

CHAPTER 2

TRENDS AND PATTERNS IN MORTALITY, ARIZONA, 2001-2011

2A. TOTAL MORTALITY

2B. LEADING CAUSES OF DEATH

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

2D. PATTERNS OF PREMATURE MORTALITY



2A.

TOTAL MORTALITY

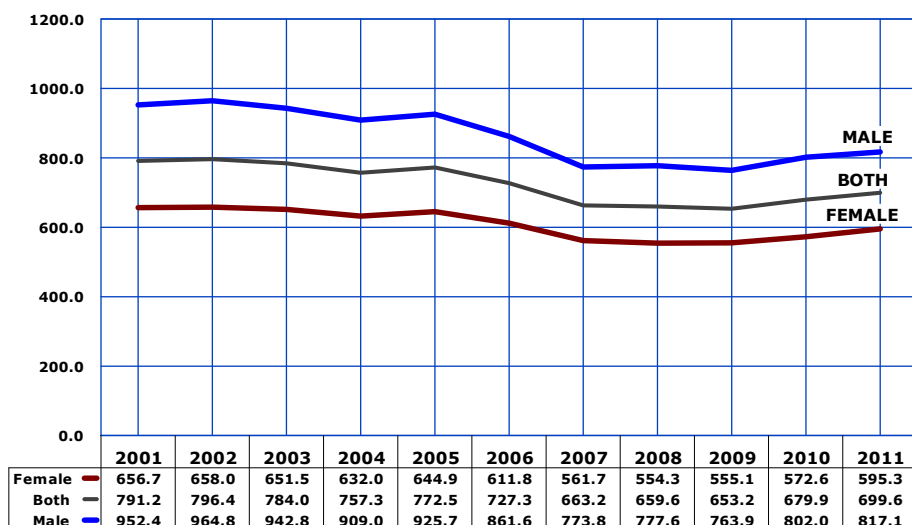
The total number of deaths from all causes among Arizona residents increased by only 4.7 percent from 2006 to 2011 (**Table 2A-1**). The number of deaths occurring in Arizona (including the deaths of out-of-State residents) slightly increased from 45,871 in 2010 to 47,547 in 2011 (**Table 5E-2**).

Excluding American Indians, all racial/ethnic groups experienced an increase in mortality from 2010 to 2011. 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 30.1 percent from 2007 to 2011. 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 2011 than it was in 2007. From 2007 to 2011 the number of deaths decreased by 28.1 percent among infants less than 1 year of age (associated with an unprecedented decrease in the number of live births).

Compared to 2010, there were fewer deaths in 2011 for some of the leading causes of mortality including septicemia (24.5 percent), nephritis (20.7 percent), influenza and pneumonia (11.0 percent), and assault (4.2 percent). The causes with the largest increases were essential primary hypertension and hypertensive renal disease (45.6 percent), diabetes (25.4 percent), Parkinson's disease (11.7 percent), chronic lower respiratory diseases (10.7 percent), and diseases of the heart (7.3 percent).

2A. TOTAL MORTALITY

Figure 2A-1
Age-adjusted Mortality Rates for all Causes by Gender and Year, Arizona, 2001-2011



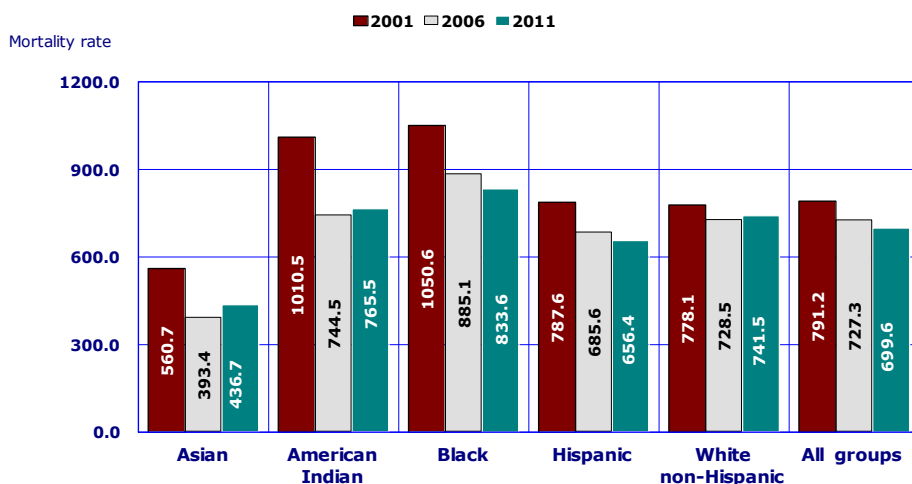
Beginning with the 2000 data year in Arizona, the age-adjusted mortality rates discussed below are based on the year 2000 population standard. The rates prior to 2000 were re-calculated using the new standard. All mortality rates in sections 2A and 2B are age-adjusted. A detailed explanation of the age-adjustment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

The total age-adjusted mortality rate increased by 2.9 percent from 679.9 in 2010 to 699.6 in 2011 (**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 45.0 percent greater mortality rate in 2001 to 37.3 percent greater in 2011. However, the parallel trend lines (**Figure 2A-1**) do not 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, 2001, 2006 and 2011



The 2011 age-adjusted death rates for the major race/ethnic groups were as follows: for Asian or Pacific Islander, 436.7 deaths per 100,000 population; Hispanic or Latino, 656.4; White non-Hispanic, 741.5; American Indian or Alaska Native, 765.5; and Black or African American, 833.6 (**Figure 2A-2, Table 2B-4**).

In 2011, as in 2001 and 2006, 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 2001, 2006 and 2011.

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, 2011

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, March (9.2 percent), January (9.1 percent), and both February and December (8.6 percent each) were higher in 2011 from the expected value (**Figure 2A-3**). September, June, and July were the three months with the lowest proportional contributions to the annual death total among Arizona residents.

The majority of the 2,103 non-residents who died in Arizona during 2011 did so during January, February, March, and December. July was the month with the lowest proportional contribution (5.9 percent) to the annual death total among out-of-State residents who died in Arizona.

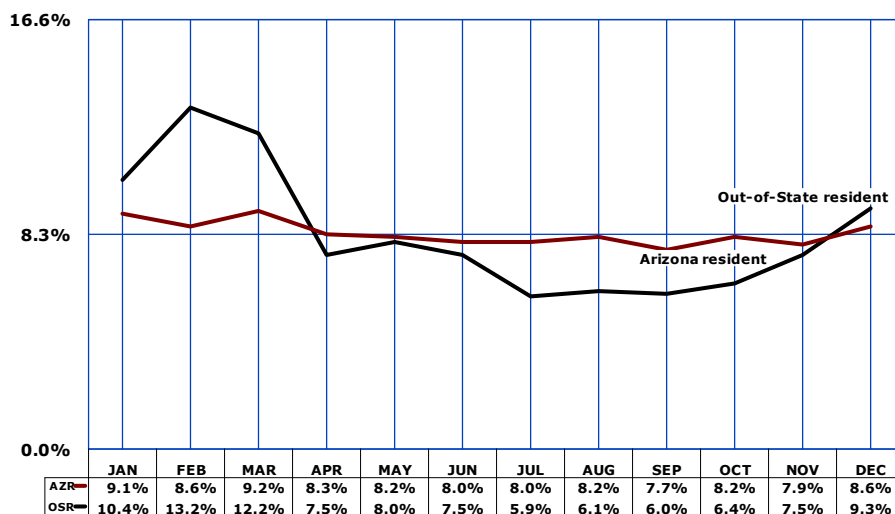
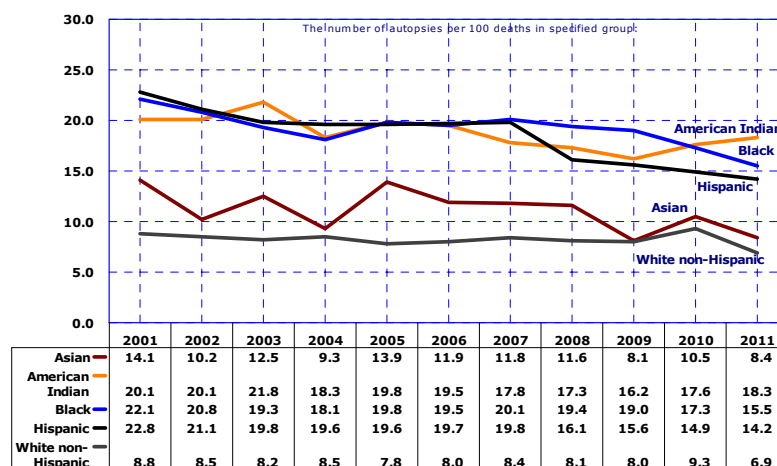


Figure 2A-4
Percentage of Deaths for which Autopsies were Reported by Race/Ethnicity and Year, Arizona Residents, 2001-2011

Autopsies were reported as performed on 4,075 decedents, or 8.6 percent of the deaths that occurred among Arizona residents in 2011. In 2001 - 2011, the percentage of deaths for which autopsies were reported varied from a high of 11.2 percent in 2001 to a low of 8.6 percent in 2011.

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 and Asian population than for other groups. The prevalence of autopsies was substantially greater among American Indian, Black, 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 deaths by homicide, suicide, accidents, and undetermined manner.



**TABLE 2A-1
NUMBER OF DEATHS BY RACE/ETHNICITY, GENDER, AND YEAR, ARIZONA RESIDENTS, 2001-2011**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
TOTAL											
Total	40,851	42,320	42,830	42,736	45,115	45,415	44,640	45,128	45,065	45,871	47,547
Male	21,480	22,317	22,452	22,400	23,614	23,658	23,321	23,744	23,535	24,163	24,785
Female	19,371	20,003	20,378	20,336	21,501	21,757	21,319	21,384	21,530	21,708	22,762
White non-Hispanic											
Total	33,443	34,845	34,906	34,813	36,558	36,952	35,805	36,235	35,829	36,066	37,211
Male	17,250	17,946	17,972	17,916	18,723	18,711	18,339	18,758	18,476	18,693	19,307
Female	16,193	16,899	16,934	16,897	17,835	18,241	17,466	17,477	17,353	17,373	17,904
Hispanic or Latino											
Total	4,415	4,670	4,914	5,009	5,323	5,284	5,496	5,313	5,401	5,374	5,575
Male	2,560	2,750	2,812	2,874	3,115	3,114	3,146	2,996	2,978	2,959	2,982
Female	1,855	1,920	2,102	2,135	2,208	2,170	2,350	2,317	2,423	2,415	2,593
Black or African American											
Total	1,045	950	1,138	1,095	1,173	1,274	1,276	1,295	1,334	1,336	1,399
Male	567	557	623	598	623	754	695	712	697	735	734
Female	478	393	515	497	550	520	581	583	637	601	665
American Indian or Alaska Native											
Total	1,562	1,536	1,527	1,402	1,651	1,543	1,661	1,722	1,871	1,781	1,681
Male	897	884	864	780	929	901	950	981	1,028	1,015	876
Female	665	652	663	622	722	642	711	741	843	766	805
Asian or other Pacific Islander *											
Total	292	264	289	300	338	336	365	449	469	487	528
Male	139	142	129	145	172	164	168	230	241	258	269
Female	153	122	160	155	166	172	197	219	228	229	259
Unspecified other or unknown race											
Total	94	55	56	117	72	26	37	114	161	827	1,153
Male	67	38	52	87	52	14	23	67	115	503	617
Female	27	17	4	30	20	12	14	47	46	324	536

* Due to trend data, Native Hawaiian or Pacific Islander data were added and reflected with Asian (Asian or other Pacific Islander).

**TABLE 2A-2
RESIDENT MORTALITY BY MONTH OF OCCURRENCE AND YEAR, ARIZONA, 2001-2011**

Month of death	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
	JAN	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%	Count 3,950 8.6%
FEB	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%	Count 4,070 8.6%
MAR	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%	Count 4,358 9.2%
APR	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%	Count 3,967 8.3%
MAY	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%	Count 3,899 8.2%
JUN	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%	Count 3,823 8.0%
JUL	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%	Count 3,791 8.0%
AUG	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%	Count 3,913 8.2%
SEP	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%	Count 3,678 7.7%
OCT	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%	Count 3,888 8.2%
NOV	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%	Count 3,753 7.9%
DEC	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%	Count 4,086 8.6%
TOTAL	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%	Count 47,547 100.0%

**TABLE 2A-3
DEATHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2011**

Day of death	Month of death												Total
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	119	136	145	155	124	127	127	112	107	116	124	126	1,518
2	138	147	143	143	125	119	100	133	117	131	126	136	1,558
3	134	145	163	145	142	123	127	120	130	117	128	134	1,608
4	146	168	157	119	120	122	128	123	127	132	143	112	1,597
5	134	127	140	136	139	144	112	158	134	137	134	125	1,620
6	147	142	140	147	135	135	133	139	124	103	125	128	1,598
7	137	138	148	140	121	145	114	105	117	127	103	152	1,547
8	130	135	159	150	108	96	125	130	128	126	121	151	1,559
9	149	151	139	123	129	135	124	144	120	119	139	137	1,609
10	142	141	121	123	125	140	129	122	106	140	131	130	1,550
11	140	122	148	136	130	124	118	113	128	123	119	134	1,535
12	142	144	158	134	111	146	124	103	115	128	125	149	1,579
13	144	151	142	137	117	129	129	124	123	126	133	136	1,591
14	132	151	140	133	139	149	125	132	117	121	125	130	1,594
15	144	155	136	121	137	125	123	127	128	128	127	146	1,597
16	130	148	129	118	134	122	120	120	102	116	112	130	1,481
17	144	144	140	119	121	130	124	122	107	116	129	139	1,535
18	150	149	119	142	125	121	122	141	114	147	125	132	1,587
19	130	140	159	107	118	130	118	116	131	130	125	110	1,514
20	163	156	132	134	117	111	144	133	131	121	113	145	1,600
21	141	135	141	134	134	116	131	134	124	135	125	120	1,570
22	136	134	141	134	132	126	104	125	111	123	124	119	1,509
23	148	156	135	133	119	129	128	110	132	112	113	116	1,531
24	136	172	136	133	123	118	125	131	153	130	141	132	1,630
25	139	154	139	131	119	116	117	145	102	121	138	120	1,541
26	116	141	151	122	127	151	110	136	127	117	112	131	1,541
27	154	130	143	114	132	129	118	131	132	133	114	120	1,550
28	155	158	126	132	140	111	121	106	122	135	130	118	1,554
29	133		124	139	110	125	124	143	136	127	119	136	1,416
30	129		141	133	123	129	116	118	133	123	130	157	1,432
31	139		123		123		131	117		128		135	896
Total	4,321	4,070	4,358	3,967	3,899	3,823	3,791	3,913	3,678	3,888	3,753	4,086	47,547

**TABLE 2A-4
AGE-SPECIFIC MORTALITY BY PLACE OF DEATH AND DECEDENT STATUS, ARIZONA, 2011**

	Age											Un- known	Total			
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+					
IN HOSPITAL																
In-patient	377	42	40	127	188	329	863	1,593	2,215	2,660	1,837	0	10,271			
Out-patient*	81	43	32	151	172	214	365	475	454	421	297	0	2,705			
Died on arrival	2	1	0	5	4	6	6	6	6	6	5	0	47			
Status unknown	29	5	15	162	266	481	1,198	2,154	2,629	3,436	3,636	0	14,011			
Subtotal	489	91	87	445	630	1,030	2,432	4,228	5,304	6,523	5,775	0	27,034			
NOT IN HOSPITAL																
Nursing home**	9	7	12	14	41	143	508	1,122	1,811	2,919	3,231	0	9,817			
Residence	0	0	0	0	4	18	88	257	607	1,515	3,130	1	5,620			
Other***	3	5	17	200	256	250	314	365	364	946	1,966	14	4,700			
Unspecified	3	3	2	12	19	25	26	58	84	83	60	1	376			
Subtotal	15	15	31	226	320	436	936	1,802	2,866	5,463	8,387	16	20,513			
TOTAL	504	106	118	671	950	1,466	3,368	6,030	8,170	11,986	14,162	16	47,547			

* 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 implemented the new (2003) Standard U.S. death certificate. The new certificate added several new questions: 1) whether tobacco use contributed to the death, and 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).

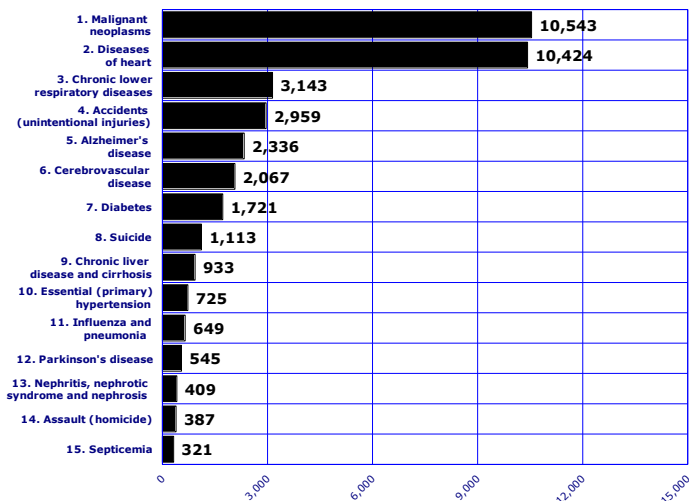
The death certificate now includes a new classification of the decedent's race/ethnic status, consistent with the revised federal standards for collecting and reporting racial and ethnic status. These standards were published in the Federal Register on October 30, 1997, as "Revisions to the Standards 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 2011, among the 47,547 deaths of Arizona residents, indication of "two or more races" appeared on only 354 certificates. The total number of deaths for decedents identified as Native Hawaiian was 19. Seven Samoan residents of the State died in 2011. 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 2011

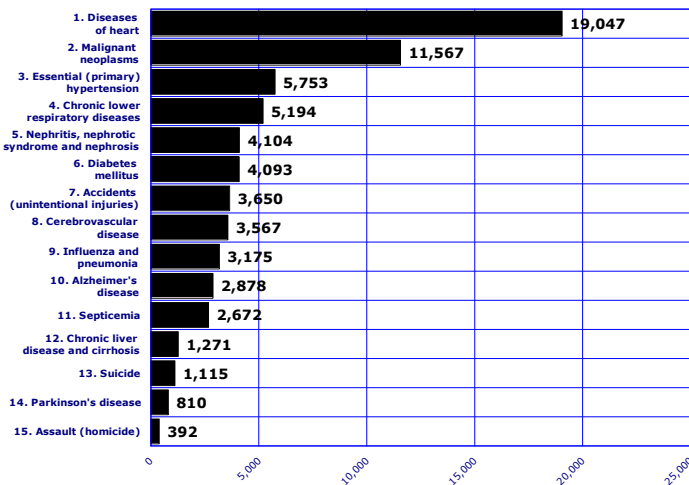
BASED ON THE NUMBER OF DEATHS DUE TO THE UNDERLYING CAUSE:



Based on the number of deaths (but not age-adjusted mortality rate), the leading underlying cause of death to Arizona residents in 2011 was cancer (10,543 or 22.2 percent of all deaths), closely followed by *heart disease*, which accounted for 10,424 or 21.9 percent of deaths (**Figure 2B-1A, Table 2B-1, Table 5E-14**). The third leading cause of death, *chronic lower respiratory diseases* accounted for 3,143 or 6.6 percent of total deaths. Deaths due to *accidents (unintentional injuries)* ranked fourth in 2011, with 2,959 resident deaths reported. Deaths due to *Alzheimer's disease* ranked fifth in 2011, with 2,336 resident deaths reported. Together, these five causes accounted for 61.8 percent of total deaths in 2011. The fifteen leading causes accounted for 80.5 percent of all deaths among Arizona residents.

Figure 2B-1B
Leading Causes of Death among Arizona Residents in 2011

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 10,424 deaths that had diseases of the heart assigned as the underlying cause, another 8,623 deaths had diseases of the heart assigned as the other than underlying cause. The sum of these two counts (19,047, **Figure 2B-1B**) is the total number of deaths that had any mention of diseases of the heart on the 2011 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 10th as the underlying cause but ranked 3rd 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 2011, diseases of the heart were the leading cause of death for American Indians, Blacks or African Americans, and Hispanics or Latinos. Cancer was the number one cause of death for Asians or Pacific Islanders 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, stroke was the 3rd leading cause of death in 2011. Diabetes was among the top five causes of death among Blacks, Hispanics, American Indians, and Asians, but not among 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, 2011

Rank	Asian or Pacific Islander	American Indian or Alaska Native	Black or African American	Hispanic or Latino	White non-Hispanic
1	Cancer 116.6	Diseases of heart 111.1	Diseases of heart 174.0	Diseases of heart 137.4	Cancer 170.3
2	Diseases of heart 77.0	Cancer 100.8	Cancer 167.1	Cancer 136.3	Diseases of heart 164.3
3	Stroke 29.1	Unintentional injury 100.6	Diabetes 57.8	Diabetes 41.7	Chronic lower respiratory diseases 55.3
4	Diabetes 23.3	Diabetes 61.3	Stroke 56.5	Unintentional injury 38.9	Unintentional injury 46.9
5	Alzheimer's disease 21.0	Chronic liver disease and cirrhosis 43.6	Alzheimer's disease 54.7	Stroke 34.9	Alzheimer's disease 36.3

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

Except American Indians and Hispanic or Latinos, cancer 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 Asian or Pacific Islander, Black or African American, and White non-Hispanic females. Diabetes was the 3rd leading cause of death for American Indian and Hispanic or Latino women, and 5th leading cause for Asian and Black females. Alzheimer's disease was the 4th leading cause of mortality among Asian, Black or African American, and White non-Hispanic women and 5th among Hispanic or Latino women.

Chronic liver disease and cirrhosis was the 5th leading cause of death specific to American Indian females. Chronic lower respiratory diseases were the 3rd leading cause of death specific to White non-Hispanic females.

Figure 2B-3
Age-adjusted* Mortality Rates for the Five Leading Causes of Death by Race/Ethnicity among Females, Arizona, 2011

Rank	Asian or Pacific Islander	American Indian or Alaska Native	Black or African American	Hispanic or Latino	White non-Hispanic
1	Cancer 110.2	Diseases of heart 92.7	Cancer 169.0	Diseases of heart 113.2	Cancer 132.4
2	Diseases of heart 57.3	Cancer 90.9	Diseases of heart 119.3	Cancer 107.3	Diseases of heart 120.4
3	Stroke 26.2	Diabetes 68.8	Stroke 64.3	Diabetes 35.9	Chronic lower respiratory diseases 48.5
4	Alzheimer's disease 19.5	Unintentional injury 58.0	Alzheimer's disease 54.3	Stroke 35.6	Alzheimer's disease 39.6
5	Diabetes 17.4	Chronic liver disease and cirrhosis 40.4	Diabetes 44.4	Alzheimer's disease 35.0	Unintentional injury 33.9

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, 2011

Rank	Asian or Pacific Islander	American Indian or Alaska Native	Black or African American	Hispanic or Latino	White non-Hispanic
1	Cancer 126.2	Diseases of heart 131.1	Diseases of heart 252.9	Cancer 176.0	Diseases of heart 196.2
2	Diseases of heart 105.3	Cancer 116.3	Cancer 170.6	Diseases of heart 167.1	Cancer 182.2
3	Stroke 34.2	Unintentional injury 146.7	Diabetes 71.9	Unintentional injury 51.9	Unintentional injury 57.3
4	Diabetes 32.4	Diabetes 50.7	Alzheimer's disease 52.4	Diabetes 48.4	Chronic lower respiratory diseases 53.3
5	Unintentional injury 28.4	Chronic liver disease and cirrhosis 46.7	Unintentional injury 50.3	Stroke 33.3	Intentional self-harm (suicide) 33.1

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

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

Unintentional injury ranked among the top 5 leading causes of death for all race/ethnic groups. Unintentional injury was the 3rd leading causes of death among American Indian, Hispanic or Latino, and White non-Hispanic men, and 5th leading cause for Asian and Black or African males.

In 2011, based on the age-adjusted mortality rates, diabetes was among the four leading causes of death for Asian, American Indian, Black or African American, and Hispanic or Latino males.

Figure 2B-5
Age-adjusted* Mortality Rates for the Five Leading Causes of Death
by Gender in Urban and Rural Areas, Arizona, 2011**

Rank	Urban male	Urban female	Rural male	Rural female
1	Diseases of heart 185.1	Cancer 129.1	Diseases of heart 220.2	Diseases of heart 139.7
2	Cancer 176.9	Diseases of heart 114.2	Cancer 185.2	Cancer 131.6
3	Unintentional injury 54.2	Alzheimer's disease 41.8	Unintentional injury 77.3	Chronic lower respiratory diseases 47.3
4	Chronic lower respiratory diseases 49.4	Chronic lower respiratory diseases 41.7	Chronic lower respiratory diseases 50.7	Unintentional injury 44.3
5	Alzheimer's disease 31.5	Unintentional injury 30.4	Intentional self-harm (suicide) 43.6	Stroke 33.7

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.

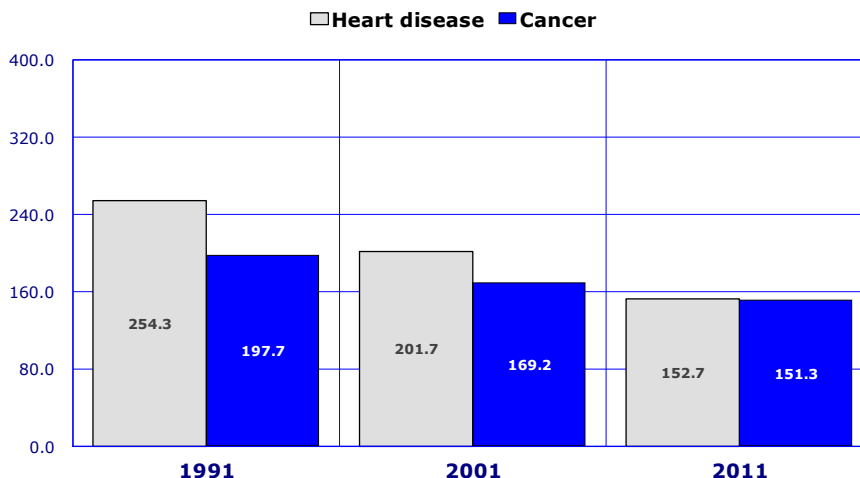
In 2011, the profile of the leading causes of death differed by gender for the residents of the urban (Maricopa, Pima, Pinal, and Yuma counties) and rural (all the remaining counties) areas of the State (**Figure 2B-5, Table 2B-5**). Diseases of the heart exceeded cancer as the leading cause of death among urban males and both rural males and rural females. For urban females cancer followed by diseases of the heart were the two leading causes of death. 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.

