	0
Contact with hornets, wasps, bees	0	0	0	0	0	0	0	0	0	0	0
Bitten or struck by dog	1	1	0	1	2	1	2	2	1	4	1
Lightning	2	0	0	2	0	3	2	1	0	1	1
Storms and floods	0	3	0	4	0	0	1	1	0	0	1
Accidental drowning and submersion	94	80	65	83	97	83	87	85	78	99	86
Choked on food	35	20	18	41	36	27	30	22	35	43	39
Choked on other objects	34	32	54	59	48	62	48	61	53	49	57
Mechanical suffocation	19	57	23	25	21	27	26	43	29	25	28
Accidental discharge of firearms	11	*NA	26	13	13	15	9	13	10	7	11
Exposure to electric current	7	5	6	4	9	15	4	11	6	7	4
Overexertion	0	0	0	1	0	0	0	0	0	0	1
Adverse effects of drugs in therapeutic use	3	6	9	6	2	4	5	5	7	8	10
Misadventures to patients during medical/surgical care	43	44	46	49	46	39	51	44	40	42	41

Note: Beginning in 2000, the data are classified by the Tenth Revision of the International Classification of Diseases (ICD-10), replacing the Ninth Revision (ICD-9) used in Arizona during 1979-1999.

* Approximately 100 firearm fatalities that would have been classified as suicide, had the manual system of coding the underlying cause of death been in place, were misclassified as accidents in 2001. For more information see footnote on Table 3-1, Intentional Self-Harm (suicide), Arizona, 1996-2006, Injury Mortality Among Arizona Residents.

**TABLE 2B-10
NUMBER OF DEATHS FROM MOTOR VEHICLE-RELATED INJURIES BY PERSON INJURED, GENDER AND YEAR,
ARIZONA RESIDENTS, 2000-2010**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
TOTAL											
Total	896	908	1,003	1,005	1,060	1,137	1,220	1,035	891	771	711
Male	617	638	684	689	693	801	831	710	632	554	501
Female	279	270	319	316	367	336	389	325	259	217	210
Motorcyclist											
Total	71	61	81	76	89	113	115	103	113	99	69
Male	62	54	75	68	72	101	99	92	106	94	61
Female	9	7	6	8	17	12	16	11	7	5	8
Pedestrian											
Total	122	142	147	124	143	182	169	155	136	122	152
Male	97	101	103	88	99	141	123	103	101	90	115
Female	25	41	44	36	44	41	46	52	35	32	37
Pedal cyclist											
Total	20	26	8	14	21	39	30	18	12	22	21
Male	18	25	8	12	18	36	29	17	11	19	20
Female	2	1	0	2	3	3	1	1	1	3	1
Other person											
Total	683	679	767	791	807	803	906	759	630	528	469
Male	440	458	498	521	504	523	580	498	414	351	305
Female	243	221	269	270	33	280	326	261	216	177	164

Note: Beginning in 2000, the data are classified by the Tenth Revision of the International Classification of Diseases (ICD-10), replacing the Ninth Revision (ICD-9) used in Arizona during 1979-1999. The comparability ratio for motor vehicle accidents is 0.85, a decrease by 15 percent due to ICD-10.

**TABLE 2B-11 (correction)
LEADING CAUSES OF DEATH BY PLACE OF DEATH AND DECEDENT STATUS, ARIZONA, 2010**

Causes of death	TOTAL					IN HOSPITAL					NOT IN HOSPITAL				
	In-patient	Out-patient*	Died on arrival	Subtotal		Nursing home**	Residence	Other***	Unspecified	Subtotal					
TOTAL, ALL CAUSES	45,871	2,633	64	26,515	9,288	5,204	4,550	314	19,356						
Diseases of heart	9,719	926	21	6,347	1,466	1,037	862	7	3,372						
Coronary heart disease	7,687	811	19	5,047	1,114	813	707	6	2,640						
Malignant neoplasms	10,423	1,688	4	5,864	3,231	763	555	10	4,559						
Malignant neoplasm of trachea, bronchus and lung	2,655	454	1	1,505	819	192	136	3	1,150						
Malignant neoplasm of colon, rectum, and anus	952	125	0	522	289	79	62	0	430						
Malignant neoplasm of breast	732	100	0	398	236	56	42	0	334						
Malignant neoplasm of prostate	549	59	2	284	160	65	38	2	265						
Malignant neoplasm of cervix uteri	68	6	2	31	29	4	4	0	37						
Accident (unintentional injury)	2,834	574	13	1,714	354	110	652	4	1,120						
Accidental poisoning	879	70	2	711	9	1	158	0	168						
Falls	762	241	35	354	288	87	33	0	408						
Motor vehicle accidents	711	129	191	345	23	8	335	0	366						
Accidental drowning and submersion	86	16	25	51	1	0	34	0	35						
Chronic lower respiratory diseases	2,892	596	104	1,539	770	348	232	3	1,353						
Alzheimer's disease	2,314	67	14	542	453	748	569	2	1,772						
Cerebrovascular diseases	2,051	537	58	880	701	328	140	2	1,171						
Diabetes	1,372	327	127	959	195	155	61	2	413						
Intentional self-harm (suicide)	1,070	59	94	789	8	3	262	8	281						
Influenza and pneumonia	729	377	36	487	78	119	44	1	242						
Chronic liver disease and cirrhosis	843	312	29	526	226	61	30	0	317						
Nephritis, nephrotic syndrome and nephrosis	516	223	19	339	83	77	16	1	177						
Assault (homicide)	404	37	87	220	4	2	176	2	184						
Septicemia	425	313	15	342	54	24	3	2	83						
Parkinson's disease	488	29	3	175	99	126	88	0	313						
Essential (primary) hypertension & hypertensive renal disease	498	95	29	263	119	78	38	0	235						
Human immunodeficiency virus (HIV) disease	99	49	2	69	23	5	2	0	30						
Injury by firearms	907	47	129	625	1	1	280	0	282						
Drug-induced deaths	1,106	119	157	896	21	3	167	19	210						
Alcohol-induced deaths	952	298	61	650	187	42	71	2	302						

* Includes Emergency Room.

** Includes other long-term care facilities.

*** Includes hospices.



2C.

AGE-SPECIFIC MORTALITY

Six age-specific profiles of mortality are given on the following pages. The six developmental periods in the life span are:

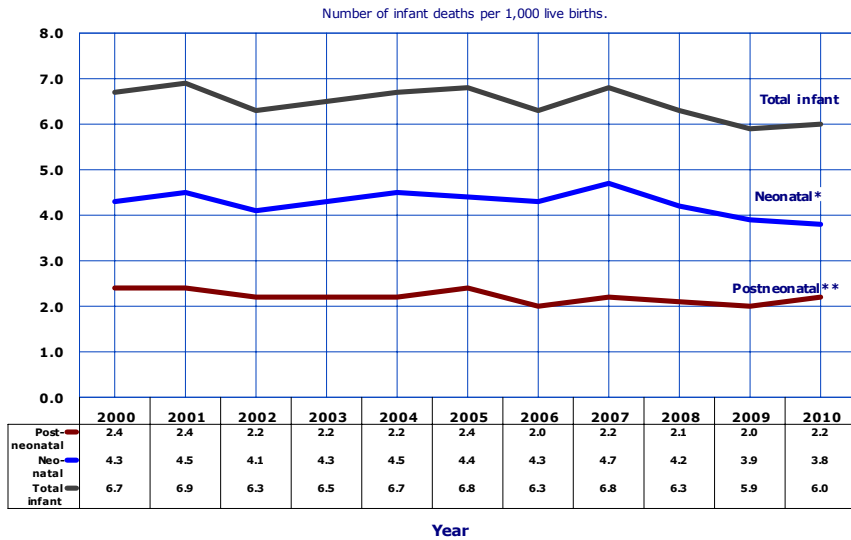
- **Infants** less than one year of age
- **Children** 1 to 14 years old
- **Adolescents** or persons 15 to 19 years old
- **Young adults** or persons 20 to 44 years old
- **Middle-aged adults** or persons 45 to 64 years old
- **Elderly** or persons 65 years or older.

For each age group, cause-specific mortality is compared between urban (i.e., Maricopa, Pima, Pinal and Yuma counties) and rural (all other counties) regions and between genders. Urban and rural regions also are compared in gender-specific total mortality.

A comparison of age-specific mortality for the 113 causes of death is provided in **Table 2C-27**. A comparison of age-specific mortality rates is in **Table 2C-28**.

2C. AGE-SPECIFIC MORTALITY
Infant mortality

Figure 2C-1
Infant Mortality Rates by Neonatal/Postneonatal Age and Year,
Arizona, 2000-2010



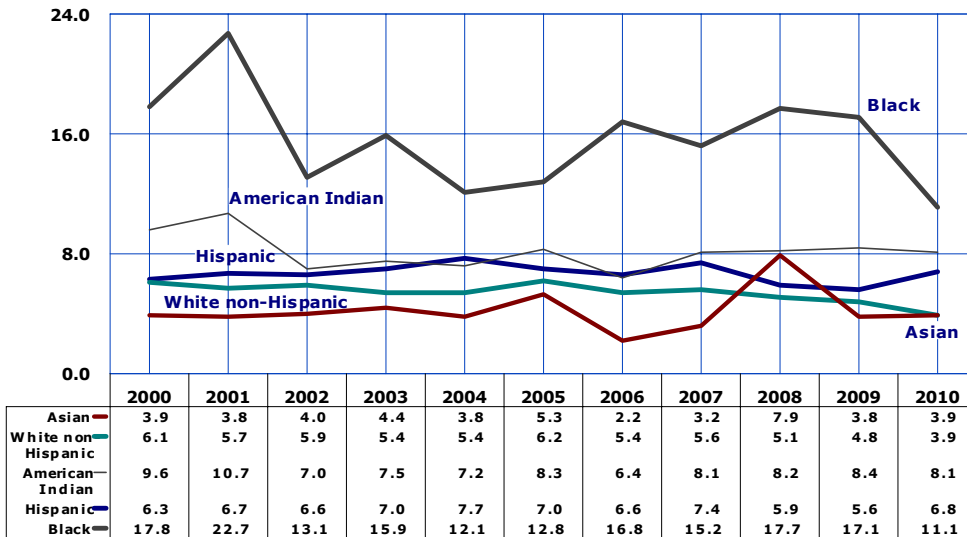
Deaths to infants age 0-27 days.
 **Deaths to infants age 28 days-1 year.

Infant mortality is defined as the number of deaths within the first year of life. The infant mortality rate (IMR) is computed as the number of infant deaths in a calendar year per 1,000 live births recorded for the same period.

In 2010, 519 Arizona infants died before reaching their first birthday, 182 fewer than the latest peak of 701 infant deaths in 2007 (**Table 2C-2**). Even if the risk of infant mortality remained the same as it was in 2007, 106 fewer infant deaths can be attributed to the absolute reduction in the number births by 15,634 from 2007 to 2010 ($(15,634 \times 6.8)/1,000 = 106$).

Based on the actual number of infant deaths and live births in 2010, the infant mortality rate of 6.0/1,000 was the second lowest IMR ever recorded in the State's history (**Figure 2C-1**).

Figure 2C-2
Infant Mortality Rates^a by Race/Ethnicity and Year,
Arizona, 2000-2010



Number of infant deaths per 1,000 live births in specified group.

In 2010, 94 percent* of all infant death records were successfully matched to their corresponding birth records. Among the 519 infants who died in 2010, 69 were born in 2009.

The mortality risk for infants varies by race/ethnicity. Infants of Asian or Pacific Islander mother, followed by babies of White non-Hispanic and Hispanic or Latino mothers had the lowest infant mortality rates among the race/ethnic groups in 2010 (**Figure 2C-2, Table 2C-2**).

In 2010, Black infants continued to have the worst survival chances among the ethnic groups (**Figure 2C-2**). The Black IMR decreased from 17.1/1,000 in 2009 to 11.1/1,000 in 2010.

*Infant death records that were not linked to their corresponding birth certificates include unrecorded home births (i.e., no birth certificates was issued) and out-of-State births (i.e., the State issuing the certificate of birth did not send a copy to Arizona).

2C. AGE-SPECIFIC MORTALITY
Infant mortality

Figure 2C-3
Proportion of Infant Deaths by Birthweight, Arizona, 2010

Newborn weight at birth is one of the most important predictors of an infant's survival chances. In 2010, the mortality rate among babies weighing less than 500 grams at birth was 89.9 percent (**Figure 2C-3**).

The absolute number of low birthweight births actually declined for the third consecutive year from 7,285 in 2007 to 6,155 in 2010. In 2010 the proportion of babies whose weight at birth was less than 1,000 grams also decreased from 8.0 percent of all low birthweight births in 2009 to 7.1 percent in 2010 (**Table 1B-3**).

Together, births of infants weighing less than 1,000 grams accounted for 0.5 percent of births, and 38.5 percent of all infant deaths

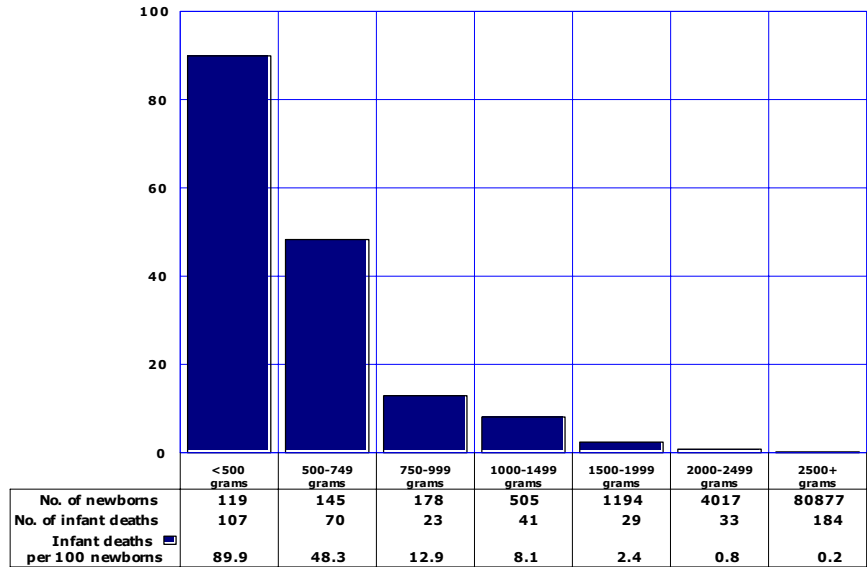
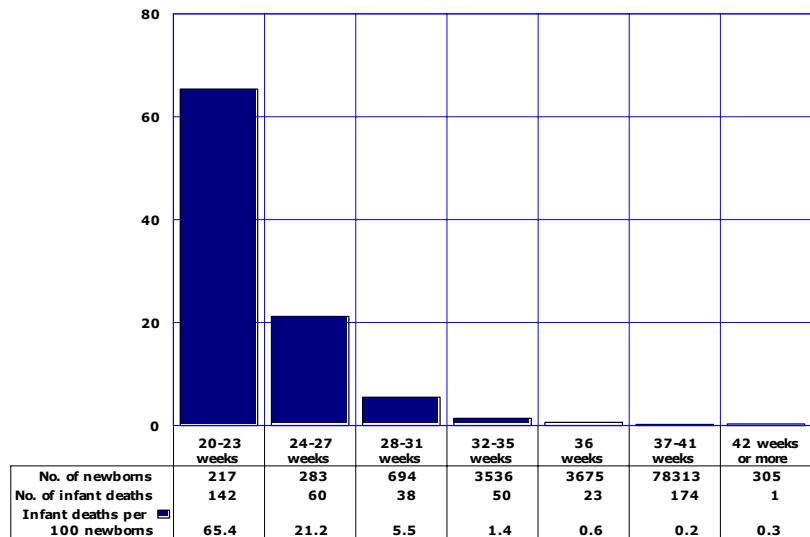


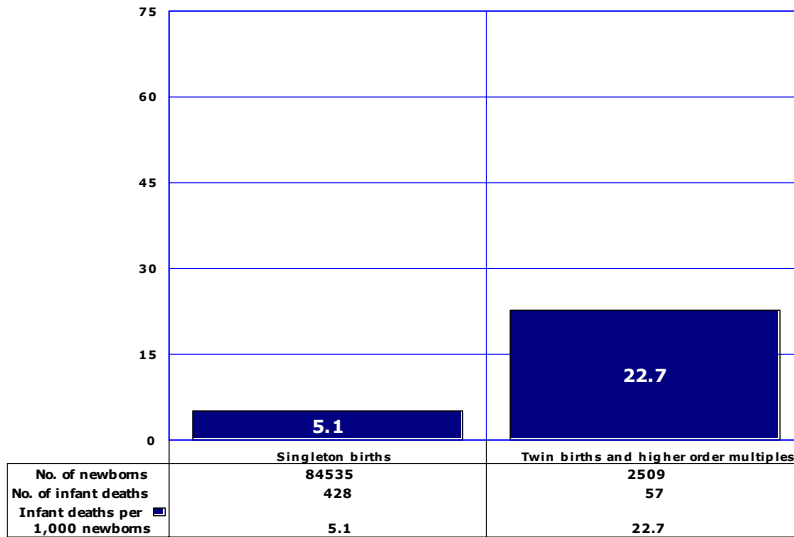
Figure 2C-4
Proportion of Infant Deaths by Gestational Age, Arizona, 2010

As with low birthweight, preterm and very preterm infants have a large impact on the total infant mortality rate because of their much higher risk of infant mortality. For example, births at less than 27 weeks of gestation accounted for only 0.6 percent of all births but 38.9 percent of infant deaths in Arizona in 2010. Births at less than 24 weeks of gestation have a very high infant mortality rate of 65.4 percent (**Figure 2C-4**). Overall, preterm infants (those born at less than 37 weeks of gestation) accounted for 9.6 percent of births (**Table 1B-2**) and 60.3 percent of all infant deaths.



2C. AGE-SPECIFIC MORTALITY
Infant mortality

Figure 2C-4.2
Infant Mortality Rates for Single and Multiple Births, Arizona, 2010

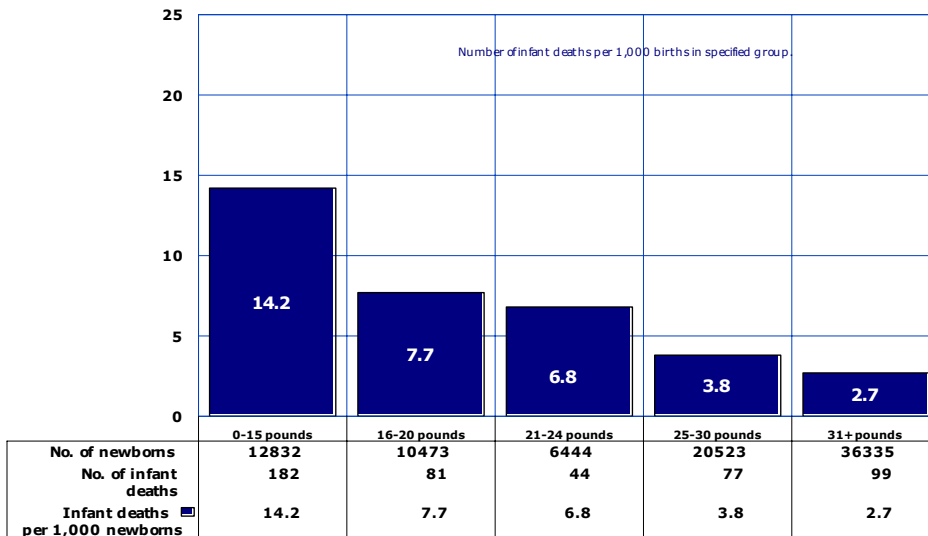


As already noted in Section 1B, infants born in multiple deliveries tend to be born at shorter gestations and smaller than those in singleton deliveries. In 2010, infants born in multiple deliveries were 12.8 times more likely (47.2 vs. 3.7 percent) to be born earlier than expected (at less than 37 completed weeks of gestation) and smaller (at less than 2,500 grams) than singleton births (**Figure 1B-10**).

The infant mortality rate for single births was 5.1 in 2010 (**Figure 2C-4.2**). The infant mortality rate for twin births or higher order multiples was 22.7.

Babies born in multiple deliveries accounted for 2.9 percent of births (**Table 1B-2**), but 11.0 percent of all infant deaths in Arizona in 2010.

Figure 2C-4.3
Infant Mortality Rates by Maternal Weight Gain during Pregnancy, Arizona, 2010



Infant mortality rates vary with maternal weight gain during pregnancy. Insufficient or excessive weight gain during pregnancy can negatively impact both maternal and pregnancy outcome. In 2010, as in previous years, the risk of infant death decreased with increasing maternal weight gain, including maternal weight gain of 31 or more pounds (**Figure 2C-4.3**). Among the 36,335 women giving birth in 2010 who gained 31 or more pounds, the risk of infant mortality was 2.7/1,000.

There is no coincidence that mother's weight gain has been shown to have a positive correlation with infant birthweight (**Figure 1B-22**).

2C. AGE-SPECIFIC MORTALITY
Infant mortality

Figure 2C-4.4
Infant Mortality Rates by Mother's Age Group, Arizona, 2010

Infant mortality rates vary with maternal age. In 2010, infant mortality decreased with increasing maternal age through 35-39 years of age but increased for infants born to women 40 years of age or older. (**Figure 2C-4.4**).

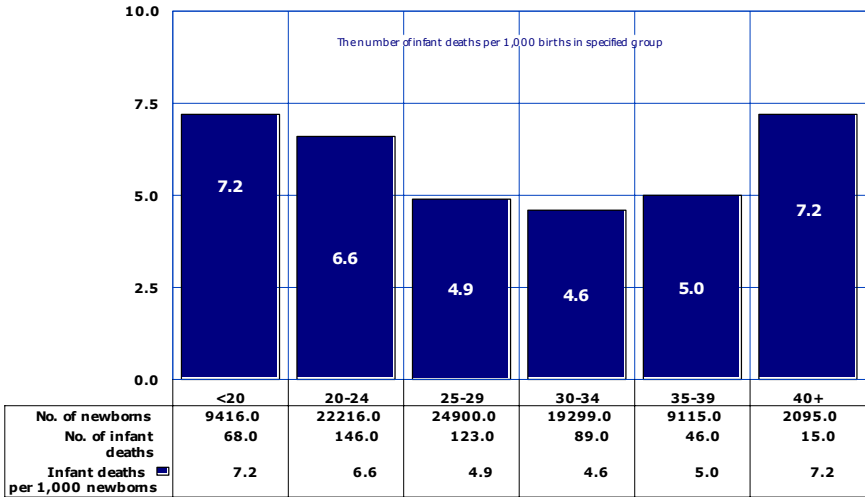
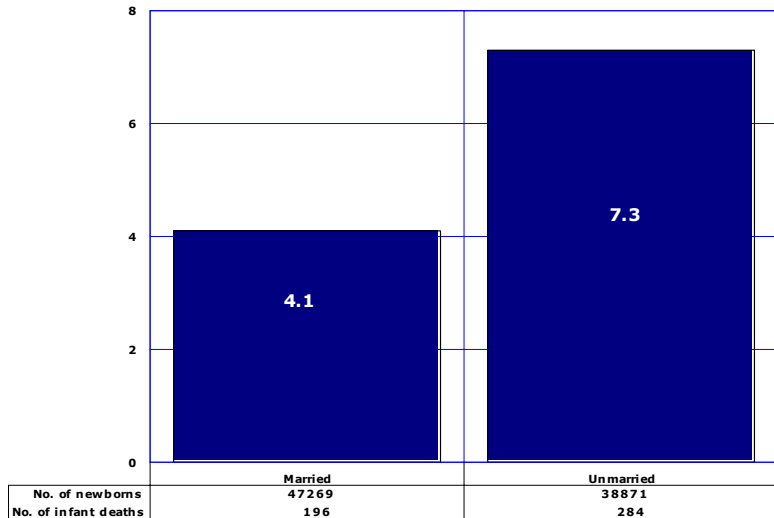


Figure 2C-4.5
Infant Mortality Rates by Mother's Marital Status, Arizona, 2010

Infants born to unmarried mothers accounted for the absolute majority of infant deaths in 2010 (284 vs. 196); while the number of births to married mothers exceeded by 21.6 percent the number of births to unmarried mothers (47,269 vs. 38,871; **Table 1B-26**). In 2010, infants of married mothers had an infant mortality rate of 4.1 deaths per 1,000 live births, 43.2 percent lower than the rate for infants of unmarried mothers (7.3 infant deaths per 1,000 live births; **Figure 2C-4.5**). The effect of marital status on infant mortality suggests that marital status is a proxy measure of factors traditionally related to infant mortality such as poverty conditions, access to health care or social support. Mother's marital status may signify the presence or absence of emotional, social, and financial resources.



Additional information is available in our special report on "Marital Status and Health, Arizona Residents, 2006" at www.azdhs.gov/plan/report/ms/ms06/index.htm

**TABLE 2C-1
INFANT, NEONATAL AND POSTNEONATAL MORTALITY RATES AND PERCENT POSTNEONATAL DEATHS,
UNITED STATES, ARIZONA AND URBAN/RURAL COUNTIES OF ARIZONA, 2000-2010**

UNITED STATES	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Infant mortality ¹	6.9	6.8	7.0	6.9	6.7	6.9	6.7	6.7	6.7	6.6	NA
Neonatal mortality ¹	4.6	4.6	4.7	4.6	4.5	4.6	4.5	4.4	4.4	NA	NA
Postneonatal mortality ¹	2.3	2.3	2.3	2.3	2.2	2.3	2.2	2.3	2.3	NA	NA
Percent postneonatal mortality ²	33.3	33.3	33.8	33.3	32.8	33.3	32.8	34.3	34.3	NA	NA
ARIZONA, STATEWIDE TOTAL											
Infant mortality ¹	6.7	6.9	6.3	6.5	6.7	6.8	6.3	6.8	6.3	5.9	6.0
Neonatal mortality ¹	4.3	4.5	4.1	4.3	4.5	4.4	4.3	4.7	4.2	3.9	3.8
Postneonatal mortality ¹	2.4	2.4	2.2	2.2	2.2	2.4	2.0	2.2	2.1	2.0	2.2
Percent postneonatal mortality ²	35.9	34.8	35.0	33.8	32.8	35.3	31.5	32.4	33.3	34.0	36.7
URBAN COUNTIES											
Infant mortality ¹	6.5	6.9	6.4	6.4	6.7	6.5	6.3	6.6	6.3	5.9	5.7
Neonatal mortality ¹	4.2	4.7	4.2	4.4	4.7	4.3	4.3	4.6	4.3	4.0	3.7
Postneonatal mortality ¹	2.3	2.2	2.2	2.0	2.0	2.2	2.0	2.0	2.0	2.0	2.0
Percent postneonatal mortality ²	35.4	31.9	34.4	31.5	29.9	33.8	31.3	30.3	31.8	33.0	35.1
RURAL COUNTIES											
Infant mortality ¹	7.7	6.3	6.2	7.1	6.9	8.6	6.3	8.0	6.2	5.5	7.4
Neonatal mortality ¹	4.6	3.4	3.8	3.8	3.8	5.0	4.3	4.8	3.5	3.9	4.5
Postneonatal mortality ¹	3.1	2.9	2.4	3.3	3.1	3.6	2.0	3.3	2.7	2.0	2.9
Percent postneonatal mortality ²	40.3	46.0	38.7	46.2	44.9	41.9	32.6	41.3	43.6	38.7	37.7

¹Rates per 1,000 live births. The U.S. rates are from the National Center for Health Statistics. The 2009 U.S. rates are provisional. The 2010 rates are not available.

²Total infant mortality = 100 percent.

Note: Urban = Maricopa, Pima, Pinal and Yuma Counties. The remaining counties comprise Arizona's rural areas. Records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

**TABLE 2C-2
NUMBER AND RATE¹ OF INFANT DEATHS BY RACE/ETHNICITY AND GENDER, ARIZONA, 2000-2010
NUMBER OF INFANT DEATHS:**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
White non-Hispanic											
Total	244	221	229	208	211	245	232	237	215	192	151
Male	149	138	147	124	129	140	119	135	114	109	88
Female	95	83	82	84	82	105	113	102	101	83	63
Hispanic or Latino											
Total	213	236	238	274	314	296	297	338	251	215	235
Male	105	119	139	148	168	161	173	186	142	115	144
Female	108	117	99	126	146	135	124	152	109	100	91
Black or African American											
Total	49	62	36	48	39	44	65	63	76	75	48
Male	28	36	18	26	26	30	36	42	42	41	20
Female	21	26	18	22	13	14	29	21	34	34	28
American Indian or Alaska Native											
Total	54	57	39	44	44	52	41	52	52	52	47
Male	33	29	22	22	24	25	28	29	27	28	28
Female	21	28	17	22	20	27	13	23	25	24	19
Asian or Pacific Islander											
Total	8	8	9	11	10	15	7	11	27	13	13
Male	5	4	6	6	4	7	5	7	15	6	9
Female	3	4	3	5	6	8	2	4	12	7	4
All groups²											
Total	568	587	552	586	622	653	642	701	625	547	519
Male	320	327	332	326	353	364	361	399	343	299	302
Female	248	260	220	260	269	289	281	302	282	248	217

INFANT MORTALITY RATES:

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
White non-Hispanic											
Total	6.1	5.7	5.9	5.4	5.4	6.2	5.4	5.6	5.1	4.8	3.9
Male	7.3	6.9	7.3	6.2	6.4	6.9	5.4	6.3	5.3	5.4	4.4
Female	4.9	4.4	4.4	4.4	4.3	5.5	5.4	4.9	4.9	4.3	3.3
Hispanic or Latino											
Total	6.3	6.7	6.6	7.0	7.7	7.0	6.6	7.4	5.9	5.6	6.8
Male	6.0	6.7	7.5	7.4	8.0	7.5	7.5	7.9	6.5	5.8	8.3
Female	6.5	6.8	5.6	6.6	7.3	6.6	5.7	6.8	5.2	5.3	5.4
Black or African American											
Total	17.8	22.7	13.1	15.9	12.1	12.8	16.8	15.1	17.7	17.1	11.1
Male	20.0	26.8	12.6	16.6	15.7	17.2	18.3	19.5	18.7	18.0	9.1
Female	15.4	18.7	13.6	15.1	8.3	8.2	15.3	10.5	16.6	16.2	13.1
American Indian or Alaska Native											
Total	9.6	10.7	7.0	7.5	7.2	8.3	6.4	8.1	8.2	8.4	8.1
Male	11.6	10.9	7.9	7.6	7.7	7.8	8.8	9.0	8.5	9.0	9.5
Female	7.6	10.5	6.2	7.4	6.7	8.7	4.1	7.2	7.9	7.8	6.6
Asian or Pacific Islander											
Total	3.9	3.8	4.0	4.4	3.8	5.3	2.2	3.2	7.9	3.8	3.9
Male	4.9	3.8	5.2	4.7	2.9	4.9	3.1	3.9	8.5	3.4	5.4
Female	3.0	3.8	2.7	4.0	4.8	5.8	1.3	2.5	7.2	4.3	2.5
All groups²											
Total	6.7	6.9	6.3	6.5	6.7	6.8	6.3	6.8	6.3	5.9	6.0
Male	7.4	7.5	7.4	7.0	7.4	7.4	6.9	7.6	6.8	6.3	6.8
Female	6.0	6.2	5.2	5.9	5.9	6.2	5.6	6.0	5.8	5.5	5.1

¹Number of infant deaths per 1,000 live births in specified ethnic/gender group. Infant deaths are by the race/ethnicity of the decedent. For consistency with the national data, the denominators used to calculate infant mortality rates were changed from race/ethnicity of parents to race/ethnicity of mother as stated on the birth certificate. The change in the basis for calculating infant mortality rates results in lower rates for white infants and higher rates for most minority infants than when they are computed by the previous method.

²Includes records with other and unknown ethnic group.

**TABLE 2C-3
NUMBER AND RATE¹ OF INFANT DEATHS BY RACE/ETHNICITY AND AGE GROUP, 2000-2010
NUMBER OF INFANT DEATHS:**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
White non-Hispanic											
Total	244	221	229	208	211	245	232	237	215	192	151
Neonatal	153	156	151	143	155	163	161	161	138	129	96
Postneonatal	91	65	78	65	56	82	71	76	77	63	55
Hispanic or Latino											
Total	213	236	238	274	314	296	297	338	251	215	235
Neonatal	144	159	165	190	209	205	213	239	175	150	156
Postneonatal	69	77	73	84	105	91	84	99	76	65	79
Black or African American											
Total	49	62	36	48	39	44	65	63	76	75	48
Neonatal	27	41	16	31	25	19	37	43	51	46	32
Postneonatal	22	21	20	17	14	25	28	20	25	29	16
American Indian or Alaska Native											
Total	54	57	39	44	44	52	41	52	52	52	47
Neonatal	36	22	20	18	21	27	26	27	29	26	22
Postneonatal	18	35	19	26	23	25	15	25	23	26	25
Asian or Pacific Islander											
Total	8	8	9	11	10	15	7	11	27	13	13
Neonatal	4	5	7	5	7	9	3	9	22	10	11
Postneonatal	4	3	2	6	3	6	4	2	5	3	2
All groups²											
Total	568	587	552	586	622	653	642	701	625	547	519
Neonatal	364	386	360	388	421	424	440	479	419	361	330
Postneonatal	204	201	192	198	201	229	202	222	206	186	189

INFANT MORTALITY RATES:

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
White non-Hispanic											
Total	6.1	5.7	5.9	5.4	5.4	6.2	5.4	5.6	5.1	4.8	3.9
Neonatal	3.8	4.0	3.9	3.7	3.9	4.1	3.7	3.8	3.3	3.2	2.5
Postneonatal	2.3	1.7	2.0	1.7	1.4	2.1	1.7	1.8	1.8	1.6	1.4
Hispanic or Latino											
Total	6.3	6.7	6.6	7.0	7.7	7.0	6.6	7.4	5.9	5.6	6.8
Neonatal	4.2	4.5	4.6	4.9	5.1	4.9	4.7	5.2	4.1	3.9	4.5
Postneonatal	2.0	2.2	2.0	2.1	2.6	2.1	1.9	2.2	1.8	1.7	2.3
Black or African American											
Total	17.8	22.7	13.1	15.9	12.1	12.8	16.8	15.1	17.7	17.1	11.1
Neonatal	9.8	15.0	5.8	10.3	7.8	5.5	9.6	10.3	11.9	10.5	7.4
Postneonatal	8.0	7.7	7.3	5.6	4.4	7.3	7.2	4.8	5.8	6.6	3.7
American Indian or Alaska Native											
Total	9.6	10.7	7.0	7.5	7.2	8.3	6.4	8.1	8.2	8.4	8.1
Neonatal	6.4	4.1	3.6	3.1	3.4	4.3	4.0	4.2	4.6	4.2	3.8
Postneonatal	3.2	6.6	3.4	4.4	3.8	4.0	2.4	3.9	3.6	4.2	4.3
Asian or Pacific Islander											
Total	3.9	3.8	4.0	4.4	3.8	5.3	2.2	3.2	7.9	3.8	3.9
Neonatal	2.0	2.4	3.1	2.0	2.7	3.2	1.0	2.6	6.4	2.9	3.3
Postneonatal	2.0	1.4	0.9	2.4	1.1	2.1	1.2	0.6	1.5	0.9	0.6
All groups²											
Total	6.7	6.9	6.3	6.5	6.7	6.8	6.3	6.8	6.3	5.9	6.0
Neonatal	4.3	4.5	4.1	4.3	4.5	4.4	4.3	4.7	4.2	3.9	3.8
Postneonatal	2.4	2.4	2.2	2.2	2.2	2.4	2.0	2.2	2.1	2.0	2.2

¹Number of infant deaths per 1,000 live births in specified ethnic/gender group. Infant deaths are by the race/ethnicity of the decedent. For consistency with the national data, the denominators used to calculate infant mortality rates were changed from race/ethnicity of parents to race/ethnicity of mother as stated on the birth certificate. The change in the basis for calculating infant mortality rates results in lower rates for white infants and higher rates for most minority infants than when they are computed by the previous method.

**TABLE 2C-4
NEONATAL, POSTNEONATAL AND TOTAL INFANT MORTALITY BY CHILD'S GENDER AND MOTHER'S RACE/ETHNICITY,
ARIZONA, 2010**

	NUMBER OF DEATHS BY AGE			MORTALITY RATES ¹		
	Total	Neonatal	Postneonatal	Total	Neonatal	Postneonatal
TOTAL, ALL GROUPS	519	330	189	6.0	3.8	2.3
Male	302	190	112	6.8	4.3	2.5
Female	217	140	77	5.1	3.3	1.8
White non-Hispanic	151	96	55	3.9	2.3	1.6
Male	88	60	28	4.4	3.0	1.4
Female	63	36	27	3.3	1.9	1.4
Hispanic or Latino	235	156	79	6.8	4.5	2.3
Male	144	95	49	8.3	5.5	2.8
Female	91	61	30	5.4	3.6	1.8
Black or African American	48	32	16	11.1	7.4	3.7
Male	20	10	10	9.1	4.5	4.5
Female	28	22	6	13.1	10.3	2.8
American Indian or Alaska Native	47	22	25	8.1	3.8	4.3
Male	28	15	13	9.5	5.1	4.4
Female	19	7	12	6.6	2.4	4.2
Asian or Pacific Islander	13	11	2	3.9	3.3	0.6
Male	7	5	2	5.4	3.0	1.2
Female	6	6	0	2.5	3.7	0.0

¹Number of deaths per 1,000 live births in specified gender group by mother's race/ethnicity. Denominators are from Table 5B-8.
Note: Rates based on fewer than 10 cases are not statistically reliable.

**TABLE 2C-5
NUMBER OF DEATHS FOR SELECTED LEADING CAUSES OF INFANT MORTALITY BY YEAR, ARIZONA, 2000-2010**

Causes of death	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Congenital malformations, deformations and chromosomal abnormalities	134	141	99	126	152	149	142	159	145	122	114
of respiratory system	21	14	11	10	14	15	9	9	5	5	9
of brain, spinal cord or nervous system	14	18	18	23	20	19	28	20	24	15	21
Short gestation and low birth weight	55	73	95	85	84	79	93	95	91	101	64
Maternal complications	15	27	34	31	36	47	42	30	53	31	27
Sudden infant death syndrome	24	34	36	28	25	32	37	43	21	42	34
Accidents (unintentional injuries)	15	25	21	23	19	24	17	30	19	18	18
Influenza and pneumonia	16	20	19	21	17	19	13	5	4	10	3
Assault (homicide)	6	5	3	11	5	8	11	12	4	2	6
Intrauterine hypoxia or birth asphyxia	15	7	15	10	14	12	7	11	11	4	5
Respiratory distress syndrome	8	14	6	8	8	12	12	8	11	8	7
Total, all causes	568	587	552	586	622	653	642	701	625	547	519

Note: Leading causes of infant mortality are based on the list of 130 causes of infant death according to the Tenth Revision, International Classification of Diseases (ICD-10).

**TABLE 2C-6
INFANT MORTALITY RATES¹ FOR SELECTED LEADING CAUSES OF DEATH BY YEAR, ARIZONA, 2000-2010**

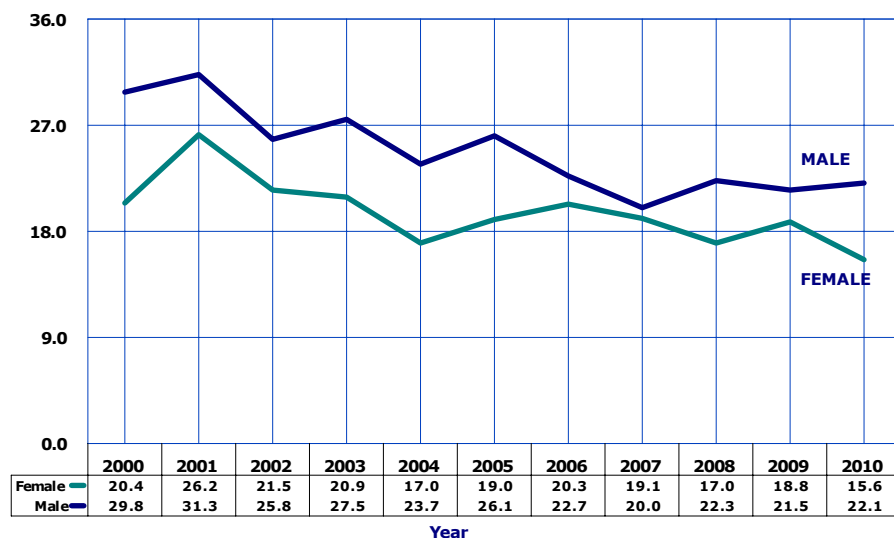
Causes of death	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Congenital malformations, deformations and chromosomal abnormalities	1.6	1.7	1.1	1.4	1.6	1.6	1.4	1.5	1.5	1.3	1.3
of respiratory system	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
of brain, spinal cord or nervous system	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2
Short gestation and low birth weight	0.6	0.9	1.1	0.9	0.9	0.8	0.9	0.9	0.9	1.1	0.7
Maternal complications	0.2	0.3	0.4	0.3	0.4	0.5	0.4	0.3	0.5	0.3	0.3
Sudden infant death syndrome	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.2	0.4	0.4
Accidents (unintentional injuries)	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2
Influenza and pneumonia	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.0
Assault (homicide)	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1
Intrauterine hypoxia or birth asphyxia	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
Respiratory distress syndrome	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total, all causes	6.7	6.9	6.3	6.5	6.7	6.8	6.3	6.8	6.3	5.9	6.0

¹Number of infant deaths per 1,000 live births.

Note: Leading causes of infant mortality are based on the list of 130 causes of infant death according to the Tenth Revision, International Classification of Diseases (ICD-10). Rates based on fewer than 10 infant deaths are not statistically reliable.

2C.AGE-SPECIFIC MORTALITY
Childhood mortality (ages 1-14 years)

Figure 2C-5
Mortality Rates by Gender and Year among Children 1-14 Years,
Arizona, 2000-2010

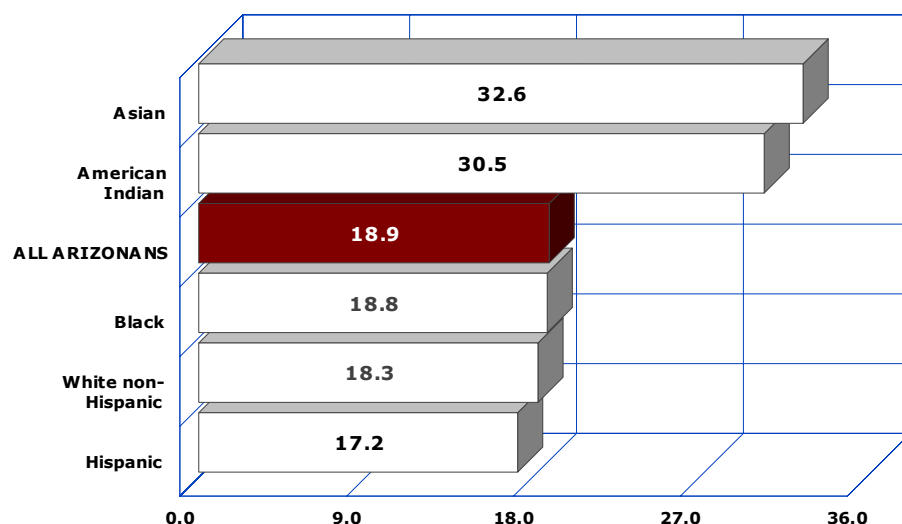


Death claimed the lives of 240 of the 1,271,006 children (1 to 14 years old) residing in Arizona in 2010. Their 2010 mortality rate of 18.9 per 100,000 was 6.4 percent lower than the rate of 20.2 in 2009 (**Table 2C-7**). Females but not males experienced a decrease in their total mortality rates from 2009 to 2010 (**Figure 2C-5, Table 2C-7**).

The five causes with the greatest number of deaths over the 2000-2010 period were *accidents* (unintentional injuries), *malignant neoplasms*, *congenital malformations*, *homicide* and *suicide* (**Table 2C-7**).

Number of deaths per 100,000 persons, 1-14 years old in specified group.

Figure 2C-6
Mortality Rates by Race/Ethnicity among Children 1-14 Years,
Arizona, 2010



Unexpectedly, Asian or Pacific Islander children had the highest 2010 total mortality rate (32.6 deaths per 100,000) followed by American Indian children (30.5/100,000; **Figure 2C-6**). The mortality rates of Black or African American, White non-Hispanic, and Hispanic or Latino children were lower than the average rate for all groups.

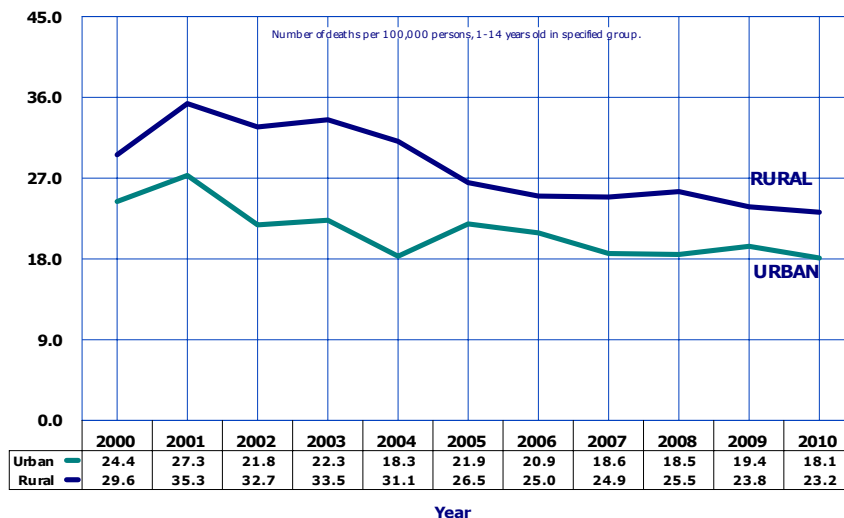
It is important to note that the rate for Asian or Pacific Islander children is based on only 11 deaths (**Table 2C-10**), and it is not statistically reliable.

In 2010, there were 9 completed *suicides* of children aged 1-14 years (**Table 2C-10**).

Number of deaths per 100,000 persons, 1-14 years old in specified group.

2C.AGE-SPECIFIC MORTALITY
Childhood mortality (ages 1-14 years)

Figure 2C-7
Mortality Rates by Urban*/Rural Area and Year among Children 1-14 Years, Arizona, 2000-2010

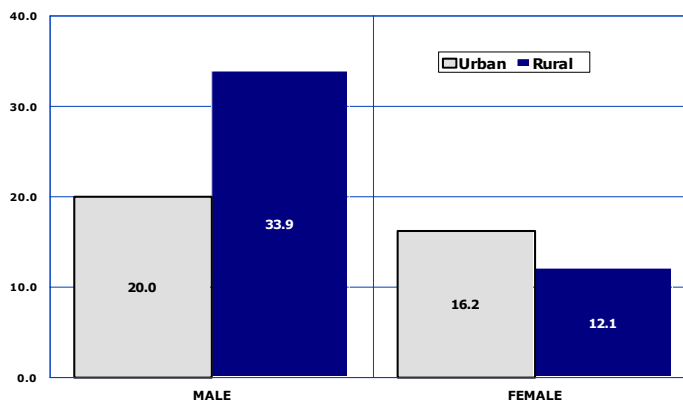


From 2008 to 2009 the total mortality rates increased for urban children but they decreased for rural children (**Figure 2C-7, Table 2C-8**).

In 2010, the mortality rates decreased for both urban and rural children (**Figure 2C-7**). From 2001 to 2010 the total mortality rates decreased by 33.6 percent for urban children and by 34.3 for rural children.

Maricopa, Pima, Pinal and Yuma Counties.

Figure 2C-8
Mortality Rates by Gender in Urban*/Rural Areas among Children 1-14 Years, Arizona, 2010



From 2009 to 2010, the mortality rate for congenital malformations decreased for rural but not urban children (**Table 2C-8**). The mortality rate for unintentional injuries among rural children (10.8/100,000) was 1.8 times the rate among urban children (6.0/100,000, **Table 2C-8**). Urban children, in contrast, had a 4.6 times greater mortality rate for cancer than rural children (2.3 deaths per 100,000 vs. 0.5 deaths per 100,000).

Rural females 1-14 years old had the lowest 2010 mortality risk among gender by area groups, followed by urban females, urban males and rural males.

Rate: The number of deaths per 100,000 children in specified area and gender.
 *Maricopa, Pima, Pinal and Yuma Counties.