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, 1991, 2001 and 2011

The age-adjusted mortality rate for diseases of the heart decreased by 40.0 percent from 254.3 deaths per 100,000 population in 1991 to 152.7/100,000 in 2011 (**Figure 2B-6**). The age-adjusted mortality rate for cancer declined less, by 23.5 percent, during 1981-2011. In Arizona, the relative risk of death from heart disease versus cancer changed from 28.6 percent greater in 1991 to 0.9 percent greater in 2011.

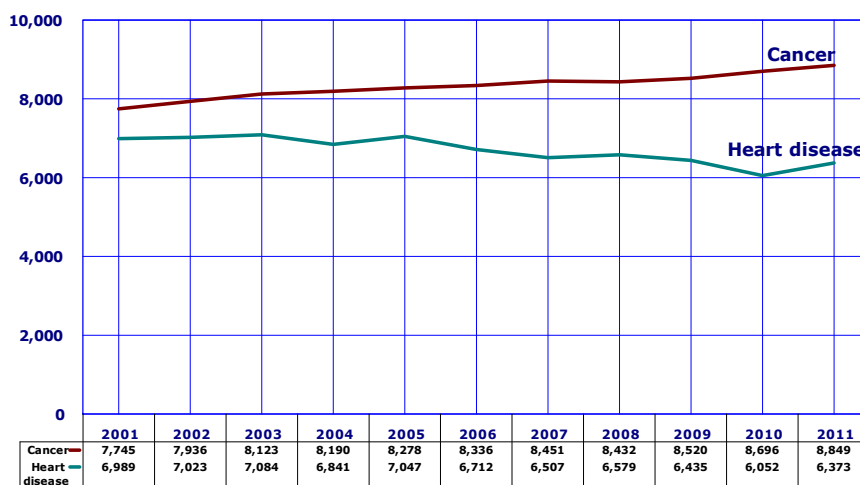
In 2001, 1,398 more Arizonans died from diseases of the heart than cancer (**Table 2B-1**). In 2011, the number of deaths from cancer exceeded the number of heart disease deaths by 119 (**Table 2B-4**).



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

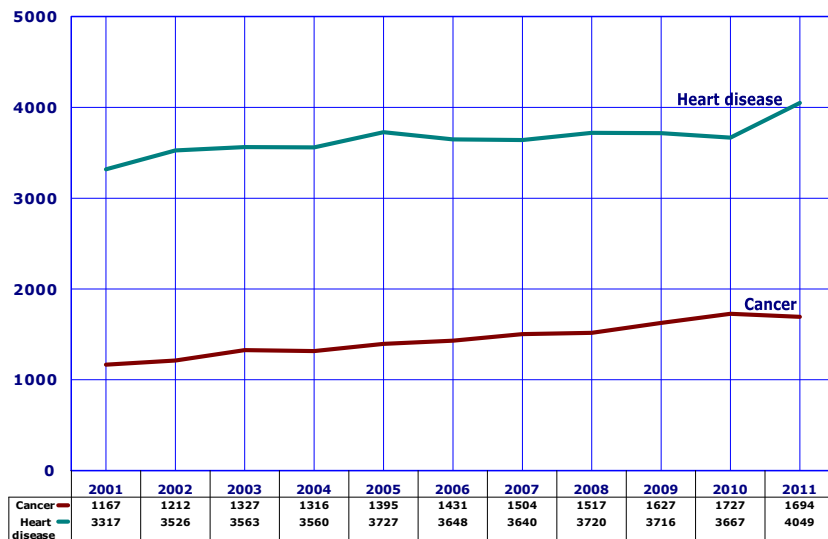
Figure 2B-7
Number of Deaths from Heart Disease and Cancer among Arizonans 0-84 Years, 2001-2011

For the past several years, cancer has 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 2011, 2,476 more Arizonans 0-84 years old died from cancer (8,849) than heart disease (6,373).



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

Figure 2B-8
Deaths from Heart Disease and Cancer among Arizonans 85+, 2001-2011

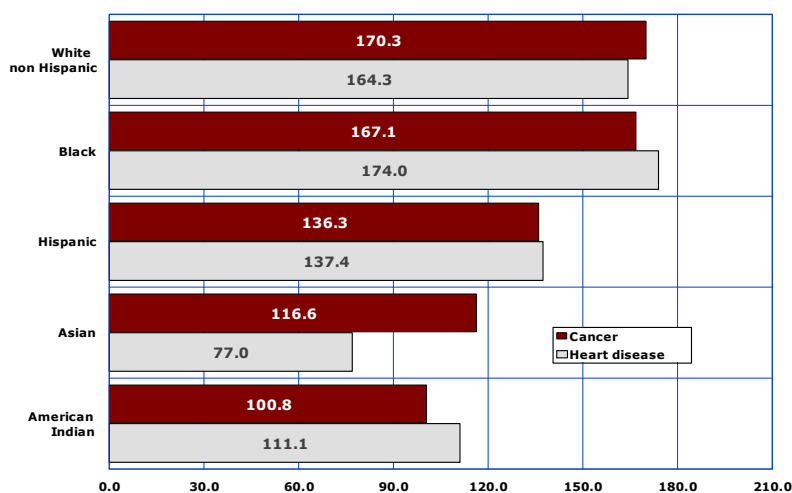


It is only among the oldest, 85 or older, that heart disease continues to be the number one cause of death (**Figure 2B-8**). In 2011, the elderly aged 85 years or older accounted for 16.1 percent of all deaths from cancer but 38.8 percent of all deaths from heart disease. In 2011, the median age at death from heart disease was 81 years (**Table 2D-3**) and only a minority of deaths (43.3 percent, **Table 2D-4**) were premature, i.e., before reaching the expected years of life at birth for all U.S. residents.

However, from 2001 to 2011, the number of deaths from cancer increased by 45.2 percent among Arizonans 85 years or older, twice the increase than the one seen for diseases of the heart (a 22.1 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, 2011



Arizona's White non-Hispanics were 2.1 times more likely to die from diseases of the heart than Asians, and 1.7 times more likely to die from malignant neoplasms in 2011 than American Indians, the groups with the lowest risk of each respective cause of death (**Figure 2B-9, Table 2B-4**).

Among White non-Hispanics, and Asians, the relative risk of death from cancer exceeded the mortality risk of death from heart disease in 2011 (**Table 2B-3**).

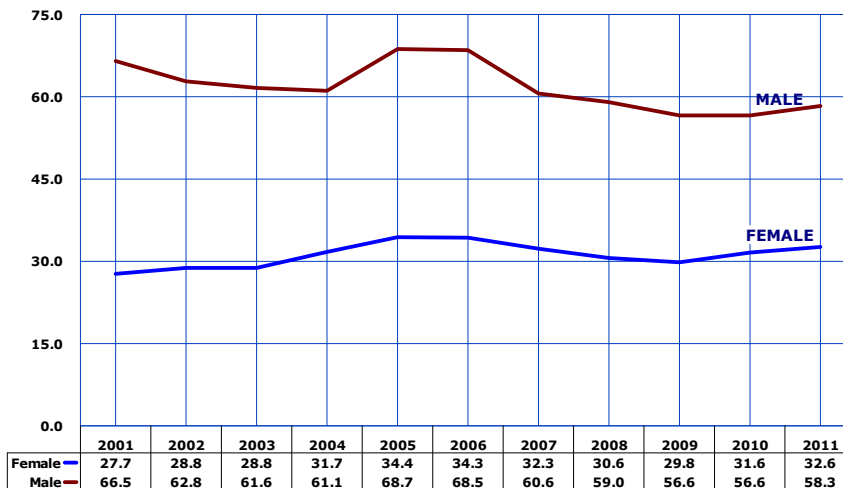
Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

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

The number of deaths from unintentional injuries decreased by 6.2 percent from a recent peak of 3,156 in 2006 to 2,959 in 2011 (**Table 2B-1**). In 2011, 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 2010 to 2011 the age-adjusted mortality rate for accidents slightly increased for both males and females (**Figure 2B-10**).

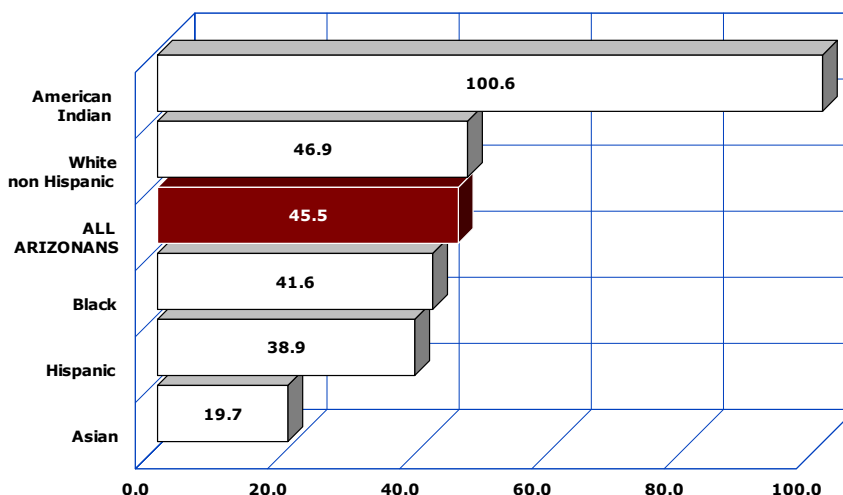
In 2011, 787 deaths were caused by motor vehicle accidents. In contrast, Arizonans experienced a large increase in the number of accidental drug poisoning/overdoses. They increased from 414 deaths in 2001 to 781 deaths in 2011. In both in 2009 and 2010, the number of deaths from accidental poisoning by drugs exceeded the number of deaths from motor vehicle-related injuries (**Table 2B-9**), but in 2011 motor vehicle accidents claimed 787 lives where accidental poisonings killed 781 Arizonans.

Figure 2B-10
Age-adjusted Mortality Rates for Accidents (unintentional injuries) by Gender and Year, Arizona, 2001-2011



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, 2011



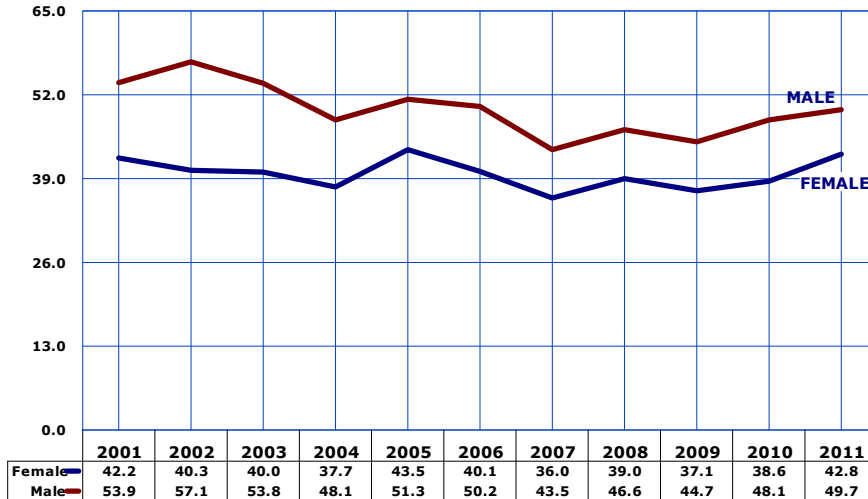
Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

The American Indian death rate for unintentional injuries (100.6/100,000) was 5.1 times greater than the rate for Asians (19.7/100,000), the group at the lowest risk of unintentional injury death among race/ethnic groups in the State (**Figure 2B-11, Table 2B-4**).

In 2011, Apache (135.5/100,000) and Navajo (96.2/100,000) 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, 2001-2011

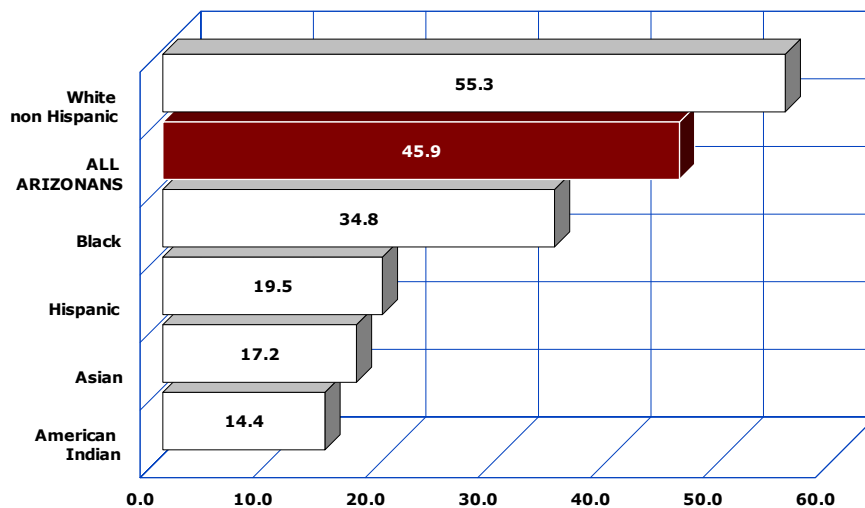


In 2011, chronic lower respiratory diseases (bronchitis, emphysema, asthma) were the 3rd leading cause of death among Arizona residents (**Table 2B-1**). From 2010 to 2011, the mortality rates for chronic lower respiratory diseases (CLRD) increased for both genders (**Figure 2B-12, Table 2B-2**).

Urban females had the lowest mortality rate for CLRD (41.7/100,000) among the gender by region groups (**Table 2B-5**). Rural males were the group with the highest mortality risk for CLRD (50.7/100,000), followed by urban males (49.4 deaths per 100,000), and rural females (47.3/100,000).

*e 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, 2011



Death rates for emphysema, chronic bronchitis, asthma, and other lower respiratory disorders were substantially higher among White non-Hispanics (55.3 deaths per 100,000) than they were among Blacks or African Americans (34.8/100,000), Hispanics, (19.5/100,000), Asians (17.2/100,000), and American Indians (14.4/100,000); (**Figure 2B-13, Table 2B-4**).

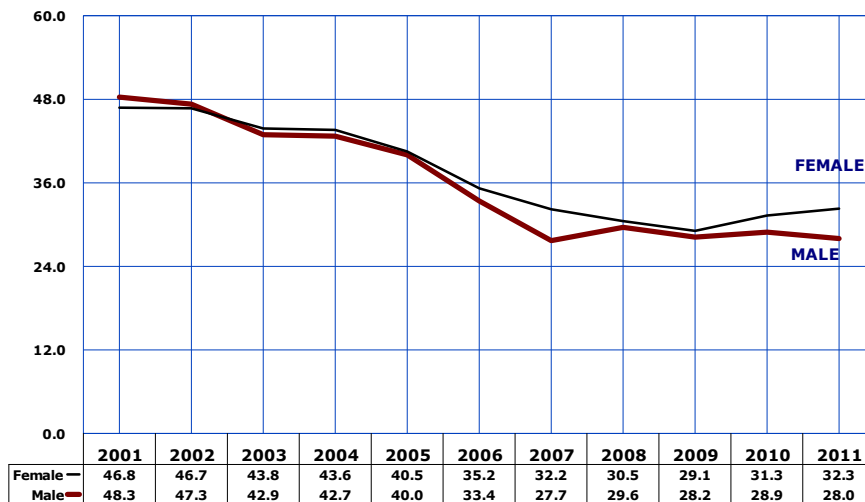
Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH
Cerebrovascular disease

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 35.8 percent from 47.7 deaths per 100,000 population in 2001 to 30.6/100,000 in 2011 (Table 2B-3).

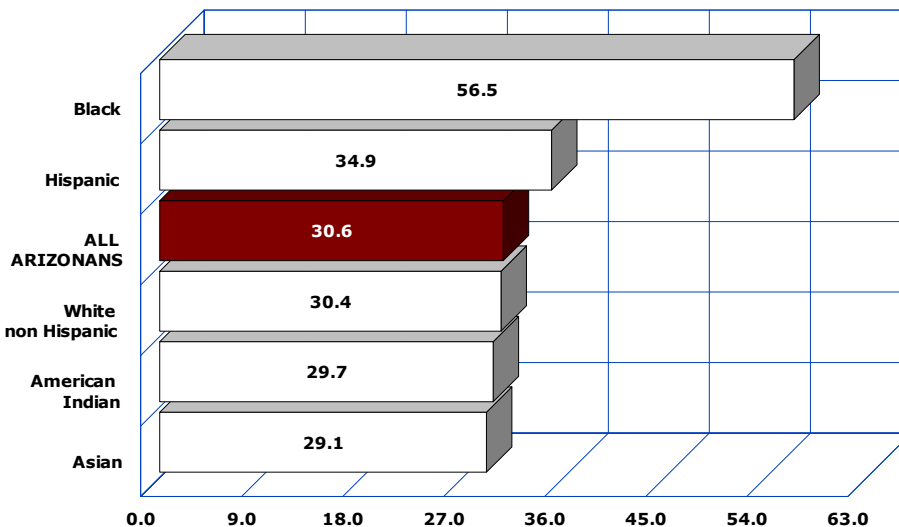
In 2011, the number of deaths from cerebrovascular disease was greater among females (1,254) than males (813, Table 2B-4). Females remained at greater risk than males to die from a stroke in 2003-2011 (Figure 2B-14). In 2011 the age-adjusted mortality rates for stroke increased for females but decreased for males (Figure 2B-14, Table 2B-2).

Figure 2B-14
Age-adjusted Mortality Rates for Cerebrovascular Disease by Gender and Year, Arizona, 2001-2011



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, 2011



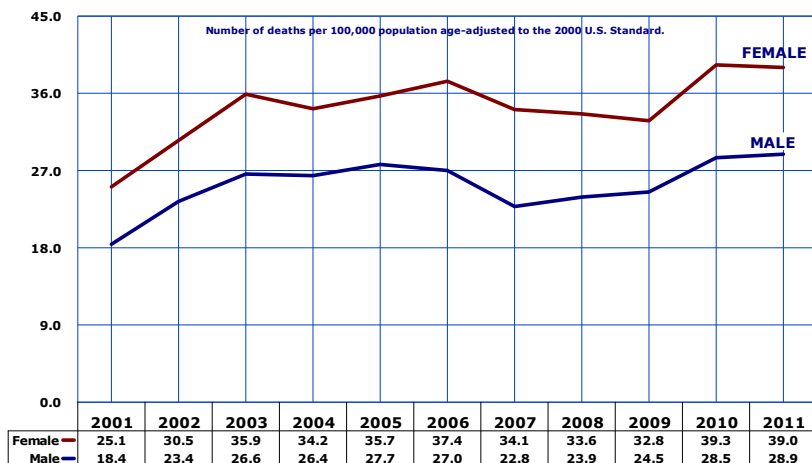
Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Compared to Arizona's rate, Blacks or African Americans were 84.6 percent more likely to die from cerebrovascular disease in 2011 (Figure 2B-15, Table 2B-4). The 2011 mortality rate for cerebrovascular disease among Asians (29.1/100,000) was the lowest among race/ethnic groups.

American Indian males had the lowest mortality rate for cerebrovascular disease among gender by racial/ethnic subgroups (24.8 deaths per 100,000, Table 2B-4), while Black or African American females had the highest rate of 64.3 deaths per 100,000.

2B. LEADING CAUSES OF DEATH
Alzheimer's disease

Figure 2B-16
Age-adjusted Mortality Rates for Alzheimer's Disease by Gender and Year, Arizona, 2001-2011

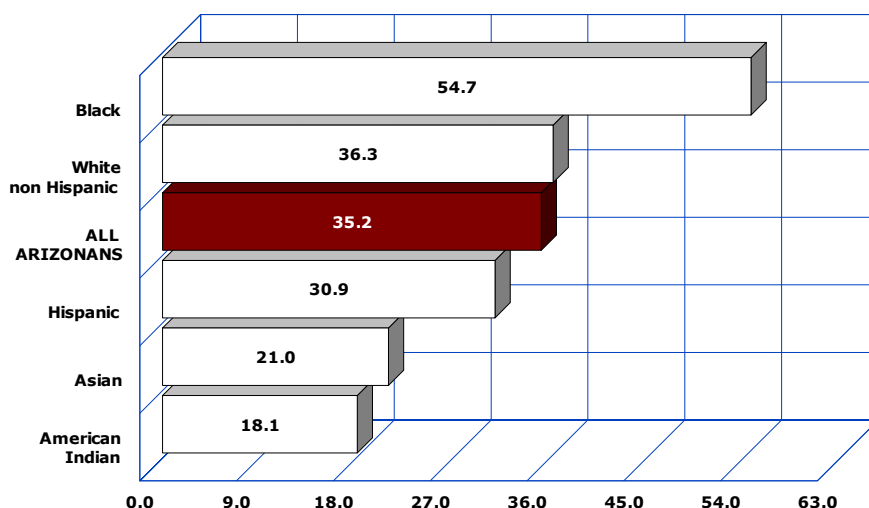


Based on the number of deaths in 2011, Alzheimer's disease was the 6th leading cause of death for females and 9th leading cause for males (**Table 2B-4**).

From 2009 to 2011, the age-adjusted mortality rate for Alzheimer's disease among females increased by 18.9 percent from 32.8/100,000 to 39.0/100,000 in 2011 (**Figure 2B-16**). The age-adjusted mortality rate for Alzheimer's disease increased for the 4th consecutive year for males from 22.8/100,000 in 2007 to 28.9/100,000 in 2010.

In 2011, the age-adjusted death rate for Alzheimer's disease was 34.9 percent higher for females than for males.

Figure 2B-17
Age-adjusted Mortality Rates for Alzheimer's Disease by Race/Ethnicity, Arizona, 2011



The age-adjusted mortality rates for Alzheimer's disease in 2011 were higher among Black or African American (54.7/100,000) and White non-Hispanic (36.3 deaths per 100,000) than they were among Hispanic or Latino (30.9/100,000), Asian (21.0/100,000), and American Indian residents of Arizona (18.1/100,000; **Figure 2B-17**, **Table 2B-4**).

White non-Hispanic residents of Arizona disproportionately contributed to mortality from Alzheimer's disease. In 2011, White non-Hispanics accounted for 58.7 percent (**Table 10C-1**) of the State's population, but 87.2 percent of all deaths from Alzheimer's disease (2,038 out of 2,336; **Table 2B-4**).

In 2011, the median age at death from Alzheimer's disease was 88 for females and 85 for males (**Table 2D-3**).

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

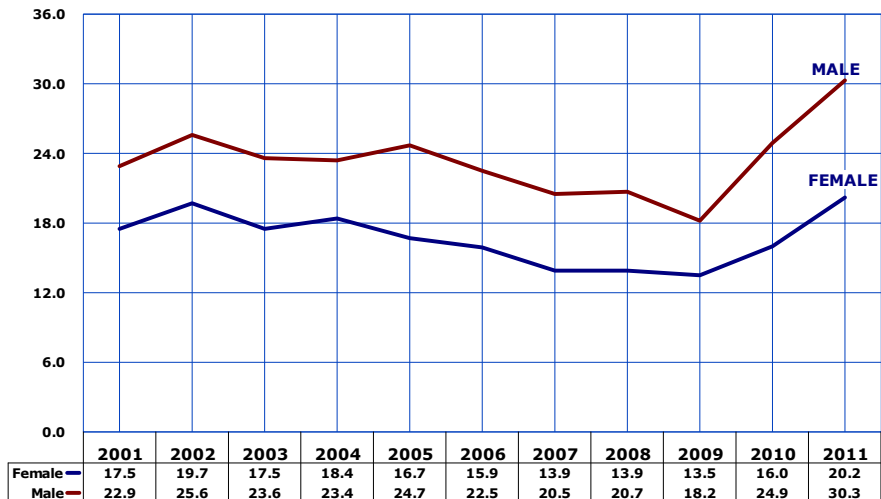
2B. LEADING CAUSES OF DEATH
Diabetes

Figure 2B-18
Age-adjusted Mortality Rates for Diabetes by Gender and Year, Arizona, 2001-2011

Both men and women experienced a decline in mortality rates for diabetes from 2005 to 2009 (Figure 2B-18), but from 2009 to 2011 the number of deaths from diabetes increased by 59.6 percent (based on the data in Table 2B-1).

In 2011, in addition to 1,721 deaths that had diabetes assigned as the underlying cause, another 2,372 deaths had diabetes assigned as a contributing factor. The diabetes-related death rate of 59.1/100,000 (Table 6A-6) was 2.4 times greater than the rate for diabetes as underlying cause (24.8/100,000, 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.

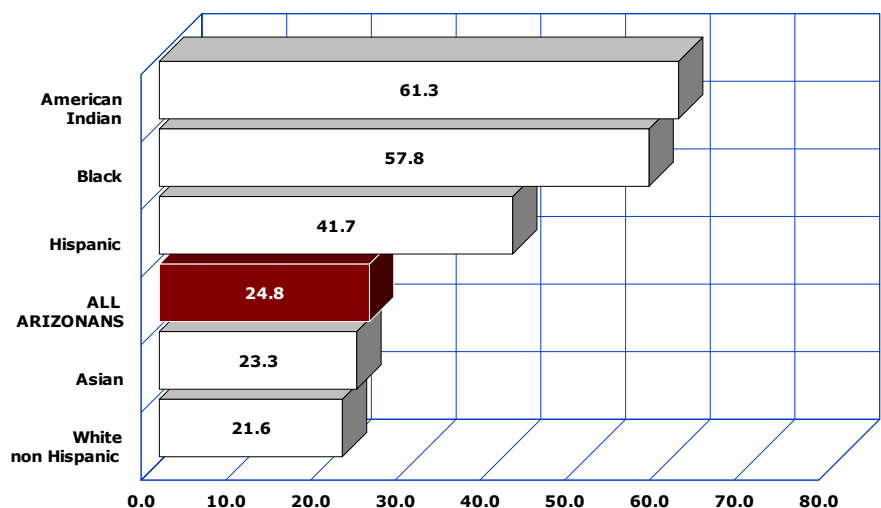


Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Figure 2B-19
Age-adjusted Mortality Rates for Diabetes by Race/Ethnicity, Arizona, 2011

In 2011, compared to Arizona's rate, American Indians were 2.5 times more likely to die from diabetes (61.3 deaths per 100,000; Figure 2B-19, Table 2B-4). The rate of 21.6 deaths per 100,000 among White non-Hispanics was the lowest rate among race/ethnic groups in the State.

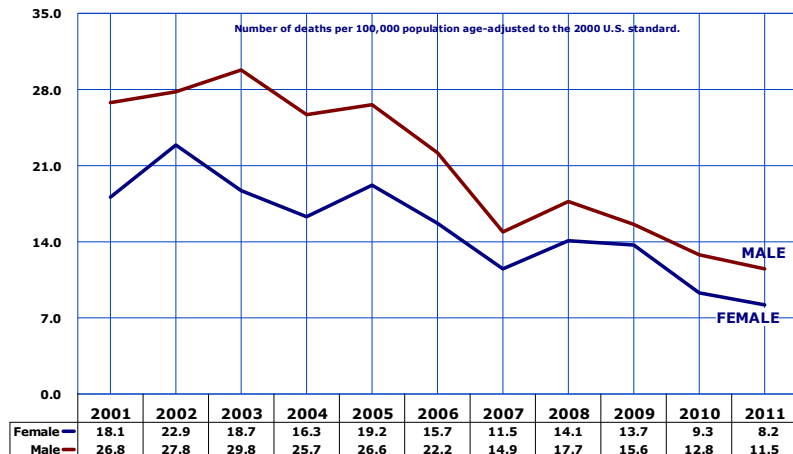
Among the 15 Arizona counties, in 2011 Apache (50.6/100,000), Navajo (43.4/100,000), and Greenlee (41.0/100,000) counties had the highest mortality rates for diabetes (Table 5E-11).



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

2B. LEADING CAUSES OF DEATH
Influenza and pneumonia

Figure 2B-20
Age-adjusted Mortality Rates for Influenza and Pneumonia by Gender and Year, Arizona, 2001-2011

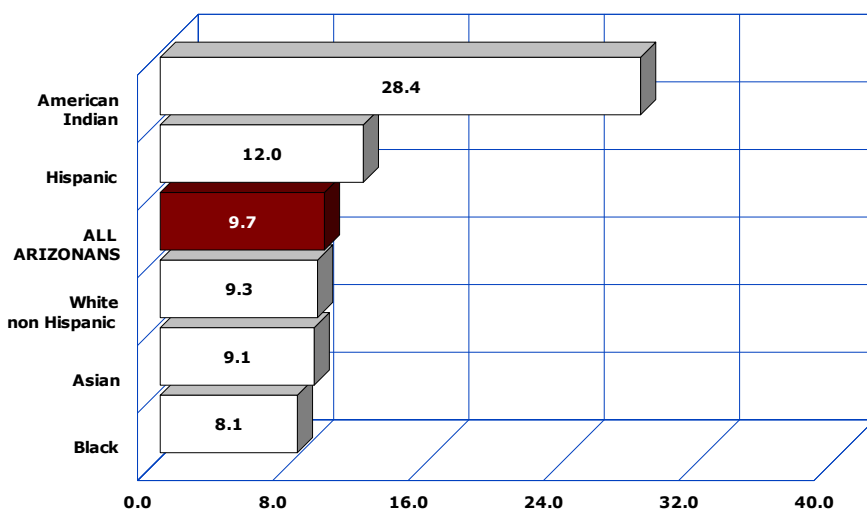


The number of deaths from influenza and pneumonia decreased by 49.3 percent from a recent high of 1,280 in 2005 to 649 in 2011 (**Table 2B-1**). In 2001, influenza and pneumonia were ranked the 7th leading cause of death in Arizona. Among the 649 deaths, influenza was identified as the underlying cause for 26 of them, while pneumonia was listed as the underlying cause on 623 death certificates (**Table 2B-6**).

The mortality rate for influenza and pneumonia decreased for females from 9.3 deaths per 100,000 in 2010 to 8.2 deaths in 2011 (**Figure 2B-20, Table 2B-2**). The mortality rate for influenza and pneumonia also decreased for males from 12.8 deaths per 100,000 in 2010 to 11.5/100,000 in 2011.

In 2011, Arizona males were 40.2 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, 2011



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

In 2011, American Indian residents of Arizona had the highest mortality rate for influenza and pneumonia (28.4 deaths per 100,000) among the race/ethnic groups. The age-adjusted mortality of 8.1/100,000 among Black or African Americans 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, Greenlee County's rate was 4.2 times greater (41.0/100,000). The mortality rate also was elevated in Apache County (34.6/100,000; **Table 5E-11**).

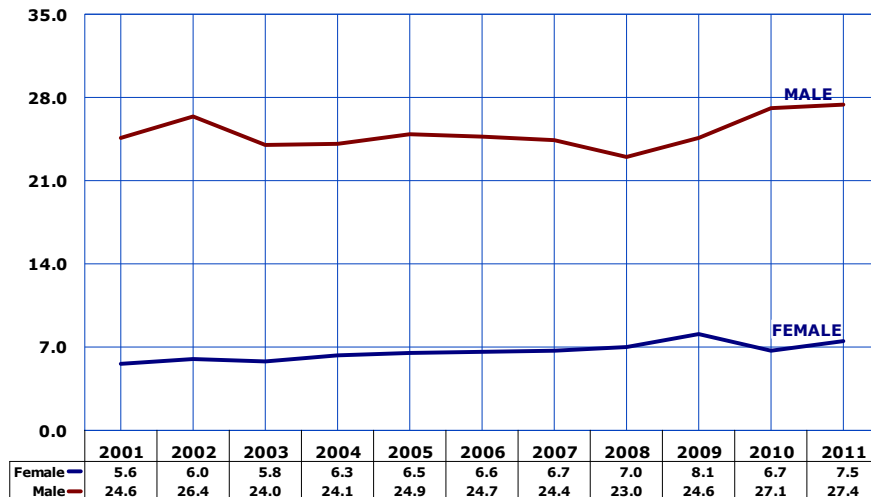
2B. LEADING CAUSES OF DEATH
Suicide

Figure 2B-22
Age-adjusted Mortality Rates for Suicide by Gender and Year, Arizona, 2001-2011

In 2011, suicide was the 6th leading cause of death among males. It ranked as the 13th cause of mortality for females. The age-adjusted suicide rate increased from 14.8 per 100,000 residents of the State in 2008 to 17.2 suicides per 100,000 in 2011 (**Table 2B-3**).

The suicide rate increased for females from 6.7/100,000 in 2010 to 7.5/100,000 in 2011 (**Figure 2B-22, Table 2B-3**). The male mortality risk for suicide increased from the 2010 rate of 27.1/100,000 to 27.4/100,000 in 2011.

In 2011, suicide posed a 3.7 times greater mortality risk for males (27.4/100,000) than females (7.5/100,000).

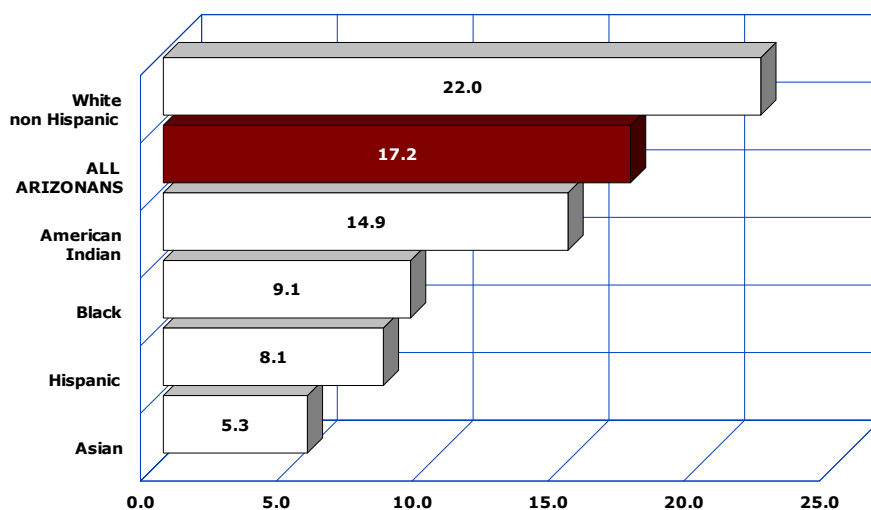


Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Figure 2B-23
Age-adjusted Mortality Rates for Suicide by Race/Ethnicity, Arizona, 2011

In 2011, White non-Hispanics had the highest age-adjusted suicide rate (22.0 suicides per 100,000) among the race/ethnic groups, followed by American Indians (14.9/100,000), Black or African Americans (9.1/100,000), Hispanics (8.1/100,000), and Asians (5.3/100,000; **Figure 2B-23, Table 2B-4**).

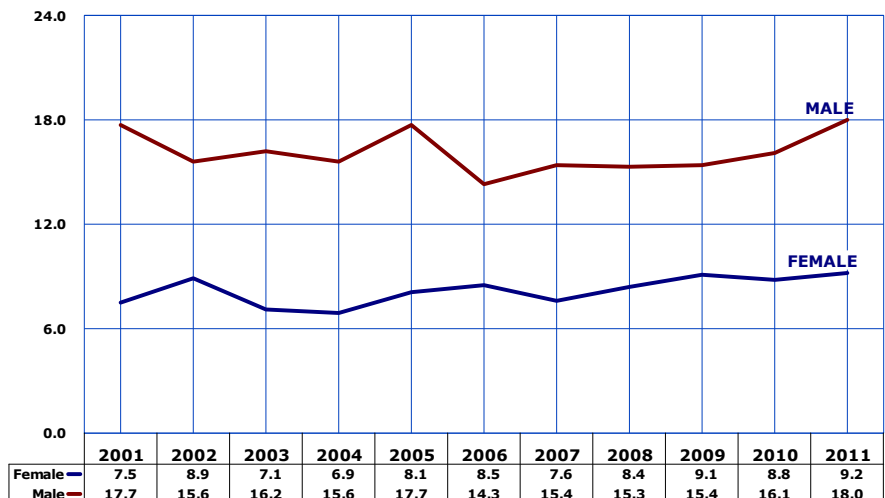
The age-adjusted mortality rates for suicide varied in Arizona in 2011 from 8.2 suicides per 100,000 residents of Santa Cruz County to 42.8 suicides per 100,000 residents of Apache County (**Table 5E-11**).



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

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, 2001-2011



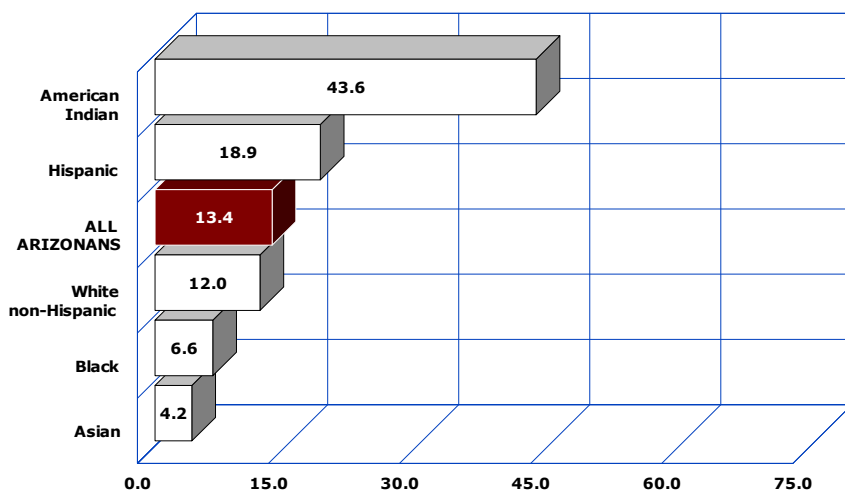
Chronic liver disease and cirrhosis was the 9th leading cause of death in Arizona in 2011 (**Figure 2B-1, Table 2B-1**). Among the 933 deaths due to chronic liver disease and cirrhosis, 608 (65.2 percent) were males (**Table 2B-4**).

Among females, the age-adjusted mortality rate for chronic liver disease and cirrhosis slightly increased from 8.8/100,000 in 2010 to 9.2 deaths per 100,000 in 2011. Among males, the mortality rate increased 11.8 percent from 16.1/100,000 in 2010 to 18.0/100,000 in 2011 (**Figure 2B-24, Table 2B-3**).

In 2011, Greenlee, Apache, and Navajo 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, 2011



The 2011 death rate for chronic liver disease and cirrhosis among American Indians (43.6 deaths per 100,000) was 3 times greater than the state average (13.4/100,000; **Figure 2B-25, Table 2B-4**). The rate for Hispanics (18.9 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 18 years younger (59 years, **Table 2D-3**). In 2011, the median age at death of American Indians who died from chronic liver disease and cirrhosis was only 49 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, 2001-2011**

Rank in 2001	Rank in 2011	Cause of death	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
2	1	Malignant neoplasms	8,914	9,148	9,451	9,506	9,673	9,768	9,955	9,949	10,147	10,423	10,543
1	2	Diseases of heart	10,312	10,551	10,649	10,402	10,779	10,362	10,147	10,299	10,151	9,719	10,424
3	3	Chronic lower respiratory diseases	2,463	2,530	2,522	2,392	2,778	2,771	2,651	2,896	2,808	2,892	3,143
4	4	Accidents (unintentional injury)	2,430	2,416	2,466	2,641	3,006	3,156	3,014	2,951	2,887	2,834	2,959
6	5	Alzheimer's disease	1,103	1,413	1,691	1,672	1,816	2,057	2,041	2,086	2,086	2,314	2,336
5	6	Cerebrovascular diseases	2,416	2,448	2,356	2,412	2,325	2,159	2,079	2,089	2,010	2,051	2,067
8	7	Diabetes	1,040	1,201	1,124	1,180	1,196	1,188	1,145	1,162	1,078	1,372	1,721
9	8	Intentional self-harm (suicide)	767	855	807	854	915	948	986	968	1,060	1,070	1,113
10	9	Chronic liver disease and cirrhosis	635	647	625	629	749	706	734	778	818	843	933
15	10	Essential primary hypertension and hypertensive renal disease	298	293	339	405	390	420	389	475	475	498	725
7	11	Influenza and pneumonia	1,100	1,294	1,248	1,108	1,280	1,147	875	1,075	1,007	729	649
14	12	Parkinson's disease	366	397	402	390	492	489	455	487	446	488	545
11	13	Nephritis, nephrotic syndrome and nephrosis	622	600	550	625	603	549	510	488	532	516	409
12	14	Assault (homicide)	467	478	480	486	503	525	494	461	360	404	387
13	15	Septicemia	372	445	463	456	496	539	547	539	528	425	321
ALL CAUSES			40,851	42,320	42,830	42,736	45,115	45,415	44,640	45,128	45,065	45,871	47,547

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 2001-2011 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, 2001-2011**

		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
TOTAL, ALL CAUSES												
	Total	791.2	796.4	784.0	757.3	772.5	727.3	663.2	659.6	653.2	679.9	699.6
	Male	952.4	964.8	942.8	909.0	925.7	861.6	773.8	777.6	763.9	802.0	817.1
	Female	656.7	658.0	651.5	632.0	644.9	611.8	561.7	554.3	555.1	572.6	595.3
CARDIOVASCULAR DISEASE												
	Total	267.3	265.5	258.4	248.5	245.7	216.4	194.4	194.1	188.8	188.6	201.0
	Male	321.6	321.1	310.3	298.4	298.2	258.3	227.5	235.8	228.1	225.1	239.2
	Female	223.0	221.0	215.8	207.8	203.8	181.0	164.3	158.1	154.9	156.7	168.0
-----DISEASES OF HEART												
	Total	201.7	201.0	197.1	186.7	186.9	166.1	149.5	149.3	145.9	143.3	152.7
	Male	251.3	253.6	246.6	234.2	237.4	207.3	184.0	189.3	183.1	179.8	192.8
	Female	161.5	158.9	157.1	148.5	147.3	131.8	119.4	115.1	114.1	112.2	119.0
-----CEREBROVASCULAR DISEASE												
	Total	47.7	47.0	43.9	43.6	40.6	34.8	30.6	30.3	28.9	30.7	30.6
	Male	48.3	47.3	42.9	42.7	40.0	33.4	27.7	29.6	28.2	28.9	28.0
	Female	46.8	46.7	43.8	43.6	40.5	35.2	32.2	30.5	29.1	31.3	32.3
MALIGNANT NEOPLASMS												
	Total	169.2	168.6	169.4	164.7	161.8	154.7	148.0	145.5	147.2	150.5	151.3
	Male	199.8	209.1	208.3	201.2	197.1	187.0	176.7	173.8	174.9	180.6	179.3
	Female	147.5	139.1	141.3	138.6	136.1	131.0	125.6	123.0	125.8	127.1	129.5
CHRONIC LOWER RESPIRATORY DISEASE												
	Total	46.9	47.0	45.4	41.9	46.8	44.3	39.2	42.2	40.5	42.6	45.9
	Male	53.9	57.1	53.8	48.1	51.3	50.2	43.5	46.6	44.7	48.1	49.7
	Female	42.2	40.3	40.0	37.7	43.5	40.1	36.0	39.0	37.1	38.6	42.8
ACCIDENTS (UNINTENTIONAL INJURIES)												
	Total	46.6	45.2	44.8	46.0	51.1	51.2	46.6	44.7	43.1	43.8	45.5
	Male	66.5	62.8	61.6	61.1	68.7	68.5	60.6	59.0	56.6	56.6	58.3
	Female	27.7	28.8	28.8	31.7	34.4	34.3	32.3	30.6	29.8	31.6	32.6
-----MOTOR VEHICLE ACCIDENTS												
	Total	17.2	18.5	18.0	18.1	18.9	19.6	16.2	13.6	11.6	11.1	12.1
	Male	24.2	25.5	24.9	23.9	27.0	26.8	22.2	19.5	16.8	15.9	17.6
	Female	10.1	11.6	11.2	12.5	11.1	12.4	10.1	7.9	6.5	6.4	6.9
INFLUENZA AND PNEUMONIA **												
	Total	21.9	25.0	23.4	20.1	22.3	18.4	12.9	15.6	14.6	10.9	9.7
	Male	26.8	27.8	29.8	25.7	26.6	22.2	14.9	17.7	15.6	12.8	11.5
	Female	18.1	22.9	18.7	16.3	19.2	15.7	11.5	14.1	13.7	9.3	8.2

**TABLE 2B-2 (continued)
AGE-ADJUSTED* MORTALITY RATES BY GENDER AND YEAR FOR SELECTED LEADING CAUSES OF DEATH,
ARIZONA, 2001-2011**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
ALZHEIMER'S DISEASE**											
Total	22.5	28.0	32.5	31.3	32.7	33.4	29.6	29.8	29.5	35.1	35.2
Male	18.4	23.4	26.6	26.4	27.7	27.0	22.8	23.9	24.5	28.5	28.9
Female	25.1	30.5	35.9	34.2	35.7	47.4	34.1	33.6	32.8	39.3	39.0
DIABETES											
Total	19.9	22.3	20.3	20.7	20.1	18.9	17.0	17.0	15.7	20.1	24.8
Male	22.9	25.6	23.6	23.4	24.7	22.5	20.5	20.7	18.2	24.9	30.3
Female	17.5	19.7	17.5	18.4	16.7	15.9	13.9	13.9	13.5	16.0	20.2
CHRONIC LIVER DISEASE AND											
Total	12.3	12.1	11.5	11.1	12.7	11.4	11.3	11.7	12.2	12.3	13.4
Male	17.7	15.6	16.2	15.6	17.7	14.3	15.4	15.3	15.4	16.1	18.0
Female	7.5	8.9	7.1	6.9	8.1	8.5	7.6	8.4	9.1	8.8	9.2
NEPHRITIS, NEPHROTIC SYNDROME, AND NEPHROSIS**											
Total	12.0	11.3	10.1	11.0	10.4	8.8	7.6	7.1	7.7	7.6	6.0
Male	15.6	12.9	12.0	13.4	12.7	10.5	8.8	8.6	9.2	9.0	7.2
Female	9.7	10.4	8.8	9.4	8.8	7.4	6.6	5.9	6.5	6.4	5.1
INTENTIONAL SELF-HARM (SUICIDE)											
Total	14.9	15.9	14.6	14.9	15.4	15.4	15.4	14.8	16.1	16.7	17.2
Male	24.6	26.4	24.0	24.1	24.9	24.7	24.4	23.0	24.6	27.1	27.4
Female	5.6	6.0	5.8	6.3	6.5	6.6	6.7	7.0	8.1	6.7	7.5
ASSAULT (HOMICIDE)											
Total	8.7	8.6	8.3	8.2	8.2	8.5	7.7	7.1	5.5	6.5	6.1
Male	13.7	13.9	12.8	13.3	13.5	13.5	11.8	11.2	8.0	10.5	9.6
Female	3.6	3.0	3.6	2.9	2.6	3.1	3.2	2.7	2.9	2.4	2.6
SEPTICEMIA**											
Total	7.2	8.3	8.4	8.0	8.4	8.6	8.1	7.9	7.7	7.4	4.7
Male	8.0	9.6	9.4	9.4	9.7	9.4	8.4	9.4	8.2	10.8	5.4
Female	6.5	7.2	7.6	7.0	7.5	8.0	7.9	6.7	7.3	5.1	4.0