**TABLE 2C-7
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES² OF DEATH AMONG CHILDREN (1-14 YEARS) BY GENDER,
ARIZONA, 2000-2010**

Gender/Cause	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
MALE												
Accidents (unintentional injuries)	13.6	13.7	9.6	11.3	9.5	10.0	8.0	8.3	7.8	8.0	8.2	-39.7
Motor vehicle accidents	6.6	6.5	5.1	6.5	5.2	4.5	4.2	4.6	2.5	4.2	3.1	-53.0
Drowning	3.5	3.5	2.4	2.8	2.7	2.3	0.9	1.5	2.9	2.6	2.5	-28.6
Other	3.5	3.7	2.1	2.0	1.6	3.2	2.9	2.2	2.4	1.2	2.6	-25.7
Malignant neoplasms	2.7	2.5	1.4	2.7	1.6	1.7	1.7	2.2	2.5	3.1	1.9	-29.6
Congenital malformations	1.1	1.4	1.2	1.7	1.6	1.9	2.3	0.7	1.8	1.5	1.5	36.4
Assault (homicide)	1.1	1.9	1.9	0.7	2.3	2.0	1.5	1.3	1.2	0.9	2.0	81.8
Intentional self-harm (suicide)	0.9	1.6	1.0	1.2	0.3	1.1	0.5	0.4	0.9	0.4	1.2	33.3
ALL CAUSES	29.8	31.3	25.8	27.5	23.7	26.1	22.7	20.0	22.3	21.5	22.1	-25.8
(Number of all deaths)	(164)	(178)	(151)	(166)	(147)	(168)	(150)	(134)	(152)	(148)	(143)	(-12.8)
FEMALE												
Accidents (unintentional injuries)	7.8	9.4	7.3	6.8	6.6	7.8	7.8	6.3	4.6	5.5	5.1	-34.6
Motor vehicle accidents	5.0	4.1	4.5	4.2	4.1	4.6	4.1	3.6	2.8	2.9	2.4	-52.0
Drowning	2.1	2.6	1.4	1.2	1.2	1.6	2.1	0.8	0.9	0.6	1.3	-38.1
Other	0.7	2.7	1.4	1.4	1.0	1.6	1.6	1.9	0.9	2.0	1.4	100.0
Malignant neoplasms	2.7	2.2	2.5	2.6	2.0	2.1	0.9	4.2	2.0	1.8	2.2	-18.5
Assault (homicide)	0.6	2.4	1.3	1.0	0.7	0.8	0.8	1.4	0.9	1.8	0.3	-50.0
Congenital malformations	1.0	2.4	1.8	1.9	1.4	1.8	2.1	1.3	1.5	1.4	1.6	60.0
Influenza and pneumonia	0.6	0.7	0.4	0.5	0.7	0.5	0.9	0.2	0.6	0.5	0.3	-50.0
ALL CAUSES	20.4	26.2	21.5	20.9	17.0	19.0	20.3	19.1	17.0	18.8	15.6	-23.5
(Number of all deaths)	(107)	(142)	(120)	(120)	(101)	(117)	(128)	(122)	(110)	(123)	(97)	(-9.3)
TOTAL												
Accidents (unintentional injuries)	10.8	11.6	8.5	9.1	8.1	8.9	7.9	7.3	6.2	6.8	6.7	-38.0
Motor vehicle accidents	5.8	5.3	4.8	5.4	4.6	4.5	4.2	4.1	2.6	3.6	2.8	-51.7
Drowning	2.8	3.1	1.9	2.0	2.0	2.0	1.5	1.1	2.0	1.6	1.9	-32.1
Other	2.2	3.2	1.8	1.7	1.5	2.4	2.2	2.1	1.6	1.6	2.0	-9.1
Malignant neoplasms	2.7	2.3	1.9	2.6	1.8	1.9	1.3	3.2	2.3	2.5	2.0	-25.9
Congenital malformations	1.0	1.9	1.5	1.8	1.5	1.8	2.2	1.0	1.7	1.4	1.6	60.0
Assault (homicide)	0.8	2.2	1.6	0.8	1.5	1.4	1.2	1.4	1.1	1.3	1.2	50.0
Intentional self-harm (suicide)	0.6	0.8	1.0	0.7	0.2	0.9	0.9	0.4	0.6	0.3	0.7	16.7
ALL CAUSES	25.3	28.8	23.7	24.3	20.4	22.7	21.5	19.5	19.7	20.2	18.9	-25.3
(Number of all deaths)	(271)	(320)	(271)	(286)	(248)	(285)	(278)	(256)	(262)	(271)	(240)	(-11.4)

¹Number of deaths per 100,000 children 1-14 years old.

²The five causes with the greatest number of deaths over the 2000-2010 period.

**TABLE 2C-8
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES² OF DEATH AMONG CHILDREN (1-14 YEARS)
IN URBAN AND RURAL AREAS³, ARIZONA, 2000-2010**

Area/Cause	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
URBAN												
Accidents (unintentional injuries)	10.0	11.3	7.1	7.3	6.8	9.2	7.1	6.5	5.4	6.4	6.0	-40.0
Motor vehicle accidents	5.6	4.8	3.4	4.2	3.7	4.2	3.9	3.2	2.0	3.2	2.5	-55.4
Drowning	3.0	3.5	2.2	2.2	2.1	2.3	1.4	1.3	1.8	1.8	1.8	-40.0
Other	1.4	3.0	1.5	0.9	1.0	2.7	1.8	2.0	1.7	1.5	1.7	21.4
Malignant neoplasms	2.9	2.6	2.0	2.8	1.6	2.2	1.5	3.4	2.6	2.6	2.3	-20.7
Congenital malformations	1.2	2.0	1.6	1.6	1.5	1.7	2.4	0.8	1.7	1.3	1.8	50.0
Assault (homicide)	1.0	2.4	1.6	0.9	1.4	1.3	1.1	1.4	1.1	1.3	1.3	30.0
Diseases of heart	0.7	0.7	0.7	0.5	0.8	0.4	1.0	0.4	0.4	0.3	0.3	-57.1
ALL CAUSES	24.4	27.3	21.8	22.4	18.3	21.9	20.9	18.6	18.5	19.4	18.1	-25.8
(Number of all deaths)	(216)	(251)	(207)	(219)	(184)	(229)	(228)	(206)	(210)	(221)	(197)	(-8.8)
RURAL												
Accidents (unintentional injuries)	14.5	13.2	15.3	18.0	14.6	7.6	12.0	12.0	10.3	8.8	10.8	-25.5
Motor vehicle accidents	6.5	7.9	11.8	11.0	9.2	6.2	5.5	9.0	6.4	5.8	4.3	-33.8
Drowning	1.6	1.1	0.5	1.5	1.5	0.5	2.0	0.5	2.5	1.0	2.2	37.5
Other	6.4	4.2	3.0	5.5	3.9	0.9	4.5	2.5	1.5	1.9	4.3	-32.8
Malignant neoplasms	1.6	1.1	1.5	2.0	2.9	0.5	0.5	2.0	0.5	1.9	0.5	-68.8
Congenital malformations	0.0	1.6	1.0	2.5	1.5	2.4	1.0	2.0	1.5	1.9	0.5	NA
Assault (homicide)	0.0	1.1	1.5	0.5	1.9	1.9	1.5	1.0	1.0	1.5	0.5	NA
Intentional self-harm (suicide)	1.1	1.6	2.0	1.0	0.5	2.8	2.0	0.5	1.5	0.5	1.1	0.0
ALL CAUSES	29.6	35.3	32.7	33.5	31.1	26.5	25.0	24.9	25.5	23.8	23.2	-21.6
(Number of all deaths)	(55)	(67)	(64)	(67)	(64)	(56)	(50)	(50)	(52)	(49)	(43)	(-21.8)
STATEWIDE												
Accidents (unintentional injuries)	10.8	11.6	8.5	9.1	8.1	8.9	7.9	7.3	6.2	6.8	6.7	-38.0
Motor vehicle accidents	5.8	5.3	4.8	5.4	4.6	4.5	4.2	4.1	2.6	3.6	2.8	-51.7
Drowning	2.8	3.1	1.9	2.0	2.0	2.0	1.5	1.1	2.0	1.6	1.9	-32.1
Other	2.2	3.2	1.8	1.7	1.5	2.4	2.2	2.1	1.6	1.6	2.0	-9.1
Malignant neoplasms	2.7	2.3	1.9	2.6	1.8	1.9	1.3	3.2	2.3	2.5	2.0	-25.9
Congenital malformations	1.0	1.9	1.5	1.8	1.5	1.8	2.2	1.0	1.7	1.4	1.6	60.0
Assault (homicide)	0.8	2.2	1.6	0.8	1.5	1.4	1.2	1.4	1.1	1.3	1.2	50.0
Intentional self-harm (suicide)	0.6	0.8	1.0	0.7	0.2	0.9	0.9	0.4	0.6	0.3	0.7	16.7
ALL CAUSES	25.3	28.8	23.7	24.3	20.4	22.7	21.5	19.5	19.7	20.2	18.9	-25.3
(Number of all deaths)	(271)	(320)	(271)	(286)	(248)	(285)	(278)	(256)	(262)	(271)	(240)	(-11.4)

¹Number of deaths per 100,000 children 1-14 years old.

²The five causes with the greatest number of deaths over the 2000-2010 period.

³Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for more information. Note: Records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

**TABLE 2C-9
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES OF DEATH AMONG CHILDREN (1-14 YEARS) BY GENDER
IN URBAN AND RURAL AREAS², ARIZONA, 2000-2010**

Area/Gender	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
URBAN												
Male	29.0	29.5	24.5	24.4	21.9	25.9	22.2	19.2	21.1	20.6	20.0	-31.0
Female	19.4	25.0	19.0	20.2	14.4	17.6	19.5	18.0	15.9	18.2	16.2	-16.5
TOTAL	24.4	27.3	21.8	22.3	18.3	21.9	20.9	18.6	18.5	19.4	18.1	-25.8
RURAL												
Male	37.7	39.2	32.0	42.1	31.8	27.0	25.5	24.4	27.9	25.7	33.9	-10.1
Female	27.1	31.2	33.4	24.5	30.3	26.1	24.4	25.4	23.0	21.8	12.1	-55.4
TOTAL	29.6	35.3	32.7	33.5	31.1	26.5	25.0	24.9	25.5	23.8	23.2	-21.6
STATEWIDE												
Male	29.8	31.3	25.8	27.5	23.7	26.1	22.7	20.0	22.3	21.5	22.1	-25.8
Female	20.4	26.2	21.5	20.9	17.0	19.0	20.3	19.1	17.0	18.8	15.6	-23.5
TOTAL	25.3	28.8	23.7	24.3	20.4	22.7	21.5	19.5	19.7	20.2	18.9	-25.3

¹Rates are presented per 100,000 children 1-14 years old.

²Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas.

Note: Records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

**TABLE 2C-10
LEADING CAUSES OF DEATH AMONG CHILDREN (1-14 YEARS) BY GENDER, AREA AND RACE/ETHNICITY,
ARIZONA, 2010**

Cause of death	Total*	Gender		Area**		Race/ethnicity					
		Male	Female	Urban	Rural	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Other/unknown
Accidents (unintentional injury)	85	53	32	65	20	40	29	2	11	1	2
Motor vehicle accidents	35	20	15	27	8	11	16	0	7	1	0
Accidental drowning and submersion	24	16	8	20	4	13	8	0	2	0	1
Malignant neoplasms	26	12	14	25	1	6	15	3	1	1	0
Leukemia	13	6	7	13	0	3	8	1	0	1	0
Congenital malformations	20	10	10	19	1	6	7	1	2	2	2
Assault (homicide)	15	13	2	14	1	3	10	1	0	0	1
By discharge of firearms	9	7	2	8	1	3	6	0	0	0	0
By other means	6	6	0	6	0	0	4	1	0	0	1
Intentional self-harm (suicide)	9	8	1	7	2	5	2	0	2	0	0
Chronic lower respiratory diseases	4	3	1	3	1	1	1	1	1	0	0
Asthma	2	1	1	2	0	1	0	1	0	0	0
Influenza and pneumonia	3	1	2	1	2	2	0	0	1	0	0
Total, all causes***	240	143	97	197	43	95	92	11	23	11	8

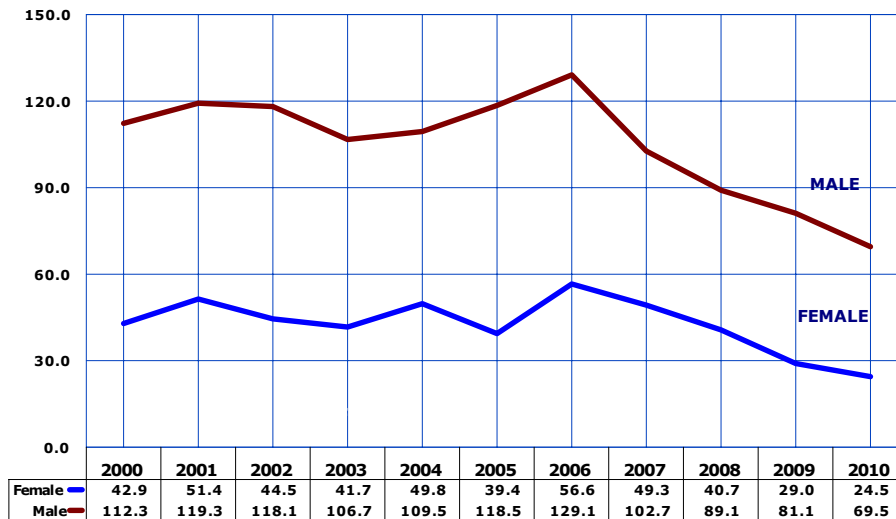
* May include death records where the county of residence could not be classified as urban or rural.

** Urban = Maricopa, Pima, Pinal and Yuma counties. The remaining counties comprise Arizona's rural areas.

*** May include other causes of death not shown above.

2C.AGE-SPECIFIC MORTALITY
Adolescent mortality (ages 15-19 years)

Figure 2C-9
Mortality Rates by Gender and Year among Adolescents 15-19 Years, Arizona, 2000-2010

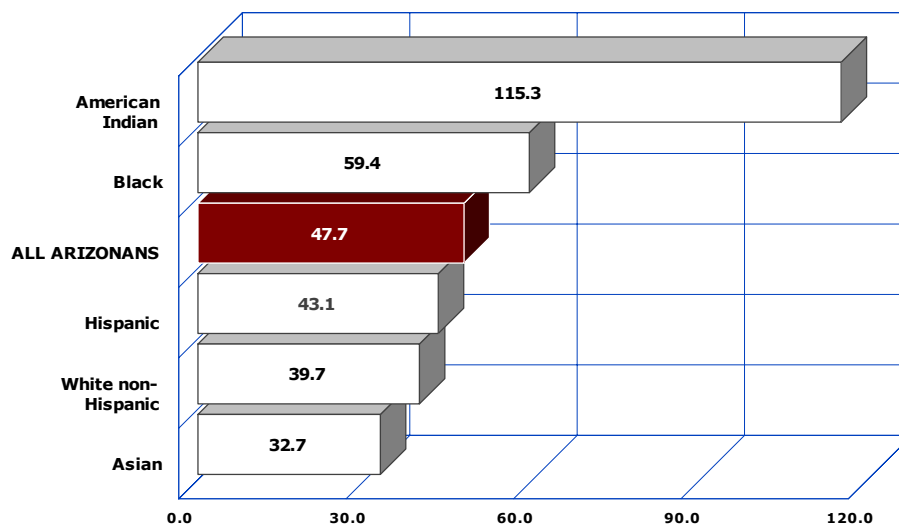


Number of deaths per 100,000 persons, 15-19 years old in specified group.

Adolescence refers to those individuals between the ages of 15 and 19, an important developmental period marking the transition from childhood to adulthood. In 2010, an estimated 461,582 adolescents resided in Arizona according to the census enumerations, comprising 7.2 percent of the State's population (**Table 10A-1**). The lives of 220 resident adolescents prematurely ended in 2010 (the lowest number since 2000) resulting in a total mortality rate of 47.7 deaths per 100,000 adolescents. This mortality rate was 39.5 percent lower than the 2000 rate (**Table 2C-11**). In fact, the adolescent mortality rate in 2010 was the lowest rate since 1980.

The likelihood of dying was 2.8 times as high for adolescent boys as girls in 2010 (**Figure 2C-9, Table 2C-11**).

Figure 2C-10
Mortality Rates by Race/Ethnicity among Adolescents 15-19 Years, Arizona, 2010



Number of deaths per 100,000 persons, 15-19 years old in specified group.

The five causes with the greatest number of deaths over the 2000-2010 period were *unintentional injuries in accidents, suicide, homicide, malignant neoplasms, and diseases of heart* (**Table 2C-11**).

From best to worst chances in 2010 of adolescents, 15-19 years old, in survival was Asian, White non-Hispanic, and Hispanic or Latino (**Figure 2C-10**). If the 2010 mortality risk of Asian adolescents (i.e., their mortality rate) applied to all adolescents, 151 would have died: 69 less than the 220 who actually did.

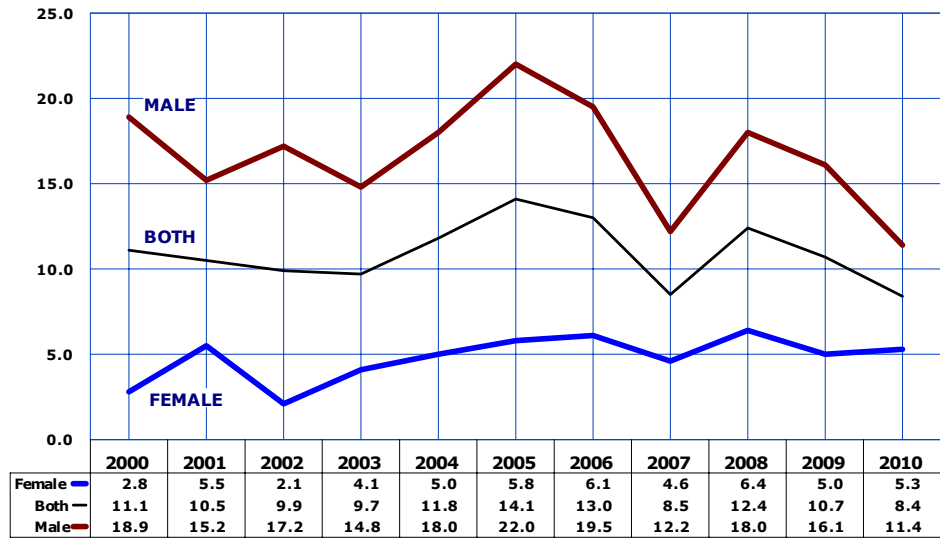
The number of deaths from accidental drug poisoning declined from 39 in 2009 to 30 in 2010. The number of deaths from motor vehicle-related injuries decreased from 76 in 2008 to 50 in 2009 and 46 in 2010.

2C.AGE-SPECIFIC MORTALITY
Adolescent mortality (ages 15-19 years)

Overall, the number of suicides among Arizonans age 15-19 years decreased from 56 in 2008 to 49 in 2009 and 39 in 2010. (Table 2C-14). In 2010, as in prior years, male adolescents accounted for the absolute majority (69.2 percent) of completed suicides

Compared to 2009, the suicide rate slightly increased in 2010 for adolescent females (Figure 2C-11, Table 2C-11). The suicide death rate for adolescent males decreased from 18.0 suicides per 100,000 in 2008 to 16.1/100,000 in 2009 and 11.4/100,000 in 2010. The male to female ratio in suicide mortality rates decreased from 6.7:1 in 2000 to 2.2:1 in 2010. In other words, male adolescents were 2.2 times more likely to kill themselves in 2010 than female adolescents, compared to 6.7 times more likely in 2000.

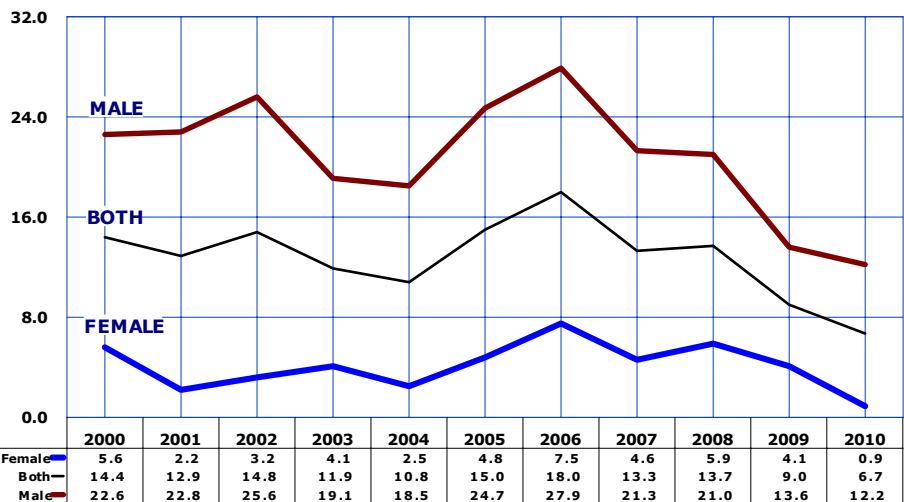
Figure 2C-11
Suicide Rates by Gender and Year among Adolescents 15-19 Years, Arizona, 2000-2010



Number of suicides per 100,000 persons, 15-19 years old in specified group.

Figure 2C-12
Homicide Rates by Gender and Year among Adolescents 15-19 Years, Arizona, 2000-2010

From 2004 to 2006, the homicide rates increased for both adolescent males and females (Figure 2C-12, Table 2C-11). From 2008 to 2010, the homicide rate decreased by 37.1 percent for adolescent males, and by 84.7 percent for adolescent females. Overall, the homicide rate decreased by 51.1 percent from 13.7/100,000 in 2008 to 6.7/100,000 in 2010. The male to female mortality risk for homicide increased to 13.6 times greater in 2010.



Number of homicides per 100,000 persons, 15-19 years old in specified group.

**TABLE 2C-11
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES² OF DEATH AMONG ADOLESCENTS (15-19 YEARS) BY GENDER,
ARIZONA, 2000-2010**

Gender/Cause	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
MALE												
Accidents (unintentional injuries)	47.2	51.3	50.2	49.3	51.3	49.4	57.7	48.3	33.0	34.4	27.0	-42.8
Motor vehicle accidents	34.1	33.5	37.4	35.9	36.1	33.2	41.7	35.3	21.9	15.3	15.2	-55.4
Other	13.1	17.8	12.8	13.4	15.3	16.2	16.0	13.0	11.1	19.1	11.8	-9.9
Intentional self-harm (suicide)	18.9	15.2	17.2	14.8	18.0	22.0	19.5	12.2	18.0	16.1	11.4	-39.7
Assault (homicide)	22.6	22.8	25.6	19.1	18.5	24.7	27.9	21.3	21.0	13.6	12.2	-46.0
Malignant neoplasms	6.3	5.6	5.4	2.4	6.5	4.0	3.1	3.5	5.1	3.4	2.5	-60.3
Diseases of heart	2.1	4.1	2.5	1.9	1.8	1.8	1.8	2.2	0.4	1.3	2.1	0.0
ALL CAUSES	112.3	119.3	118.1	106.7	109.5	118.5	129.1	102.7	89.1	81.1	69.5	-38.1
(Number of all deaths)	(214)	(235)	(240)	(223)	(237)	(264)	(291)	(236)	(208)	(191)	(165)	(-22.9)
FEMALE												
Accidents (unintentional injuries)	23.7	22.9	22.2	19.1	28.9	18.3	28.1	23.7	18.3	9.1	9.4	-60.3
Motor vehicle accidents	20.3	18.6	18.0	15.5	24.9	16.3	26.2	17.7	12.4	6.3	4.5	-77.8
Other	3.4	4.3	4.2	3.6	4.0	2.0	1.9	6.0	5.9	2.7	4.9	44.1
Intentional self-harm (suicide)	2.8	5.5	2.1	4.1	5.0	5.8	6.1	4.6	6.4	5.0	5.3	89.3
Assault (homicide)	5.6	2.2	3.2	4.1	2.5	4.8	7.5	4.6	5.9	4.1	0.9	-83.9
Malignant neoplasms	1.1	4.9	3.2	2.6	2.5	1.4	3.7	4.2	4.1	3.2	2.7	145.5
Diseases of heart	1.1	1.1	1.1	0.5	0.5	1.0	1.4	1.4	0.9	1.4	0.9	-18.2
ALL CAUSES	42.9	51.4	44.5	41.7	49.8	39.4	56.6	49.3	40.7	29.0	24.5	-42.9
(Number of all deaths)	(76)	(94)	(84)	(81)	(100)	(82)	(121)	(106)	(89)	(64)	(55)	(-27.6)
TOTAL												
Accidents (unintentional injuries)	35.9	37.6	36.7	34.7	40.5	34.3	43.3	36.4	25.9	22.1	18.4	-48.7
Motor vehicle accidents	27.5	26.3	28.1	26.0	30.7	25.0	34.2	26.8	17.3	11.0	10.0	-63.6
Other	8.4	11.3	8.6	8.7	9.8	9.3	9.1	9.6	8.6	11.2	8.4	0.0
Intentional self-harm (suicide)	11.1	10.5	9.9	9.7	11.8	14.1	13.0	8.5	12.4	10.7	8.4	-24.3
Assault (homicide)	14.4	12.9	14.8	11.9	10.8	15.0	18.0	13.3	13.7	9.0	6.7	-53.5
Malignant neoplasms	3.8	5.3	4.3	2.5	4.6	2.8	3.4	3.8	4.6	3.3	2.6	-31.6
Diseases of heart	1.6	2.6	1.8	1.2	1.2	1.4	1.6	1.8	0.9	1.3	1.5	-6.3
ALL CAUSES	78.9	86.6	82.7	75.4	80.8	80.1	93.8	76.9	65.7	55.9	47.7	-39.5
(Number of all deaths)	(290)	(329)	(324)	(304)	(337)	(346)	(412)	(342)	(297)	(255)	(220)	(-24.1)

¹Number of deaths per 100,000 adolescents 15-19 years old.