* 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, 1990-2011**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or other Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
Total, all causes																		
1980	972.7	1241.9	755.9	962.0	1227.8	750.4	931.1	1160.5	743.7	1213.6	1502.6	952.0	1225.7	1589.1	900.6	551.7	706.6	418.8
1990	839.9	1056.7	666.4	833.8	1048.8	663.8	736.6	906.0	591.9	1092.7	1366.7	868.4	1043.2	1371.6	763.0	528.8	589.2	446.3
1991	836.9	1046.3	668.3	826.3	1031.5	661.9	797.7	1020.2	620.0	1140.9	1374.4	926.9	1003.3	1256.1	792.1	518.3	634.6	421.4
1992	840.2	1066.9	658.4	825.8	1044.8	651.7	808.7	1053.8	614.6	1140.1	1455.5	877.4	1058.7	1345.0	815.1	550.5	674.3	450.6
1993	866.4	1081.0	691.0	852.7	1060.9	682.5	852.6	1096.9	663.2	1041.6	1295.4	828.6	1078.4	1377.8	830.6	651.9	705.1	611.6
1994	846.6	1049.8	677.9	834.7	1031.8	672.1	798.6	975.8	652.6	1133.0	1486.6	841.7	1012.7	1285.8	779.8	675.6	836.4	556.9
1995	835.5	1026.0	675.3	823.1	1008.9	668.2	823.7	1021.1	659.6	1110.4	1411.2	867.0	1010.4	1192.0	846.8	595.8	804.1	438.2
1996	829.3	1020.7	672.0	817.6	1006.4	663.6	833.7	981.1	622.8	1038.4	1224.6	890.7	1047.2	1282.1	848.7	378.7	456.6	321.3
1997	809.5	975.5	668.6	798.4	954.8	666.1	789.1	1010.8	613.5	1040.2	1252.1	859.6	972.9	1177.6	795.4	426.3	530.3	351.1
1998	807.6	978.4	665.4	794.5	959.6	657.2	804.1	990.0	654.6	1017.9	1253.7	840.8	990.7	1230.3	789.4	460.3	499.5	429.0
1999	811.0	982.6	668.7	792.3	957.4	656.1	794.6	995.4	635.5	1025.4	1254.3	842.9	1017.5	1176.1	877.9	434.8	511.7	378.4
2000	785.6	941.1	654.6	776.6	930.6	647.3	769.9	926.0	642.4	1057.5	1263.1	890.3	1011.4	1240.4	818.7	504.1	544.0	451.5
2001	791.2	952.4	656.7	778.1	936.3	647.1	787.6	958.7	644.5	1050.6	1211.7	923.5	1010.5	1213.3	836.9	560.7	592.9	517.2
2002	796.4	964.8	658.0	786.7	948.7	654.4	811.1	1007.5	651.5	951.5	1170.1	759.6	975.1	1201.3	792.3	560.4	661.8	452.6
2003	784.0	942.8	651.5	764.9	921.4	636.0	839.5	1007.3	698.7	1048.6	1201.7	901.9	900.7	1057.7	761.4	497.2	522.0	478.7
2004	757.3	909.0	632.0	734.6	885.2	612.8	834.0	1006.6	691.5	1021.7	1149.2	895.8	879.2	1040.6	741.7	557.5	446.5	715.3
2005	772.5	925.7	644.9	744.6	894.4	622.3	849.2	1062.1	679.8	1053.1	986.6	1125.9	1006.6	1215.2	835.6	629.5	670.8	593.1
2006	727.3	861.6	611.8	728.5	854.4	621.1	685.6	837.3	556.0	885.1	1109.5	693.6	744.5	933.9	593.0	393.4	478.0	340.5
2007	663.2	773.8	561.7	665.1	777.7	563.2	603.7	705.7	509.3	719.2	739.1	691.2	752.5	928.8	605.2	356.3	1008.6	342.1
2008	659.6	777.6	554.3	660.1	780.7	553.9	606.9	704.0	515.8	710.7	746.4	670.5	766.3	937.9	620.0	427.0	529.7	359.0
2009	653.2	763.9	555.1	647.3	761.9	546.8	614.9	712.3	528.4	736.8	728.4	736.1	823.5	972.5	695.0	472.8	561.7	408.7
2010	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
2011	699.6	817.1	595.3	741.5	810.1	595.9	656.4	781.9	549.7	833.6	981.9	718.5	765.5	871.4	669.5	436.7	521.8	377.8
Cardiovascular diseases																		
1980	450.3	556.9	363.4	459.1	567.6	370.6	416.4	517.3	337.1	510.4	615.4	418.0	281.3	373.6	199.5	310.5	375.0	251.9
1990	338.6	410.6	280.7	343.6	417.5	284.2	285.7	347.2	236.0	446.1	492.3	411.6	269.0	365.5	190.7	188.2	180.4	189.7
1991	328.9	397.0	271.5	331.2	401.0	272.4	306.1	370.0	252.6	467.2	495.5	432.1	248.0	308.2	200.8	217.4	259.1	181.9
1992	329.2	402.3	269.6	328.7	403.3	267.8	318.0	387.0	263.8	503.7	602.1	425.1	280.7	360.5	216.0	206.2	226.1	191.9
1993	339.9	408.5	282.4	341.1	413.4	280.0	317.3	384.2	266.5	408.2	438.8	379.2	293.3	323.2	269.4	301.2	327.6	281.1
1994	324.1	387.3	269.9	325.4	389.5	269.8	298.5	359.6	252.6	438.2	507.7	371.4	287.6	369.8	222.0	279.8	309.9	256.7
1995	318.3	380.6	266.3	318.8	384.6	264.0	319.5	356.4	286.2	407.9	477.7	352.9	269.0	298.3	243.6	236.9	349.8	152.1
1996	307.1	373.1	253.1	309.6	377.4	254.0	285.3	361.6	226.2	385.6	406.2	364.3	267.9	323.4	224.1	134.8	183.0	99.33
1997	297.3	349.6	252.6	298.4	351.2	253.0	300.4	358.3	255.3	355.5	384.4	326.1	237.6	268.9	211.5	165.0	217.1	128.5
1998	296.2	356.4	246.3	295.2	356.0	244.2	297.6	358.7	252.2	420.5	512.3	348.6	259.1	336.2	198.2	173.5	175.3	177.4
1999	289.7	349.8	240.1	289.5	350.5	238.5	283.5	352.2	234.1	384.3	432.7	342.8	241.0	290.8	201.4	164.9	172.0	159.9
2000	276.1	333.1	230.0	276.0	335.8	227.7	273.6	320.8	236.1	411.5	460.3	374.6	257.5	308.3	218.7	190.6	197.0	183.2
2001	267.3	321.6	223.0	265.8	322.0	220.1	281.4	325.8	242.8	388.1	422.3	354.6	234.1	275.6	202.5	184.3	190.8	179.9
2002	265.5	321.1	221.0	266.1	323.2	220.0	276.3	321.8	240.0	329.8	402.1	269.0	216.2	257.6	184.4	218.4	280.4	173.5
2003	258.4	310.3	215.8	257.2	309.3	214.2	278.2	339.9	230.3	390.1	426.5	348.3	188.6	239.3	150.6	145.3	137.2	150.7
2004	248.5	298.4	207.8	243.1	295.7	200.6	284.1	331.4	247.0	372.5	365.2	363.2	214.6	254.7	181.0	200.3	158.8	259.2
2005	245.7	298.2	203.8	241.3	295.8	198.2	266.1	331.8	217.5	343.3	304.3	385.9	235.6	279.7	201.6	243.0	244.9	241.3
2006	216.4	258.3	181.0	218.2	258.9	183.3	203.2	243.8	170.2	310.3	443.9	208.0	167.0	213.0	131.3	136.2	159.0	122.9
2007	194.4	227.5	164.3	196.9	234.0	163.5	179.8	201.8	159.1	225.9	210.0	239.7	155.0	181.8	132.4	108.9	265.9	108.3
2008	194.1	235.8	158.1	196.3	240.6	158.3	184.8	218.8	153.8	219.6	235.0	205.2	150.4	172.8	133.7	121.4	132.3	114.1
2009	188.8	228.1	154.9	188.3	229.4	152.9	179.8	211.3	151.9	245.7	228.8	252.2	164.2	209.1	130.0	150.8	182.3	127.9
2010	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
2011	201.0	239.2	168.0	212.6	239.9	167.1	193.4	223.9	168.0	266.1	329.3	219.6	149.2	160.8	136.3	122.4	148.6	103.7
----Diseases of heart																		
1980	346.3	444.5	266.2	353.6	454.3	271.8	307.3	395.1	237.0	392.5	462.7	328.2	236.1	323.6	159.3	268.1	375.0	177.0
1990	263.8	330.7	210.3	268.3	336.8	213.2	222.0	285.2	172.9	343.0	381.9	311.5	207.1	289.3	140.3	135.0	143.5	130.8
1991	254.3	319.1	201.0	257.8	324.2	203.2	229.2	295.6	175.8	362.5	388.4	328.1	179.5	234.2	135.5	128.3	149.0	111.4
1992	257.2	324.0	202.9	257.3	325.7	201.7	245.2	306.5	196.7	386.5	473.1	317.6	224.7	295.5	167.2	167.3	187.6	154.4
1993	265.1	332.8	209.6	266.5	337.5	207.8	246.3	301.5	203.6	317.3	386.4	262.9	228.7	273.1	194.1	203.2	203.2	206.6
1994	248.3	307.6	198.5	250.4	310.7	199.2	225.5	273.0	189.5	325.1	403.8	255.3	215.5	290.3	155.6	184.5	241.8	141.9
1995	243.3	302.9	194.1	244.5	307.8	192.5	241.6	279.8	207.7	316.0	373.6	268.8	201.5	221.6	182.1	155.3	215.5	109.9
1996	230.7	292.8	180.8	233.4	298.0	181.3	210.7	279.0	158.1	282.6	305.7	263.7	191.9	236.9	156.6	103.1	124.4	87.1
1997	221.6	272.1	179.2	223.3	275.9	179.2	214.6	253.2	182.8	271.4	290.1	249.7	185.9	213.7	162.1	119.3	173.2	80.1
1998	219.0	275.2	172.5	218.5	275.6	170.6	223.2	281.5	180.4	317.4	375.4	271.6	192.4	273.2	129.0	81.2	52.6	106.8
1999	213.9	269.4	168.5	215.1	271.5	168.3	204.4	259.8	163.3	281.1	323.0	246.0	177.0	237.1	131.3	95.4	95.1	95.8
2000	206.1	259.3	163.6	207.2	263.2	162.5	204.7	247.2	171.4	289.5	312.8	267.0	183.8	229.5	148.5	132.3	146.1	118.8
2001	201.7	251.3	161.5	202.1	252.9	160.9	206.1	255.8	165.4	273.6	300.5	248.5	177.7	218.4	146.8	116.1	116.8	116.0
2002	201.0	253.6	158.9	203.0	257.8	159.0	201.2	239.2	170.5	237.0	311.6	178.6	164.0	201.2	134.3	145.6	177.8	122.0
2003	197.1	246.6	157.1	197.9	248.4	157.2	198.5	252.7	155.9	299.4	335.2	259.2	141.9	181.6	111.0	97.6	88.8	103.5
2004	186.7	234.2	1															

TABLE 2B-3 (continued)
AGE-ADJUSTED* MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 1980, 1990-2011

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or other Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
-----Cerebrovascular diseases																		
1980	74.9	75.9	73.8	76.4	76.0	75.8	72.5	79.8	68.2	89.3	105.8	77.0	36.2	50.0	23.5	42.4	0.0	74.9
1990	54.6	54.6	54.1	55.0	54.7	54.8	45.2	40.7	46.9	76.6	84.7	73.2	48.8	63.0	37.5	44.7	23.5	54.5
1991	53.9	54.1	52.4	53.3	53.3	51.9	47.3	42.6	49.0	71.6	74.4	68.0	59.9	66.2	56.1	66.9	83.7	53.6
1992	51.7	55.0	49.3	51.2	53.6	49.3	51.5	63.4	43.5	77.6	86.1	70.4	43.1	49.3	38.2	30.6	38.5	22.0
1993	55.0	51.9	56.0	54.8	51.8	55.6	52.4	59.3	48.1	51.8	29.9	66.0	52.8	36.6	65.1	68.0	70.9	64.0
1994	54.7	55.5	53.1	54.3	54.9	52.7	54.2	61.7	48.6	63.6	62.3	64.1	47.7	48.5	46.8	75.6	46.1	96.6
1995	53.9	52.8	54.0	53.1	51.2	53.7	57.3	58.5	56.6	64.6	73.8	58.4	54.3	64.7	47.3	54.2	79.5	35.4
1996	54.8	55.9	53.0	54.4	54.7	53.2	53.8	61.4	48.7	77.9	71.2	78.0	59.7	68.2	52.6	31.1	57.2	12.2
1997	54.9	52.5	55.8	54.1	50.2	56.0	64.6	77.6	55.3	64.3	72.7	58.7	37.2	37.3	37.8	33.9	20.2	45.5
1998	52.2	52.3	51.9	51.8	51.5	52.0	49.8	50.6	48.7	58.8	69.1	50.6	49.5	44.8	52.8	75.7	112.1	49.0
1999	48.5	50.2	46.9	47.6	49.0	46.0	52.5	60.8	47.2	63.8	70.8	56.3	39.7	32.2	44.5	36.7	35.0	37.5
2000	51.7	50.8	51.8	50.8	49.3	51.4	51.2	54.4	48.3	82.4	101.5	71.6	55.3	60.2	51.9	46.1	45.0	47.8
2001	47.7	48.3	46.8	46.2	47.1	45.0	55.4	50.8	57.7	79.6	80.0	76.2	44.3	46.6	42.9	51.1	49.2	52.1
2002	47.0	47.3	46.7	45.9	45.3	46.2	53.9	62.6	47.8	69.6	57.9	72.9	39.4	46.5	34.7	57.6	72.6	46.9
2003	43.9	42.9	43.8	41.7	40.1	42.1	61.9	65.7	59.2	69.0	60.6	73.5	36.4	45.8	29.9	35.9	42.5	31.1
2004	43.6	42.7	43.6	41.4	40.6	41.3	61.3	62.4	60.1	71.5	69.0	69.1	27.5	20.1	31.8	45.1	31.6	64.4
2005	40.6	40.0	40.5	38.8	38.1	38.8	51.0	59.8	44.3	66.0	40.3	94.1	32.3	29.9	33.7	64.6	49.0	78.3
2006	34.8	33.4	35.2	34.1	31.3	35.5	37.3	43.9	32.1	58.2	86.0	41.1	27.0	32.8	23.0	18.4	6.8	25.9
2007	30.6	27.7	32.2	29.7	26.9	31.2	34.9	30.0	37.8	34.1	30.9	36.5	22.0	23.9	20.3	37.7	85.6	40.0
2008	30.3	29.6	30.5	29.2	28.0	29.9	33.6	34.6	32.0	40.0	42.9	38.9	23.5	26.2	21.8	36.2	32.8	38.9
2009	28.9	28.2	29.1	27.5	26.6	27.9	33.8	34.3	32.7	42.8	31.4	54.5	24.7	33.5	20.0	39.2	43.6	35.9
2010	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
2011	30.6	28.0	32.3	30.4	26.2	30.7	34.9	33.3	35.6	56.5	43.3	64.3	29.7	24.8	33.1	29.1	34.2	26.2
Malignant neoplasms																		
1980	191.3	242.3	154.6	197.7	253.8	157.9	160.3	175.0	150.2	214.3	272.3	167.0	107.0	122.0	94.0	41.4	67.4	22.2
1990	190.4	238.8	156.2	195.1	245.9	160.0	162.6	185.3	143.4	244.2	360.7	155.6	122.1	123.1	121.0	109.3	132.4	86.1
1991	197.7	246.5	163.2	203.7	253.3	169.1	162.4	204.1	132.3	252.6	333.9	187.6	130.9	158.1	109.7	135.2	149.6	128
1992	194.0	244.5	157.7	198.8	250.0	161.9	170.7	210.8	142.6	258.2	378.8	168.9	116.1	126.7	108.4	118.6	155.9	86.1
1993	193.2	240.6	159.8	198.0	245.5	164.4	180.9	242.4	140.2	196.3	241.0	160.3	129.8	143.3	120.0	131.4	154.5	113.3
1994	190.9	238.2	157.5	196.9	246.3	161.8	156.3	184.7	137.7	224.1	310.8	164.6	108.5	121.2	98.9	170.5	254.3	109.9
1995	183.2	224.8	153.4	187.2	228.1	157.9	160.9	220.2	120.3	247.1	330.0	187.8	133.5	151.9	119.2	171.1	181.2	165.3
1996	183.6	228.5	151.2	188.8	234.7	155.7	160.6	206.7	129.1	228.5	304.6	175.2	139.8	146.3	135.6	77.0	102.1	59.2
1997	178.8	217.2	150.8	184.5	221.2	157.8	146.4	199.7	108.1	241.9	343.2	175.5	116.0	146.2	92.8	88.5	84.5	93.0
1998	174.5	211.2	147.8	179.2	216.0	152.4	150.8	184.9	124.8	222.4	293.1	183.4	117.0	134.2	104.1	114.0	110.0	115.2
1999	176.7	212.6	150.5	182.2	218.0	155.6	145.9	179.9	122.6	214.4	302.2	156.7	114.1	128.1	104.0	95.5	120.2	79.3
2000	170.4	204.0	145.8	174.8	208.1	150.0	156.9	201.5	126.0	216.1	274.7	178.0	123.0	142.7	107.2	103.4	103.6	103.1
2001	169.2	199.8	147.5	173.1	203.7	151.4	155.6	196.8	126.9	213.0	247.6	195.0	121.7	128.8	115.4	147.0	175.5	127.1
2002	168.6	209.1	139.1	172.4	213.2	142.5	156.3	211.2	118.0	222.7	290.3	176.0	117.6	125.8	112.5	116.5	126.5	108.5
2003	169.4	208.3	141.3	171.2	212.4	141.2	168.5	209.2	140.1	218.5	245.6	200.8	120.7	112.6	126.7	132.9	132.8	132.6
2004	164.7	201.2	138.6	165.4	202.9	138.1	161.6	218.1	123.6	227.7	274.2	200.5	139.3	150.9	131.8	111.0	72.9	165.2
2005	161.8	197.1	136.1	162.4	197.6	136.8	165.9	217.1	130.8	217.9	216.7	219.3	122.2	159.7	97.5	112.7	122.5	104.0
2006	154.7	187.0	131.0	162.8	195.5	138.4	124.7	160.9	98.7	163.5	216.0	127.7	83.1	93.9	79.5	82.0	113.2	64.1
2007	148.0	176.7	125.6	154.6	184.4	131.1	118.6	144.3	99.0	153.4	178.3	135.2	113.9	135.0	100.1	84.2	248.1	81.6
2008	145.5	173.8	123.0	150.4	179.7	127.0	123.8	151.9	101.5	149.2	150.1	146.3	106.7	126.4	93.2	104.4	149.4	74.0
2009	147.2	174.9	125.8	151.1	179.8	128.7	128.4	157.1	105.9	153.1	160.3	154.2	113.3	127.5	103.5	108.1	122.0	98.7
2010	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
2011	151.3	179.3	129.5	170.3	182.2	132.4	136.3	176.0	107.3	167.1	170.6	169.0	100.8	116.3	90.9	116.6	126.2	110.2
-----Lung cancer																		
1980	49.3	78.1	26.8	52.6	83.6	28.8	30.0	43.3	18.9	55.5	84.3	28.7	9.3	11.7	6.8	0.0	0.0	0.0
1990	51.7	71.9	36.5	55.1	75.9	39.6	31.5	41.9	22.7	66.2	123.1	19.9	8.7	12.7	5.4	30.5	53.6	8.8
1991	54.5	76.4	37.7	58.7	80.4	42.0	30.2	53.2	14.2	71.3	129.4	25.5	11.3	23.0	1.8	28.5	45.2	16.9
1992	54.5	76.4	37.8	58.5	81.1	41.3	33.6	52.4	19.7	67.0	102.0	36.8	7.1	10.2	4.7	26.3	18.5	32.2
1993	53.4	75.4	36.5	58.0	80.6	40.6	31.5	50.1	17.6	49.4	91.4	14.6	12.6	13.7	11.7	16.9	22.5	13.9
1994	52.2	71.5	37.2	56.3	76.3	40.8	28.9	40.1	20.3	64.9	107.1	34.0	8.8	15.3	3.6	28.5	65.4	0.0
1995	50.8	68.3	37.3	54.1	71.3	40.7	29.3	48.7	15.3	78.3	127.9	41.4	14.0	23.8	6.2	35.9	39.3	34.1
1996	51.4	69.3	37.2	55.3	73.4	40.8	29.1	50.9	14.1	62.7	92.7	39.2	11.2	16.4	6.7	14.5	16.3	13.6
1997	50.2	66.4	37.9	54.0	69.3	42.2	26.3	48.3	10.8	75.1	127.4	37.4	12.4	19.8	6.7	17.1	29.7	8.0
1998	48.4	62.4	37.6	52.0	65.8	41.2	29.2	45.4	17.5	58.3	81.2	43.6	11.3	12.2	10.4	33.2	48.9	20.0
1999	51.0	65.8	39.6	55.4	70.2	43.8	28.0	43.1	17.5	45.0	76.2	23.5	11.6	12.6	10.9	24.1	46.0	8.8
2000	46.1	59.2	35.8	49.1	61.9	39.1	31.6	49.6	18.1	65.8	79.8	52.1	8.9	13.1	5.5	29.6	29.0	29.8
2001	44.5	54.8	36.4	47.6	57.0	40.2	29.2	49.4	14.4	55.7	78.9	39.5	9.8	11.9	8.1	41.7	62.8	27.1
2002	46.6	58.6	37.1	50.1	62.4	40.4	27.7	40.0	18.3	61.2	74.7	49.5	13.1	13.4	13.0	24.7	24.5	24.6
2003	47.4	61.0	37.1	50.6	64.0	40.3	33.5	49.6	21.5	59.4	80.8	45.6	13.2	17.2	10.3	21.9	26.3	18.5
2004	45.4	57.3	36.3	48.2	59.6	39.3	29.4	49.4	14.7	61.4	74.4	53.0	17.3	21.5	14.2	21.5	15.7	30.3
2005	43.0	54.1	34.4	45.9	56.8	37.4	29.0	45.0	17.3	53.0	58.6	46.8	6.5	9.0	4.7	19.7	18.8	20.4
2006	42.7	53.5	34.2	47.4	58.6	38.5	21.4	31.6	13.8	45.9	65.9	33.9	4.7	4.3	4.9	18.4	32.5	9.2
2007	38.2	47.2	30.9	42.4	51.7	34.8	20.5	30.4	12.4	39.6	46.3	35.7	9.9	14.2	6.8	21.5	48.0	23.1
2008	38.5	47.7	31.2	42.3	51.7	34.8	20.0	27.7	13.7	37.1	45.4	27.8	11.2	10.1				

TABLE 2B-3 (continued)
AGE-ADJUSTED* MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 1980, 1990-2011

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or other Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
-----Colorectal cancer																		
1980	22.9	26.7	19.9	24.4	28.6	21.0	15.3	18.0	13.0	14.1	12.4	14.7	3.6	2.4	4.5	13.4	33.3	0.0
1990	19.4	22.1	17.1	19.9	23.3	17.1	17.4	14.7	18.3	24.8	20.1	29.9	1.1	2.4	0.0	6.8	9.3	4.9
1991	19.1	23.0	16.2	19.4	23.5	16.4	20.2	21.2	19.1	18.1	12.7	22.0	9.2	16.4	3.4	13.3	15.6	13.0
1992	17.1	21.6	13.7	17.5	21.8	14.1	16.0	38.7	10.6	27.9	38.7	22.9	6.4	5.5	7.0	7.5	14.9	2.0
1993	18.3	22.4	15.1	18.7	23.0	15.4	16.9	20.7	13.7	23.5	33.9	16.2	5.8	1.5	9.1	14.0	4.0	21.5
1994	18.7	21.7	16.3	19.4	22.4	17.0	16.4	17.3	15.8	18.1	30.9	7.7	8.2	6.7	9.3	14.1	20.0	10.4
1995	18.8	20.7	17.1	19.3	21.4	17.5	13.7	15.5	11.7	26.4	25.1	27.5	13.2	7.8	17.4	15.2	32.4	2.7
1996	19.6	24.6	15.9	19.8	25.0	15.8	19.7	23.7	16.8	36.2	36.9	37.9	11.3	18.5	6.0	0.0	0.0	0.0
1997	18.3	22.0	15.4	18.8	22.4	16.0	14.5	19.8	10.3	27.2	27.1	26.4	6.9	9.1	5.1	20.3	7.5	30.7
1998	20.3	25.7	16.0	20.2	25.6	16.1	20.4	27.0	14.9	41.8	39.8	20.7	10.5	9.8	10.3	16.4	6.4	23.2
1999	19.1	23.5	15.6	19.2	23.7	15.8	17.3	20.3	14.4	31.2	38.1	24.3	6.8	4.3	8.5	3.6	5.0	2.6
2000	17.0	20.5	14.1	17.4	20.7	14.6	16.4	20.5	13.5	16.3	26.3	9.7	8.2	15.1	2.7	6.6	12.9	2.2
2001	16.7	19.0	14.8	16.9	19.0	15.2	16.6	22.1	12.9	27.4	26.2	25.2	7.2	7.8	6.3	10.6	15.3	7.2
2002	16.5	20.6	13.4	16.9	21.0	13.6	16.2	23.4	11.7	26.4	36.4	19.8	9.1	7.9	9.3	9.7	13.9	7.0
2003	17.9	21.8	14.7	17.9	22.0	14.4	21.2	25.5	17.9	26.3	22.3	28.2	6.3	10.2	3.7	3.0	4.8	1.8
2004	15.3	18.9	12.6	15.5	19.2	12.8	13.1	15.8	11.5	27.3	41.2	16.9	9.3	14.1	5.6	11.0	7.7	15.9
2005	15.4	18.9	12.8	15.2	18.8	12.5	17.6	21.5	14.8	27.0	23.7	30.6	7.5	10.0	6.0	12.5	18.7	7.1
2006	14.6	18.1	12.0	15.1	18.9	12.0	14.2	15.8	13.1	14.9	21.1	10.1	4.7	3.5	5.5	6.5	11.4	3.9
2007	14.4	17.7	11.5	15.0	18.1	12.3	12.0	16.5	8.6	15.7	19.3	11.8	8.0	10.6	5.3	9.4	28.7	9.8
2008	13.1	15.1	11.3	13.2	15.0	11.4	13.2	15.5	11.2	16.4	20.3	13.0	11.1	11.9	10.9	8.6	14.9	4.2
2009	12.9	14.9	11.2	12.9	15.1	11.0	13.8	16.7	11.5	14.1	14.0	14.9	8.5	7.4	9.1	13.8	16.4	12.5
2010	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
2011	13.4	15.4	11.6	14.4	15.3	11.4	13.6	16.5	11.2	20.2	12.6	25.6	9.9	12.0	7.4	14.3	16.2	12.7
-----Female breast cancer																		
1980	NA	NA	31.1	NA	NA	33.7	NA	NA	18.2	NA	NA	34.0	NA	NA	4.7	NA	NA	0.0
1990	NA	NA	29.5	NA	NA	31.3	NA	NA	27.5	NA	NA	16.3	NA	NA	3.2	NA	NA	0.0
1991	NA	NA	28.3	NA	NA	30.3	NA	NA	14.5	NA	NA	25.7	NA	NA	15.5	NA	NA	24.6
1992	NA	NA	28.0	NA	NA	30.3	NA	NA	16.6	NA	NA	22.9	NA	NA	8.8	NA	NA	3.9
1993	NA	NA	29.2	NA	NA	30.6	NA	NA	19.3	NA	NA	42.7	NA	NA	16.6	NA	NA	8.7
1994	NA	NA	28.6	NA	NA	29.2	NA	NA	23.1	NA	NA	41.3	NA	NA	9.2	NA	NA	25.5
1995	NA	NA	23.7	NA	NA	24.5	NA	NA	16.7	NA	NA	31.2	NA	NA	9.9	NA	NA	49.0
1996	NA	NA	24.1	NA	NA	24.8	NA	NA	19.9	NA	NA	39.0	NA	NA	18.2	NA	NA	4.8
1997	NA	NA	26.5	NA	NA	27.8	NA	NA	22.3	NA	NA	38.4	NA	NA	9.6	NA	NA	2.1
1998	NA	NA	24.8	NA	NA	26.3	NA	NA	20.1	NA	NA	28.9	NA	NA	7.7	NA	NA	7.0
1999	NA	NA	24.4	NA	NA	25.9	NA	NA	15.7	NA	NA	32.8	NA	NA	9.9	NA	NA	13.5
2000	NA	NA	25.4	NA	NA	26.2	NA	NA	20.7	NA	NA	29.5	NA	NA	12.1	NA	NA	12.8
2001	NA	NA	23.6	NA	NA	24.7	NA	NA	17.5	NA	NA	55.8	NA	NA	11.7	NA	NA	12.7
2002	NA	NA	22.2	NA	NA	22.5	NA	NA	18.7	NA	NA	42.3	NA	NA	9.6	NA	NA	17.7
2003	NA	NA	22.1	NA	NA	22.3	NA	NA	18.9	NA	NA	41.2	NA	NA	16.4	NA	NA	19.6
2004	NA	NA	21.4	NA	NA	21.4	NA	NA	18.0	NA	NA	32.2	NA	NA	18.4	NA	NA	35.2
2005	NA	NA	20.7	NA	NA	20.5	NA	NA	19.8	NA	NA	35.7	NA	NA	14.9	NA	NA	17.3
2006	NA	NA	21.6	NA	NA	23.2	NA	NA	14.0	NA	NA	25.7	NA	NA	6.9	NA	NA	7.5
2007	NA	NA	20.1	NA	NA	20.5	NA	NA	16.9	NA	NA	23.9	NA	NA	16.2	NA	NA	11.3
2008	NA	NA	19.8	NA	NA	20.6	NA	NA	15.1	NA	NA	38.0	NA	NA	11.6	NA	NA	7.1
2009	NA	NA	19.2	NA	NA	19.8	NA	NA	16.4	NA	NA	30.7	NA	NA	11.6	NA	NA	5.9
2010	NA	NA	19.2	NA	NA	19.9	NA	NA	18.5	NA	NA	25.8	NA	NA	8.2	NA	NA	12.9
2011	NA	NA	19.7	NA	NA	20.8	NA	NA	12.2	NA	NA	24.1	NA	NA	7.5	NA	NA	15.6
-----Prostate cancer																		
1980	NA	29.4	NA	NA	29.3	NA	NA	32.2	NA	NA	45.9	NA	NA	28.0	NA	NA	0.0	NA
1990	NA	34.0	NA	NA	34.1	NA	NA	28.3	NA	NA	94.9	NA	NA	20.4	NA	NA	13.9	NA
1991	NA	36.1	NA	NA	36.9	NA	NA	24.8	NA	NA	77.0	NA	NA	21.3	NA	NA	27.7	NA
1992	NA	33.0	NA	NA	32.7	NA	NA	32.5	NA	NA	89.0	NA	NA	20.2	NA	NA	12.7	NA
1993	NA	34.2	NA	NA	34.0	NA	NA	40.9	NA	NA	29.1	NA	NA	27.6	NA	NA	29.0	NA
1994	NA	32.4	NA	NA	32.9	NA	NA	29.3	NA	NA	45.0	NA	NA	14.9	NA	NA	17.2	NA
1995	NA	34.8	NA	NA	34.4	NA	NA	39.9	NA	NA	58.6	NA	NA	26.8	NA	NA	25.2	NA
1996	NA	31.0	NA	NA	31.4	NA	NA	30.7	NA	NA	57.8	NA	NA	10.3	NA	NA	22.9	NA
1997	NA	29.7	NA	NA	30.0	NA	NA	24.8	NA	NA	76.9	NA	NA	11.0	NA	NA	19.2	NA
1998	NA	26.5	NA	NA	25.4	NA	NA	28.9	NA	NA	82.6	NA	NA	20.4	NA	NA	20.2	NA
1999	NA	23.7	NA	NA	23.8	NA	NA	23.0	NA	NA	46.9	NA	NA	11.3	NA	NA	16.6	NA
2000	NA	28.4	NA	NA	28.0	NA	NA	30.0	NA	NA	74.8	NA	NA	27.1	NA	NA	8.9	NA
2001	NA	24.3	NA	NA	24.1	NA	NA	26.3	NA	NA	45.0	NA	NA	14.0	NA	NA	24.2	NA
2002	NA	24.8	NA	NA	24.1	NA	NA	35.3	NA	NA	48.6	NA	NA	12.5	NA	NA	8.4	NA
2003	NA	25.1	NA	NA	25.2	NA	NA	22.4	NA	NA	41.2	NA	NA	21.0	NA	NA	7.6	NA
2004	NA	24.0	NA	NA	22.6	NA	NA	35.0	NA	NA	54.6	NA	NA	31.2	NA	NA	6.1	NA
2005	NA	23.8	NA	NA	23.5	NA	NA	30.6	NA	NA	20.4	NA	NA	23.5	NA	NA	5.1	NA
2006	NA	20.1	NA	NA	19.2	NA	NA	25.9	NA	NA	34.9	NA	NA	16.9	NA	NA	24.0	NA
2007	NA	18.9	NA	NA	19.5	NA	NA	15.8	NA	NA	23.6	NA	NA	16.6	NA	NA	19.4	NA
2008	NA	19.1	NA	NA	18.9	NA	NA	20.3	NA	NA	20.5	NA	NA	14.7	NA	NA	25.5	NA
2009	NA	18.4	NA	NA	18.2	NA	NA	20.0	NA	NA	28.9	NA	NA	16.4	NA	NA	2.1	NA
2010	NA	19.1	NA	NA	18.4	NA	NA	23.9	NA	NA	35.2	NA	NA	21.6	NA	NA	12.6	NA
2011	NA	19.8	NA	NA	19.5	NA	NA	20.6	NA	NA	24.1	NA	NA	17.1	NA	NA	5.0	NA