²The five causes with the greatest number of deaths over the 2000-2010 period.

Note: The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2000-2010 are classified by ICD-10, replacing the Ninth Revision (ICD-9). Comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**.

**TABLE 2C-12
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES² OF DEATH AMONG ADOLESCENTS (15-19 YEARS)
IN URBAN AND RURAL AREAS³, ARIZONA, 2000-2010**

Area/Cause	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
URBAN												
Accidents (unintentional injuries)	28.9	33.3	36.1	29.9	37.3	28.9	40.3	30.9	23.7	18.7	17.0	-41.2
Motor vehicle accidents	21.9	23.4	27.4	22.0	27.1	20.5	32.2	21.9	14.8	9.6	9.3	-57.5
Other	7.0	9.9	8.7	7.9	10.2	8.4	8.1	9.0	8.9	9.1	7.7	10.0
Assault (homicide)	16.0	14.4	16.2	13.6	9.9	16.8	20.0	14.8	15.3	9.6	6.7	-58.1
Intentional self-harm (suicide)	12.3	7.4	9.3	9.1	11.4	13.2	10.6	8.2	9.4	9.6	7.2	-41.5
Malignant neoplasms	4.3	5.1	4.4	2.4	4.1	2.8	2.8	3.8	4.6	3.2	2.3	-46.5
Diseases of heart	1.7	2.6	1.6	1.2	1.5	1.4	1.4	1.6	1.1	1.3	1.5	-11.8
ALL CAUSES	75.4	77.6	82.4	69.8	75.8	75.8	88.9	72.5	61.4	51.5	43.6	-42.2
(Number of all deaths)	(227)	(242)	(265)	(231)	(260)	(270)	(320)	(265)	(230)	(194)	(169)	(-25.6)
RURAL												
Accidents (unintentional injuries)	67.4	57.2	39.8	57.0	54.1	59.4	56.8	61.9	36.0	36.9	25.5	-62.2
Motor vehicle accidents	52.4	39.6	31.3	44.5	46.0	46.2	42.9	49.2	28.6	17.2	13.4	-74.4
Other	15.0	17.6	8.5	12.5	8.1	13.2	13.9	12.7	7.4	19.7	12.1	-19.3
Intentional self-harm (suicide)	6.0	24.9	12.8	12.5	13.5	18.5	24.0	10.1	26.1	16.0	14.8	146.7
Assault (homicide)	7.5	5.9	8.5	4.2	14.9	6.6	8.8	6.3	7.5	6.1	6.7	-10.7
Malignant neoplasms	1.5	5.9	4.3	2.8	6.8	2.6	6.3	3.8	6.2	3.7	4.0	166.7
Diseases of heart	1.5	2.9	2.8	1.4	0.0	1.3	2.5	2.5	0.0	1.2	1.3	-13.3
ALL CAUSES	92.8	123.2	83.9	101.5	102.7	100.3	116.2	97.2	83.3	75.0	68.6	-26.1
(Number of all deaths)	(62)	(84)	(59)	(73)	(76)	(76)	(92)	(77)	(67)	(61)	(51)	(-17.7)
STATEWIDE												
Accidents (unintentional injuries)	35.9	37.6	36.7	34.7	40.5	34.3	43.3	36.4	25.9	22.1	18.4	-48.7
Motor vehicle accidents	27.5	26.3	28.1	26.0	30.7	25.0	34.2	26.8	17.3	11.0	10.0	-63.6
Other	8.4	11.3	8.6	8.7	9.8	9.3	9.1	9.6	8.6	11.2	8.4	0.0
Intentional self-harm (suicide)	11.1	10.5	9.9	9.7	11.8	14.1	13.0	8.5	12.4	10.7	8.4	-24.3
Assault (homicide)	14.4	12.9	14.8	11.9	10.8	15.0	18.0	13.3	13.7	9.0	6.7	-53.5
Malignant neoplasms	3.8	5.3	4.3	2.5	4.6	2.8	3.4	3.8	4.6	3.3	2.6	-31.6
Diseases of heart	1.6	2.6	1.8	1.2	1.2	1.4	1.6	1.8	0.9	1.3	1.5	-6.3
ALL CAUSES	78.9	86.6	82.7	75.4	80.8	80.1	93.8	76.9	65.7	55.9	47.7	-39.5
(Number of all deaths)	(290)	(329)	(324)	(304)	(337)	(346)	(412)	(342)	(297)	(255)	(220)	(-24.1)

¹Number of deaths per 100,000 adolescents 15-19 years old.

²The five causes with the greatest number of deaths over the 2000-2010 period.

³Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for more information.

Note: Records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area. The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2000-2010 are classified by ICD-10. Comparison between ICD-9 and ICD-10 - the "comparability ratios" - for the causes of death shown in this report are provided in the **Technical Notes**.

TABLE 2C-13
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES OF DEATH AMONG ADOLESCENTS (15-19 YEARS)
BY GENDER IN URBAN AND RURAL AREAS², ARIZONA, 2000-2010

Area/Gender	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
URBAN												
Male	110.9	110.1	121.8	98.4	105.1	112.7	121.7	97.9	84.3	73.8	62.8	-43.4
Female	37.3	42.6	40.0	38.9	44.2	36.1	54.2	45.3	36.8	27.6	23.4	-37.3
TOTAL	75.4	77.6	82.4	69.8	75.8	75.8	88.9	72.5	61.4	51.5	43.6	-42.2
RURAL												
Male	126.5	158.4	101.5	144.8	127.9	142.5	162.3	125.2	109.0	112.6	104.9	-17.1
Female	69.6	85.3	64.9	54.9	74.5	54.8	67.5	57.6	56.2	35.4	30.3	-56.5
TOTAL	92.8	123.2	83.9	101.5	102.7	100.3	116.2	97.2	83.3	75.0	68.6	-26.1
STATEWIDE												
Male	112.3	119.3	118.1	106.7	109.5	118.5	129.1	102.7	89.1	81.1	69.5	-38.1
Female	42.9	51.4	44.5	41.7	49.8	39.4	56.6	49.3	40.7	29.0	24.5	-42.9
TOTAL	78.9	86.6	82.7	75.4	80.8	80.1	93.8	76.9	65.7	55.9	47.7	-39.5

¹Rates are presented per 100,000 children 15-19 years old.

²Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for more information.
 Note: Records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

**TABLE 2C-14
LEADING CAUSES OF DEATH AMONG ADOLESCENTS (15-19 YEARS) BY GENDER, AREA AND RACE/ETHNICITY,
ARIZONA, 2010**

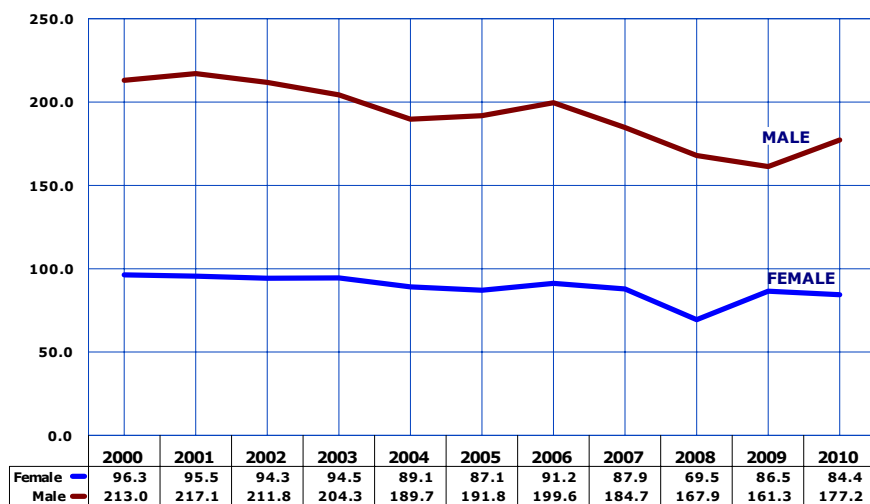
Cause of death	Total	Gender		Area*		Race/ethnicity					
		Male	Female	Urban	Rural	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Other/unknown
Accidents (unintentional injury)	85	64	21	66	19	33	31	2	15	3	1
Motor vehicle accidents	46	36	10	36	10	11	21	1	11	1	1
Accidental poisoning	30	22	8	23	7	20	7	0	3	0	0
Accidental drowning and submersion	4	2	2	4	0	1	1	0	0	2	0
Intentional self-harm (suicide)	39	27	12	28	11	17	13	1	8	0	0
By discharge of firearms	13	10	3	13	0	10	3	0	0	0	0
By other means	26	17	9	15	11	7	10	1	8	0	0
Assault (homicide)	31	29	2	26	5	9	12	5	4	1	0
By discharge of firearms	22	22	0	20	2	6	10	3	3	0	0
By other means	9	7	2	6	3	3	2	2	1	1	0
Symptoms, signs, abnormal findings	15	12	3	10	5	2	3	0	3	0	7
Malignant neoplasms	12	6	6	9	3	8	4	0	0	0	0
Diseases of heart	7	5	2	6	1	2	2	1	1	0	1
Total, all causes***	220	165	55	169	51	82	76	14	34	4	10

* Urban = Maricopa, Pima, Pinal and Yuma counties. The remaining counties comprise Arizona's rural areas.

** May include other causes of death not shown above.

2C.AGE-SPECIFIC MORTALITY
Young adult mortality (ages 20-44 years)

Figure 2C-13
Mortality Rates by Gender and Year among Young Adults 20-44 Years, Arizona, 2000-2010

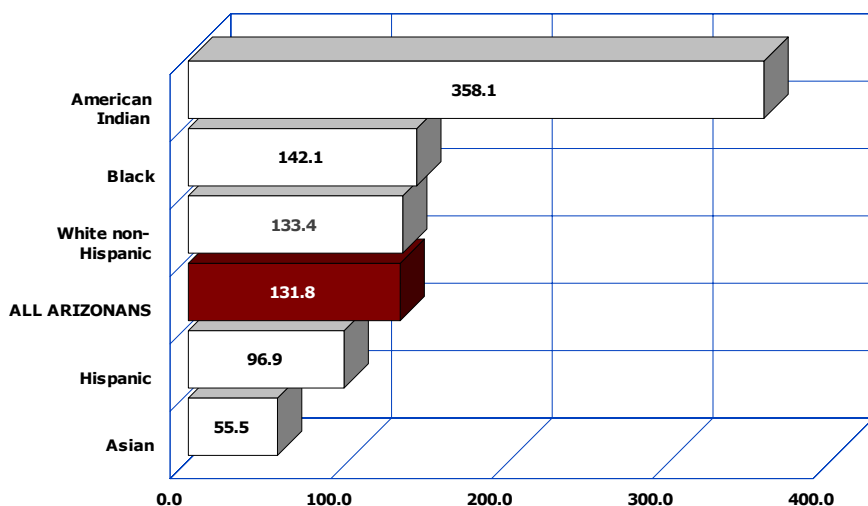


In 2010, 33.2 percent of Arizona residents were between 20 and 44 years of age. Among the six developmental periods examined in the life span, young adulthood, with an estimated 2.1 million individuals, easily represented the largest segment of the population. However, only one in seventeen deaths in Arizona (or 5.9 percent) occurred during young adulthood.

The number of deaths among young adults decreased from 2,929 in 2008 to 2,917 in 2009 and 2,796 in 2010. The 2,796 premature deaths among 2,121,771 young adult Arizona residents produced a 2010 mortality rate of 131.8 deaths per 100,000, 5.3 percent greater than the 2009 rate of 125.2/100,000 (Table 2C-15). Female but not male young adults had an improvement in their survival chances from 2009 to 2010 (Figure 2C-13, Table 2C-15).

Number of deaths per 100,000 persons, 20-44 years old in specified group.

Figure 2C-14
Mortality Rates by Race/Ethnicity among Young Adults 20-44 Years, Arizona, 2010



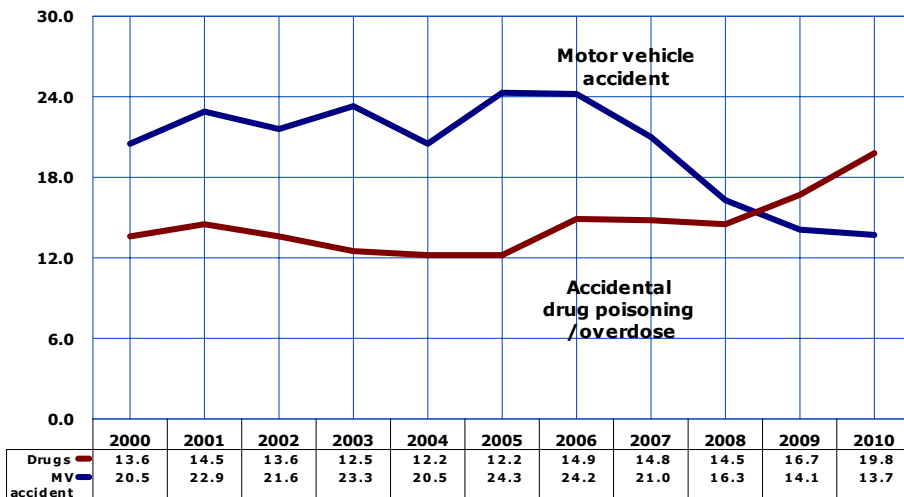
The rank order of survival chances of young adults from best to worse by race/ethnicity in 2010 was Asians, Hispanics or Latinos, White non-Hispanics, Black or African Americans and American Indians. If the 2010 mortality risk of Asians (i.e., their mortality rate of 55.5/100,000) was applied to all young adults in Arizona, 1,178 would have died, rather than the 2,796 who actually did.

Number of deaths per 100,000 persons, 20-44 years old in specified group.

2C.AGE-SPECIFIC MORTALITY
Young adult mortality (ages 20-44 years)

Figure 2C-15
Mortality Rates for Motor Vehicle-related Injuries and Accidental Poisoning by Drugs by Year among Young Adults 20-44 Years, Arizona, 2000-2010

In 2010, 420 deaths of young adults were attributed to accidental poisoning by drugs (**Table 2C-18**), compared to 259 deaths in 2001. The mortality rate for drug overdoses among young adults (19.8/100,000) for the second time exceeded the mortality rate for motor vehicle-related injuries (13.7/100,000; **Figure 2C-15**).



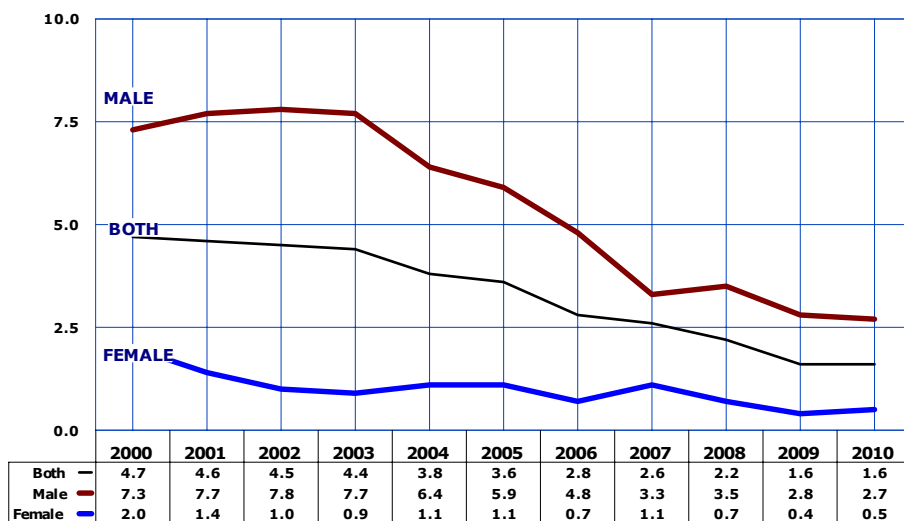
Number of deaths per 100,000 persons, 20-44 years old in specified group.

Figure 2C-16
Mortality Rates for HIV Disease by Gender and Year among Young Adults 20-44 Years, Arizona, 2000-2010

In 2010, fewer Arizonans 20-44 years old died from the *human immunodeficiency virus (HIV) disease* (34) than from *morbid obesity* (38 deaths; **Table 2C-18**).

Of the 99 deaths from *HIV disease* in 2010, 34.3 percent occurred among Arizonans 20-44 years old (**Table 2C-27**). Males accounted for 85.3 percent) of young adult deaths from *HIV disease* in 2010 (**Table 2C-18**).

The mortality rate for HIV disease among young male adults decreased by 65.4 percent from the recent peak of 7.8/100,000 in 2002 to 2.7/100,000 in 2010.



Number of deaths per 100,000 persons, 20-44 years old in specified group.

**TABLE 2C-15
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES² OF DEATH AMONG YOUNG ADULTS (20-44 YEARS) BY GENDER,
ARIZONA, 2000-2010**

Gender/Cause	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
MALE												
Accidents (unintentional injuries)	57.3	72.5	61.8	63.3	54.8	63.2	69.2	60.6	54.4	53.7	52.6	-8.2
Motor vehicle accidents	30.2	34.5	30.7	33.6	27.8	34.2	34.5	29.2	23.8	20.2	19.8	-34.4
Other	27.1	38.0	31.1	29.7	27.0	29.0	34.7	31.4	30.6	33.4	27.5	1.5
Intentional self-harm (suicide)	28.3	21.7	31.3	30.2	28.3	28.3	27.4	30.3	23.5	25.1	31.5	11.3
Diseases of heart	16.2	16.6	17.2	16.3	15.4	15.3	15.9	14.3	13.3	14.0	20.1	0.5
Assault (homicide)	20.0	25.9	25.6	22.9	23.7	24.7	24.2	22.8	19.2	13.4	12.8	-18.5
Malignant neoplasms	15.7	15.9	15.7	14.2	14.0	11.9	11.0	11.3	12.6	12.0	11.7	-27.8
ALL CAUSES	213.0	217.1	211.8	204.3	189.4	191.8	199.6	184.7	167.9	161.3	177.2	-16.8
(Number of all deaths)	(2059)	(2172)	(2186)	(2169)	(2091)	(2185)	(2290)	(2166)	(2001)	(1944)	(1920)	(-6.8)
FEMALE												
Accidents (unintentional injuries)	16.7	22.0	21.9	22.5	21.8	24.9	25.0	25.2	20.4	20.8	22.4	34.1
Motor vehicle accidents	10.1	10.5	12.0	12.2	12.7	13.8	13.1	12.2	8.3	7.5	7.4	-26.7
Other	6.6	11.5	9.9	10.3	9.1	11.1	11.9	13.0	12.1	13.3	15.0	127.3
Malignant neoplasms	21.0	21.2	18.7	15.9	18.2	13.4	16.4	15.5	13.7	15.9	14.0	-33.3
Intentional self-harm (suicide)	7.2	4.3	6.2	7.4	7.2	7.5	7.0	7.1	6.0	9.4	6.8	-5.6
Diseases of heart	6.2	7.6	7.3	7.0	6.6	7.8	5.0	6.7	5.8	6.7	4.6	-25.8
Assault (homicide)	4.5	6.2	3.9	5.1	4.5	3.7	4.0	4.7	3.2	4.0	3.5	-22.2
ALL CAUSES	96.3	95.5	94.3	94.5	89.2	87.1	91.2	87.9	69.5	86.5	84.4	-12.4
(Number of all deaths)	(874)	(897)	(913)	(941)	(922)	(936)	(968)	(954)	(828)	(973)	(876)	0.2
TOTAL												
Accidents (unintentional injuries)	37.7	48.1	42.5	43.5	38.8	44.6	47.9	43.6	38.0	37.8	37.8	0.3
Motor vehicle accidents	20.5	22.9	21.6	23.3	20.5	24.3	24.2	21.0	16.3	14.1	13.7	-33.2
Other	17.2	25.2	20.9	20.2	18.3	20.3	23.7	22.6	21.7	23.7	24.1	40.1
Intentional self-harm (suicide)	18.1	13.3	19.1	19.2	18.1	18.2	17.6	19.1	15.0	17.5	19.4	7.2
Malignant neoplasms	18.3	18.5	17.1	15.0	16.0	12.6	13.6	13.3	9.7	13.9	13.4	-26.8
Diseases of heart	11.4	12.2	12.4	11.8	11.1	11.7	10.7	10.7	11.5	10.5	12.0	-4.0
Assault (homicide)	12.5	16.3	15.1	14.3	14.5	14.5	14.5	14.1	13.1	8.8	8.2	-28.1
ALL CAUSES	156.5	158.2	154.9	151.1	141.0	140.9	147.5	138.2	123.0	125.2	131.8	-15.8
(Number of all deaths)	(2933)	(3069)	(3099)	(3110)	(3013)	(3121)	(3258)	(3120)	(2829)	(2917)	(2796)	(-4.7)

¹Rates are presented per 100,000 persons 20-44 years old.

²The five causes with the greatest number of deaths over the 2000-2010 period.

Note: The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2000-2010 are classified by ICD-10, replacing the Ninth Revision (ICD-9). Comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**.

**TABLE 2C-16
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES² OF DEATH AMONG YOUNG ADULTS (20-44 YEARS)
IN URBAN AND RURAL AREAS³, ARIZONA, 2000-2010**

Area/Cause	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
URBAN												
Accidents (unintentional injuries)	34.0	43.7	39.1	38.3	35.5	40.2	44.8	38.7	34.4	32.7	33.5	-1.5
Motor vehicle accidents	17.6	19.5	18.9	19.2	17.5	21.1	21.2	17.7	14.2	11.2	11.5	-34.7
Other	16.4	24.2	20.2	19.1	18.0	19.1	23.6	21.0	20.2	21.5	22.0	34.1
Malignant neoplasms	17.8	18.6	16.2	14.7	16.0	11.8	13.5	12.9	14.2	15.6	13.3	-25.3
Intentional self-harm (suicide)	16.5	12.3	18.0	17.9	16.2	16.8	16.2	18.0	16.4	13.6	17.7	7.3
Assault (homicide)	13.0	16.9	15.6	14.8	15.2	14.9	15.1	14.3	13.2	9.7	11.0	-15.4
Diseases of heart	10.5	12.3	11.8	11.0	10.6	11.9	10.0	9.9	8.9	8.7	8.0	-23.8
ALL CAUSES	147.8	148.1	145.4	140.2	132.2	133.0	139.3	129.8	113.6	113.0	119.7	-19.0
(Number of all deaths)	(2372)	(2464)	(2494)	(2477)	(2426)	(2532)	(2640)	(2511)	(2239)	(2203)	(2203)	(-7.1)
RURAL												
Accidents (unintentional injuries)	59.3	74.0	63.2	75.5	58.9	72.0	66.9	73.2	57.1	64.7	63.9	7.8
Motor vehicle accidents	37.5	42.8	37.9	48.1	38.4	44.2	42.4	40.5	28.0	29.4	27.0	-28.0
Other	21.8	31.2	25.3	27.4	20.5	27.8	24.5	32.7	29.2	35.4	36.9	69.3
Intentional self-harm (suicide)	27.4	19.2	26.0	26.8	29.5	26.8	25.5	25.6	20.4	29.1	30.2	10.2
Malignant neoplasms	21.5	17.8	22.8	17.2	15.9	17.8	14.0	16.1	12.5	15.9	13.8	-35.8
Diseases of heart	15.2	11.6	16.2	16.8	14.2	10.0	15.0	15.1	9.4	15.0	9.6	-36.8
Assault (homicide)	9.6	12.7	11.9	11.3	9.9	12.6	11.2	12.7	14.6	7.8	16.0	66.7
ALL CAUSES	208.1	212.6	212.2	217.3	194.3	189.9	196.9	188.1	174.2	191.6	203.7	-2.1
(Number of all deaths)	(561)	(586)	(604)	(633)	(587)	(588)	(618)	(609)	(590)	(662)	(574)	2.3
STATEWIDE												
Accidents (unintentional injuries)	37.7	48.1	42.5	43.5	38.8	44.6	47.9	43.6	38.0	37.8	37.8	0.3
Motor vehicle accidents	20.5	22.9	21.6	23.3	20.5	24.3	24.2	21.0	16.3	14.1	13.7	-33.2
Other	17.2	25.2	20.9	20.2	18.3	20.3	23.7	22.6	21.7	23.7	24.1	40.1
Intentional self-harm (suicide)	18.1	13.3	19.1	19.2	18.1	18.2	17.6	19.1	15.0	17.5	19.4	7.2
Malignant neoplasms	18.3	18.5	17.1	15.0	16.0	12.6	13.6	13.3	9.7	13.9	13.4	-26.8
Assault (homicide)	12.5	16.3	15.1	14.3	14.5	14.5	14.5	14.1	13.1	10.5	12.0	-4.0
Diseases of heart	11.4	12.2	12.4	11.8	11.1	11.7	10.7	10.7	11.5	8.8	8.2	-28.1
ALL CAUSES	156.5	158.2	154.9	151.1	141.0	140.9	147.5	138.2	123.0	125.2	131.8	-15.8
(Number of all deaths)	(2933)	(3069)	(3099)	(3110)	(3013)	(3121)	(3258)	(3120)	(2829)	(2917)	(2796)	(-4.7)

¹Rates are presented per 100,000 young adults 20-44 years old.

²The five causes with the greatest number of deaths statewide over the 2000-2010 period.

³Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for more information.

Note: Records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area. The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2000-2010 are classified by ICD-10, replacing the Ninth Revision (ICD-9). Comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**.

TABLE 2C-17
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES OF DEATH AMONG YOUNG ADULTS (20-44 YEARS)
BY GENDER IN URBAN AND RURAL AREAS², ARIZONA, 2000-2010

Area/Gender	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
URBAN												
Male	201.4	201.8	197.0	190.5	176.7	181.5	188.7	172.2	154.2	143.9	159.4	-20.9
Female	90.3	90.5	89.9	86.1	84.4	81.0	85.3	83.6	69.4	79.5	78.4	-13.2
TOTAL	147.8	148.1	145.4	140.2	132.2	133.0	139.3	129.8	113.6	113.0	119.7	-19.0
RURAL												
Male	306.1	301.8	303.4	288.9	266.5	256.4	266.4	261.2	244.4	258.9	281.0	-8.2
Female	138.8	121.6	119.2	142.8	118.0	123.0	125.1	112.7	102.9	123.5	121.6	-12.4
TOTAL	208.1	212.6	212.2	217.3	194.3	189.9	196.9	188.1	174.2	191.6	203.7	-2.1
STATEWIDE												
Male	213.0	217.1	211.8	204.3	189.4	191.8	199.6	184.7	167.9	161.3	177.2	-16.8
Female	96.3	95.5	94.3	94.5	89.2	87.1	91.2	87.9	69.5	86.5	84.4	-12.4
TOTAL	156.5	158.2	154.9	151.1	141.0	140.9	147.5	138.2	123.0	125.2	131.8	-15.8

¹Rates are presented per 100,000 persons 20-44 years old.

²Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for more information.

Note: Records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

**TABLE 2C-18
LEADING CAUSES OF DEATH AMONG YOUNG ADULTS (20-44 YEARS) BY GENDER, AREA AND RACE/ETHNICITY,
ARIZONA, 2010**

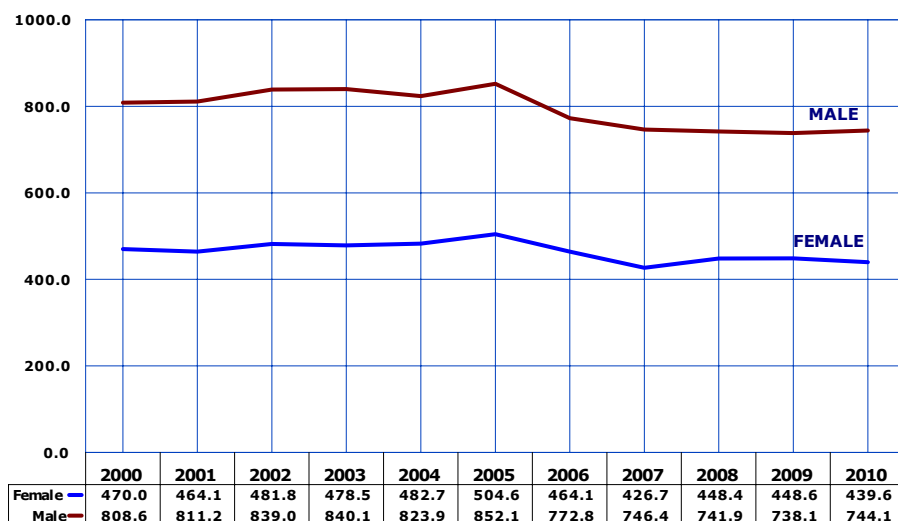
Cause of death	Total**	Gender		Area*		Race/ethnicity					
		Male	Female	Urban	Rural	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Other/unknown
Accidents (unintentional injury)	803	570	233	616	180	462	170	26	119	7	19
Accidental poisoning	420	279	141	339	81	295	73	10	34	2	6
Motor vehicle accidents	291	214	77	212	76	120	74	16	72	2	7
Intentional self-harm (suicide)	412	341	71	326	85	271	71	13	37	10	10
By discharge of firearms	212	188	24	165	47	143	40	9	11	7	2
By other means	200	153	47	161	39	128	31	4	26	3	8
Malignant neoplasms	284	139	145	245	39	158	85	13	14	12	2
Malignant neoplasm of breast	36	0	36	30	6	22	8	2	3	1	0
Malignant neoplasm of meninges, brain and other parts of central nervous system	24	21	3	22	2	21	1	1	0	0	1
Malignant neoplasm of lymphoid, hematopoietic and related tissue	45	25	20	41	4	23	17	2	2	1	0
Assault (homicide)	254	218	36	203	45	66	109	29	41	3	6
By discharge of firearms	180	156	24	154	26	47	85	26	16	2	4
By other means	74	62	12	49	25	19	24	3	25	1	2
Diseases of heart	175	127	48	148	27	104	42	14	9	3	3
Chronic liver disease and cirrhosis	107	63	44	78	29	37	16	2	51	0	1
Diabetes	69	39	30	60	9	34	22	4	6	1	2
Obesity	38	29	9	35	3	20	10	5	3	0	0
Cerebrovascular diseases	35	19	16	31	4	17	13	2	2	1	0
Human immunodeficiency virus (HIV) disease	34	29	5	29	5	16	11	3	4	0	0
Total, all causes	2,796	1,920	876	2,203	574	1,473	668	142	385	46	82

*Urban = Maricopa, Pima, Pinal and Yuma counties. The remaining counties comprise Arizona's rural areas.

**Records with unknown urban or rural residence of the decedant are not shown separately but are included in the total.

2C.AGE-SPECIFIC MORTALITY
Middle-aged adult mortality (ages 45-64 years)

Figure 2C-17
Mortality Rates by Gender and Year among Middle-Aged Adults 45-64 Years, Arizona, 2000-2010



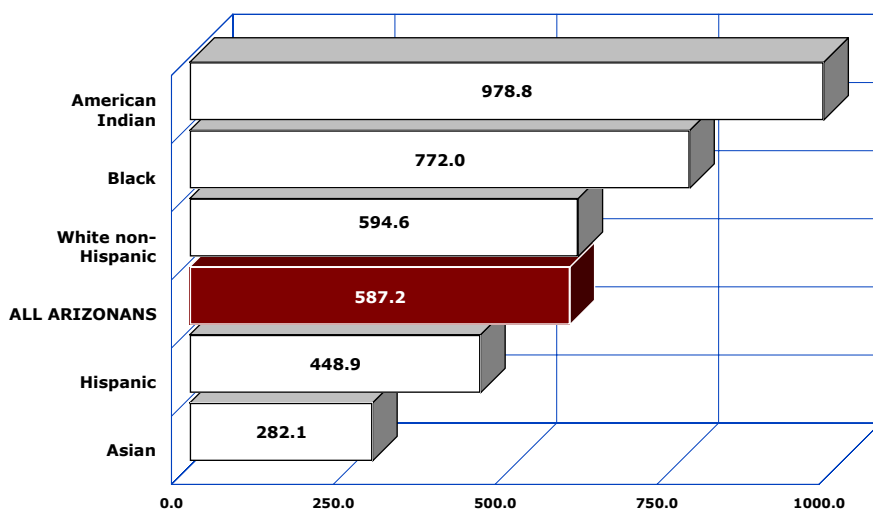
The 1,568,774 middle-aged adult residents aged 45 to 64 experienced 9,212 deaths or an average of 25 deaths per day. The total mortality rate of middle-aged adults changed very little in 2008-2010 (**Table 2C-19**).

The 2010 total mortality rate among middle-age females was 6.5 percent lower and among middle-aged males 8.0 percent lower than their respective rates in 2000 (**Figure 2C-17, Table 2C-19**).

The five causes with the greatest number of deaths in 2000-2010 were *malignant neoplasms, diseases of heart, accidents, chronic liver disease and cirrhosis, and chronic lower respiratory diseases* (**Table 2C-19**).

Number of deaths per 100,000 persons, 45-64 years old in specified group.

Figure 2C-18
Mortality Rates by Race/Ethnicity among Middle-Aged Adults 45-64 Years, Arizona, 2010



American Indian middle-aged adults, followed by Blacks or African Americans and White non-Hispanics had the three highest mortality rates (978.8 deaths per 100,000, 772.0 per 100,000, and 599.5/100,000 respectively) among the race/ethnic groups.

If the 2010 total mortality rate for Asian middle-aged adults applied to all Arizona residents 45-64 years old, 4,425 middle-aged adults would have died rather than 9,212 who actually did.

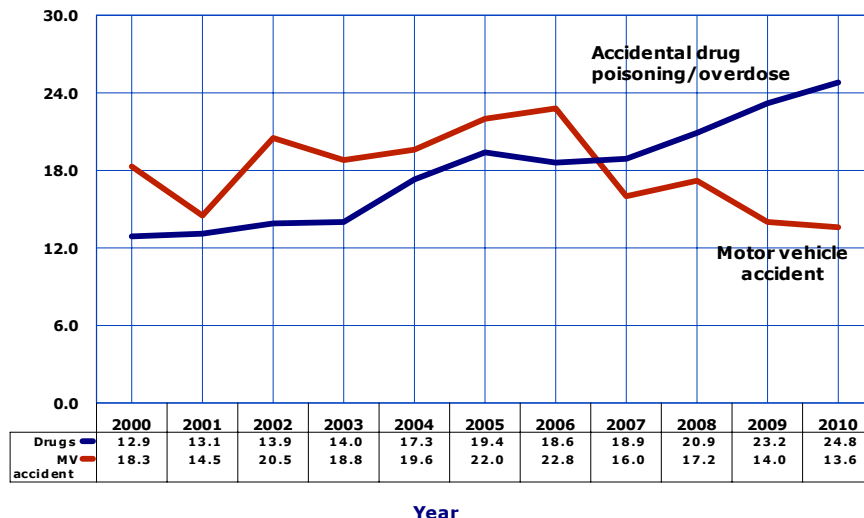
Number of deaths per 100,000 persons, 45-64 years old in specified group.

2C.AGE-SPECIFIC MORTALITY
Middle-aged adult mortality (ages 45-64 years)

Figure 2C-19
Mortality Rates for Accidental Poisoning by Drugs and Motor Vehicle-related Injuries
by Year among Middle-Aged Adults 45-64 Years, Arizona, 2000-2010

In recent years, middle-aged adults experienced an unprecedented increase in mortality from accidental drug overdoses. In 2010, 389 deaths were attributed to accidental poisoning by drugs (**Table 2C-22**), compared to 134 deaths in 2001.

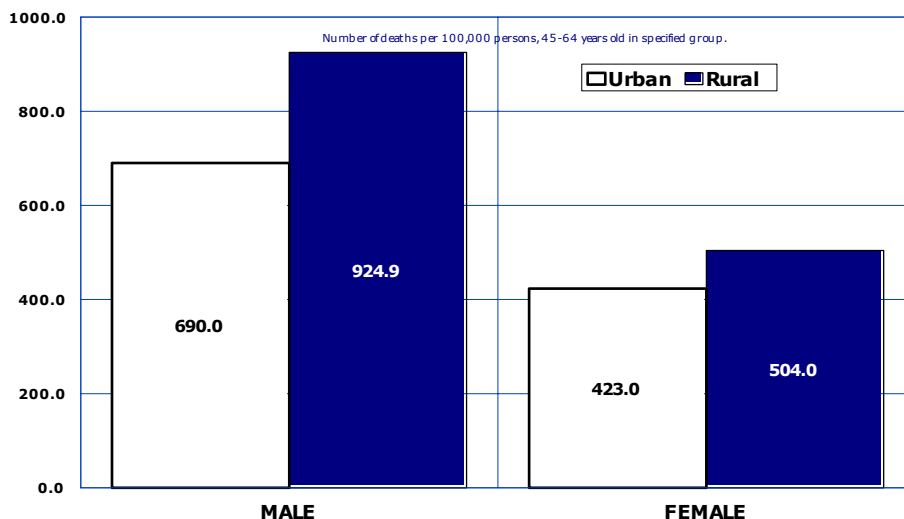
Beginning in 2007, the mortality rate for accidental drug poisoning exceeded the mortality rate for motor vehicle-related injuries among the middle-aged (**Figure 2C-19**). In 2010, the rate of 24.8 fatal drug overdoses per 100,000 middle-aged adults was 82.4 percent greater than the mortality rate of 13.6/100,000 for motor vehicle accidents. White non-Hispanic accounted for 293 or 75.3 percent of all accidental poisoning deaths, including drug overdoses, gases, and vapors (**Table 2C-22**).



Number of deaths per 100,000 persons, 45-64 years old in specified group.

Figure 2C-20
Mortality Rates by Gender in Urban* and Rural Areas among
Middle-Aged Adults 45-64 Years, Arizona, 2010

In 2010, as in the past, rural middle-aged males had the poorest survival chances (**Figure 2C-20, Table 2C-21**). Rural middle-aged male chances of death in 2010 were 34.0 percent greater than urban males, 83.5 percent greater than rural females, and 118.7 percent (2.2 times) greater than urban females.



*Urban = Maricopa, Pima, Pinal and Yuma Counties.

**TABLE 2C-19
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES² OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)
BY GENDER, ARIZONA, 2000-2010**

Gender/Cause	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
MALE												
Malignant neoplasms	212.9	204.3	228.3	220.6	213.1	210.6	192.1	192.1	184.5	182.2	188.3	-11.6
Diseases of heart	202.0	197.4	206.1	196.7	196.7	207.5	186.7	170.8	175.5	169.0	160.7	-20.4
Accidents (unintentional injuries)	65.8	66.6	70.9	68.8	75.7	86.2	81.2	73.2	76.5	71.9	69.2	5.2
Motor vehicle accidents	26.8	19.8	29.3	26.2	27.7	33.7	31.9	23.1	24.6	20.8	19.9	-25.7
Other	39.0	46.8	41.6	42.6	48.0	52.5	49.3	50.1	51.9	51.1	54.6	40.0
Chronic liver disease and cirrhosis	41.9	42.5	36.0	42.7	42.3	45.1	34.4	35.5	39.2	38.0	42.1	0.5
Suicide	29.7	25.6	34.4	29.4	31.6	32.7	31.9	35.0	35.1	37.0	40.9	37.7
ALL CAUSES	808.6	811.2	839.0	840.1	823.9	852.1	772.8	746.4	741.9	738.1	744.1	-8.0
(Number of all deaths)	(4190)	(4348)	(4637)	(4776)	(4906)	(5232)	(5282)	(5397)	(5450)	(5472)	(5659)	35.1
FEMALE												
Malignant neoplasms	181.5	185.4	179.2	181.3	179.4	182.3	166.2	154.7	151.4	154.2	153.9	-15.2
Diseases of heart	79.5	75.1	78.0	72.8	74.8	74.2	66.4	65.0	63.4	59.4	55.9	-29.7
Accidents (unintentional injuries)	21.0	23.5	26.5	24.6	29.6	33.1	35.8	30.2	34.2	36.1	36.6	74.3
Motor vehicle accidents	10.3	9.6	12.2	11.9	11.8	10.9	14.2	9.2	10.0	7.6	7.7	-25.2
Other	10.7	13.9	14.3	12.7	17.8	22.2	21.6	21.0	24.2	28.5	29.0	171.0
Chronic lower respiratory diseases	20.6	25.7	19.9	22.5	18.5	25.4	21.6	23.6	24.3	19.2	19.3	-6.3
Diabetes	17.0	19.6	19.5	17.2	19.0	20.1	19.1	14.0	16.0	14.2	17.0	0.0
ALL CAUSES	470.0	464.1	481.8	478.5	482.7	504.6	464.1	426.7	448.4	448.6	439.6	-6.5
(Number of all deaths)	(2595)	(2650)	(2837)	(2898)	(3022)	(3292)	(3336)	(3232)	(3449)	(3483)	(3553)	36.9
TOTAL												
Malignant neoplasms	196.7	194.6	203.0	200.3	195.8	196.0	178.8	173.0	167.6	167.9	170.6	-13.3
Diseases of heart	138.8	134.3	140.0	132.9	134.2	138.8	125.0	116.6	118.2	112.9	106.7	-23.1
Accidents (unintentional injuries)	42.7	44.4	48.0	46.0	52.1	58.8	57.9	51.2	54.9	53.6	52.4	22.7
Motor vehicle accidents	18.3	14.5	20.5	18.8	19.6	22.0	22.8	16.0	17.2	14.0	13.6	-25.7
Other	24.4	29.9	27.5	27.2	32.5	36.8	35.1	35.2	37.7	39.5	38.8	59.0
Chronic liver disease and cirrhosis	29.1	27.5	26.1	29.0	28.9	31.8	25.0	25.3	29.7	29.1	30.2	3.8
Chronic lower respiratory diseases	24.2	26.7	23.7	21.9	21.4	26.8	22.7	21.8	24.7	21.5	20.0	-17.4
ALL CAUSES	633.9	632.1	654.8	653.7	649.1	673.1	614.6	582.8	591.8	590.0	587.2	-7.4
(Number of all deaths)	(6785)	(6998)	(7474)	(7675)	(7928)	(8524)	(8618)	(8629)	(8899)	(8855)	(9212)	35.8

¹Rates are presented per 100,000 middle-aged adults 45-64 years old.

²The five causes with the greatest number of deaths over the 2000-2010 period.

Note: The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2000-2010 are classified by ICD-10. Comparison between ICD-9 and ICD-10 - the "comparability ratios" - for the causes of death shown in this report are provided in the **Technical Notes**.

**TABLE 2C-20
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES² OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)
IN URBAN AND RURAL AREAS³, ARIZONA, 2000-2010**

Area/Cause	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
URBAN												
Malignant neoplasms	196.6	193.2	202.4	198.0	188.9	190.5	174.8	169.6	162.8	165.4	164.6	-16.3
Diseases of heart	132.5	129.8	135.3	125.9	127.0	132.5	119.9	109.4	109.8	101.3	98.6	-25.6
Accidents (unintentional injuries)	41.0	42.8	45.1	40.6	47.6	55.7	54.2	47.8	51.6	48.8	47.5	15.9
Motor vehicle accidents	17.0	12.5	18.0	14.7	17.0	18.7	19.7	13.7	14.8	11.5	11.1	-34.7
Other	24.0	30.3	27.1	25.9	30.6	37.0	34.5	34.1	36.8	37.3	36.5	52.1
Chronic liver disease and cirrhosis	28.3	26.9	25.8	26.8	25.2	30.0	23.3	23.0	27.4	25.7	27.2	-3.9
Chronic lower respiratory diseases	25.1	27.8	23.0	21.2	21.9	25.8	22.3	20.5	23.6	20.2	19.2	-23.5
ALL CAUSES	619.2	615.7	637.2	630.2	620.7	647.8	595.0	559.7	559.5	559.4	552.4	-10.8
(Number of all deaths)	(5345)	(5509)	(5878)	(5987)	(6140)	(6658)	(6834)	(6812)	(6918)	(6979)	(7098)	32.8
RURAL												
Malignant neoplasms	197.1	199.7	205.5	210.1	225.2	219.6	197.0	188.3	188.1	176.9	193.1	-2.0
Diseases of heart	164.7	153.6	159.4	162.4	164.5	165.9	148.1	149.6	156.0	164.3	137.4	-16.6
Accidents (unintentional injuries)	48.8	50.4	60.3	68.2	71.0	72.5	74.9	65.3	68.1	71.4	66.2	35.7
Motor vehicle accidents	22.7	23.1	31.1	35.7	30.6	36.0	37.0	26.6	27.3	24.8	23.6	4.0
Other	26.1	27.3	29.2	32.5	40.4	36.5	37.9	38.7	40.8	46.6	42.6	63.2
Chronic liver disease and cirrhosis	32.4	29.7	27.4	37.9	44.8	39.8	32.3	36.1	39.6	43.3	41.9	29.3
Chronic lower respiratory diseases	20.3	22.1	26.9	25.0	18.9	31.4	24.8	28.1	29.5	27.4	22.2	9.4
ALL CAUSES	693.7	683.9	725.8	750.7	768.9	781.4	702.9	687.3	727.8	713.2	708.3	2.1
(Number of all deaths)	(1436)	(1452)	(1589)	(1683)	(1786)	(1865)	(1784)	(1810)	(1946)	(1927)	(2010)	40.0
STATEWIDE												
Malignant neoplasms	196.7	194.6	203.0	200.3	195.8	196.0	178.8	173.0	167.6	167.9	170.6	-13.3
Diseases of heart	138.8	134.3	140.0	132.9	134.2	138.8	125.0	116.6	118.2	112.9	106.7	-23.1
Accidents (unintentional injuries)	42.7	44.4	48.0	46.0	52.1	58.8	57.9	51.2	54.9	53.6	52.4	22.7
Motor vehicle accidents	18.3	14.5	20.5	18.8	19.6	22.0	22.8	16.0	17.2	14.0	13.6	-25.7
Other	24.4	29.9	27.5	27.2	32.5	36.8	35.1	35.2	37.7	39.5	38.8	59.0
Chronic liver disease and cirrhosis	29.1	27.5	26.1	29.0	28.9	31.8	25.0	25.3	29.7	29.1	30.2	3.8
Chronic lower respiratory diseases	24.2	26.7	23.7	21.9	21.4	26.8	22.7	21.8	24.7	21.5	20.0	-17.4
ALL CAUSES	633.9	632.1	654.8	653.7	649.1	673.1	614.6	582.8	591.8	590.0	587.2	-7.4
(Number of all deaths)	(6785)	(6998)	(7474)	(7675)	(7928)	(8524)	(8618)	(8629)	(8899)	(8855)	(9212)	35.8

¹Rates are presented per 100,000 middle-aged adults 45-64 years old.

²The five causes with the greatest number of deaths over the 2000-2010 period.

³Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for more information.

Note: Records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area. The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2000-2010 are classified by ICD-10. Comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**.

**TABLE 2C-21
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)
BY GENDER IN URBAN AND RURAL AREAS², ARIZONA, 2000-2010**

Area/Gender	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
URBAN												
Male	789.4	782.6	812.8	809.3	788.6	815.2	749.3	714.7	693.2	697.6	690.0	-12.6
Female	459.6	461.0	472.5	462.2	461.1	490.0	447.6	410.8	431.1	426.5	423.0	-8.0
TOTAL	619.2	615.7	637.2	630.1	620.7	647.8	595.0	559.7	559.5	559.4	552.4	-10.8
RURAL												
Male	937.7	907.2	943.6	966.6	972.3	1010.8	879.7	891.7	953.6	896.8	924.9	-1.4
Female	575.2	473.2	520.2	546.9	575.1	567.2	536.9	497.7	518.4	543.0	504.0	-12.4
TOTAL	693.7	683.9	725.8	750.7	768.9	781.4	702.9	687.3	727.8	713.2	708.3	2.1
STATEWIDE												
Male	808.6	811.2	839.0	840.1	823.9	852.1	772.8	746.4	741.9	738.1	744.1	-8.0
Female	470.0	464.1	481.8	478.5	482.7	504.6	464.1	426.7	448.4	448.6	439.6	-6.5
TOTAL	633.9	632.1	654.8	653.6	649.1	673.1	614.6	582.8	591.8	590.0	587.2	-7.4

¹Rates are presented per 100,000 persons 45-64 years old.

²Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for more information.