TABLE 2B-3 (continued)
AGE-ADJUSTED* MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 1980, 1990-2011

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or other Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
Chronic lower respiratory diseases**																		
1980	47.4	76.6	25.3	50.9	81.2	27.7	26.0	52.7	6.9	34.2	56.3	16.8	15.4	25.8	6.8	9.2	17.5	0.0
1990	44.4	58.2	35.0	47.7	62.5	37.9	19.9	26.7	15.3	29.7	48.6	15.6	16.4	18.9	14.6	32.6	27.9	32.6
1991	46.4	63.6	35.0	49.4	67.2	37.8	25.6	38.8	16.4	55.1	89.9	27.9	18.3	16.9	19.2	9.1	19.9	0.0
1992	43.9	57.6	34.6	47.3	61.8	37.4	19.0	29.0	12.9	34.6	61.5	15.3	13.6	8.2	17.7	19.6	25.2	15.5
1993	48.5	63.4	38.0	51.3	66.4	40.8	28.4	43.3	17.7	44.9	75.3	21.9	21.4	25.2	18.8	30.3	29.4	31.4
1994	44.6	58.6	35.7	47.5	61.6	38.6	24.0	36.6	16.2	44.1	76.1	24.1	18.4	22.9	14.9	12.7	28.6	0.0
1995	46.9	57.2	39.7	49.4	59.6	42.2	29.6	42.4	20.4	39.6	72.4	20.4	22.9	21.1	24.5	25.7	55.4	2.7
1996	47.1	56.4	40.9	50.9	60.0	44.9	23.2	31.7	17.5	26.3	38.9	15.3	17.3	24.7	11.7	11.6	22.3	3.1
1997	50.1	61.5	42.2	53.9	65.4	46.1	23.2	40.4	12.2	41.8	40.3	42.2	16.7	24.3	10.6	25.7	27.6	24.0
1998	49.2	60.5	41.8	52.6	63.7	45.4	28.1	36.4	22.3	39.7	60.3	26.0	15.2	27.0	6.0	23.0	24.7	21.6
1999	50.1	59.8	43.8	53.6	63.0	47.6	23.1	33.5	16.4	44.9	76.8	26.4	19.2	15.2	22.1	15.5	23.4	9.7
2000	47.4	56.2	41.3	51.1	59.8	44.8	24.4	38.2	15.9	30.4	38.4	26.3	21.9	28.9	17.9	12.7	7.8	16.5
2001	46.9	53.9	42.2	51.0	58.1	46.2	17.7	25.4	12.5	37.9	48.9	32.2	26.8	30.0	24.3	21.4	19.2	23.0
2002	47.0	57.1	40.3	50.4	59.4	44.5	25.2	46.6	11.2	38.3	59.0	21.9	22.3	30.1	17.0	24.5	45.8	9.0
2003	45.4	53.8	40.0	48.3	56.5	42.9	28.7	39.9	22.1	30.3	39.7	23.1	19.4	20.8	18.4	15.5	34.4	2.1
2004	41.9	48.1	37.7	45.1	51.3	41.0	22.7	29.5	17.8	24.9	38.8	14.8	10.8	4.7	15.1	21.6	27.1	14.2
2005	46.8	51.3	43.5	49.6	53.6	46.7	31.6	42.7	24.0	43.9	49.4	37.9	12.0	12.9	11.4	17.9	22.6	13.8
2006	44.3	50.2	40.1	49.2	55.5	44.7	18.3	20.9	16.2	27.3	28.8	25.6	8.4	6.2	10.4	9.9	26.2	0.0
2007	39.2	43.5	36.0	43.7	47.9	40.7	18.8	26.4	13.4	18.7	10.1	26.7	13.0	20.1	8.4	7.5	19.9	6.1
2008	42.2	46.6	39.0	46.9	51.0	43.8	20.5	24.3	18.0	26.0	33.9	19.1	15.8	23.9	9.5	13.7	22.4	8.5
2009	40.5	44.7	37.1	45.0	48.7	42.1	16.4	20.2	13.4	26.8	34.1	20.8	19.2	29.5	12.3	18.0	33.4	8.1
2010	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
2011	45.9	49.7	42.8	55.3	53.3	48.5	19.5	26.5	14.7	34.8	48.5	24.7	14.4	14.7	14.4	17.2	26.4	11.9
Chronic liver disease and cirrhosis																		
1980	17.0	21.7	13.0	12.8	16.4	9.7	23.5	31.1	16.6	16.8	13.2	20.7	90.3	113.8	69.3	0.0	0.0	0.0
1990	12.4	17.3	8.3	10.3	14.1	7.1	15.4	23.2	8.4	17.4	25.3	9.0	48.6	60.2	38.1	10.8	16.4	7.1
1991	13.6	18.3	9.4	10.6	14.3	7.3	18.4	27.1	10.1	10.0	15.5	3.7	64.0	74.5	55.3	0.0	0.0	0.0
1992	12.2	16.5	8.5	9.8	13.2	7.1	15.2	22.7	7.9	13.0	17.3	7.7	52.5	61.2	44.7	12.7	23.4	3.6
1993	13.5	18.5	9.0	10.8	14.6	7.4	22.1	34.4	10.7	11.0	13.7	6.2	48.0	54.6	41.4	0.0	0.0	0.0
1994	13.9	19.1	9.0	11.1	15.0	7.6	21.3	33.4	10.2	5.8	10.4	1.1	50.3	60.5	40.8	5.8	6.8	5.1
1995	13.5	18.1	9.3	10.5	14.2	7.1	21.0	29.9	12.8	17.1	23.2	10.5	54.9	63.0	47.4	10.4	2.4	16.4
1996	12.4	16.3	8.9	10.3	14.5	6.4	18.0	20.2	15.3	9.7	13.2	6.9	46.7	44.4	47.7	1.9	4.7	0.0
1997	13.4	18.6	8.7	11.2	16.0	6.8	20.4	29.8	12.2	9.8	9.6	10.3	46.3	54.9	39.1	2.8	0.0	4.7
1998	12.4	17.7	7.6	10.2	14.4	6.5	16.5	25.9	8.0	7.9	7.7	7.4	53.5	75.4	34.5	2.6	6.3	0.0
1999	12.0	16.8	7.5	9.7	13.9	6.0	21.7	31.3	13.0	7.5	12.7	1.8	38.5	46.2	31.7	3.8	5.6	2.5
2000	12.8	17.7	8.3	10.4	14.9	6.4	15.8	20.5	11.0	6.6	7.1	5.9	61.7	80.2	45.3	4.1	6.9	2.2
2001	12.3	17.7	7.5	10.6	15.0	6.6	17.4	27.0	8.7	11.7	24.1	2.0	39.1	51.1	28.4	4.0	3.8	4.2
2002	12.1	15.6	8.9	9.9	11.9	8.0	21.6	31.9	12.3	9.8	14.6	5.5	40.5	55.6	27.5	5.3	2.9	7.0
2003	11.5	16.2	7.1	9.7	13.8	5.8	17.6	25.1	10.6	3.5	6.3	1.0	38.8	49.6	29.8	3.3	0.0	5.8
2004	11.1	15.6	6.9	8.4	11.7	5.4	18.6	26.6	10.6	6.7	7.3	6.5	51.0	68.9	36.1	3.8	7.0	2.4
2005	12.7	17.7	8.1	10.7	15.1	6.6	19.4	28.6	11.4	12.8	14.7	10.7	51.2	60.3	42.8	4.9	10.4	0.0
2006	11.4	14.3	8.5	9.6	11.8	7.6	15.5	19.9	11.1	7.2	11.6	4.2	43.6	54.3	32.7	3.1	3.8	2.5
2007	11.3	15.4	7.6	9.6	13.0	6.6	16.3	23.5	9.4	5.9	9.9	2.3	36.8	46.9	28.3	3.2	5.5	4.2
2008	11.7	15.3	8.4	10.0	13.2	7.1	15.4	19.9	11.2	7.5	9.2	5.6	40.7	52.8	30.5	1.8	2.6	1.1
2009	12.2	15.4	9.1	9.5	12.8	6.4	18.7	21.4	15.7	3.1	3.4	2.7	54.0	57.9	49.9	3.1	6.4	1.1
2010	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
2011	13.4	18.0	9.2	12.0	14.7	8.1	18.9	29.2	9.8	6.6	5.5	7.6	43.6	46.7	40.4	4.2	9.0	0.9
Diabetes																		
1980	16.0	14.4	16.9	12.8	13.0	12.6	28.3	16.3	37.4	44.5	6.3	73.7	74.6	58.4	89.1	22.4	16.7	27.9
1990	15.6	16.9	14.2	12.0	13.2	10.8	31.5	32.2	30.0	26.0	20.2	29.0	77.4	86.1	70.2	5.5	7.2	4.4
1991	16.4	18.8	14.7	13.5	16.4	11.3	31.3	32.1	30.5	37.0	27.3	44.4	60.4	55.3	64.5	20.8	48.1	13.9
1992	17.6	18.9	16.4	13.4	14.7	12.3	41.5	46.4	37.6	34.5	26.4	41.3	74.1	77.2	71.6	2.2	5.8	0.0
1993	16.6	16.5	16.5	13.3	13.5	12.9	33.3	28.7	36.5	40.5	55.1	30.0	61.4	60.7	61.5	21.4	6.3	34.4
1994	18.7	19.5	17.7	14.9	16.5	13.5	35.2	31.6	38.1	36.1	32.3	35.3	79.3	73.7	82.6	9.3	4.2	13.5
1995	18.8	19.4	18.4	15.0	16.0	14.2	38.8	39.4	38.3	50.0	38.3	56.6	65.2	52.2	74.8	11.0	21.8	2.7
1996	20.1	21.6	19.1	15.8	18.4	13.9	38.6	39.8	38.6	60.6	48.6	72.2	68.3	58.7	75.8	9.4	3.7	13.6
1997	20.4	21.5	19.4	15.3	17.0	13.9	46.7	48.4	45.5	45.3	31.5	53.1	80.2	69.0	88.9	30.4	39.7	24.5
1998	20.8	24.2	18.1	16.4	20.5	13.2	45.3	45.4	45.0	34.1	20.3	41.4	78.4	79.4	76.6	13.5	13.3	12.9
1999	21.1	25.0	18.3	15.9	20.7	12.4	48.2	48.7	46.9	44.4	43.4	47.0	88.3	70.5	101.9	12.3	15.3	10.1
2000	19.0	21.0	17.2	14.9	17.4	12.6	41.1	41.9	40.6	46.0	40.9	47.4	74.6	74.1	74.2	19.5	10.9	26.1
2001	19.9	22.9	17.5	15.4	19.2	12.2	42.9	43.5	42.3	55.7	42.2	64.1	72.8	71.2	73.9	14.8	3.0	23.3
2002	22.3	25.6	19.7	18.0	21.8	15.1	45.6	49.1	42.6	41.0	46.4	37.2	80.8	69.2	88.6	21.9	15.7	26.3
2003	20.3	23.6	17.5	16.5	20.6	13.1	39.1	35.9	40.9	53.6	55.0	49.8	55.8	48.2	60.3	15.7	22.2	11.6
2004	20.7	23.4	18.4	16.8	19.7	14.4	43.5	44.2	42.0	44.8	47.7	42.6	59.0	58.4	58.8	30.0	29.1	31.6
2005	20.1	24.7	16.7	15.5	20.2	12.1	46.0	49.9	42.4	55.2	56.2	54.0	69.9	73.5	68.2	17.8	17.7	18.0
2006	18.9	22.5	15.9	15.2	18.4	12.5	40.4	46.1	35.3	43.9	49.7	42.3	43.9	49.3	39.5	10.9	9.7	11.4
2007	17.0	20.5	13.9	13.7	17.4	10.4	30.8	32.6	28.9	30.3	32.0	30.0	51.1	61.1	42.1	5.1	12.8	4.4
2008	17.0	20.7	13.9	13.8	17.9	10.5	29.1	29.7	27.7	30.8	35.4	29.2	50.8	47.9	52.5	16.1	22.9	12.3
2009	15.7	18.2	13.5	12.2	15.5	9.4	28.1	29.2	27.2	31.1	28.6	34.9	54.2	46.6	59.9	16.2	18.5	14.4
2010	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
2011	24.8	30.3	20.2	21.6	25.1	15.7	41.7	48.4	35.9	57.8	71.9	44.4	61.3	50.7	68.8	23.3	32.4	17.4

TABLE 2B-3 (continued)
AGE-ADJUSTED* MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 1980, 1990-2011

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or other Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
Accidents (unintentional injuries)																		
1980	57.9	86.0	31.8	52.2	75.8	30.1	58.8	91.3	28.6	51.5	72.2	29.6	186.1	313.2	71.2	45.5	72.0	20.9
1990	42.6	61.4	24.5	37.7	53.4	22.4	39.4	60.8	19.2	48.1	65.4	34.4	139.4	225.5	62.4	29.6	43.0	16.6
1991	38.5	53.5	24.3	32.5	44.2	21.3	48.4	69.6	29.3	36.1	53.4	20.2	123.3	204.1	52.9	19.1	22.1	16.4
1992	40.6	59.7	23.1	34.6	49.7	20.9	40.9	63.9	19.3	37.6	59.9	14.0	146.3	229.5	71.8	37.9	32.2	42.8
1993	42.6	61.8	24.4	36.5	52.0	21.9	46.8	75.7	20.5	41.3	52.9	29.3	143.4	234.9	64.9	26.4	7.7	40.3
1994	44.9	64.6	26.2	39.8	55.4	25.1	46.7	70.5	23.0	46.4	73.5	19.8	131.5	200.2	69.5	30.6	33.4	29.1
1995	45.1	64.4	26.2	41.3	56.8	26.2	44.1	66.0	22.7	52.9	80.9	28.4	113.2	181.8	50.2	20.6	32.3	10.5
1996	46.1	66.4	26.8	39.4	56.8	23.1	45.8	69.4	22.9	44.0	61.6	27.2	150.5	219.6	88.9	24.5	16.1	31.6
1997	44.9	63.8	26.5	39.9	56.5	24.0	43.7	64.8	23.7	50.3	63.5	36.9	146.4	219.1	80.1	14.9	14.8	13.6
1998	45.2	62.8	27.7	40.6	56.2	25.3	42.5	62.0	22.8	48.1	74.1	25.8	126.8	171.5	85.5	23.3	35.8	13.0
1999	44.4	62.5	27.0	38.0	52.8	23.9	46.8	68.6	24.9	39.7	52.6	24.5	127.0	181.0	77.7	27.2	42.2	15.3
2000	41.1	58.0	24.9	36.9	51.5	23.3	41.6	60.8	22.5	49.7	75.8	22.7	113.1	165.2	67.4	24.1	24.4	21.4
2001	46.6	66.5	27.7	42.5	59.5	26.8	45.6	63.9	25.9	52.6	83.2	22.4	112.7	177.5	53.9	29.9	41.3	46.6
2002	45.2	62.8	28.8	41.5	56.8	27.8	45.5	64.6	26.2	44.0	58.5	28.5	111.0	168.4	60.4	15.5	13.8	15.6
2003	44.8	61.6	28.8	40.9	55.2	27.6	44.7	63.3	26.3	52.4	69.8	35.0	108.6	153.5	66.3	25.3	35.2	17.8
2004	46.0	61.1	31.7	43.3	56.8	30.7	48.9	66.1	31.8	45.9	66.9	26.0	103.9	137.5	73.7	21.2	21.7	30.0
2005	51.1	68.7	34.4	46.2	62.4	31.4	54.8	71.5	37.2	64.3	80.3	46.9	117.8	174.1	67.4	34.2	41.2	28.1
2006	51.2	68.5	34.3	48.7	64.5	33.5	52.4	72.9	32.2	54.8	73.0	34.5	97.2	139.8	58.6	19.8	17.0	20.8
2007	46.6	60.6	32.3	44.9	57.7	32.2	40.6	53.5	27.5	48.1	62.8	29.6	95.0	143.9	50.3	20.3	72.6	20.3
2008	44.7	59.0	30.6	45.4	59.8	31.4	34.2	46.9	22.0	43.1	50.6	33.8	92.6	142.6	47.9	23.7	31.1	17.9
2009	43.1	56.6	29.8	43.3	56.6	30.4	35.3	48.2	23.3	36.5	42.1	30.0	92.6	144.4	46.4	24.5	27.6	21.1
2010	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
2011	45.5	58.3	32.6	46.9	57.3	33.9	38.9	51.9	26.4	41.6	50.3	34.4	100.6	146.7	58.0	19.7	28.4	14.0
----Motor vehicle accidents																		
1980	31.9	47.1	17.4	28.2	41.2	15.7	34.6	49.8	19.8	23.3	31.7	13.7	103.6	162.5	50.4	27.6	32.4	20.9
1990	23.6	33.1	14.3	20.1	27.9	12.6	21.1	31.7	10.9	27.4	34.7	20.9	82.2	130.6	38.8	18.2	26.3	11.7
1991	20.6	27.8	13.4	16.2	22.3	10.1	27.9	36.2	20.2	9.4	13.9	4.0	73.8	112.7	38.5	6.1	0.0	10.8
1992	20.3	29.1	12.2	16.8	24.4	10.0	21.9	31.4	12.9	16.0	26.0	5.5	74.9	104.8	47.3	21.3	9.3	31.2
1993	20.1	27.8	12.6	15.8	21.7	10.1	22.3	35.2	10.0	15.0	19.2	9.2	80.4	115.8	49.3	15.8	5.8	22.7
1994	21.1	30.0	12.5	18.1	25.0	11.7	21.4	31.3	11.1	15.4	25.7	5.2	69.4	102.8	39.0	10.1	17.7	4.4
1995	23.1	32.0	14.4	19.9	25.8	14.2	21.8	30.5	12.4	28.1	41.1	16.5	69.0	114.1	27.7	15.4	23.1	8.2
1996	22.9	32.1	13.9	17.8	25.3	10.7	23.3	34.1	12.7	13.2	14.5	10.2	94.1	129.3	61.6	16.3	14.8	17.9
1997	20.5	28.2	12.7	16.9	23.6	10.3	20.9	29.0	12.9	23.9	36.7	13.7	79.4	109.8	50.6	7.9	8.3	6.7
1998	20.4	27.3	13.6	16.9	23.1	10.9	19.0	25.8	12.1	23.0	30.6	16.4	75.9	93.3	58.8	14.6	26.3	5.6
1999	19.6	27.5	11.8	14.6	20.4	9.2	24.4	34.9	13.8	16.3	23.8	8.2	68.4	100.4	39.1	15.3	20.7	11.1
2000	17.5	24.4	10.6	13.8	18.5	9.2	18.2	28.5	7.5	19.3	33.1	6.8	74.2	106.4	46.3	15.3	11.6	12.8
2001	17.2	24.2	10.1	13.5	18.5	8.5	18.2	26.3	9.4	19.1	28.8	7.2	63.2	88.8	38.3	8.6	7.7	9.9
2002	18.5	25.5	11.6	14.7	20.3	9.3	21.1	27.4	14.0	11.9	15.9	7.5	65.9	100.2	35.3	10.1	8.2	11.1
2003	18.0	24.9	11.2	14.6	20.3	9.0	21.3	29.1	13.6	15.2	23.3	8.1	59.0	78.0	40.4	11.8	14.1	9.9
2004	18.1	23.9	12.5	15.3	20.3	10.6	23.2	30.0	16.0	14.8	18.2	10.8	54.1	63.9	44.1	11.3	13.7	13.9
2005	18.9	27.0	11.1	15.0	21.9	8.4	22.7	33.1	12.6	24.9	31.4	17.8	62.6	91.3	36.4	10.2	14.5	6.3
2006	19.6	26.8	12.4	16.6	22.8	10.7	21.9	29.9	13.3	15.3	22.9	7.7	56.9	76.5	38.5	5.9	5.3	6.1
2007	16.2	22.2	10.1	13.1	18.3	8.0	17.6	22.6	12.2	13.6	18.2	7.6	49.0	72.8	27.2	9.9	37.6	10.6
2008	13.6	19.5	7.9	12.0	17.7	6.5	13.1	18.5	7.7	11.5	16.8	5.6	41.9	55.0	29.3	4.4	6.9	2.0
2009	11.6	16.8	6.5	10.1	15.2	5.1	10.6	14.4	6.7	12.4	14.2	10.3	36.9	51.0	23.3	6.5	11.2	3.0
2010	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
2011	12.1	17.6	6.9	10.4	14.5	5.6	11.7	17.6	6.2	11.7	16.6	7.5	44.2	66.8	23.7	6.8	6.3	7.3
Assault (homicide)																		
1980	10.4	15.0	5.8	7.3	9.4	5.3	15.9	25.2	6.2	48.3	71.3	21.4	25.3	40.6	11.6	2.8	6.7	0.0
1990	8.1	12.2	4.0	5.7	7.8	3.6	10.4	18.6	2.2	31.3	48.1	12.1	17.7	27.8	8.7	4.8	4.1	6.0
1991	8.6	12.7	4.5	5.4	7.5	3.2	13.0	20.0	5.8	22.3	38.3	4.3	24.2	34.7	14.3	24.8	32.9	19.1
1992	8.8	13.2	4.2	5.7	7.2	4.1	13.9	23.7	3.5	22.5	33.7	9.4	15.6	26.8	4.5	5.9	10.7	2.5
1993	9.2	13.5	4.9	5.9	7.7	4.1	15.1	24.8	5.3	30.8	50.4	10.6	16.5	25.8	7.4	3.7	2.0	4.7
1994	10.9	17.2	4.5	6.3	9.1	3.4	16.4	27.9	4.6	55.2	83.6	23.0	19.2	32.3	7.0	1.8	3.5	0.0
1995	11.6	18.0	5.0	7.3	10.2	4.3	17.5	28.6	5.3	36.0	54.8	13.6	19.6	33.3	6.7	1.7	3.3	0.0
1996	9.9	15.6	3.9	5.1	7.0	3.1	17.7	30.1	4.2	30.5	49.4	12.0	25.4	41.5	10.2	0.0	0.0	0.0
1997	9.2	14.3	3.8	5.0	6.9	3.2	16.2	29.1	3.1	23.4	39.7	4.2	17.4	23.8	11.3	5.4	5.1	5.9
1998	9.0	13.7	4.0	5.5	7.5	3.5	13.2	21.1	4.6	25.1	40.0	7.7	18.9	32.4	6.3	3.3	4.7	1.7
1999	8.5	12.1	4.7	4.4	5.4	3.5	14.0	22.9	4.3	23.2	31.9	14.2	19.9	26.9	13.6	4.2	3.3	5.1
2000	7.6	11.1	3.8	3.9	5.4	2.3	13.0	19.2	6.1	22.7	32.3	11.0	14.9	22.1	7.5	7.6	5.1	9.7
2001	8.7	13.7	3.6	4.3	6.1	2.6	15.5	24.8	5.0	22.2	35.7	6.8	17.2	24.8	10.0	4.9	9.7	1.2
2002	8.6	13.9	3.0	4.4	6.8	2.0	15.1	25.8	3.4	21.3	32.5	7.1	20.3	29.0	11.8	3.3	0.0	5.8
2003	8.3	12.8	3.6	3.7	5.1	2.2	14.7	23.7	4.8	24.9	38.7	9.0	18.8	31.5	6.9	5.4	2.5	5.8
2004	8.2	13.3	2.9	4.8	7.0	2.6	13.6	23.2	3.0	22.3	35.5	7.4	14.7	25.9	4.5	1.4	2.3	0.0
2005	8.2	13.5	2.6	3.5	5.6	1.3	14.6	24.2	3.9	27.4	45.7	7.5	14.0	22.4	5.8	5.1	8.0	2.5
2006	8.5	13.5	3.1	4.6	6.8	2.4	13.0	21.6	3.3	19.6	30.5	7.5	13.2	23.7	3.2	2.4	1.5	3.5
2007	7.7	11.8	3.2	3.9	5.5	2.2	12.0	19.5	3.7	23.4	32.3	12.7	13.1	21.7	4.8	2.6	16.0	1.6
2008	7.1	11.2	2.7	3.7	5.6	1.7	10.6	16.9	3.7	20.7	32.7	6.4	12.8	20.6	5.2	3.2	4.3	2.1
2009	5.5	8.0	2.9	3.2	4.9	1.5	8.1	12.1	4.0	14.2	18.5	9.1	13.2	18.0	8.5	0.9	0.0	1.5
2010	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
2011	6.1	9.6	2.6	3.5	5.1	1.8	7.9	14.0	2.0	16.5	23.8	7.9	11.9	18.9	4.8	3.9	5.5	2.7