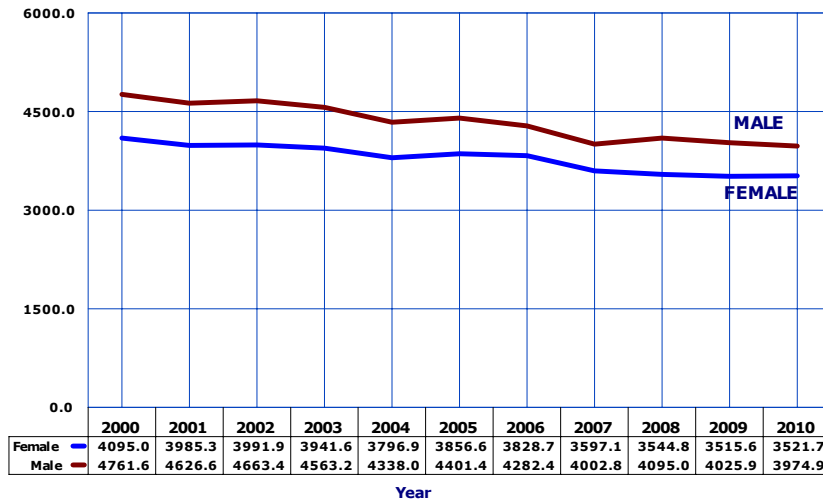
**TABLE 2C-22
LEADING CAUSES OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS) BY GENDER, AREA AND RACE/ETHNICITY,
ARIZONA, 2010**

Cause of death	Total		Gender		Area*			Race/ethnicity					
	Total	Gender		Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Other/unknown	
		Male	Female										
Malignant neoplasms	2,676	1,432	1,244	2,115	548	13	2,032	378	118	69	45	34	
Malignant neoplasm of trachea, bronchus and lung	612	364	248	490	119	3	504	58	23	5	13	9	
Malignant neoplasm of breast	284	3	281	230	54	0	213	50	10	4	6	1	
Malignant neoplasm of colon, rectum, and anus	228	142	86	181	45	2	171	27	13	8	4	5	
Malignant neoplasm of pancreas	184	115	69	150	34	0	132	30	12	2	5	3	
Diseases of heart	1,674	1,222	452	1,267	390	17	1,223	221	101	73	17	39	
Accidents (unintentional injury)	822	526	296	611	188	23	580	119	35	56	10	22	
Accidental poisoning	389	224	165	306	72	11	293	49	20	13	1	13	
Motor vehicle accidents	213	151	62	142	67	4	141	41	3	20	4	4	
Chronic liver disease and cirrhosis	473	320	153	350	119	4	282	90	8	87	1	5	
Intentional self-harm (suicide)	422	311	111	312	103	7	365	32	4	9	3	9	
By discharge of firearms	236	193	43	171	63	2	212	17	1	1	1	4	
By other means	186	118	68	141	40	5	153	15	3	8	2	5	
Chronic lower respiratory diseases	313	157	156	247	63	3	272	21	11	3	1	5	
Diabetes	373	236	137	293	77	3	194	85	24	61	4	5	
Cerebrovascular diseases	223	135	88	183	39	1	137	48	14	15	8	1	
Viral hepatitis	172	124	48	139	31	2	113	46	3	8	1	1	
Influenza and pneumonia	114	63	51	88	25	1	74	12	3	19	2	4	
Septicemia	91	44	47	65	23	3	46	21	10	12	1	1	
Nephritis, nephrotic syndrome and nephrosis	89	50	39	63	25	1	44	20	6	14	2	3	
Assault (homicide)	81	58	23	59	18	4	47	19	4	5	4	2	
By discharge of firearms	45	31	14	34	9	2	30	8	2	2	3	0	
By other means	36	27	9	25	9	2	17	11	2	3	1	2	
Essential (primary) hypertension and hypertensive renal disease	64	41	23	51	12	1	35	13	8	7	1	0	
Human immunodeficiency virus (HIV) disease	62	57	5	54	7	1	32	13	11	1	1	4	
Total, all causes	9,212	5,659	3,553	7,098	2,010	104	6,517	1,343	433	570	120	229	

*Urban = Maricopa, Pima, Pinal and Yuma counties. The remaining counties comprise Arizona's rural areas.

2C.AGE-SPECIFIC MORTALITY
Elderly mortality (ages 65 years and older)

Figure 2C-21
Mortality Rates by Gender and Year among Elderly 65 Years and Older,
Arizona, 2000-2010



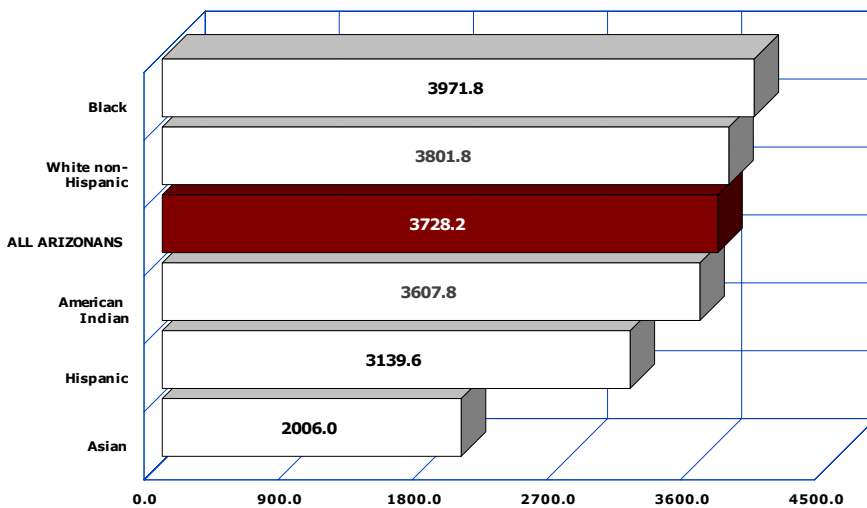
Number of deaths per 100,000 persons, 65+ years old in specified group.

In 2010, an estimated 881,831 elderly over 64 years of age resided in the State (**Table 10A-1**). No other age group has as great a disproportionate gender distribution as the elderly. As a result of the higher total mortality rates for males in each of the earlier periods of lifespan, 19.5 percent more elderly women than men were alive in 2010.

The 2010 elderly mortality rate of 3728.2 per 100,000 was 15.1 percent lower than the 2000 rate of 4390.7, and it was the lowest annual elderly mortality rate of the eleven years from 2000 to 2010 (**Table 2C-23**).

Survival chances improved from 2000 to 2010 for both elderly males and females. The 2010 total mortality rate among elderly females was 14.0 percent lower than their rate in 2000. The mortality rate among elderly males decreased 16.5 percent from 2000 to 2010 (**Figure 2C-21, Table 2C-23**).

Figure 2C-22
Mortality Rates by Race/Ethnicity among Elderly 65 Years and Older,
Arizona, 2010



Number of deaths per 100,000 persons, 65+ years old in specified group.

In 2010 the mortality rate for Arizona's Black or African American elderly residents was 2 times that for the Asian elderly population. The mortality rate of 2006.0 /100,000 among elderly Asians was the lowest rate among the race/ethnic groups (**Figure 2C-22**). Hispanic or Latino elderly had the second lowest mortality rate in 2010.

2C.AGE-SPECIFIC MORTALITY
Elderly mortality (ages 65 years and older)

The two tables (**Tables 2C-23 and 2C-24**) provide mortality rates for the five causes with the greatest number of deaths over the 2000 – 2010 period.

In 2010, Alzheimer’s disease (2,301 deaths) accounted for 7.0 percent of the elderly mortality.

From 2009 to 2010, gender-specific death rates for Alzheimer’s disease increased by 11.1 percent for elderly females (**Figure 2C-23**) and by 4.3 percent for elderly males.

There were 1,553 deaths from Alzheimer’s disease among elderly females in 2010, 2.1 times the number of deaths from this cause among males (748; (**Table 2C-26**).

White non-Hispanic elderly accounted for 87.1 percent of the 2010 deaths from Alzheimer’s disease (based on data in **Table 2C-26**).

Figure 2C-23
Trends in Mortality Rates for Alzheimer’s Disease by Gender and Year among Elderly 65 Years and Older, Arizona, 2000-2010

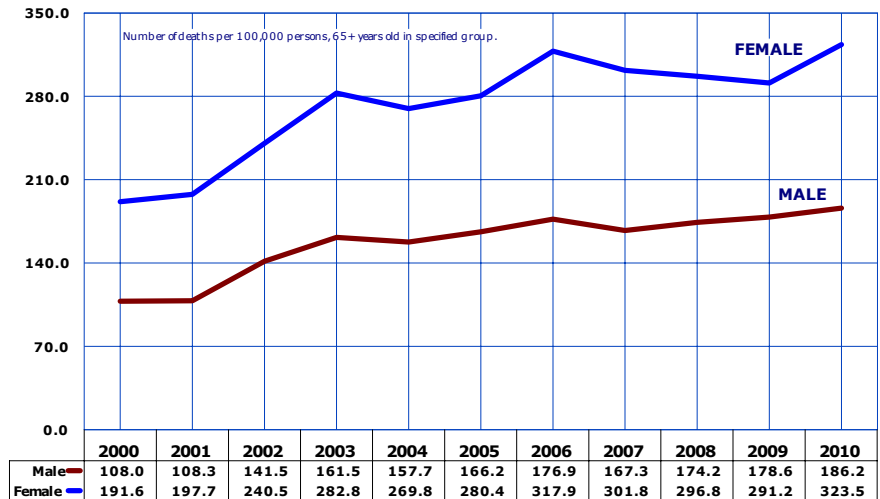
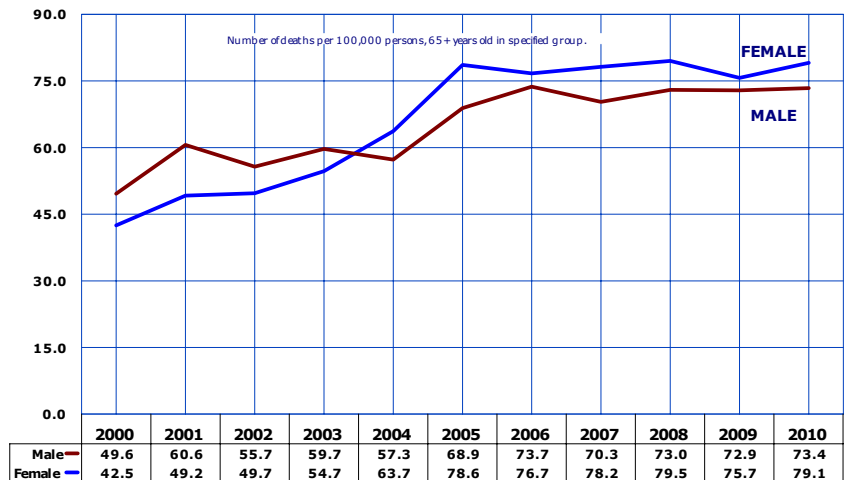


Figure 2C-24
Trends in Mortality Rates for Falls and Fall-related Injuries by Gender and Year among Elderly 65 Years and Older, Arizona, 2000-2010

Among unintentional injury deaths unrelated to motor vehicles, Arizona’s elderly experienced a substantial increase in mortality from *fall-related injuries* (**Figure 2C-24**). In 2010, 675 elderly Arizonans 65 years or older died from *fall-related injuries*, compared to 305 in 2000, and 5.4 times as many as the number of those who died from motor vehicle-related injuries (125; **Table 2C-26**).

In 2010, those 85 years old or older, experienced the largest number of *fall-related deaths* (381), followed by Arizonans 75-84 years old (213 deaths) and the youngest elderly 65-74 years old (81 fall-related deaths). There is more data available online at <http://www.azdhs.gov/plan/report/im/falls.htm>



**TABLE 2C-23
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES² OF DEATH AMONG ELDERLY (65 YEARS AND OLDER) BY GENDER,
ARIZONA, 2000-2010**

Gender/Cause	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
MALE												
Diseases of heart	1475.7	1378.0	1363.9	1335.3	1241.4	1238.7	1138.7	1079.2	1114.1	1073.3	992.8	-32.7
Malignant neoplasms	1171.9	1091.2	1119.6	1126.0	1085.8	1068.2	1058.2	1020.4	1006.6	1017.3	1007.7	-14.0
Chronic lower respiratory diseases	369.3	338.0	352.3	340.9	296.0	317.3	326.7	300.9	316.8	303.6	310.9	-15.8
Cerebrovascular diseases	309.9	277.0	269.4	248.9	242.2	224.9	195.2	168.6	188.9	182.8	169.3	-45.4
Alzheimer's disease	108.0	108.3	141.5	161.5	157.0	166.2	176.9	167.3	174.4	178.6	186.2	72.4
ALL CAUSES	4761.6	4626.6	4663.4	4536.2	4338.0	4401.4	4282.4	4002.8	4095.0	4025.9	3974.9	-16.5
(Number of all deaths)	(14107)	(14182)	(14733)	(14744)	(14614)	(15385)	(15273)	(14981)	(15589)	(15462)	(15967)	13.2
FEMALE												
Diseases of heart	1165.3	1126.8	1101.9	1098.6	1028.8	1013.9	968.0	891.9	860.8	855.9	804.8	-30.9
Malignant neoplasms	814.6	781.9	734.5	757.2	731.8	721.8	713.1	696.4	691.1	701.6	702.5	-13.8
Alzheimer's disease	191.6	197.7	240.5	282.8	269.8	280.4	317.9	301.8	297.9	291.2	323.5	68.8
Chronic lower respiratory diseases	300.6	287.4	281.6	276.2	264.0	297.4	286.3	255.0	279.3	273.5	272.6	-9.3
Cerebrovascular diseases	376.0	337.9	337.4	316.2	311.8	286.9	258.7	246.8	229.2	218.5	229.9	-38.9
ALL CAUSES	4095.0	3985.3	3991.9	3941.6	3796.9	3856.6	3828.7	3597.1	3544.8	3515.6	3521.7	-14.0
(Number of all deaths)	(15216)	(15322)	(15820)	(16070)	(15918)	(16778)	(16919)	(16601)	(16625)	(16636)	(16909)	11.1
TOTAL												
Diseases of heart	1303.0	1238.2	1218.1	1203.6	1123.5	1114.1	1044.8	975.7	974.3	953.3	890.4	-31.7
Malignant neoplasms	973.1	919.1	905.3	920.9	889.5	876.1	867.2	841.5	832.4	843.0	841.5	-13.5
Chronic lower respiratory diseases	331.1	309.8	313.0	304.9	278.3	306.3	304.3	275.6	296.1	287.0	290.1	-12.4
Alzheimer's disease	154.4	158.0	196.6	229.0	220.1	229.5	258.2	241.6	242.6	240.8	260.9	69.0
Cerebrovascular diseases	346.6	310.9	307.2	286.3	280.8	259.2	230.3	211.8	211.1	202.5	202.3	-41.6
ALL CAUSES	4390.7	4269.8	4289.8	4205.5	4038.0	4099.3	4031.3	3778.8	3791.3	3744.2	3728.2	-15.1
(Number of all deaths)	(29323)	(29504)	(30553)	(30815)	(30532)	(32163)	(32192)	(31852)	(32214)	(32098)	(32876)	12.1

¹Rates are presented per 100,000 elderly persons 65 years and older.

²The five causes with the greatest number of deaths over the 2000-2010 period.

Note: The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2000-2010 are classified by ICD-10, replacing the Ninth Revision (ICD-9).

**TABLE 2C-24
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES² OF DEATH AMONG ELDERLY (65 YEARS AND OLDER)
IN URBAN AND RURAL AREAS³, ARIZONA, 2000-2010**

Area/Cause	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
URBAN												
Diseases of heart	1333.1	1273.8	1245.9	1217.0	1130.1	1110.7	1055.0	983.1	971.9	952.2	888.5	-33.4
Malignant neoplasms	977.7	915.3	906.5	907.5	869.3	863.6	854.5	834.1	817.9	835.0	834.0	-14.7
Chronic lower respiratory diseases	340.6	320.7	316.5	303.4	278.9	309.3	303.2	271.8	289.2	282.2	288.7	-15.2
Alzheimer's disease	164.4	169.8	208.6	235.7	232.9	244.6	270.7	262.4	261.3	263.2	284.9	73.3
Cerebrovascular diseases	352.4	315.5	313.7	289.5	287.8	257.3	234.6	211.3	206.4	206.1	201.5	-42.8
ALL CAUSES	4447.4	4292.7	4314.8	4192.3	4021.7	4083.4	4053.0	3792.4	3765.0	3765.4	3738.3	-15.9
(Number of all deaths)	(23753)	(23758)	(24619)	(24633)	(24384)	(25740)	(25585)	(25143)	(25374)	(25596)	(26043)	9.6
RURAL												
Diseases of heart	1180.6	1094.2	1106.2	1146.3	1094.8	1127.8	1006.1	946.3	979.3	950.4	889.9	-24.6
Malignant neoplasms	954.0	933.5	900.1	974.1	966.6	927.4	915.2	868.7	883.7	865.3	864.6	-9.4
Chronic lower respiratory diseases	293.1	266.1	297.9	310.0	275.7	293.8	308.5	290.0	322.1	302.5	291.6	-0.5
Cerebrovascular diseases	323.7	292.3	281.0	272.1	251.7	267.2	214.0	213.6	228.2	187.0	204.1	-36.9
Alzheimer's disease	115.1	110.5	144.6	140.5	195.6	168.0	195.5	161.5	166.7	152.1	169.6	47.4
ALL CAUSES	4160.1	4123.0	4185.5	4249.8	4093.4	4164.3	3949.5	3723.8	3863.1	3628.5	3657.5	-12.1
(Number of all deaths)	(5564)	(5671)	(5929)	(6169)	(6132)	(6421)	(6607)	(6434)	(6789)	(6441)	(6773)	21.7
STATEWIDE												
Diseases of heart	1303.0	1238.2	1218.1	1203.6	1123.5	1114.1	1044.8	975.7	974.3	953.3	890.4	-31.7
Malignant neoplasms	973.1	919.1	905.3	920.9	889.5	876.1	867.2	841.5	832.4	843.0	841.5	-13.5
Chronic lower respiratory diseases	331.1	309.8	313.0	304.9	278.3	306.3	304.3	275.6	296.1	287.0	290.1	-12.4
Alzheimer's disease	154.4	158.0	196.6	229.0	220.1	229.5	258.2	241.6	242.6	240.8	260.9	69.0
Cerebrovascular diseases	346.6	310.9	307.2	286.3	280.8	259.2	230.3	211.8	211.1	202.5	202.3	-41.6
ALL CAUSES	4390.7	4269.8	4289.8	4205.5	4038.0	4099.3	4031.3	3778.8	3791.3	3744.2	3728.2	-15.1
(Number of all deaths)	(29323)	(29504)	(30553)	(30815)	(30532)	(32163)	(32192)	(31852)	(32214)	(32098)	(32876)	12.1

¹Rates are presented per 100,000 elderly persons 65 years and older.

²The five causes with the greatest number of deaths over the 2000-2010 period.

³Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for more information.

Note: Records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area. The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2000-2010 are classified by ICD-10, replacing the Ninth Revision (ICD-9). Comparison between ICD-9 and ICD-10 - the "comparability ratios" - for the causes of death shown in this report are provided in the **Technical Notes**.

**TABLE 2C-25
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES OF DEATH AMONG ELDERLY (65 YEARS AND OLDER)
BY GENDER IN URBAN AND RURAL AREAS², ARIZONA, 2000-2010**

Area/Gender	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	% change from 2000
URBAN												
Male	4818.1	4650.1	4674.4	4542.1	4323.1	4359.2	4283.2	3986.1	4053.2	4013.8	3976.9	-17.5
Female	4160.0	4015.6	4036.1	3920.8	3786.0	3866.8	3871.5	3638.1	3534.9	3567.5	3543.8	-14.8
TOTAL	4447.4	4292.7	4314.8	4192.1	4021.7	4083.4	4053.0	3792.4	3765.0	3765.4	3738.3	-15.9
RURAL												
Male	4695.7	4473.9	4617.9	4502.4	4379.8	4561.0	4279.7	4058.9	4216.1	4021.7	3917.1	-16.6
Female	4417.3	3810.1	3799.9	4024.4	3836.1	3811.3	3658.6	3432.7	3555.8	3286.5	3418.2	-22.6
TOTAL	4160.1	4123.0	4185.5	4249.8	4093.4	4164.3	3949.5	3723.8	3863.1	3628.5	3657.5	-12.1
STATEWIDE												
Male	4761.6	4626.6	4663.4	4536.2	4338.0	4401.4	4282.4	4002.8	4095.0	4025.9	3974.9	-16.5
Female	4095.0	3985.3	3991.9	3941.6	3796.9	3856.6	3828.7	3597.1	3544.8	3515.6	3521.7	-14.0
TOTAL	4390.7	4269.8	4289.8	4205.3	4038.0	4099.3	4031.3	3778.8	3791.3	3744.2	3728.2	-15.1

¹Rates are presented per 100,000 persons 65 years and older.

²Urban = Maricopa, Pima, Pinal and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for more information.

**TABLE 2C-26
LEADING CAUSES OF DEATH AMONG ELDERLY (65 YEARS AND OLDER) BY GENDER, AREA AND RACE/ETHNICITY,
ARIZONA, 2010**

Cause of death	Gender		Area*			Race/ethnicity					
	Male	Female	Urban	Rural	Other/ Unknown	White non- Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Other/ unknown
Diseases of heart	3,988	3,864	6,190	1,648	14	6,755	647	154	142	68	86
Malignant neoplasms	4,048	3,373	5,810	1,601	10	6,379	631	163	111	68	69
Malignant neoplasm of trachea, bronchus and lung	1,093	922	1,565	446	4	1,822	113	36	10	14	20
Malignant neoplasm of lymphoid, hematopoietic and related tissue	458	321	627	152	0	665	63	20	14	6	11
Malignant neoplasm of colon, rectum, and anus	358	334	552	140	0	577	75	19	12	8	1
Malignant neoplasm of pancreas	257	261	418	100	0	433	53	12	10	6	4
Malignant neoplasm of prostate	507	0	384	123	0	412	59	16	10	4	6
Malignant neoplasm of breast	9	403	324	88	0	346	43	14	3	4	2
Chronic lower respiratory diseases	1,249	1,309	2,011	540	7	2,366	107	26	27	9	23
Alzheimer's disease	748	1,553	1,985	314	2	2,005	188	48	19	25	16
Cerebrovascular diseases	680	1,104	1,404	378	2	1,480	195	52	32	18	7
Accidents (unintentional injury)	506	512	835	178	5	852	86	13	42	13	12
Falls	295	380	576	98	1	602	41	2	19	6	5
Motor vehicle accidents	79	46	92	33	0	91	20	4	8	2	0
Diabetes	498	432	727	201	2	594	196	47	78	8	7
Influenza and pneumonia	289	296	432	152	1	479	56	9	29	6	6
Parkinson's disease	290	190	396	84	0	412	49	5	11	2	1
Essential (primary) hypertension and hypertensive disease	183	240	360	63	0	325	56	20	10	8	4
Nephritis, nephrotic syndrome and nephrosis	207	200	292	114	1	308	59	17	17	2	4
Septicemia	143	160	234	69	0	239	26	15	15	3	5
Total, all causes	15,967	16,909	26,043	6,773	60	27,747	2,960	688	722	293	466

*Urban = Maricopa, Pima, Pinal and Yuma counties. The remaining counties comprise Arizona's rural areas.

COMPARATIVE CAUSE-SPECIFIC MORTALITY BY AGE GROUP

**TABLE 2C-27
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2010**

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Unknown
Total, all causes	45,871	519	240	220	2,796	9,212	32,876	8
Salmonella infections	1	0	0	0	0	1	0	0
Shigellosis and amebiasis	1	0	0	0	1	0	0	0
Certain other intestinal infections	276	8	2	0	2	22	242	0
Enterocolitis due to Clostridium difficile	218	0	0	0	0	18	200	0
Tuberculosis	15	0	0	0	2	8	5	0
Respiratory tuberculosis	12	0	0	0	1	6	5	0
Other tuberculosis	3	0	0	0	1	2	0	0
Whooping cough	0	0	0	0	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0	0	0	0	0
Meningococcal infection	2	1	0	0	0	1	0	0
Septicemia	425	7	0	2	22	91	303	0
Syphilis	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0
Viral hepatitis	219	0	0	0	8	172	39	0
Human immunodeficiency virus (HIV) disease	99	0	0	0	34	62	3	0
Malaria	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	174	6	8	1	16	37	106	0
Malignant neoplasms	10,423	4	26	12	284	2,676	7,421	0
Malignant neoplasm of lip, oral cavity and pharynx	134	0	0	0	2	44	88	0
Malignant neoplasm of esophagus	273	0	0	0	6	92	175	0
Malignant neoplasm of stomach	199	0	0	0	10	51	138	0
Malignant neoplasm of colon, rectum, and anus	952	0	0	0	32	228	692	0
Malignant neoplasm of liver and intrahepatic bile ducts	379	0	0	1	10	145	223	0
Malignant neoplasm of pancreas	707	0	0	0	5	184	518	0
Malignant neoplasm of larynx	66	0	0	0	0	23	43	0
Malignant neoplasm of trachea, bronchus and lung	2,655	0	0	0	28	612	2,015	0
Malignant melanoma of skin	191	0	0	1	14	64	112	0
Malignant neoplasm of breast	732	0	0	0	36	284	412	0
Malignant neoplasm of cervix uteri	68	0	0	0	13	25	30	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	138	0	0	0	2	57	79	0
Malignant neoplasm of ovary	283	0	0	0	8	84	191	0
Malignant neoplasm of prostate	549	0	0	0	0	42	507	0
Malignant neoplasm of kidney and renal pelvis	286	0	0	0	5	85	196	0
Malignant neoplasm of bladder	247	0	0	0	0	34	213	0

TABLE 2C-27 (continued)
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2010

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Unknown
Malignant neoplasm of meninges, brain and other parts of CNS	268	0	7	1	24	102	134	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,049	4	14	5	45	202	779	0
Hodgkin's disease	22	0	0	0	5	4	13	0
Non-Hodgkin's lymphoma	379	1	1	2	16	73	286	0
Leukemia	441	3	13	3	24	86	312	0
Multiple myeloma and immunoproliferative neoplasms	206	0	0	0	0	39	167	0
Other and unspecified malignant neoplasms of lymphoid tissue	1	0	0	0	0	0	1	0
All other and unspecified malignant neoplasm	1,247	0	5	4	44	318	876	0
In situ neoplasms	443	2	1	1	9	83	347	0
Anemias	50	0	2	0	2	8	38	0
Diabetes	1,372	0	0	0	69	373	930	0
Nutritional deficiencies	39	0	0	0	1	6	32	0
Malnutrition	37	0	0	0	1	6	30	0
Other nutritional deficiencies	2	0	0	0	0	0	2	0
Obesity	138	0	0	0	38	67	33	0
Meningitis	11	2	0	0	3	1	5	0
Parkinson's disease	488	0	0	0	0	8	480	0
Alzheimer's disease	2,314	0	0	0	0	13	2,301	0
Major cardiovascular diseases	12,754	10	9	9	232	2,022	10,472	0
Diseases of heart	9,719	8	3	7	175	1,674	7,852	0
Acute rheumatic fever and chronic rheumatic heart disease	42	0	0	0	2	8	32	0
Hypertensive heart disease	644	0	0	0	19	159	466	0
Hypertensive heart and renal disease	36	0	0	1	1	4	30	0
Ischemic heart disease	7,043	0	1	0	89	1,231	5,722	0
Acute myocardial infarction	1,494	0	1	0	19	267	1,207	0
Other acute ischemic heart disease	22	0	0	0	0	2	20	0
Other forms of chronic ischemic heart disease	5,527	0	0	0	70	962	4,495	0
Atherosclerotic cardiovascular disease	1,699	0	0	0	35	494	1,170	0
All other forms of chronic ischemic heart disease	3,828	0	0	0	35	468	3,325	0
Other heart diseases	1,954	8	2	6	64	272	1,602	0
Acute and subacute endocarditis	27	0	0	0	1	8	18	0
Diseases of pericardium and acute myocarditis	13	0	0	0	4	4	5	0
Heart failure	543	0	0	0	1	31	511	0
All other forms of heart disease	1,371	8	2	6	58	229	1,068	0
Essential (primary) hypertension and hypertensive renal disease	498	0	0	0	11	64	423	0
Cerebrovascular diseases	2,051	2	5	2	35	223	1,784	0
Atherosclerosis	153	0	0	0	1	5	147	0

TABLE 2C-27 (continued)
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2010

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Unknown
Other diseases of circulatory system	333	0	1	0	10	56	266	0
Aortic aneurysm and dissection	167	0	0	0	6	34	127	0
Other disease of arteries, arterioles and capillaries	166	0	1	0	4	22	139	0
Other disorders of circulatory system	93	0	0	0	13	42	38	0
Influenza and pneumonia	729	3	3	0	24	114	585	0
Influenza	7	0	1	0	2	1	3	0
Pneumonia	722	3	2	0	22	113	582	0
Other acute lower respiratory infections	4	0	0	0	0	1	3	0
Acute bronchiolitis	4	0	0	0	0	1	3	0
Unspecified acute lower respiratory infection	0	0	0	0	0	0	0	0
Chronic lower respiratory diseases	2,892	1	4	2	14	313	2,558	0
Bronchitis, chronic and unspecified	7	1	1	0	1	1	3	0
Emphysema	229	0	0	0	1	34	194	0
Asthma	57	0	2	1	7	19	28	0
Other chronic lower respiratory diseases	2,599	0	1	1	5	259	2,333	0
Pneumoconioses and chemical effects	13	0	0	0	0	0	13	0
Pneumonitis due to solids and liquids	261	0	0	0	3	30	228	0
Other disease of respiratory system	501	5	7	0	12	80	397	0
Peptic ulcer	70	0	0	0	0	24	46	0
Diseases of appendix	8	1	0	0	0	1	6	0
Hernia	39	1	0	0	1	11	26	0
Chronic liver disease and cirrhosis	843	0	0	0	107	473	263	0
Alcoholic liver disease	604	0	0	0	94	374	136	0
Other chronic liver disease and cirrhosis	239	0	0	0	13	99	127	0
Cholelithiasis and other disorders of gallbladder	71	0	0	0	1	12	58	0
Nephritis, nephrotic syndrome and nephrosis	516	3	1	0	16	89	407	0
Acute and rapidly progressive nephritic and nephrotic syndrome	4	1	0	0	0	0	3	0
Chronic glomerulonephritis	90	0	0	0	2	7	81	0
Renal failure	422	2	1	0	14	82	323	0
Others disorders of kidney	0	0	0	0	0	0	0	0
Infections of kidney	9	0	0	0	0	4	5	0
Hyperplasia of prostate	11	0	0	0	0	0	11	0
Inflammatory diseases of female pelvic organs	2	0	0	0	0	0	2	0
Pregnancy, childbirth and the puerperium	12	0	0	1	10	1	0	0
Pregnancy with abortive outcome	0	0	0	0	0	0	0	0
Other complications of pregnancy, childbirth and the puerperium	12	0	0	1	10	1	0	0

TABLE 2C-27 (continued)
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2010

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Unknown
Perinatal conditions	233	228	4	1	0	0	0	0
Congenital anomalies, deformations and chromosomal abnormalities	208	114	20	2	19	22	31	0
Symptoms, signs, abnormal findings	1,137	68	13	15	94	149	794	4
Total accidents	2,834	18	85	85	803	822	1,018	3
Transport accidents	767	2	36	47	306	240	136	0
Motor vehicle accidents	711	1	35	46	291	213	125	0
Other land transport accidents	21	1	0	1	5	10	4	0
Water, air, space	35	0	1	0	10	17	7	0
Nontransport accidents	2,067	16	49	38	497	582	882	3
Falls	762	0	1	0	11	75	675	0
Accidental discharge of firearms	11	0	2	1	3	3	2	0
Accidental drowning and submersion	86	2	24	4	24	19	13	0
Accidental exposure to smoke, fire and flames	25	0	5	0	2	8	10	0
Accidental poisoning	879	0	1	30	420	389	39	0
Other and unspecified nontransport accidents	304	14	16	3	37	88	143	3
Intentional self-harm (suicide)	1,070	0	9	39	412	422	188	0
By discharge of firearms	602	0	3	13	212	236	138	0
By other means	468	0	6	26	200	186	50	0
Assault (homicide)	404	6	15	31	254	81	16	1
By discharge of firearms	265	0	9	22	180	45	8	1
By other means	139	6	6	9	74	36	8	0
Legal intervention	12	0	0	0	4	8	0	0
Events of undetermined intent	162	6	4	4	69	60	19	0
Discharge of firearms	18	0	1	1	13	1	2	0
Other and unspecified events of undetermined intent	144	6	3	3	56	59	17	0
Operations of war	0	0	0	0	0	0	0	0
Complications of medical and surgical care	51	2	3	0	8	6	32	0
Injury by firearms	907	0	15	37	412	292	150	1
Drug-induced deaths	1,106	1	1	32	505	497	70	0
Alcohol-induced deaths	952	0	0	2	182	567	201	0

Note: The causes of death in this table are classified by the Tenth Revision of the International Classification of Diseases (ICD-10).

**TABLE 2C-28
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES¹ BY AGE GROUP, ARIZONA, 2010**

	All ages	Infants <1	Children 1-14	Adoles- cents 15- 19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Total, all causes	717.6	596.2	18.9	47.7	131.8	587.2	3728.2
Salmonella infections	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Shigellosis and amebiasis	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Certain other intestinal infections	4.3	9.2	0.2	0.0	0.1	1.4	27.4
Enterocolitis due to Clostridium difficile	3.4	0.0	0.0	0.0	0.0	1.1	22.7
Tuberculosis	0.2	0.0	0.0	0.0	0.1	0.5	0.6
Respiratory tuberculosis	0.2	0.0	0.0	0.0	0.0	0.4	0.6
Other tuberculosis	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Whooping cough	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scarlet fever and erysipelas	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meningococcal infection	0.0	1.1	0.0	0.0	0.0	0.1	0.0
Septicemia	6.6	8.0	0.0	0.4	1.0	5.8	34.4
Syphilis	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
Arthropod-borne encephalitis	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
Viral hepatitis	3.4	0.0	0.0	0.0	0.4	11.0	4.4
Human immunodeficiency virus (HIV) disease	1.5	0.0	0.0	0.0	1.6	4.0	0.3
Malaria	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other and unspecified infectious and parasitic diseases	2.7	6.9	0.6	0.2	0.8	2.4	12.0
Malignant neoplasms	163.1	4.6	2.0	2.6	13.4	170.6	841.5
Malignant neoplasm of lip, oral cavity and pharynx	2.1	0.0	0.0	0.0	0.1	2.8	10.0
Malignant neoplasm of esophagus	4.3	0.0	0.0	0.0	0.3	5.9	19.8
Malignant neoplasm of stomach	3.1	0.0	0.0	0.0	0.5	3.3	15.6
Malignant neoplasm of colon, rectum, and anus	14.9	0.0	0.0	0.0	1.5	14.5	78.5
Malignant neoplasm of liver and intrahepatic bile ducts	5.9	0.0	0.0	0.2	0.5	9.2	25.3
Malignant neoplasm of pancreas	11.1	0.0	0.0	0.0	0.2	11.7	58.7
Malignant neoplasm of larynx	1.0	0.0	0.0	0.0	0.0	1.5	4.9
Malignant neoplasm of trachea, bronchus and lung	41.5	0.0	0.0	0.0	1.3	39.0	228.5
Malignant melanoma of skin	3.0	0.0	0.0	0.2	0.7	4.1	12.7
Malignant neoplasm of breast	11.5	0.0	0.0	0.0	1.7	18.1	46.7
Malignant neoplasm of cervix uteri	1.1	0.0	0.0	0.0	0.6	1.6	3.4
Malignant neoplasm of corpus uteri and uterus, part unspecified	2.2	0.0	0.0	0.0	0.1	3.6	9.0
Malignant neoplasm of ovary	4.4	0.0	0.0	0.0	0.4	5.4	21.7
Malignant neoplasm of prostate	8.6	0.0	0.0	0.0	0.0	2.7	57.5
Malignant neoplasm of kidney and renal pelvis	4.5	0.0	0.0	0.0	0.2	5.4	22.2
Malignant neoplasm of bladder	3.9	0.0	0.0	0.0	0.0	2.2	24.2

**TABLE 2C-28 (continued)
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES¹ BY AGE GROUP, ARIZONA, 2010**

	All ages	Infants <1	Children 1-14	Adoles- cents 15- 19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Malignant neoplasm of meninges, brain and other parts of CNS	4.2	0.0	0.6	0.2	1.1	6.5	15.2
Malignant neoplasm of lymphoid, hematopoietic and related tissue	16.4	4.6	1.1	1.1	2.1	12.9	88.3
Hodgkin's disease	0.3	0.0	0.0	0.0	0.2	0.3	1.5
Non-Hodgkin's lymphoma	5.9	1.1	0.1	0.4	0.8	4.7	32.4
Leukemia	6.9	3.4	1.0	0.6	1.1	5.5	35.4
Multiple myeloma and immunoproliferative neoplasms	3.2	0.0	0.0	0.0	0.0	2.5	18.9
Other and unspecified malignant neoplasms of lymphoid tissue	0.0	0.0	0.0	0.0	0.0	0.0	0.1
All other and unspecified malignant neoplasm	19.5	0.0	0.4	0.9	2.1	20.3	99.3
In situ neoplasms	6.9	2.3	0.1	0.2	0.4	5.3	39.3
Anemias	0.8	0.0	0.2	0.0	0.1	0.5	4.3
Diabetes	21.5	0.0	0.0	0.0	3.3	23.8	105.5
Nutritional deficiencies	0.6	0.0	0.0	0.0	0.0	0.4	3.6
Malnutrition	0.6	0.0	0.0	0.0	0.0	0.4	3.4
Other nutritional deficiencies	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Obesity	2.2	0.0	0.0	0.0	1.8	4.3	3.7
Meningitis	0.2	2.3	0.0	0.0	0.1	0.1	0.6
Parkinson's disease	7.6	0.0	0.0	0.0	0.0	0.5	54.4
Alzheimer's disease	36.2	0.0	0.0	0.0	0.0	0.8	260.9
Major cardiovascular diseases	199.5	11.5	0.7	1.9	10.9	128.9	1187.5
Diseases of heart	152.0	9.2	0.2	1.5	8.2	106.7	890.4
Acute rheumatic fever and chronic rheumatic heart disease	0.7	0.0	0.0	0.0	0.1	0.5	3.6
Hypertensive heart disease	10.1	0.0	0.0	0.0	0.9	10.1	52.8
Hypertensive heart and renal disease	0.6	0.0	0.0	0.2	0.0	0.3	3.4
Ischemic heart disease	110.2	0.0	0.1	0.0	4.2	78.5	648.9
Acute myocardial infarction	23.4	0.0	0.1	0.0	0.9	17.0	136.9
Other acute ischemic heart disease	0.3	0.0	0.0	0.0	0.0	0.1	2.3
Other forms of chronic ischemic heart disease	86.5	0.0	0.0	0.0	3.3	61.3	509.7
Atherosclerotic cardiovascular disease	26.6	0.0	0.0	0.0	1.6	31.5	132.7
All other forms of chronic ischemic heart disease	59.9	0.0	0.0	0.0	1.6	29.8	377.1
Other heart diseases	30.6	9.2	0.2	1.3	3.0	17.3	181.7
Acute and subacute endocarditis	0.4	0.0	0.0	0.0	0.0	0.5	2.0
Diseases of pericardium and acute myocarditis	0.2	0.0	0.0	0.0	0.2	0.3	0.6
Heart failure	8.5	0.0	0.0	0.0	0.0	2.0	57.9
All other forms of heart disease	21.4	9.2	0.2	1.3	2.7	14.6	121.1
Essential (primary) hypertension and hypertensive renal disease	7.8	0.0	0.0	0.0	0.5	4.1	48.0
Cerebrovascular diseases	32.1	2.3	0.4	0.4	1.6	14.2	202.3
Atherosclerosis	2.4	0.0	0.0	0.0	0.0	0.3	16.7

TABLE 2C-28 (continued)
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES¹ BY AGE GROUP, ARIZONA, 2010

	All ages	Infants <1	Children 1-14	Adoles- cents 15- 19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Other diseases of circulatory system	5.2	0.0	0.1	0.0	0.5	3.6	30.2
Aortic aneurysm and dissection	2.6	0.0	0.0	0.0	0.3	2.2	14.4
Other disease of arteries, arterioles and capillaries	2.6	0.0	0.1	0.0	0.2	1.4	15.8
Other disorders of circulatory system	1.5	0.0	0.0	0.0	0.6	2.7	4.3
Influenza and pneumonia	11.4	3.4	0.2	0.0	1.1	7.3	66.3
Influenza	0.1	0.0	0.1	0.0	0.1	0.1	0.3
Pneumonia	11.3	3.4	0.2	0.0	1.0	7.2	66.0
Other acute lower respiratory infections	0.1	0.0	0.0	0.0	0.0	0.1	0.3
Acute bronchiolitis	0.1	0.0	0.0	0.0	0.0	0.1	0.3
Unspecified acute lower respiratory infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chronic lower respiratory diseases	45.2	1.1	0.3	0.4	0.7	20.0	290.1
Bronchitis, chronic and unspecified	0.1	1.1	0.1	0.0	0.0	0.1	0.3
Emphysema	3.6	0.0	0.0	0.0	0.0	2.2	22.0
Asthma	0.9	0.0	0.2	0.2	0.3	1.2	3.2
Other chronic lower respiratory diseases	40.7	0.0	0.1	0.2	0.2	16.5	264.6
Pneumoconioses and chemical effects	0.2	0.0	0.0	0.0	0.0	0.0	1.5
Pneumonitis due to solids and liquids	4.1	0.0	0.0	0.0	0.1	1.9	25.9
Other disease of respiratory system	7.8	5.7	0.6	0.0	0.6	5.1	45.0
Peptic ulcer	1.1	0.0	0.0	0.0	0.0	1.5	5.2
Diseases of appendix	0.1	1.1	0.0	0.0	0.0	0.1	0.7
Hernia	0.6	1.1	0.0	0.0	0.0	0.7	2.9
Chronic liver disease and cirrhosis	13.2	0.0	0.0	0.0	5.0	30.2	29.8
Alcoholic liver disease	9.4	0.0	0.0	0.0	4.4	23.8	15.4
Other chronic liver disease and cirrhosis	3.7	0.0	0.0	0.0	0.6	6.3	14.4
Cholelithiasis and other disorders of gallbladder	1.1	0.0	0.0	0.0	0.0	0.8	6.6
Nephritis, nephrotic syndrome and nephrosis	8.1	3.4	0.1	0.0	0.8	5.7	46.2
Acute and rapidly progressive nephritic and nephrotic syndrome	0.1	1.1	0.0	0.0	0.0	0.0	0.3
Chronic glomerulonephritis	1.4	0.0	0.0	0.0	0.1	0.4	9.2
Renal failure	6.6	2.3	0.1	0.0	0.7	5.2	36.6
Others disorders of kidney	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Infections of kidney	0.1	0.0	0.0	0.0	0.0	0.3	0.6
Hyperplasia of prostate	0.2	0.0	0.0	0.0	0.0	0.0	1.2
Inflammatory diseases of female pelvic organs	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Pregnancy, childbirth and the puerperium	0.2	0.0	0.0	0.2	0.5	0.1	0.0
Pregnancy with abortive outcome	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other complications of pregnancy, childbirth and the puerperium	0.2	0.0	0.0	0.2	0.5	0.1	0.0

**TABLE 2C-28 (continued)
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES¹ BY AGE GROUP, ARIZONA, 2010**

	All ages	Infants <1	Children 1-14	Adoles- cents 15- 19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Perinatal conditions	3.6	261.9	0.3	0.2	0.0	0.0	0.0
Congenital anomalies, deformations and chromosomal abnormalities	3.3	131.0	1.6	0.4	0.9	1.4	3.5
Symptoms, signs, abnormal findings	17.8	78.1	1.0	3.2	4.4	9.5	90.0
Total accidents	44.3	20.7	6.7	18.4	37.8	52.4	115.4
Transport accidents	12.0	2.3	2.8	10.2	14.4	15.3	15.4
Motor vehicle accidents	11.1	1.1	2.8	10.0	13.7	13.6	14.2
Other land transport accidents	0.3	1.1	0.0	0.2	0.2	0.6	0.5
Water, air, space	0.5	0.0	0.1	0.0	0.5	1.1	0.8
Nontransport accidents	32.3	18.4	3.9	8.2	23.4	37.1	100.0
Falls	11.9	0.0	0.1	0.0	0.5	4.8	76.5
Accidental discharge of firearms	0.2	0.0	0.2	0.2	0.1	0.2	0.2
Accidental drowning and submersion	1.3	2.3	1.9	0.9	1.1	1.2	1.5
Accidental exposure to smoke, fire and flames	0.4	0.0	0.4	0.0	0.1	0.5	1.1
Accidental poisoning	13.8	0.0	0.1	6.5	19.8	24.8	4.4
Other and unspecified nontransport accidents	4.8	16.1	1.3	0.6	1.7	5.6	16.2
Intentional self-harm (suicide)	16.7	0.0	0.7	8.4	19.4	26.9	21.3
By discharge of firearms	9.4	0.0	0.2	2.8	10.0	15.0	15.6
By other means	7.3	0.0	0.5	5.6	9.4	11.9	5.7
Assault (homicide)	6.3	6.9	1.2	6.7	12.0	5.2	1.8
By discharge of firearms	4.1	0.0	0.7	4.8	8.5	2.9	0.9
By other means	2.2	6.9	0.5	1.9	3.5	2.3	0.9
Legal intervention	0.2	0.0	0.0	0.0	0.2	0.5	0.0
Events of undetermined intent	2.5	6.9	0.3	0.9	3.3	3.8	2.2
Discharge of firearms	0.3	0.0	0.1	0.2	0.6	0.1	0.2
Other and unspecified events of undetermined intent	2.3	6.9	0.2	0.6	2.6	3.8	1.9
Operations of war	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Complications of medical and surgical care	0.8	2.3	0.2	0.0	0.4	0.4	3.6
Injury by firearms ²	14.2	0.0	1.2	8.0	19.4	18.6	17.0
Drug-induced deaths ²	17.3	1.1	0.1	6.9	23.8	31.7	7.9
Alcohol-induced deaths ²	14.9	0.0	0.0	0.4	8.6	36.1	22.8

¹The rates for infants <1 year of age are per 100,000 births. All other rates are per 100,000 population in specified group. The rates for malignant neoplasm of cervix uteri, corpus uteri, ovary, inflammatory disease of female pelvic organs and complications of pregnancy are per 100,000 females. The rates for prostate cancer and hyperplasia of prostate are per 100,000 males.

²Included in selected categories above.



2D.

PATTERNS OF PREMATURE MORTALITY

Compared with the White non-Hispanics, the race/ethnic minority groups in Arizona have had greater percentages of people younger than 25 years (50.7 vs. 26.6 percent). In contrast, people aged 65 years and older accounted for 19.7 percent of White non-Hispanics, but only 5.6 percent of all ethnic minority groups combined (percentages based on race-and-age-specific population denominators in **Table 10C-1**).

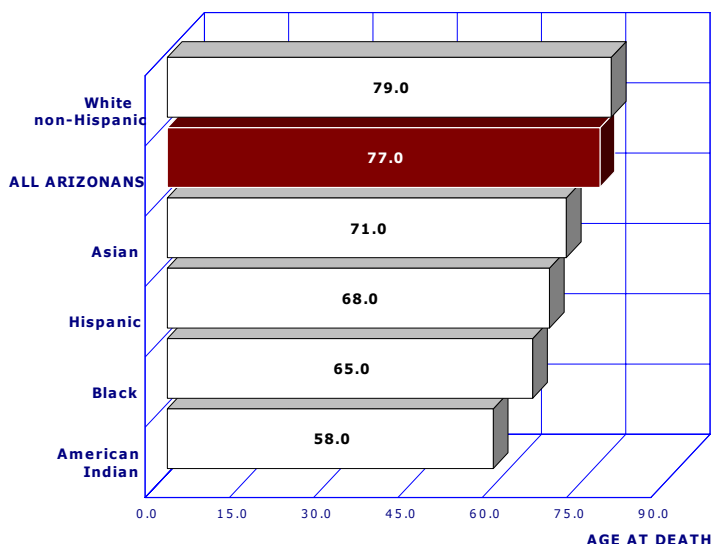
Similar to the differences in the age composition is the contrasting pattern of proportional mortality by age group. In 2010, the elderly (65 years and older) comprised 76.9 percent of the total mortality among White non-Hispanics, compared to 40.5 percent among American Indians, 51.5 percent among Blacks, 54.9 percent among Hispanics, and 60.2 percent among Asians. One out of 54 White non-Hispanics who died in 2010 was less than 25 years old (1.9 percent). In contrast, persons younger than 25 years of age accounted for one out of every ten (9.8 percent) deaths among Arizona ethnic minorities.

The smaller the proportion of elderly as well as the smaller proportion of deaths at older age, the lower is the average age at death.

Beginning with the 2005 edition of the report, information about the arithmetic mean age at death was supplemented with the information about the median age, the age in the middle and conceptually similar to life expectancy at birth (see **Table 2D-1**). The median age is higher than the arithmetic mean age in negatively skewed distributions.

2D. PATTERNS OF PREMATURE MORTALITY

Figure 2D-1
Median Age at Death by Race/Ethnicity, Arizona, 2010

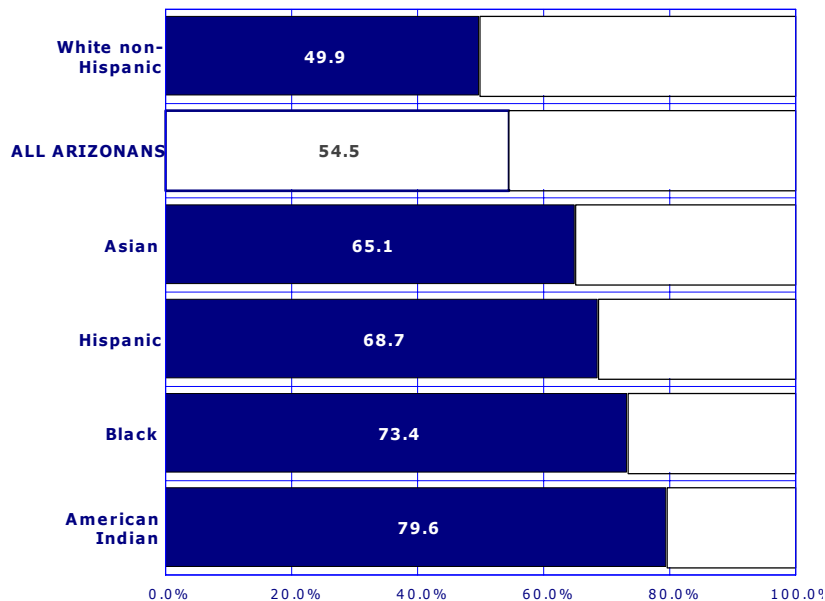


The median age at death increased from 76 years in 2009 to 77 years in 2010 (**Table 2D-1**). Compared to 2009, there were more deaths in 2010 from causes such as diabetes and Alzheimer's disease i.e., the causes with the highest median age at death (73 and 87 years, respectively; **Table 2B-1, Table 2D-3, Figure 2D-3**).