TABLE 2B-3 (continued)
AGE-ADJUSTED* MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 1980, 1990-2011

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or other 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
2011	17.2	27.4	7.5	22.0	33.1	10.1	8.1	14.8	1.8	9.1	13.7	4.3	14.9	24.0	5.8	5.3	6.9	3.5

* 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, 2011**

	NUMBER OF DEATHS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	All groups**						White non-Hispanic						Hispanic or Latino						Black or African American						American Indian or Alaska Native						Asian or other 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	T	M	F	T	M	F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Total, all causes	47,547	24,775	22,762	37,779	19,399	18,378	5,714	3,199	2,515	1,367	735	632	1,703	923	780	511	254	257	13,689	7,104	6,584	11,312	5,838	5,473	1,434	755	679	413	231	182	146	136	137	71	66	10,424	5,748	4,675	8,731	4,780	3,950	1,029	571	458	276	175	101	215	122	93	86	51	35	8,237	4,757	3,480	6,922	3,974	2,948	795	452	343	223	143	80	154	99	55	70	44	26	10,543	5,639	4,903	8,634	4,650	3,984	1,190	660	530	281	125	156	202	98	104	144	64	80	2,654	1,474	1,180	2,354	1,293	1,061	178	119	59	58	29	29	14	10	4	23	13	10	927	482	445	736	384	352	116	64	52	30	9	21	22	14	8	17	8	9	747	6	741	619	5	614	71	1	70	24	0	24	9	0	9	14	0	14	574	574	NA	480	480	NA	59	59	NA	13	13	NA	11	11	NA	3	3	NA	187	125	62	172	114	58	11	9	2	0	0	0	1	1	0	2	0	2	72	NA	72	40	NA	40	22	NA	22	2	NA	2	4	NA	4	3	NA	3	3,143	1,497	1,646	2,880	1,345	1,535	140	80	60	51	31	20	25	10	15	17	9	8	2,959	1,809	1,150	2,007	1,163	844	491	338	153	87	50	37	299	214	85	29	16	13	883	567	316	619	389	230	143	100	43	27	12	15	75	54	21	4	3	1	787	562	225	408	290	118	181	132	49	29	19	10	147	107	40	11	4	7	776	339	437	649	273	376	75	38	37	10	6	4	29	14	15	6	4	2	86	58	28	49	31	18	18	14	4	6	5	1	7	7	0	4	1	3	2,336	774	1,562	2,038	675	1,363	182	57	125	58	21	37	26	8	18	17	7	10	2,067	813	1,254	1,626	628	998	260	113	147	83	32	51	49	18	31	34	15	19	1,721	949	772	1,105	629	476	345	186	159	95	57	38	129	50	79	28	16	12	1,113	866	247	873	666	207	135	117	18	24	18	6	56	45	11	10	7	3	933	608	325	576	371	205	202	151	51	14	6	8	122	63	59	7	6	1	725	298	427	565	225	340	88	45	43	45	21	24	14	3	11	10	1	9	649	331	318	486	243	243	86	40	46	15	8	7	49	33	16	9	5	4	545	321	224	481	285	196	34	21	13	8	2	6	15	10	5	4	1	3	409	210	199	287	153	134	66	29	37	16	8	8	29	15	14	9	5	4	387	303	84	133	95	38	149	128	21	46	36	10	43	34	9	7	4	3	321	167	154	217	117	100	52	27	25	11	7	4	34	13	21	4	2	2	99	83	16	49	44	5	25	21	4	14	10	4	6	6	0	2	1	1	952	822	130	660	563	97	195	176	19	44	38	6	33	28	5	5	4	1	1,062	598	464	813	444	369	166	107	59	31	16	15	32	19	13	4	3	1	974	698	278	582	413	169	171	140	31	13	7	6	191	123	68	4	3	1

**TABLE 2B-4 (continued)
NUMBER OF DEATHS AND AGE-ADJUSTED* MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY AND
GENDER, ARIZONA, 2011**

	AGE-ADJUSTED MORTALITY RATES**																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	All groups**						White non-Hispanic				Hispanic or Latino				Black or African American				American Indian or Alaska Native				Asian or other 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	699.6	817.1	595.3	741.5	810.1	595.9	656.4	781.9	549.7	833.6	981.9	718.5	765.5	871.4	669.5	436.7	521.8	377.8	201.0	239.2	168.0	212.6	239.9	167.1	193.4	223.9	168.0	266.1	329.3	219.6	149.2	160.8	136.3	122.4	148.6	103.7	152.7	192.8	119.0	164.3	196.2	120.4	137.4	167.1	113.2	174.0	252.9	119.3	111.1	131.1	92.7	77.0	105.3	57.3	120.3	158.4	88.5	130.6	162.2	89.7	106.0	130.6	85.6	142.7	205.5	97.2	79.6	109.0	55.7	61.0	85.5	43.3	151.3	179.3	129.5	170.3	182.2	132.4	136.3	176.0	107.3	167.1	170.6	169.0	100.8	116.3	90.9	116.6	126.2	110.2	37.8	46.1	31.1	46.7	49.2	34.9	22.9	35.9	13.3	36.6	40.4	33.3	7.9	13.8	3.9	20.8	33.9	13.4	13.4	15.4	11.6	14.4	15.3	11.4	13.6	16.5	11.2	20.2	12.6	25.6	9.9	12.0	7.4	14.3	16.2	12.7	10.7	0.2	19.7	12.2	0.2	20.8	6.7	0.2	12.2	12.8	0.0	24.1	4.2	0.0	7.5	9.0	0.0	15.6	NA	19.8	NA	NA	19.5	NA	NA	20.6	NA	NA	24.1	NA	NA	NA	17.1	NA	NA	5.0	NA	2.7	3.9	1.7	3.5	4.5	2.1	1.2	2.1	0.4	0.0	0.0	0.0	0.7	1.7	0.0	1.4	0.0	2.3	1.1	NA	2.1	0.8	NA	1.6	2.0	NA	3.7	1.4	NA	2.4	1.7	NA	3.1	1.7	NA	3.0	45.9	49.7	42.8	55.3	53.3	48.5	19.5	26.5	14.7	34.8	48.5	24.7	14.4	14.7	14.4	17.2	26.4	11.9	45.5	58.3	32.6	46.9	57.3	33.9	38.9	51.9	26.4	41.6	50.3	34.4	100.6	146.7	58.0	19.7	28.4	14.0	14.0	18.0	10.0	16.8	21.0	12.2	9.0	12.5	5.6	10.5	9.0	12.5	23.2	34.5	12.4	1.8	2.9	0.9	12.1	17.6	6.9	10.4	14.5	5.6	11.7	17.6	6.2	11.7	16.6	7.5	44.2	66.8	23.7	6.8	6.3	7.3	11.6	11.8	11.0	12.0	11.6	11.2	10.5	11.2	9.7	8.9	14.1	5.5	15.8	14.8	15.7	6.4	12.2	3.1	1.3	1.8	0.8	1.3	1.6	1.0	1.0	1.2	0.7	2.6	3.0	1.5	2.2	4.5	0.0	2.0	1.0	2.8	35.2	28.9	39.0	36.3	29.2	39.6	30.9	24.4	35.0	54.7	52.4	54.3	18.1	15.4	20.4	21.0	23.6	19.5	30.6	28.0	32.3	30.4	26.2	30.7	34.9	33.3	35.6	56.5	43.3	64.3	29.7	24.8	33.1	29.1	34.2	26.2	24.8	30.3	20.2	21.6	25.1	15.7	41.7	48.4	35.9	57.8	71.9	44.4	61.3	50.7	68.8	23.3	32.4	17.4	17.2	27.4	7.5	22.0	33.1	10.1	8.1	14.8	1.8	9.1	13.7	4.3	14.9	24.0	5.8	5.3	6.9	3.5	13.4	18.0	9.2	12.0	14.7	8.1	18.9	29.2	9.8	6.6	5.5	7.6	43.6	46.7	40.4	4.2	9.0	0.9	10.8	10.3	11.0	10.5	9.3	10.4	12.9	15.1	11.2	29.4	31.0	27.9	6.9	2.5	9.9	9.8	1.6	14.8	9.7	11.5	8.2	9.3	10.3	7.6	12.0	13.1	11.0	8.1	7.7	7.5	28.4	46.6	16.2	9.1	13.8	6.1	8.2	11.4	5.8	8.9	11.8	5.9	4.9	7.0	3.3	6.9	5.4	8.3	9.3	15.4	5.3	4.6	2.7	5.7	6.0	7.2	5.1	5.4	6.4	4.1	8.8	9.2	8.6	10.0	6.6	11.1	15.3	19.7	12.7	8.6	12.1	6.3	6.1	9.6	2.6	3.5	5.1	1.8	7.9	14.0	2.0	16.5	23.8	7.9	11.9	18.9	4.8	3.9	5.5	2.7	4.7	5.4	4.0	4.2	4.7	3.2	6.4	6.9	5.9	6.4	7.3	4.8	16.5	14.7	17.9	3.2	3.6	2.9	Human immunodeficiency virus (HIV) disease	1.6	2.7	0.5	1.2	2.0	0.3	1.7	3.0	0.5	5.4	7.6	3.2	2.0	4.1	0.0	1.2	1.2	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Injury by firearms	14.7	25.9	3.9	16.3	27.5	4.5	10.8	19.9	1.9	16.2	26.6	4.7	9.2	15.3	3.0	2.4	3.8	1.1	16.8	19.0	14.4	21.6	23.8	18.7	10.9	13.6	8.1	12.6	13.4	12.3	9.6	11.6	7.5	1.8	2.9	0.9	14.3	20.9	8.2	12.5	16.9	7.2	14.3	25.5	4.7	6.0	6.1	5.8	64.1	87.2	43.1	1.9	3.6	0.9
Human immunodeficiency virus (HIV) disease	1.6	2.7	0.5	1.2	2.0	0.3	1.7	3.0	0.5	5.4	7.6	3.2	2.0	4.1	0.0	1.2	1.2	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Injury by firearms	14.7	25.9	3.9	16.3	27.5	4.5	10.8	19.9	1.9	16.2	26.6	4.7	9.2	15.3	3.0	2.4	3.8	1.1	16.8	19.0	14.4	21.6	23.8	18.7	10.9	13.6	8.1	12.6	13.4	12.3	9.6	11.6	7.5	1.8	2.9	0.9	14.3	20.9	8.2	12.5	16.9	7.2	14.3	25.5	4.7	6.0	6.1	5.8	64.1	87.2	43.1	1.9	3.6	0.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

*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 **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, 2011**

	Arizona			Urban			Rural		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total, all causes	699.6	817.1	595.3	681.0	795.3	581.5	775.8	900.4	657.1
Major cardiovascular diseases	201.0	239.2	168.0	195.0	232.1	163.6	223.3	262.7	186.3
Diseases of heart	152.7	192.8	119.0	146.2	185.1	114.2	178.1	220.3	139.7
Coronary heart disease	120.3	158.4	88.5	117.2	154.1	87.1	130.8	172.5	93.7
Malignant neoplasms	151.3	179.3	129.5	149.8	176.9	129.1	155.9	185.2	131.6
Malignant neoplasm of trachea, bronchus and lung	37.8	46.1	31.1	37.4	45.4	31.1	38.9	47.7	31.1
Malignant neoplasm of colon, rectum, and anus	13.4	15.4	11.6	13.2	14.8	11.6	14.2	17.4	11.6
Malignant neoplasm of breast	10.7	0.2	19.7	10.7	0.1	19.6	10.8	0.4	20.2
Malignant neoplasm of prostate	8.4	19.8	NA	8.3	19.5	NA	9.1	20.9	NA
Malignant melanoma of skin	2.7	3.9	1.7	2.9	4.1	1.9	2.0	3.4	0.7
Malignant neoplasm of cervix uteri	1.1	NA	2.1	1.0	NA	2.0	1.4	NA	2.7
Chronic lower respiratory diseases	45.9	49.7	42.8	45.1	49.4	41.7	48.8	50.7	47.3
Accident (unintentional injury)	45.5	58.3	32.6	42.2	54.2	30.4	61.1	77.3	44.3
Accidental poisoning	14.0	18.0	10.0	13.1	17.0	9.1	18.5	22.5	14.3
Motor vehicle accidents	12.1	17.5	6.9	10.1	14.7	5.6	23.0	31.8	14.3
Falls	11.6	11.8	11.0	12.0	12.6	11.2	9.8	8.5	10.3
Accidental drowning and submersion	1.3	1.8	0.8	1.3	1.7	0.9	1.2	2.0	0.4
Alzheimer's disease	35.2	28.9	39.0	37.9	31.5	41.8	22.4	18.0	25.2
Cerebrovascular diseases	30.6	28.0	32.3	30.1	27.3	31.8	32.2	29.5	33.7
Diabetes	24.8	30.3	20.2	25.4	31.1	20.7	22.1	27.1	17.8
Intentional self-harm (suicide)	17.2	27.4	7.5	15.4	24.3	6.9	27.0	43.6	10.4
Chronic liver disease and cirrhosis	13.4	18.0	9.2	12.2	16.7	8.2	19.2	23.7	15.0
Essential (primary) hypertension and hypertensive renal disease	10.7	10.3	11.0	11.6	11.4	11.5	6.9	5.2	8.3
Influenza and pneumonia	9.7	11.5	8.2	8.4	9.7	7.4	15.0	19.4	11.5
Parkinson's disease	8.2	11.4	5.8	8.3	12.0	5.6	7.6	9.1	6.5
Nephritis	6.0	7.2	5.1	4.9	6.3	4.0	10.3	10.7	9.9
Assault (homicide)	6.1	9.6	2.6	5.8	9.2	2.3	7.6	10.7	4.2
Septicemia	4.7	5.4	4.0	4.1	5.0	3.3	7.1	7.2	7.0
(HIV) disease	1.6	2.7	0.5	1.6	2.6	0.5	1.3	2.4	0.1
Injury by firearms	14.7	25.9	3.9	13.8	24.4	3.6	18.9	32.8	5.2
Drug-induced deaths	16.7	19.0	14.4	16.2	18.7	13.7	18.7	19.9	17.2
Alcohol-induced deaths	14.3	20.9	8.2	12.3	18.3	6.8	24.8	33.3	16.5

*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, 2011**

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	47,547	24,775	22,762	738.5	774.5	702.7
Salmonella infections	1	0	1	0.0	0.0	0.0
Shigellosis and amebiasis	0	0	0	0.0	0.0	0.0
Certain other intestinal infections	233	96	137	3.6	3.0	4.2
Enterocolitis due to Clostridium difficile	186	75	111	2.9	2.3	3.4
Tuberculosis	12	6	6	0.2	0.2	0.2
Respiratory tuberculosis	10	6	4	0.2	0.2	0.1
Other tuberculosis	2	0	2	0.0	0.0	0.1
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	1	0	1	0.0	0.0	0.0
Septicemia	321	167	154	5.0	5.2	4.8
Syphilis	1	1	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	218	138	80	3.4	4.3	2.5
Human immunodeficiency virus (HIV) disease	99	83	16	1.5	2.6	0.5
Malaria	0	0	0	0.0	0.0	0.0
Other and unspecified infectious and parasitic diseases	143	91	52	2.2	2.8	1.6
Malignant neoplasms	10,543	5,639	4,903	163.8	176.3	151.4
Malignant neoplasm of lip, oral cavity and pharynx	132	105	27	2.1	3.3	0.8
Malignant neoplasm of esophagus	288	232	56	4.5	7.3	1.7
Malignant neoplasm of stomach	211	131	80	3.3	4.1	2.5
Malignant neoplasm of colon, rectum, and anus	927	482	445	14.4	15.1	13.7
Malignant neoplasm of liver and intrahepatic bile ducts	474	311	163	7.4	9.7	5.0
Malignant neoplasm of pancreas	708	355	353	11.0	11.1	10.9
Malignant neoplasm of larynx	59	42	17	0.9	1.3	0.5
Malignant neoplasm of trachea, bronchus and lung	2,654	1,474	1,180	41.2	46.1	36.4
Malignant melanoma of skin	187	125	62	2.9	3.9	1.9
Malignant neoplasm of breast	747	6	741	11.6	0.2	22.9
Malignant neoplasm of cervix uteri	72	0	72	1.1	0.0	2.2
Malignant neoplasm of corpus uteri and uterus, part unspecified	159	0	159	2.5	0.0	4.9
Malignant neoplasm of ovary	280	0	280	4.3	0.0	8.6
Malignant neoplasm of prostate	574	574	0	8.9	17.9	0.0
Malignant neoplasm of kidney and renal pelvis	267	178	89	4.1	5.6	2.7
Malignant neoplasm of bladder	355	245	109	5.5	7.7	3.4
Malignant neoplasm of meninges, brain and other parts of CNS	275	145	130	4.3	4.5	4.0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,054	612	442	16.4	19.1	13.6
Hodgkin's disease	19	9	10	0.3	0.3	0.3
Non-Hodgkin's lymphoma	392	212	180	6.1	6.6	5.6
Leukemia	422	257	165	6.6	8.0	5.1
Multiple myeloma and immunoproliferative neoplasms	219	133	86	3.4	4.2	2.7
Other and unspecified malignant neoplasms of lymphoid tissue	2	1	1	0.0	0.0	0.0
All other and unspecified malignant neoplasm	1,120	623	497	17.4	19.5	15.3
In situ neoplasms	274	155	119	4.3	4.8	3.7
Anemias	52	26	26	0.8	0.8	0.8
Diabetes	1,721	949	772	26.7	29.7	23.8

TABLE 2B-6 (continued)
DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,
ARIZONA RESIDENTS, 2011

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	40	19	21	0.6	0.6	0.6
Malnutrition	39	19	20	0.6	0.6	0.6
Other nutritional deficiencies	1	0	1	0.0	0.0	0.0
Obesity	161	82	79	2.5	2.6	2.4
Meningitis	17	5	12	0.3	0.2	0.4
Parkinson's disease	545	321	224	8.5	10.0	6.9
Alzheimer's disease	2,336	774	1,562	36.3	24.2	48.2
Major cardiovascular diseases	13,689	7,104	6,584	212.6	222.1	203.3
Diseases of heart	10,424	5,748	4,675	161.9	179.7	144.3
Acute rheumatic fever and chronic rheumatic heart disease	69	22	47	1.1	0.7	1.5
Hypertensive heart disease	739	348	391	11.5	10.9	12.1
Hypertensive heart and renal disease	49	22	27	0.8	0.7	0.8
Ischemic heart disease	7,498	4,409	3,089	116.5	137.8	95.4
Acute myocardial infarction	1,613	935	678	25.1	29.2	20.9
Other acute ischemic heart disease	27	17	10	0.4	0.5	0.3
Other forms of chronic ischemic heart disease	5,858	3,457	2,401	91.0	108.1	74.1
Atherosclerotic cardiovascular disease	1,913	1,232	681	29.7	38.5	21.0
All other forms of chronic ischemic heart disease	3,945	2,225	1,720	61.3	69.6	53.1
Other heart diseases	2,069	947	1,121	32.1	29.6	34.6
Acute and subacute endocarditis	14	5	9	0.2	0.2	0.3
Diseases of pericardium and acute myocarditis	19	12	7	0.3	0.4	0.2
Heart failure	563	247	315	8.7	7.7	9.7
All other forms of heart disease	1,473	683	790	22.9	21.4	24.4
Essential (primary) hypertension and hypertensive renal disease	725	298	427	11.3	9.3	13.2
Cerebrovascular diseases	2,067	813	1,254	32.1	25.4	38.7
Atherosclerosis	134	63	71	2.1	2.0	2.2
Other diseases of circulatory system	339	182	157	5.3	5.7	4.8
Aortic aneurysm and dissection	152	98	54	2.4	3.1	1.7
Other disease of arteries, arterioles and capillaries	187	84	103	2.9	2.6	3.2
Other disorders of circulatory system	92	44	48	1.4	1.4	1.5
Influenza and pneumonia	649	331	318	10.1	10.3	9.8
Influenza	26	15	11	0.4	0.5	0.3
Pneumonia	623	316	307	9.7	9.9	9.5
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	3,143	1,497	1,646	48.8	46.8	50.8
Bronchitis, chronic and unspecified	8	6	2	0.1	0.2	0.1
Emphysema	150	79	71	2.3	2.5	2.2
Asthma	89	27	62	1.4	0.8	1.9
Other chronic lower respiratory diseases	2,896	1,385	1,511	45.0	43.3	46.6
Pneumoconioses and chemical effects	18	18	0	0.3	0.6	0.0
Pneumonitis due to solids and liquids	254	141	113	3.9	4.4	3.5
Other disease of respiratory system	546	298	248	8.5	9.3	7.7
Peptic ulcer	60	28	32	0.9	0.9	1.0
Diseases of appendix	9	7	2	0.1	0.2	0.1
Hernia	39	19	20	0.6	0.6	0.6

TABLE 2B-6 (continued)
DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,
ARIZONA RESIDENTS, 2011

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	933	608	325	14.5	19.0	10.0
Alcoholic liver disease	641	446	195	10.0	13.9	6.0
Other chronic liver disease and cirrhosis	292	162	130	4.5	5.1	4.0
Cholelithiasis and other disorders of gallbladder	81	41	40	1.3	1.3	1.2
Nephritis, nephrotic syndrome and nephrosis	409	210	199	6.4	6.6	6.1
Acute and rapidly progressive nephritic and nephrotic syndrome	4	2	2	0.1	0.1	0.1
Chronic glomerulonephritis	60	28	32	0.9	0.9	1.0
Renal failure	344	180	164	5.3	5.6	5.1
Others disorders of kidney	1	0	1	0.0	0.0	0.0
Infections of kidney	15	4	11	0.2	0.1	0.3
Hyperplasia of prostate	22	22	0	0.3	0.7	0.0
Inflammatory diseases of female pelvic organs	1	0	1	0.0	0.0	0.0
Pregnancy, childbirth and the puerperium	5	0	5	0.1	0.0	0.2
Pregnancy with abortive outcome	0	0	0	0.0	0.0	0.0
Other complications of pregnancy, childbirth and the puerperium	5	0	5	0.1	0.0	0.2
Perinatal conditions	238	129	109	3.7	4.0	3.4
Congenital malformations	201	100	101	3.1	3.1	3.1
Symptoms, signs, abnormal findings	1,117	463	647	17.3	14.5	20.0
Total accidents	2,959	1,809	1,150	46.0	56.6	35.5
Transport accidents	857	616	241	13.3	19.3	7.4
Motor vehicle accidents	787	562	225	12.2	17.6	6.9
Other land transport accidents	19	17	2	0.3	0.5	0.1
Water, air, space	51	37	14	0.8	1.2	0.4
Nontransport accidents	2,102	1,193	909	32.6	37.3	28.1
Falls	776	339	437	12.1	10.6	13.5
Accidental discharge of firearms	8	7	1	0.1	0.2	0.0
Accidental drowning and submersion	86	58	28	1.3	1.8	0.9
Accidental exposure to smoke, fire and flames	33	21	12	0.5	0.7	0.4
Accidental poisoning	883	567	316	13.7	17.7	9.8
Other and unspecified nontransport accidents	316	201	115	4.9	6.3	3.6
Intentional self-harm (suicide)	1,113	866	247	17.3	27.1	7.6
By discharge of firearms	667	584	83	10.4	18.3	2.6
By other means	446	282	164	6.9	8.8	5.1
Assault (homicide)	387	303	84	6.0	9.5	2.6
By discharge of firearms	254	209	45	3.9	6.5	1.4
By other means	133	94	39	2.1	2.9	1.2
Legal intervention	16	16	0	0.2	0.5	0.0
Events of undetermined intent	132	69	63	2.1	2.2	1.9
Discharge of firearms	11	10	1	0.2	0.3	0.0
Other and unspecified events of undetermined intent	121	59	62	1.9	1.8	1.9
Operations of war	2	2	0	0.0	0.1	0.0
Complications of medical and surgical care	51	28	23	0.8	0.9	0.7
INJURY BY FIREARMS	952	822	130	14.8	25.7	4.0
DRUG-INDUCED DEATHS	1,062	598	464	16.5	18.7	14.3
ALCOHOL-INDUCED DEATHS	974	696	278	15.1	21.8	8.6

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, 2001-2011**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
ALL FORMS OF HEART DISEASE											
TOTAL	10,312	10,551	10,649	10,402	10,779	10,362	10,147	10,052	10,151	9,719	10,424
Male	5,469	5,642	5,649	5,543	5,789	5,538	5,455	5,535	5,558	5,351	5,748
Female	4,843	4,909	5,000	4,859	4,990	4,834	4,692	4,517	4,593	4,368	4,675
Acute rheumatic fever and chronic rheumatic heart disease											
TOTAL	37	46	63	46	55	57	38	57	51	42	69
Male	16	14	25	18	16	15	15	24	16	15	22
Female	21	32	38	28	39	42	23	33	35	27	47
Hypertensive heart and renal disease*											
TOTAL	26	31	33	32	39	24	29	48	35	36	49
Male	11	14	20	9	18	13	15	22	18	16	22
Female	15	17	13	23	21	11	14	26	17	20	27
Ischemic heart disease											
TOTAL	7,656	7,962	8,037	7,836	8,060	7,628	7,163	7,326	7,372	7,043	7,498
Male	4,245	4,449	4,402	4,344	4,509	4,202	4,005	4,225	4,233	4,076	4,409
Female	3,411	3,513	3,635	3,492	3,551	3,426	3,158	3,101	3,139	2,967	3,089
Hypertensive heart disease											
TOTAL	355	431	440	463	487	506	646	636	698	644	739
Male	164	197	215	223	226	256	332	322	340	302	348
Female	191	234	225	240	261	250	314	314	358	342	391
Other heart diseases											
TOTAL	2,238	2,104	2,076	2,025	2,138	2,147	2,271	1,985	1,995	1,954	2,069
Male	1,033	968	987	949	1,020	1,052	1,088	942	951	942	947
Female	1,205	1,136	1,089	1,076	1,118	1,095	1,183	1,043	1,044	1,012	1,121