One out of two Arizonans who died in 2010 was older than 77 years of age. Among Arizona females, fifty percent were older than 80 years when they died in 2010 (no change since 2003). Among males, the median age at death was 73 years in 2000 - 2010. **Table 2D-1** shows both the average and the median age at death by race/ethnicity and gender in 2000-2010.

In 2010, compared to White non-Hispanics, on average Asians were 8 years younger at time of death, Hispanics were 11 years younger, Blacks were 14 years younger, and American Indian residents of Arizona were 21 years younger.

Figure 2D-2
Percent of Deaths before Expected Years of Life Reached* by Race/Ethnicity, Arizona, 2010



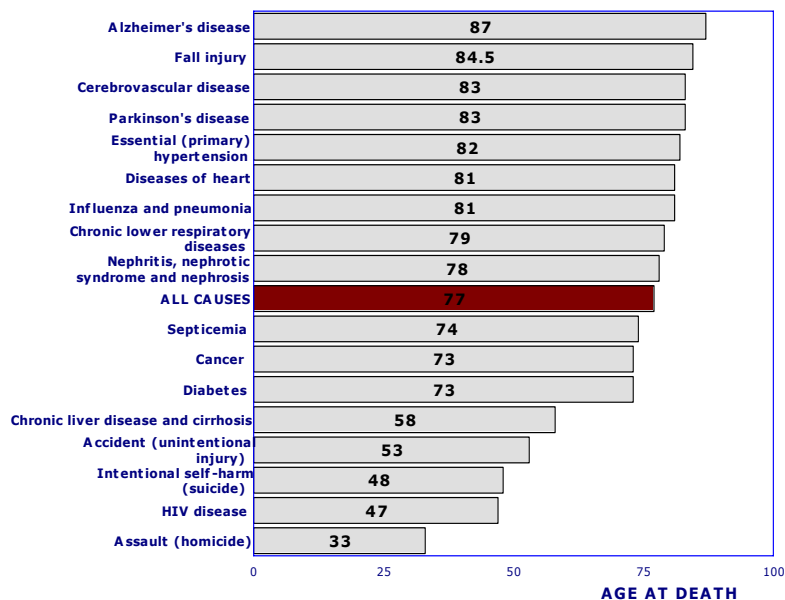
The percent of deaths before expected years of life reached (a premature death ratio) slightly increased for all Arizonans at 54.5 in 2010 and 52.5 in 2009 (**Figure 2D-2**).

As expected, based on the findings for average and median age at death, White non-Hispanics were the only group with less than 50 percent of all deaths (49.9 percent) occurring before the expected years of life were reached (**Figure 2D-2**). In contrast, at least 65.1 percent among race/ethnic minority groups occurred prematurely.

Among American Indians, eight out of ten deaths (79.6 percent) were premature (**Table 2D-2**).

2D. PATTERNS OF PREMATURE MORTALITY

Figure 2D-3
Median Age at Death for Selected Leading Causes of Death, Arizona, 2010

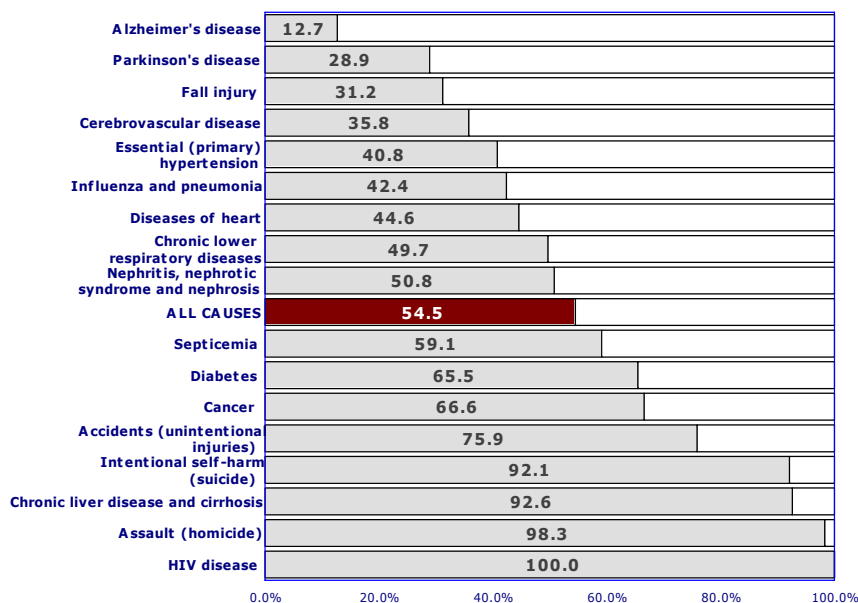


In 2010, *Alzheimer's disease* again ranked highest with median age at death of 87 years (**Figure 2D-3**), exceeding by 10 years the median age at death for all causes (**Figure 2D-3, Table 2D-3**).

Among the leading causes of death, *homicide* had the lowest median age at death of 33 years.

In 2009-2010, *cancer* replaced *diseases of the heart* as the leading cause of death (based on both the number of deaths and the age-adjusted mortality rates). This epidemiologic transition in mortality risks is likely to have long lasting implications for the life expectancy of Arizonans, because the median age at death from *cancer* (73 years) is substantially lower the median age at death from *diseases of the heart* (81 years).

Figure 2D-4
Percent of Deaths before Expected Years of Life Reached for Selected Leading Causes of Death, Arizona, 2010



Only 12.7 percent of deaths from *Alzheimer's disease* occurred before the age of 77.7 years, i.e., before the expected years of life were reached. In contrast, almost all deaths from *HIV disease* were premature at 100.0 percent (**Figure 2D-4, Table 2D-4**) and the median age at death from *HIV disease* remained unchanged from previous year at 47 years (**Figure 2D-3, Table 2D-3**).

A minority of deaths from *diseases of heart* were premature (44.6 percent). In contrast 66.6 percent of deaths from *cancer* occurred before the expected years of life were reached.

**TABLE 2D-1
AVERAGE AND MEDIAN AGE AT DEATH FROM ALL CAUSES BY GENDER AND RACE/ETHNICITY, ARIZONA, 2000-2010**

Year	Gender	All ethnic groups		Race/ethnicity											
		Mean	Median	White non-Hispanic		Hispanic or Latino		Black or African American		American Indian or Alaska Native		Asian or Pacific Islander			
				Mean	Median	Mean	Median	Mean	Median	Mean	Median	Mean	Median		
2000	Total	71.6	76.0	73.9	77.0	59.2	66.0	60.8	66.0	55.4	57.5	62.3	68.0		
	Male	68.7	73.0	70.9	75.0	55.8	60.0	56.8	61.0	51.6	52.0	61.6	67.0		
	Female	74.9	79.0	77.0	80.0	63.7	71.0	65.8	71.0	60.4	65.0	63.0	68.0		
2001	Total	71.2	76.0	74.2	78.0	58.4	65.0	59.1	63.0	54.3	56.0	63.9	68.5		
	Male	67.9	73.0	71.2	75.0	54.8	59.0	55.6	58.0	50.1	49.0	61.6	68.0		
	Female	75.0	79.0	77.3	80.0	63.4	71.0	63.2	69.0	60.0	65.0	66.0	69.0		
2002	Total	71.5	76.0	74.3	78.0	58.6	65.0	60.9	65.0	55.8	57.0	67.4	74.0		
	Male	68.1	73.0	71.3	75.0	54.9	59.0	56.9	60.0	52.5	52.0	64.2	72.0		
	Female	75.3	79.0	77.5	80.0	63.9	72.0	66.4	72.0	60.4	64.0	71.1	75.0		
2003	Total	72.2	76.0	74.4	78.0	60.4	66.0	62.4	66.0	54.7	56.0	64.3	70.0		
	Male	69.6	73.0	71.6	75.0	57.5	60.0	60.0	60.0	50.3	51.0	63.5	70.0		
	Female	75.1	80.0	77.4	81.0	64.4	72.0	65.3	71.0	60.4	65.0	65.0	71.0		
2004	Total	71.0	76.0	73.8	78.0	58.5	65.0	60.4	64.0	55.9	53.0	63.5	69.0		
	Male	67.7	73.0	70.9	75.0	54.6	60.0	55.4	59.0	52.4	53.0	63.5	68.0		
	Female	74.6	80.0	76.9	81.0	63.8	72.0	66.5	70.0	60.4	64.0	67.0	70.0		
2005	Total	71.5	77.0	74.4	79.0	59.0	65.0	60.7	64.0	56.8	59.0	65.5	72.0		
	Male	68.1	73.0	71.4	76.0	55.5	61.0	55.7	58.0	53.4	54.0	64.3	71.0		
	Female	75.2	80.0	77.6	81.0	63.8	71.0	66.3	71.0	61.2	66.0	66.8	73.0		
2006	Total	71.2	76.0	74.0	78.0	58.7	65.0	60.2	63.0	55.4	57.0	68.7	73.0		
	Male	67.9	73.0	71.1	75.0	55.1	59.0	57.3	59.0	51.5	52.0	64.5	71.5		
	Female	74.8	80.0	76.9	81.0	64.0	73.0	64.4	70.0	60.9	65.0	72.7	73.0		
2007	Total	71.2	76.0	74.2	78.0	58.4	64.0	60.1	62.0	57.2	59.0	64.9	70.0		
	Male	67.8	73.0	71.3	75.0	54.6	59.0	54.8	57.0	53.7	54.0	60.2	64.0		
	Female	74.9	80.0	77.4	81.0	63.4	71.0	66.5	70.0	61.9	67.0	69.0	73.0		
2008	Total	71.5	77.0	74.3	78.0	61.2	68.0	58.5	62.0	57.3	59.0	63.5	70.0		
	Male	68.4	73.0	71.6	76.0	57.1	62.0	55.3	59.0	53.7	54.0	61.5	67.5		
	Female	75.0	80.0	77.2	81.0	66.4	74.0	62.5	67.0	62.0	67.0	65.6	73.0		
2009	Total	71.9	76.0	74.3	78.0	61.8	67.0	60.0	64.0	57.6	59.0	66.7	74.0		
	Male	69.3	73.0	71.6	75.0	58.6	63.0	56.9	60.0	54.2	54.0	63.6	69.0		
	Female	74.8	80.0	77.2	81.0	65.7	72.0	63.4	68.0	61.8	66.0	70.1	77.0		
2010	Total	72.1	77.0	74.8	79.0	62.4	68.0	62.6	65.0	57.0	58.0	65.7	71.0		
	Male	69.1	73.0	72.1	75.0	58.3	63.0	60.5	63.0	52.7	53.0	64.2	70.0		
	Female	75.4	80.0	77.7	82.0	67.4	74.0	65.3	69.0	62.6	65.0	67.4	74.0		

Average age at death = the arithmetic mean of the ages of Arizonans who died in a given year.

Median age at death = the middle of the age distribution; half died at age greater than the median and half at age below the median. The mean is lower than the median in negatively skewed distributions.

**TABLE 2D-2
PERCENT OF DEATHS BEFORE EXPECTED YEARS OF LIFE REACHED¹
BY GENDER AND RACE/ETHNICITY, ARIZONA, 2000-2010**

Year/gender	All race/ethnic groups ²	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
2000 Total	51.6	47.3	70.5	69.3	78.7	69.6
Male	59.6	55.4	76.7	75.7	83.1	70.6
Female	42.9	38.7	62.2	61.2	72.9	68.6
2001 Total	51.0	46.2	71.2	73.0	79.1	69.9
Male	59.2	54.3	78.1	79.2	85.3	71.2
Female	42.0	37.6	61.7	65.7	70.8	68.6
2002 Total	50.2	45.6	70.3	71.7	78.3	59.8
Male	58.4	53.6	77.0	79.2	82.8	60.6
Female	41.1	37.0	60.7	61.1	72.2	59.0
2003 Total	50.8	46.1	70.0	70.6	78.4	65.7
Male	59.0	54.2	76.8	79.1	84.4	66.7
Female	41.7	37.4	61.0	60.4	70.5	65.0
2004 Total	53.0	48.3	71.5	74.3	80.3	64.3
Male	61.0	56.4	78.3	81.9	85.9	69.0
Female	44.1	39.9	62.4	65.2	73.3	60.0
2005 Total	52.7	47.9	71.3	75.1	78.4	65.1
Male	60.8	56.2	76.9	83.3	83.3	64.5
Female	43.7	39.2	63.3	65.8	72.2	65.7
2006 Total	52.7	48.2	70.8	73.9	77.4	61.0
Male	61.0	56.2	78.4	80.9	82.9	61.0
Female	43.7	40.1	60.0	63.7	69.8	61.0
2007 Total	52.6	47.7	71.6	73.3	75.8	64.9
Male	61.5	56.4	79.2	82.6	82.0	73.8
Female	42.9	38.5	61.3	62.1	67.5	57.4
2008 Total	52.4	48.0	67.6	74.7	76.5	66.4
Male	60.0	55.4	75.4	81.6	82.6	68.7
Female	43.9	40.0	57.6	66.4	68.6	63.9
2009 Total	52.5	48.0	68.0	73.0	76.4	60.6
Male	59.9	55.4	74.4	79.3	81.1	66.8
Female	44.5	40.1	60.1	66.1	70.6	53.9
2010 Total	54.5	49.9	68.7	73.4	79.6	65.1
Male	62.4	57.8	76.2	78.4	85.3	69.0
Female	45.8	41.5	59.5	67.4	71.9	60.7

¹Based on expected years of life at birth for all U.S. residents.

²May include records with other/unknown ethnic groups.

TABLE 2D-3
**MEDIAN AGE AT DEATH FOR LEADING CAUSES OF MORTALITY BY GENDER, RACE/ETHNICITY AND
 URBAN/RURAL AREAS*, ARIZONA, 2010**

	ARIZONA				Area/gender						Race/ethnicity					
	Total	Male	Female	Total	Urban	Urban Male	Urban Female	Total	Rural	Rural Male	Rural Female	White Non-Hispanic	Hispanic or Latino	Black or American	American Indian or Alaska Native	Asian or Pacific Islander
Total, all causes	77.0	73.0	80.0	77.0	74.0	81.0	75.0	72.0	79.0	79.0	68.0	65.0	58.0	71.0		
Major cardiovascular diseases	81.0	77.0	85.0	82.0	78.0	85.0	79.0	76.0	84.0	82.0	76.0	71.0	70.0	77.0		
Diseases of heart	81.0	77.0	85.0	81.0	77.0	85.0	78.0	75.0	83.5	82.0	76.0	69.0	70.0	76.5		
Coronary heart disease	80.0	76.0	84.0	81.0	77.0	85.0	77.0	74.0	83.0	81.0	76.0	69.0	69.5	77.0		
Malignant neoplasms	73.0	73.0	73.0	73.0	73.0	73.0	72.0	72.0	72.0	74.0	67.0	67.0	68.0	67.5		
Lung cancer	73.0	72.0	73.0	73.0	72.0	73.0	73.0	73.0	73.0	73.0	68.0	67.0	68.0	61.0		
Prostate cancer	NA	80.0	NA	NA	80.0	NA	NA	81.0	NA	80.0	81.0	75.0	87.5	79.0		
Breast cancer	67.0	70.0	67.0	66.5	69.0	66.0	70.5	79.0	70.0	68.0	61.0	66.0	54.5	61.0		
Colorectal cancer	74.0	72.0	76.5	74.0	72.0	77.0	74.0	73.0	74.0	75.0	71.0	67.0	67.5	71.0		
Malignant melanoma of skin	68.0	70.0	66.5	68.0	70.0	63.0	68.0	68.0	72.0	68.0	47.0	75.0	56.0	77.0		
Cerebrovascular diseases	83.0	79.0	85.0	83.0	79.0	85.0	82.0	78.0	85.0	84.0	77.0	78.0	72.0	74.0		
Chronic lower respiratory diseases	79.0	78.0	79.0	79.0	79.0	79.0	78.0	78.0	78.0	79.0	79.0	72.0	78.0	80.0		
Accidents (unintentional injuries)	53.0	50.0	61.0	54.0	50.0	62.0	51.0	49.0	56.5	59.0	41.5	47.5	38.0	58.5		
Motor vehicle accidents	43.0	42.0	45.5	41.0	41.0	44.0	47.0	43.5	47.5	52.0	32.0	35.0	33.0	55.5		
Falls	84.5	82.0	86.0	85.0	82.0	86.0	83.5	82.5	86.0	85.0	79.0	60.5	80.5	82.0		
Accidental poisoning	44.0	42.0	46.0	44.0	41.0	46.0	44.5	44.0	45.0	45.0	40.0	47.0	36.0	29.0		
Accidental drowning	31.0	32.0	16.0	27.5	31.0	17.0	31.0	31.5	12.0	43.0	15.0	62.0	32.0	26.0		
Influenza and pneumonia	81.0	79.0	83.0	82.0	80.0	83.0	81.0	78.0	84.0	83.0	76.5	71.0	64.0	75.0		
Alzheimer's disease	87.0	86.0	88.0	87.0	86.0	88.0	86.0	84.0	87.0	87.0	86.0	87.0	82.0	86.0		
Diabetes	73.0	71.0	75.0	72.0	71.0	74.0	74.0	70.0	78.0	74.0	72.0	69.0	66.0	74.0		
Intentional self-harm (suicide)	48.0	47.0	48.0	47.0	47.0	47.0	50.5	49.0	52.0	51.0	32.0	27.5	27.0	32.5		
Chronic liver disease and cirrhosis	58.0	58.0	59.0	58.0	58.0	59.0	57.0	57.0	58.0	60.0	57.0	63.0	48.0	51.0		
Nephritis, nephrotic syndrome and nephrosis	78.0	76.0	81.0	79.0	77.0	82.0	77.0	73.0	79.5	81.0	73.5	69.0	63.0	59.0		
Septicemia	74.0	71.5	76.0	74.5	71.5	76.0	74.5	72.0	76.0	78.0	63.5	67.0	64.0	75.0		
Assault (homicide)	32.0	30.0	39.0	30.0	29.0	38.0	37.0	36.5	40.0	39.5	28.0	27.0	32.5	44.0		
Parkinson's disease	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	82.0	83.0	80.0	81.0	83.0	68.0		
Essential (primary) hypertension and hypertensive renal disease	82.0	80.0	83.0	82.0	80.0	83.0	81.0	79.5	83.0	83.0	77.0	75.0	62.0	86.0		
Human immunodeficiency virus (HIV) disease	47.0	48.0	45.0	47.0	48.0	45.0	47.0	47.0	NA	49.0	45.0	48.5	36.0	59.0		
INJURY BY FIREARMS	44.0	43.0	46.0	40.0	40.0	45.5	50.0	51.0	49.5	51.5	28.0	28.0	26.0	33.0		
DRUG-INDUCED DEATHS	45.0	43.0	47.0	45.0	43.0	46.0	46.5	45.0	47.5	46.0	40.0	47.0	35.0	34.0		
ALCOHOL-INDUCED DEATHS	55.0	55.0	53.0	55.0	55.0	54.0	53.0	55.0	49.0	57.0	53.0	57.0	47.0	57.0		

*Urban = Maricopa, Pima, Pinal and Yuma counties.

Median age at death = the middle of the age distribution: half died at age greater than the median and half at age below the median.

**TABLE 2D-4
PERCENT DEATHS BEFORE EXPECTED* YEARS OF LIFE REACHED FOR THE LEADING CAUSES OF MORTALITY BY
GENDER, RACE/ETHNICITY AND URBAN/RURAL AREAS**, ARIZONA, 2010**

	ARIZONA				Area/gender						Race/ethnicity						
	Total	Male	Female	Total	Urban	Urban	Urban	Total	Rural	Rural	Rural	Female	White Non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
					Male	Female	Male	Female	Male	Female							
Total, all causes	54.5	62.4	45.8	53.4	61.1	45.0	58.2	65.9	48.7	49.9	68.7	73.4	79.6	65.1			
Major cardiovascular diseases	42.9	53.8	31.1	41.5	52.0	30.4	47.7	59.0	33.6	39.2	56.6	65.7	64.9	54.1			
Diseases of heart	44.6	55.1	31.7	42.7	53.2	30.6	50.6	60.9	35.9	41.2	57.0	69.3	64.8	55.6			
Coronary heart disease	45.8	55.8	32.6	43.5	53.2	31.3	54.0	63.8	38.0	42.7	55.8	69.0	65.7	53.8			
Malignant neoplasms	66.6	67.2	65.9	65.8	66.5	65.0	69.4	69.2	69.6	64.3	75.8	79.8	79.0	82.5			
Lung cancer	69.5	70.5	68.2	68.2	69.3	66.8	73.9	74.2	73.5	67.9	78.9	88.3	100.0	83.3			
Prostate cancer	43.0	43.0	0.0	43.0	43.0	0.0	43.0	43.0	0.0	43.4	36.1	57.9	0.0	50.0			
Breast cancer	74.3	58.3	74.6	74.7	63.6	74.9	73.0	0.0	73.5	71.3	86.1	80.8	100.0	90.9			
Colorectal cancer	63.2	69.8	55.3	61.9	69.4	53.3	68.1	70.9	64.1	60.2	74.1	78.8	63.6	92.3			
Malignant melanoma of skin	74.3	72.2	79.3	73.1	71.6	76.7	77.8	73.3	86.7	73.1	100.0	100.0	100.0	100.0			
Cerebrovascular diseases	35.8	48.2	27.3	35.7	47.3	27.8	35.9	50.6	25.1	30.7	57.5	50.7	57.1	57.1			
Chronic lower respiratory diseases	49.7	50.5	48.9	48.6	49.7	47.6	53.2	52.5	53.9	49.3	49.6	64.1	51.5	36.4			
Accidents (unintentional injuries)	75.9	82.6	65.4	74.2	81.4	63.8	81.2	85.6	72.4	70.4	89.4	89.7	89.8	76.5			
Motor vehicle accidents	92.3	93.4	89.5	92.4	93.1	90.7	91.8	93.8	85.4	88.2	97.1	87.5	97.5	100.0			
Falls	31.2	41.7	22.0	31.0	42.2	21.4	30.4	36.2	24.1	28.9	50.0	100.0	34.6	25.0			
Accidental poisoning	99.0	99.3	98.5	98.8	99.1	98.5	99.4	100.0	98.4	99.1	97.8	100.0	100.0	100.0			
Accidental drowning	94.2	93.9	95.0	92.9	92.2	94.7	100.0	100.0	100.0	90.6	100.0	100.0	100.0	100.0			
Influenza and pneumonia	42.4	47.8	36.8	42.3	45.3	39.6	41.9	52.3	26.7	36.9	52.8	61.5	73.3	62.5			
Alzheimer's disease	12.7	17.8	10.2	12.5	17.8	10.0	13.7	18.0	11.7	12.0	15.7	16.3	40.0	16.0			
Diabetes	65.5	71.5	57.6	64.9	70.2	58.2	66.9	75.7	54.2	60.6	69.3	77.3	77.9	61.5			
Intentional self-harm (suicide)	92.1	90.7	97.3	92.5	91.1	97.6	90.6	88.9	96.4	90.5	98.4	100.0	98.2	100.0			
Chronic liver disease and cirrhosis	92.6	94.6	89.3	92.0	93.5	89.4	94.3	97.7	88.9	91.3	90.8	86.7	98.7	100.0			
Nephritis, nephrotic syndrome and nephrosis	50.8	58.4	42.5	48.9	56.2	40.9	54.9	63.5	45.7	42.7	61.9	68.0	77.8	60.0			
Septicemia	59.1	63.3	54.9	59.3	63.6	55.0	57.0	60.0	54.5	51.7	75.0	79.3	77.4	50.0			
Assault (homicide)	98.3	99.1	94.6	98.4	99.2	94.5	98.6	100.0	94.7	96.4	99.3	100.0	100.0	100.0			
Parkinson's disease	28.9	30.7	26.0	28.7	30.8	25.6	29.8	30.4	28.6	26.0	46.0	40.0	45.5	100.0			
Essential (primary) hypertension and hypertensive renal disease	40.8	46.3	36.0	40.3	45.9	35.4	42.3	47.1	38.6	33.9	52.8	69.0	81.0	11.1			
Human immunodeficiency virus (HIV) disease	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	100.0			
INJURY BY FIREARMS	92.0	91.1	96.9	92.2	91.4	97.8	91.0	90.0	94.7	88.7	98.9	100.0	100.0	100.0			
DRUG-INDUCED DEATHS	97.8	98.4	97.0	97.8	98.4	96.8	98.0	98.3	97.7	98.1	98.1	100.0	100.0	100.0			
ALCOHOL-INDUCED DEATHS	96.5	96.6	96.3	96.1	96.1	95.9	97.6	97.8	97.3	95.3	96.2	100.0	99.5	0.0			

* Expected years of life at birth for all U.S. residents.

**Urban = Maricopa, Pima, Pinal and Yuma counties.