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, 2001-2011**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
ALL CANCERS	TOTAL *	8,914	9,148	9,451	9,506	9,873	9,768	9,955	10,147	10,423	10,543
	Male	4,627	4,982	5,088	5,107	5,184	5,233	5,364	5,432	5,639	5,639
	Female	4,287	4,166	4,363	4,399	4,489	4,535	4,591	4,715	4,784	4,903
ICD-9 140-149/ICD-10 C00-C14 - Malignant neoplasm of lip, oral cavity and pharynx (oropharyngeal cancer)	TOTAL	116	122	114	127	140	133	151	125	134	132
	Male	80	91	85	87	95	91	101	89	98	105
	Female	36	31	29	40	45	42	50	36	36	27
ICD-9 150/ICD-10 C15 - Malignant neoplasm of esophagus	TOTAL	202	239	239	240	222	261	252	262	273	288
	Male	151	191	196	190	188	209	206	212	220	232
	Female	51	48	43	50	34	52	46	50	53	56
ICD-9 151/ICD-10 C16 - Malignant neoplasm of stomach	TOTAL	183	197	177	189	200	190	186	200	199	211
	Male	115	132	106	110	113	111	106	121	123	131
	Female	68	65	71	79	87	79	80	79	76	80
ICD-9 153, 154/ICD-10 C18-C21 - Malignant neoplasm of colon, rectum, rectosigmoid junction and anus	TOTAL	871	887	995	870	915	917	966	896	887	927
	Male	434	484	535	466	490	495	535	466	463	482
	Female	437	403	460	404	425	422	431	430	424	445
ICD-9 157/ICD-10 C25 - Malignant neoplasm of pancreas	TOTAL	519	477	474	551	579	575	629	636	622	708
	Male	260	244	240	306	305	301	362	340	304	355
	Female	259	233	234	245	274	274	267	296	318	353
ICD-9 162/ICD-10 C33-C34 - Malignant neoplasm of trachea, bronchus and lung	TOTAL	2,381	2,565	2,682	2,656	2,607	2,718	2,573	2,632	2,691	2,654
	Male	1,312	1,439	1,530	1,490	1,461	1,528	1,443	1,477	1,480	1,474
	Female	1,069	1,126	1,152	1,166	1,146	1,190	1,130	1,155	1,211	1,180
ICD-9 172/ICD-10 C43 - Malignant melanoma of skin	TOTAL	128	156	150	152	169	179	188	168	226	191
	Male	93	101	105	104	133	124	124	115	160	133
	Female	35	55	45	48	36	55	64	53	66	58
ICD-9 174,175/ICD-10 C50 - Malignant neoplasm of breast	TOTAL	680	656	672	664	677	745	724	734	716	747
	Male	13	10	5	1	7	6	6	9	8	6
	Female	667	646	667	663	670	739	718	725	708	741

**TABLE 2B-8 (continued)
NUMBER OF DEATHS FOR SELECTED SUBCATEGORIES OF MALIGNANT NEOPLASMS BY GENDER AND YEAR,
ARIZONA, 2001-2011**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	
ICD-9 180/ICD-10 C53 - Malignant neoplasm of cervix uteri	TOTAL	74	63	63	64	65	54	62	60	64	68	72
	Female	74	63	63	64	65	54	62	60	64	68	72
ICD-9 179, 182/ ICD-10 C54-C55 - Malignant neoplasm of body of uterus and of uterus, part unspecified	TOTAL	91	75	81	98	107	97	97	115	108	138	159
	Female	91	75	81	98	107	97	97	115	108	138	159
ICD-9 185/ICD-10 C61 - Malignant neoplasm of prostate	TOTAL	501	533	544	544	564	522	548	568	551	549	574
	Male	501	533	544	544	564	522	548	568	551	549	574
ICD-9 188/ICD-10 C67 - Malignant neoplasm of bladder	TOTAL *	216	209	229	238	244	238	270	258	264	247	355
	Male	154	152	164	157	180	175	206	192	206	183	245
	Female	62	57	65	81	64	63	64	66	58	64	109
ICD-9 189/ICD-10 C64-C65 - Malignant neoplasm of kidney and other and unspecified urinary organs	TOTAL	215	230	215	227	248	238	231	247	240	286	267
	Male	135	152	137	149	150	156	147	154	161	189	178
	Female	80	78	78	78	98	82	84	93	79	97	89
ICD-9 191, 192/ICD-10 C70-C72 - Malignant neoplasm of brain	TOTAL	211	210	214	224	276	248	248	268	275	268	275
	Male	101	127	126	115	153	133	141	152	151	153	145
	Female	110	83	88	109	123	115	107	116	124	115	130
ICD-9 201/ICD-10 81 - Hodgkin's disease	TOTAL	20	26	16	17	17	19	30	17	16	22	19
	Male	14	15	10	12	9	14	19	10	9	12	9
	Female	6	11	6	5	8	5	11	7	7	10	10
ICD-9 200, 202/ICD-10 C82-C85 - Malignant lymphoma other than Hodgkin's disease	TOTAL	384	409	386	370	381	373	362	434	388	379	392
	Male	211	207	204	208	218	213	200	230	212	219	212
	Female	173	202	182	162	163	160	162	204	176	160	180
ICD-9 203/ICD-10 C88, C90 - Multiple myeloma and immunoproliferative neoplasms	TOTAL	166	192	169	202	201	199	213	203	189	206	219
	Male	93	124	89	119	107	110	118	123	107	117	133
	Female	73	68	80	83	94	89	95	80	82	89	86
Other malignant neoplasms	TOTAL	1,956	1,902	2,031	2,073	2,061	2,080	2,243	2,092	2,340	2,417	1,120
	Male	960	912	1,012	1,049	1,011	1,056	1,112	1,093	1,212	1,273	623
	Female	996	990	1,019	1,024	1,050	1,024	1,131	999	1,128	1,144	497

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.
* Includes records with unknown gender

**TABLE 2B-9
NUMBER OF DEATHS FROM UNINTENTIONAL INJURIES IN ACCIDENTS BY CATEGORY AND YEAR AMONG
ARIZONA RESIDENTS, 2001-2011**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Total unintentional injury deaths	2,430	2,416	2,466	2,641	3,006	3,156	3,014	2,951	2,887	2,834	2,959
Railway accident	9	3	10	11	10	17	12	9	8	12	6
Motor vehicle accident	908	1,003	1,005	1,060	1,137	1,220	1,035	891	771	711	787
Water transport accident	6	4	1	4	5	3	1	4	2	1	3
Accident involving aircraft	9	19	23	21	9	32	17	32	15	16	21
Poisoning by drugs/medicaments	414	458	447	517	549	624	669	689	802	798	781
Poisoning by gases and vapors	32	24	18	16	14	22	52	77	85	81	102
Falls	445	448	469	526	685	702	720	748	731	762	776
Fire, flames, smoke	49	41	42	30	56	43	31	50	31	25	33
Excessive natural heat	21	35	40	34	74	62	28	33	39	51	57
Excessive natural cold	20	15	15	17	28	17	20	25	24	17	22
Contact with venomous snakes and lizards	0	0	0	1	0	0	0	1	0	1	0
Contact with venomous spiders	0	0	0	1	2	0	1	0	0	0	0
Contact with scorpions	1	1	0	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	0	1	2	1	2	2	1	4	1	1
Lightning	0	0	2	0	3	2	1	0	1	1	1
Storms and floods	3	0	4	0	0	1	1	0	0	1	0
Accidental drowning and submersion	80	65	83	97	83	87	85	78	99	86	86
Choked on food	20	18	41	36	27	30	22	35	43	39	34
Choked on other objects	32	54	59	48	62	48	61	53	49	57	44
Mechanical suffocation	57	23	25	21	27	26	43	29	25	28	25
Accidental discharge of firearms	*NA	26	13	13	15	9	13	10	7	11	8
Exposure to electric current	5	6	4	9	15	4	11	6	7	4	6
Overexertion	0	0	1	0	0	0	0	0	0	1	0
Adverse effects of drugs in therapeutic use	6	9	6	2	4	5	5	7	8	10	5
Misadventures to patients during medical/surgical care	44	46	49	46	39	51	44	40	42	41	45

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, 2001-2011**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
TOTAL											
Total	908	1,003	1,005	1,060	1,137	1,220	1,035	891	771	711	787
Male	638	684	689	693	801	831	710	632	554	501	562
Female	270	319	316	367	336	389	325	259	217	210	225
Motorcyclist											
Total	61	81	76	89	113	115	103	113	99	69	113
Male	54	75	68	72	101	99	92	106	94	61	96
Female	7	6	8	17	12	16	11	7	5	8	17
Pedestrian											
Total	142	147	124	143	182	169	155	136	122	152	153
Male	101	103	88	99	141	123	103	101	90	115	111
Female	41	44	36	44	41	46	52	35	32	37	42
Pedal cyclist											
Total	26	8	14	21	39	30	18	12	22	21	19
Male	25	8	12	18	36	29	17	11	19	20	16
Female	1	0	2	3	3	1	1	1	3	1	3
Other person											
Total	679	767	791	807	803	906	759	630	528	469	502
Male	458	498	521	504	523	580	498	414	351	305	339
Female	221	269	270	33	280	326	261	216	177	164	163

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
LEADING CAUSES OF DEATH BY PLACE OF DEATH AND DECEDENT STATUS, ARIZONA, 2011**

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	47,547	10,271	2,705	47	27,034	9,817	5,620	4,700	376	20,513
Diseases of heart	10,424	2,109	1,008	9	6,632	1,566	1,262	900	64	3,792
Coronary heart disease	8,237	1,537	882	7	5,338	1,147	955	758	39	2,899
Malignant neoplasms	10,543	1,704	135	2	5,838	3,390	709	559	47	4,705
Malignant neoplasm of trachea, bronchus and lung	2,654	440	31	0	1,479	871	178	119	7	1,175
Malignant neoplasm of colon, rectum, and anus	927	133	6	0	503	296	64	63	1	424
Malignant neoplasm of breast	747	96	10	0	398	242	49	52	6	349
Malignant neoplasm of prostate	574	65	10	1	310	167	51	43	3	264
Malignant neoplasm of cervix uteri	72	8	2	0	37	28	4	2	1	35
Chronic lower respiratory diseases	3,143	715	110	2	1,776	748	409	198	12	1,367
Accident (unintentional injury)	2,959	604	457	12	1,716	390	101	700	52	1,243
Accidental poisoning	883	83	151	1	707	8	3	159	6	176
Motor vehicle accidents	787	159	186	10	361	22	7	383	14	426
Falls	776	234	38	0	336	316	70	52	2	440
Accidental drowning and submersion	86	10	32	0	59	1	0	26	0	27
Alzheimer's disease	2,336	66	14	0	552	447	771	562	4	1,784
Cerebrovascular diseases	2,067	489	56	1	894	669	356	133	15	1,173
Diabetes	1,721	443	155	5	1,163	261	192	97	8	558
Intentional self-harm (suicide)	1,113	64	101	3	820	7	2	276	8	293
Chronic liver disease and cirrhosis	933	313	38	1	561	280	55	27	10	372
Essential (primary) hypertension & hypertensive renal disease	725	143	26	0	363	178	121	62	1	362
Influenza and pneumonia	649	334	29	0	429	110	72	26	12	220
Parkinson's disease	545	33	3	1	207	125	113	98	2	338
Nephritis, nephrotic syndrome and nephrosis	409	147	15	0	239	67	79	17	7	170
Assault (homicide)	387	46	113	0	233	7	3	140	4	154
Septicemia	321	234	13	0	258	37	14	2	10	63
Human immunodeficiency virus (HIV) disease	99	35	2	0	58	25	12	4	0	41
Injury by firearms	952	54	148	2	666	2	1	277	6	286
Drug-induced deaths	1,062	106	163	0	873	19	3	163	4	189
Alcohol-induced deaths	974	282	61	4	638	231	32	60	13	336

* 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:

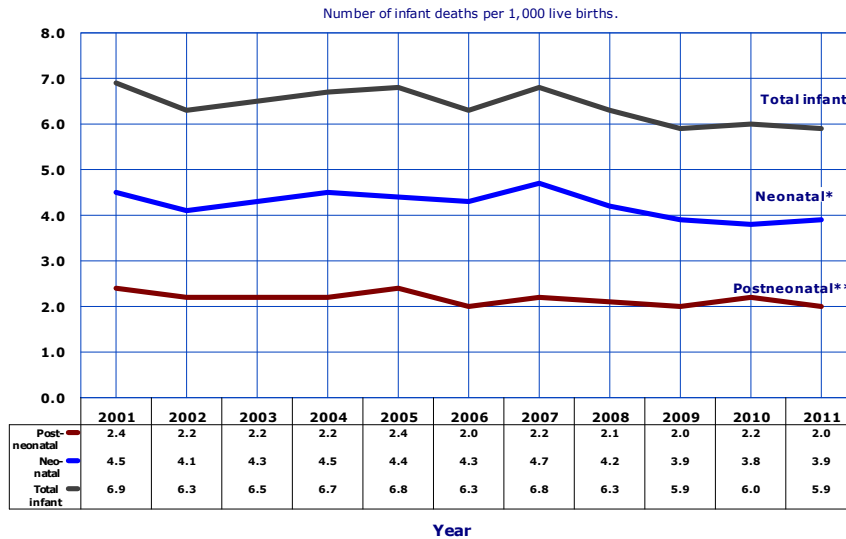
- **Infants** less than one year of age
- **Children** 1 to 14 years old
- **Adolescents** or persons 15 to 19 years old
- **Young adults** or persons 20 to 44 years old
- **Middle-aged adults** or persons 45 to 64 years old
- **Elderly** or persons 65 years or older.

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 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, 2001-2011



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

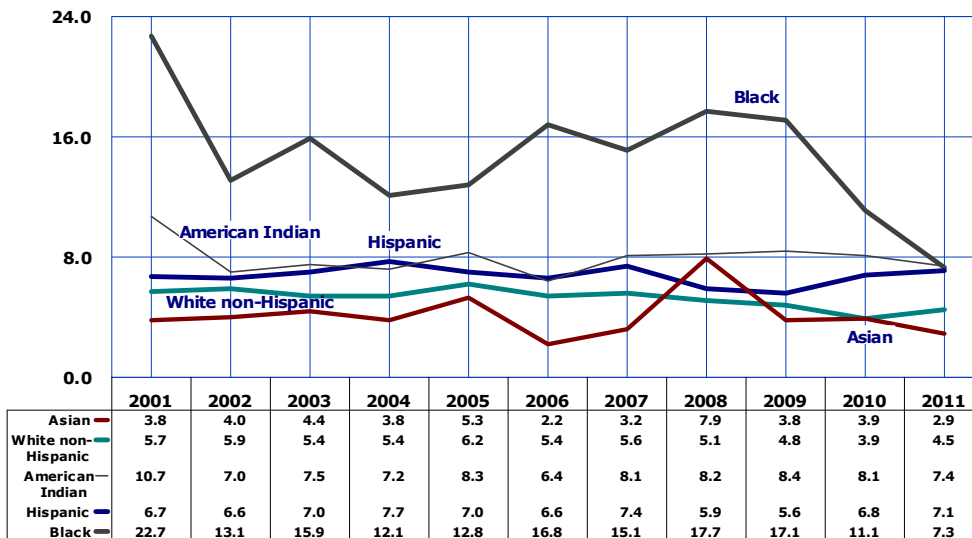
Infant mortality is defined as the number of deaths within the first year of life. The infant mortality rate (IMR) is computed as the number of infant deaths in a calendar year per 1,000 live births recorded for the same period.

In 2011, 504 Arizona infants died before reaching their first birthday, 197 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, 119 fewer infant deaths can be attributed to the absolute reduction in the number births by 17,497 from 2007 to 2011 ((17,497 x 6.8)/1,000) =119).

Based on the actual number of infant deaths and live births in 2011, the infant mortality rate of 5.9/1,000 was tied with 2009 for having the lowest IMR recorded in the past decade (**Figure 2C-1**).

Figure 2C-2
Infant Mortality Rates* by Race/Ethnicity and Year,
Arizona, 2001-2011



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

In 2011, 90.3 percent* of all infant death records were successfully matched to their corresponding birth records.

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 2011 (**Figure 2C-2, Table 2C-2**).

In 2011, American Indian infants had the worst survival chances among the ethnic groups (**Figure 2C-2**). Notably, the Black IMR decreased from 17.7/1,000 in 2008 to 7.3/1,000 in 2011, representing a 58.8 percent decrease.

*Infant death records that were not linked to their corresponding birth certificates include unrecorded home births (i.e., no birth certificates were 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, 2011

Newborn weight at birth is one of the most important predictors of an infant's survival chances. In 2011, the mortality rate among babies weighing less than 500 grams at birth was 90.8 percent (**Figure 2C-3**).

The absolute number of low birthweight births actually declined for the fourth consecutive year from 7,285 in 2007 to 5,949 in 2011. In 2011 the proportion of babies whose weight at birth was less than 1,000 grams increased from 8.0 percent of all low birthweight births in 2009 to 8.3 percent in 2011 (**Table 1B-3**).

Together, births of infants weighing less than 1,000 grams accounted for 0.6 percent of births, and 44.8 percent of all infant deaths with a matching birth records.

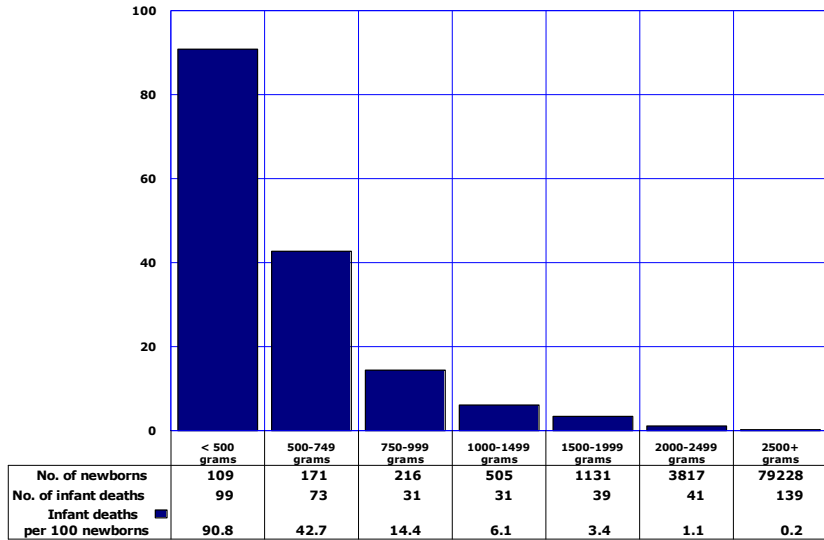
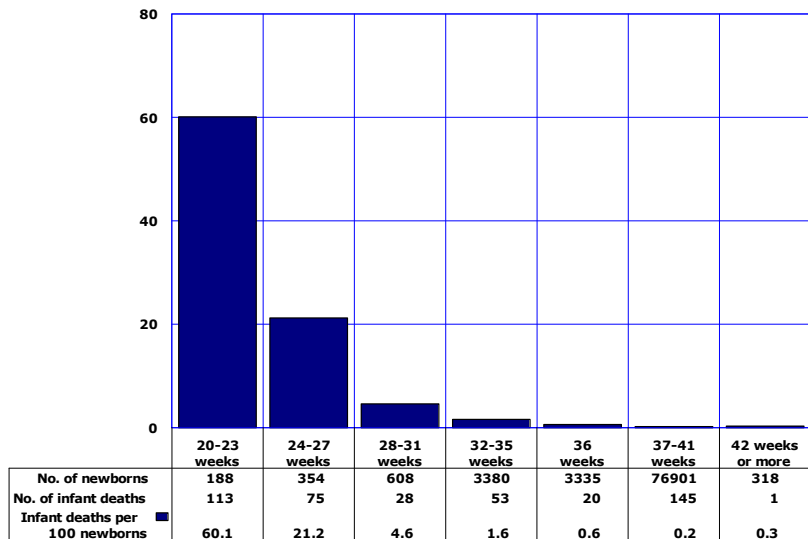


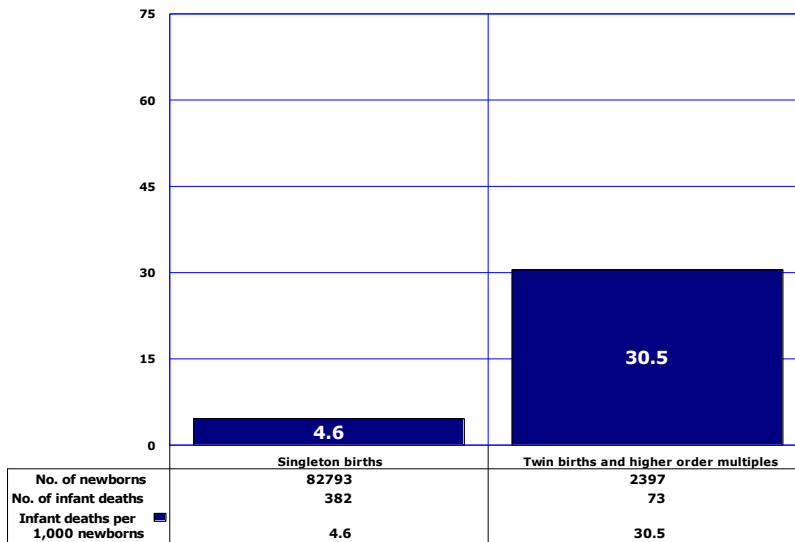
Figure 2C-4
Proportion of Infant Deaths by Gestational Age, Arizona, 2011

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 27 weeks or less of gestation accounted for only 0.6 percent of all births but 43.2 percent of infant deaths with a matching death record. Births at less than 24 weeks of gestation have a very high infant mortality rate of 60.1 percent (**Figure 2C-4**). Overall, preterm infants (those born at less than 37 weeks of gestation) accounted for 9.2 percent of all births (**Table 1B-2**) and 66.4 percent of all infant deaths (only those with matching death records).



2C. AGE-SPECIFIC MORTALITY
Infant mortality

Figure 2C-4.2
Infant Mortality Rates for Single and Multiple Births, Arizona, 2011

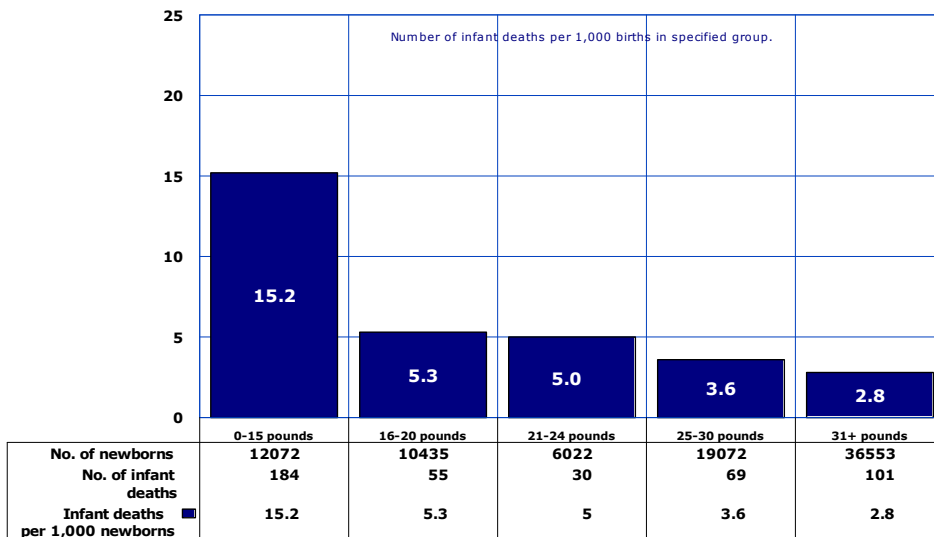


As already noted in Section 1B, infants born in multiple deliveries tend to be born at shorter gestations and smaller than those in singleton deliveries. In 2011, infants born in multiple deliveries were 12.7 times more likely (46.9 vs. 3.7 percent) to be born earlier than expected (at less than 37 completed 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 4.6 in 2011 (**Figure 2C-4.2**). The infant mortality rate for twin births or higher order multiples was 30.5.

Babies born in multiple deliveries accounted for 2.8 percent of births (**Table 1B-2**), but 16.0 percent of all infant deaths in Arizona in 2011 (only those with matching birth and death records).

Figure 2C-4.3
Infant Mortality Rates by Maternal Weight Gain during Pregnancy, Arizona, 2011



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 2011, 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 36,553 women giving birth in 2011 who gained 31 or more pounds, the risk of infant mortality was 2.8/1,000.

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, 2011

Infant mortality rates vary with maternal age. In 2011, infant mortality decreased with increasing maternal age through 30-34 years of age, but increased for infants born to women 35 years of age or older. (**Figure 2C-4.4**).

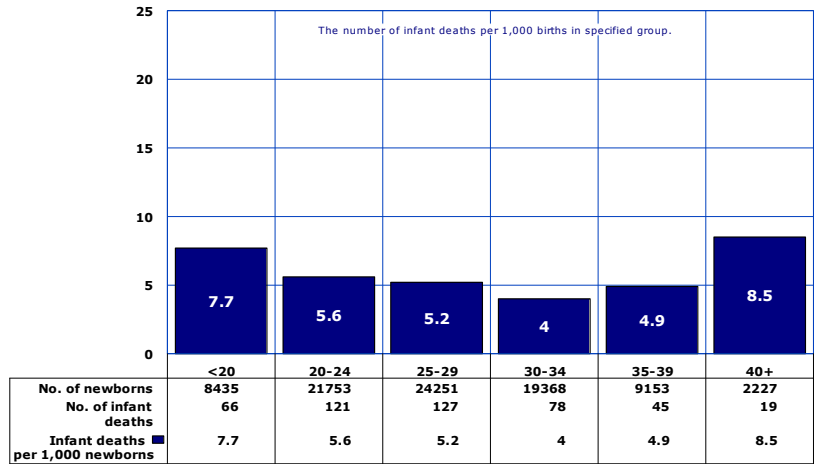
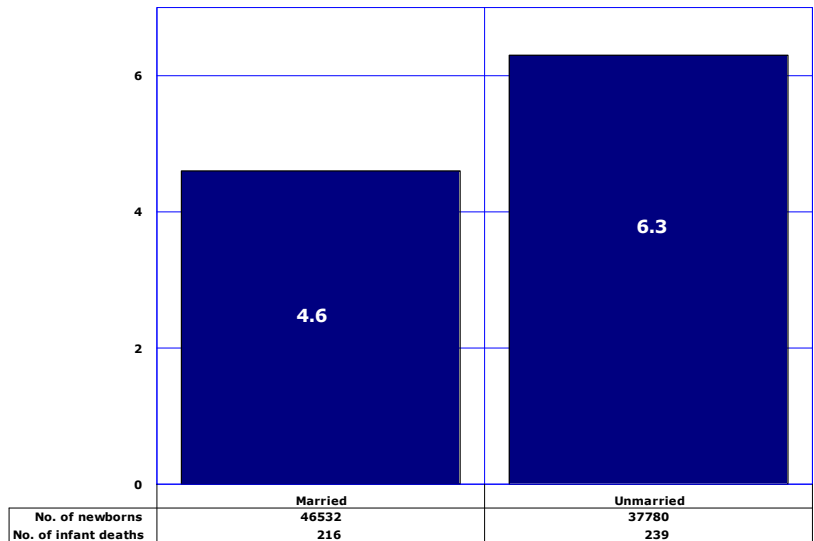


Figure 2C-4.5
Infant Mortality Rates by Mother's Marital Status, Arizona, 2011

Infants born to unmarried mothers accounted for the absolute majority of infant deaths in 2011 (239 vs. 216). The number of births to married mothers exceeded by 23.2 percent the number of births to unmarried mothers (46,532 vs. 37,780; **Table 1B-26**). In 2011, infants of married mothers had an infant mortality rate of 4.6 deaths per 1,000 live births, 27.0 percent lower than the rate for infants of unmarried mothers (6.3 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.



**TABLE 2C-1
INFANT, NEONATAL, AND POSTNEONATAL MORTALITY RATES AND PERCENT POSTNEONATAL DEATHS,
UNITED STATES, ARIZONA AND URBAN/RURAL COUNTIES OF ARIZONA, 2001-2011**

UNITED STATES	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Infant mortality ¹	6.8	7.0	6.9	6.7	6.9	6.7	6.7	6.7	6.6	6.1	6.0
Neonatal mortality ¹	4.6	4.7	4.6	4.5	4.6	4.5	4.4	4.4	4.1	NA	NA
Postneonatal mortality ¹	2.3	2.3	2.3	2.2	2.3	2.2	2.3	2.3	2.2	NA	NA
Percent postneonatal mortality ²	33.3	33.8	33.3	32.8	33.3	32.8	34.3	34.3	33.3	NA	NA
ARIZONA, STATEWIDE TOTAL											
Infant mortality ¹	6.9	6.3	6.5	6.7	6.8	6.3	6.8	6.3	5.9	6.0	5.9
Neonatal mortality ¹	4.5	4.1	4.3	4.5	4.4	4.3	4.7	4.2	3.9	3.8	3.9
Postneonatal mortality ¹	2.4	2.2	2.2	2.2	2.4	2.0	2.2	2.1	2.0	2.2	2.0
Percent postneonatal mortality ²	34.8	35.0	33.8	32.8	35.3	31.5	32.4	33.3	34.0	36.7	34.3
URBAN COUNTIES											
Infant mortality ¹	6.9	6.4	6.4	6.7	6.5	6.3	6.6	6.3	5.9	5.7	4.9
Neonatal mortality ¹	4.7	4.2	4.4	4.7	4.3	4.3	4.6	4.3	4.0	3.7	3.3
Postneonatal mortality ¹	2.2	2.2	2.0	2.0	2.2	2.0	2.0	2.0	2.0	2.0	1.6
Percent postneonatal mortality ²	31.9	34.4	31.5	29.9	33.8	31.3	30.3	31.8	33.0	35.1	32.6
RURAL COUNTIES											
Infant mortality ¹	6.3	6.2	7.1	6.9	8.6	6.3	8.0	6.2	5.5	7.4	0.9
Neonatal mortality ¹	3.4	3.8	3.8	3.8	5.0	4.3	4.8	3.5	3.9	4.5	0.5
Postneonatal mortality ¹	2.9	2.4	3.3	3.1	3.6	2.0	3.3	2.7	2.0	2.9	0.4
Percent postneonatal mortality ²	46.0	38.7	46.2	44.9	41.9	32.6	41.3	43.6	38.7	37.7	43.8

¹Rates per 1,000 live births. The U.S. rates are from the National Center for Health Statistics. The 2011 U.S. rates are provisional.

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, 2001-2011
NUMBER OF INFANT DEATHS:**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
White non-Hispanic											
Total	221	229	208	211	245	232	237	215	192	151	171
Male	138	147	124	129	140	119	135	114	109	88	98
Female	83	82	84	82	105	113	102	101	83	63	73
Hispanic or Latino											
Total	236	238	274	314	296	297	338	251	215	235	229
Male	119	139	148	168	161	173	186	142	115	144	122
Female	117	99	126	146	135	124	152	109	100	91	107
Black or African American											
Total	62	36	48	39	44	65	63	76	75	48	32
Male	36	18	26	26	30	36	42	42	41	20	16
Female	26	18	22	13	14	29	21	34	34	28	16
American Indian or Alaska Native											
Total	57	39	44	44	52	41	52	52	52	47	43
Male	29	22	22	24	25	28	29	27	28	28	15
Female	28	17	22	20	27	13	23	25	24	19	28
Asian or other Pacific Islander											
Total	8	9	11	10	15	7	11	27	13	13	10
Male	4	6	6	4	7	5	7	15	6	9	8
Female	4	3	5	6	8	2	4	12	7	4	2
All groups²											
Total	587	552	586	622	653	642	701	625	547	519	504
Male	327	332	326	353	364	361	399	343	299	302	267
Female	260	220	260	269	289	281	302	282	248	217	237

INFANT MORTALITY RATES:

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
White non-Hispanic											
Total	5.7	5.9	5.4	5.4	6.2	5.4	5.6	5.1	4.8	3.9	4.5
Male	6.9	7.3	6.2	6.4	6.9	5.4	6.3	5.3	5.4	4.4	5.0
Female	4.4	4.4	4.4	4.3	5.5	5.4	4.9	4.9	4.3	3.3	3.9
Hispanic or Latino											
Total	6.7	6.6	7.0	7.7	7.0	6.6	7.4	5.9	5.6	6.8	7.1
Male	6.7	7.5	7.4	8.0	7.5	7.5	7.9	6.5	5.8	8.3	7.3
Female	6.8	5.6	6.6	7.3	6.6	5.7	6.8	5.2	5.3	5.4	6.8
Black or African American											
Total	22.7	13.1	15.9	12.1	12.8	16.8	15.1	17.7	17.1	11.1	7.3
Male	26.8	12.6	16.6	15.7	17.2	18.3	19.5	18.7	18.0	9.1	7.3
Female	18.7	13.6	15.1	8.3	8.2	15.3	10.5	16.6	16.2	13.1	7.4
American Indian or Alaska Native											
Total	10.7	7.0	7.5	7.2	8.3	6.4	8.1	8.2	8.4	8.1	7.4
Male	10.9	7.9	7.6	7.7	7.8	8.8	9.0	8.5	9.0	9.5	5.1
Female	10.5	6.2	7.4	6.7	8.7	4.1	7.2	7.9	7.8	6.6	9.7
Asian or other Pacific Islander											
Total	3.8	4.0	4.4	3.8	5.3	2.2	3.2	7.9	3.8	3.9	2.9
Male	3.8	5.2	4.7	2.9	4.9	3.1	3.9	8.5	3.4	5.4	4.4
Female	3.8	2.7	4.0	4.8	5.8	1.3	2.5	7.2	4.3	2.5	1.2
All groups²											
Total	6.9	6.3	6.5	6.7	6.8	6.3	6.8	6.3	6.3	6.0	5.9
Male	7.5	7.4	7.0	7.4	7.4	6.9	7.6	6.8	6.3	6.8	6.1
Female	6.2	5.2	5.9	5.9	6.2	5.6	6.0	5.8	5.5	5.1	5.7

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, 2001-2011
NUMBER OF INFANT DEATHS:**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
White non-Hispanic	221	229	208	211	245	232	237	215	192	151	171
Neonatal	156	151	143	155	163	161	161	138	129	96	120
Postneonatal	65	78	65	56	82	71	76	77	63	55	51
Hispanic or Latino	236	238	274	314	296	297	338	251	215	235	229
Neonatal	159	165	190	209	205	213	239	175	150	156	152
Postneonatal	77	73	84	105	91	84	99	76	65	79	77
Black or African American	62	36	48	39	44	65	63	76	75	48	32
Neonatal	41	16	31	25	19	37	43	51	46	32	20
Postneonatal	21	20	17	14	25	28	20	25	29	16	12
American Indian or Alaska Native	57	39	44	44	52	41	52	52	52	47	43
Neonatal	22	20	18	21	27	26	27	29	26	22	19
Postneonatal	35	19	26	23	25	15	25	23	26	25	24
Asian or other Pacific Islander	8	9	11	10	15	7	11	27	13	13	10
Neonatal	5	7	5	7	9	3	9	22	10	11	10
Postneonatal	3	2	6	3	6	4	2	5	3	2	0
All groups²	587	552	586	622	653	642	701	625	547	519	504
Neonatal	386	360	388	421	424	440	479	419	361	330	331
Postneonatal	201	192	198	201	229	202	222	206	186	189	173

INFANT MORTALITY RATES:

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
White non-Hispanic	5.7	5.9	5.4	5.4	6.2	5.4	5.6	5.1	4.8	3.9	4.5
Neonatal	4.0	3.9	3.7	3.9	4.1	3.7	3.8	3.3	3.2	2.5	3.1
Postneonatal	1.7	2.0	1.7	1.4	2.1	1.7	1.8	1.8	1.6	1.4	1.3
Hispanic or Latino	6.7	6.6	7.0	7.7	7.0	6.6	7.4	5.9	5.6	6.8	7.1
Neonatal	4.5	4.6	4.9	5.1	4.9	4.7	5.2	4.1	3.9	4.5	4.7
Postneonatal	2.2	2.0	2.1	2.6	2.1	1.9	2.2	1.8	1.7	2.3	2.4
Black or African American	22.7	13.1	15.9	12.1	12.8	16.8	15.1	17.7	17.1	11.1	7.3
Neonatal	15.0	5.8	10.3	7.8	5.5	9.6	10.3	11.9	10.5	7.4	4.6
Postneonatal	7.7	7.3	5.6	4.4	7.3	7.2	4.8	5.8	6.6	3.7	2.7
American Indian or Alaska Native	10.7	7.0	7.5	7.2	8.3	6.4	8.1	8.2	8.4	8.1	7.4
Neonatal	4.1	3.6	3.1	3.4	4.3	4.0	4.2	4.6	4.2	3.8	3.3
Postneonatal	6.6	3.4	4.4	3.8	4.0	2.4	3.9	3.6	4.2	4.3	4.1
Asian or other Pacific Islander	3.8	4.0	4.4	3.8	5.3	2.2	3.2	7.9	3.8	3.9	2.9
Neonatal	2.4	3.1	2.0	2.7	3.2	1.0	2.6	6.4	2.9	3.3	2.9
Postneonatal	1.4	0.9	2.4	1.1	2.1	1.2	0.6	1.5	0.9	0.6	0.0
All groups²	6.9	6.3	6.5	6.7	6.8	6.3	6.8	6.3	5.9	6.0	5.9
Neonatal	4.5	4.1	4.3	4.5	4.4	4.3	4.7	4.2	3.9	3.8	3.9
Postneonatal	2.4	2.2	2.2	2.2	2.4	2.0	2.2	2.1	2.0	2.2	2.0

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-4
NEONATAL, POSTNEONATAL, AND TOTAL INFANT MORTALITY BY CHILD'S GENDER AND MOTHER'S RACE/ETHNICITY,
ARIZONA, 2011**

	NUMBER OF DEATHS BY AGE			MORTALITY RATES ¹		
	Total	Neonatal	Postneonatal	Total	Neonatal	Postneonatal
TOTAL, ALL GROUPS	504	331	173	5.9	3.9	2.0
Male	267	180	87	6.1	4.1	2.0
Female	237	151	86	5.7	3.6	2.1
White non-Hispanic	171	120	51	4.5	3.1	1.3
Male	98	69	29	5.0	3.5	1.5
Female	73	51	22	3.9	2.7	1.2
Hispanic or Latino	229	152	77	7.1	4.7	2.4
Male	122	80	42	7.3	4.8	2.5
Female	107	72	35	6.8	4.6	2.2
Black or African American	32	20	12	7.3	4.6	2.7
Male	16	10	6	7.3	4.5	2.7
Female	16	10	6	7.4	4.6	2.8
American Indian or Alaska Native	43	19	24	7.4	3.3	4.1
Male	15	9	6	5.1	3.0	2.0
Female	28	10	18	9.7	3.5	6.3
Asian or other Pacific Islander	10	10	0	2.9	2.9	0.0
Male	8	8	0	4.4	4.4	0.0
Female	2	2	0	1.2	1.2	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, 2001-2011**

Causes of death	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Congenital malformations, deformations and chromosomal abnormalities	141	99	126	152	149	142	159	145	122	114	107
of respiratory system	14	11	10	14	15	9	9	5	5	9	2
of brain, spinal cord, or nervous system	18	18	23	20	19	28	20	24	15	21	13
Short gestation and low birth weight	73	95	85	84	79	93	95	91	101	64	60
Maternal complications	27	34	31	36	47	42	30	53	31	27	33
Sudden infant death syndrome	34	36	28	25	32	37	43	21	42	34	25
Accidents (unintentional injuries)	25	21	23	19	24	17	30	19	18	18	23
Influenza and pneumonia	20	19	21	17	19	13	5	4	10	3	5
Assault (homicide)	5	3	11	5	8	11	12	4	2	6	6
Intrauterine hypoxia or birth asphyxia	7	15	10	14	12	7	11	11	4	5	11
Respiratory distress syndrome	14	6	8	8	12	12	8	11	8	7	4
Total, all causes	587	552	586	622	653	642	701	625	547	519	504

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, 2001-2011**

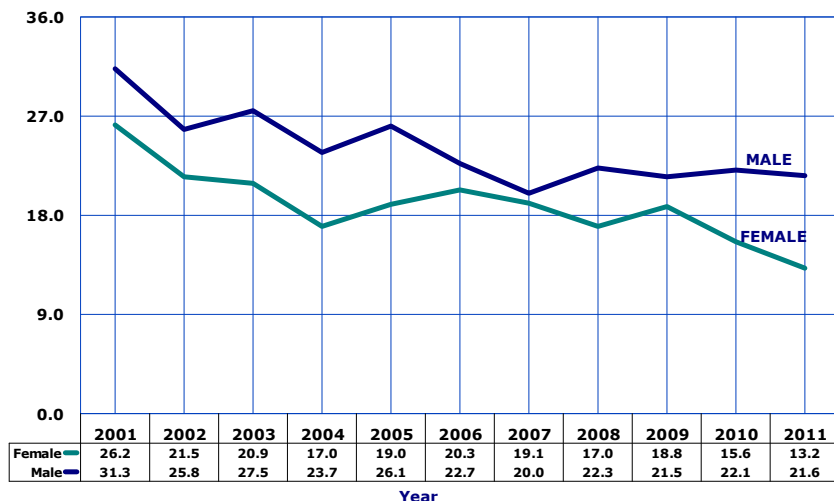
Causes of death	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Congenital malformations, deformations and chromosomal abnormalities	1.7	1.1	1.4	1.6	1.6	1.4	1.5	1.5	1.3	1.3	1.3
of respiratory system	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0
of brain, spinal cord or nervous system	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
Short gestation and low birth weight	0.9	1.1	0.9	0.9	0.8	0.9	0.9	0.9	1.1	0.7	0.7
Maternal complications	0.3	0.4	0.3	0.4	0.5	0.4	0.3	0.5	0.3	0.3	0.4
Sudden infant death syndrome	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.2	0.4	0.4	0.3
Accidents (unintentional injuries)	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.3
Influenza and pneumonia	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.0	0.1
Assault (homicide)	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1
Intrauterine hypoxia or birth asphyxia	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
Respiratory distress syndrome	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Total, all causes	6.9	6.3	6.5	6.7	6.8	6.3	6.8	6.3	5.9	6.0	5.9

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, 2001-2011

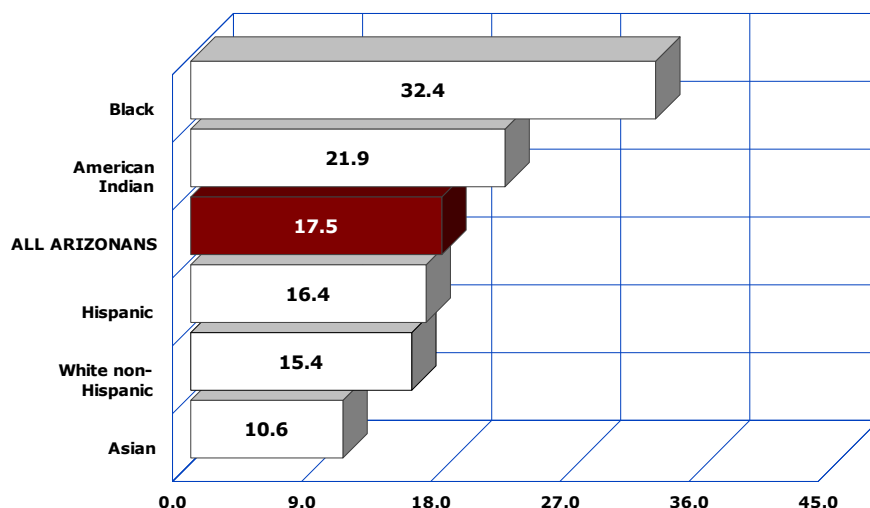


Death claimed the lives of 224 of the 1,279,995 children (1 to 14 years old) residing in Arizona in 2011. Their 2011 mortality rate of 17.5 per 100,000 was 13.4 percent lower than the rate of 20.2 in 2009 (**Table 2C-7**). Females but not males experienced a decrease in their total mortality rates from 2009 to 2011 (**Figure 2C-5, Table 2C-7**).

The five causes with the greatest number of deaths from 2001-2011 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, 2011



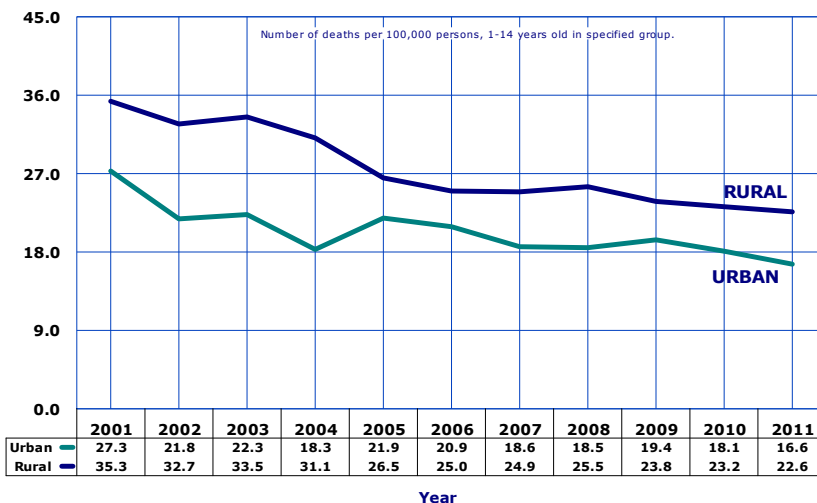
Black or African American children had the highest 2011 total mortality rate (32.4 deaths per 100,000) followed by American Indian children (21.9/100,000; **Figure 2C-6**). The mortality rates of Hispanic or Latino, White non-Hispanic, and Asian were lower than the average rate for all groups.

In 2011, there were 25 children who died of accidental drowning and submersion, 14 children who died of assault, and 12 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, 2001-2011

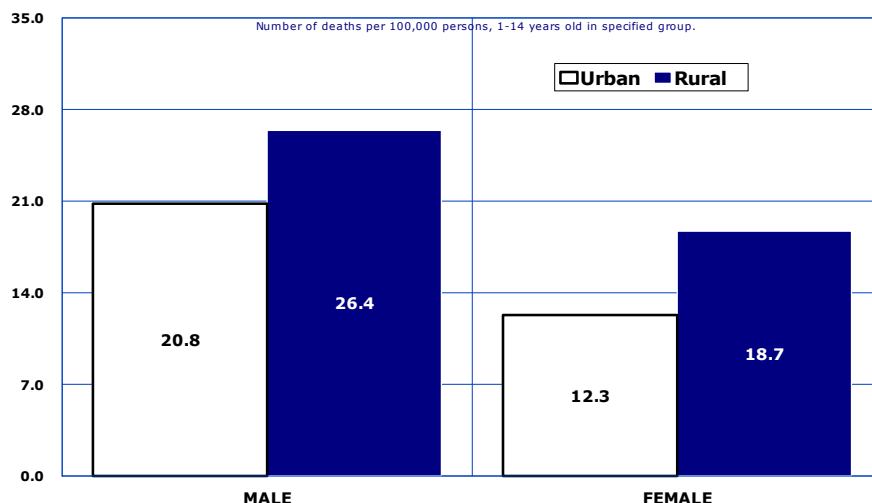


From 2008 to 2009 the total mortality rates increased for urban children but they decreased for rural children (Figure 2C-7, Table 2C-8).

From 2009 to 2011, the mortality rates decreased for both urban and rural children (Figure 2C-7). From 2001 to 2011 the total mortality rates decreased by 39.2 percent for urban children and by 36.0 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, 2011



From 2009 to 2011, the mortality rate for accidents decreased for urban children and increased for rural children (Table 2C-8). The mortality rate for unintentional injuries among rural children (11.3/100,000) was 2.0 times the rate among urban children (5.7/100,000, Table 2C-8). Interestingly, the mortality rate for accidental drowning was 4.4 times higher for urban children (2.2/100,000) than for rural children (.5/100,000).

Urban females 1-14 years old had the lowest 2011 mortality risk among gender by area groups, followed by rural 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, 2001-2011**

Gender/Cause	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
MALE												
Accidents (unintentional injuries)	13.7	9.6	11.3	9.5	10.0	8.0	8.3	7.8	8.0	8.2	9.6	-29.9
Motor vehicle accidents	6.5	5.1	6.5	5.2	4.5	4.2	4.6	2.5	4.2	3.1	4.0	-38.5
Drowning	3.5	2.4	2.8	2.7	2.3	0.9	1.5	2.9	2.6	2.5	2.6	-25.7
Other	3.7	2.1	2.0	1.6	3.2	2.9	2.2	2.4	1.2	2.6	3.1	-16.2
Malignant neoplasms	2.5	1.4	2.7	1.6	1.7	1.7	2.2	2.5	3.1	1.9	1.7	-32.0
Congenital malformations	1.4	1.2	1.7	1.6	1.9	2.3	0.7	1.8	1.5	1.5	1.7	21.4
Intentional self-harm (suicide)	1.6	1.0	1.2	0.3	1.1	0.5	0.4	0.9	0.4	1.2	1.1	-31.3
Assault (homicide)	1.9	1.9	0.7	2.3	2.0	1.5	1.3	1.2	0.9	2.0	0.9	-52.6
ALL CAUSES	31.3	25.8	27.5	23.7	26.1	22.7	20.0	22.3	21.5	22.1	21.6	-31.0
(Number of all deaths)	(178)	(151)	(166)	(147)	(168)	(150)	(134)	(152)	(148)	(143)	(141)	(-20.8)
FEMALE												
Accidents (unintentional injuries)	9.4	7.3	6.8	6.6	7.8	7.8	6.3	4.6	5.5	5.1	3.2	-66.0
Motor vehicle accidents	4.1	4.5	4.2	4.1	4.6	4.1	3.6	2.8	2.9	2.4	1.1	-73.2
Drowning	2.6	1.4	1.2	1.2	1.6	2.1	0.8	0.9	0.6	1.3	1.3	-50.0
Other	2.7	1.4	1.4	1.0	1.6	1.6	1.9	0.9	2.0	1.4	0.8	-70.4
Malignant neoplasms	2.2	2.5	2.6	2.0	2.1	0.9	4.2	2.0	1.8	2.2	2.4	9.1
Assault (homicide)	2.4	1.3	1.0	0.7	0.8	0.8	1.4	0.9	1.8	0.3	1.3	-45.8
Congenital malformations	2.4	1.8	1.9	1.4	1.8	2.1	1.3	1.5	1.4	1.6	1.0	-58.3
Influenza and pneumonia	0.7	0.4	0.5	0.7	0.5	0.9	0.2	0.6	0.5	0.3	0.3	-71.4
ALL CAUSES	26.2	21.5	20.9	17.0	19.0	20.3	19.1	17.0	18.8	15.6	13.2	-49.6
(Number of all deaths)	(142)	(120)	(120)	(101)	(117)	(128)	(122)	(110)	(123)	(97)	(83)	(-41.5)
TOTAL												
Accidents (unintentional injuries)	11.6	8.5	9.1	8.1	8.9	7.9	7.3	6.2	6.8	6.7	6.5	-44.0
Motor vehicle accidents	5.3	4.8	5.4	4.6	4.5	4.2	4.1	2.6	3.6	2.8	2.6	-50.9
Drowning	3.1	1.9	2.0	2.0	2.0	1.5	1.1	2.0	1.6	1.9	2.0	-35.5
Other	3.2	1.8	1.7	1.5	2.4	2.2	2.1	1.6	1.6	2.0	2.0	-37.5
Malignant neoplasms	2.3	1.9	2.6	1.8	1.9	1.3	3.2	2.3	2.5	2.0	2.0	-13.0
Congenital malformations	1.9	1.5	1.8	1.5	1.8	2.2	1.0	1.7	1.4	1.6	1.3	-31.6
Assault (homicide)	2.2	1.6	0.8	1.5	1.4	1.2	1.4	1.1	1.3	1.2	1.1	-50.0
Intentional self-harm (suicide)	0.8	1.0	0.7	0.2	0.9	0.9	0.4	0.6	0.3	0.7	0.9	12.5
ALL CAUSES	28.8	23.7	24.3	20.4	22.7	21.5	19.5	19.7	20.2	18.9	17.5	-39.2
(Number of all deaths)	(320)	(271)	(286)	(248)	(285)	(278)	(256)	(262)	(271)	(240)	(224)	(-30)

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

²The five causes with the greatest number of deaths over the 2001-2011 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 2001-2011 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-8
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES² OF DEATH AMONG CHILDREN (1-14 YEARS)
IN URBAN AND RURAL AREAS³, ARIZONA, 2001-2011**

Area/Cause	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
URBAN												
Accidents (unintentional injuries)	11.3	7.1	7.3	6.8	9.2	7.1	6.5	5.4	6.4	6.0	5.7	-49.6
Motor vehicle accidents	4.8	3.4	4.2	3.7	4.2	3.9	3.2	2.0	3.2	2.5	1.7	-64.6
Drowning	3.5	2.2	2.2	2.1	2.3	1.4	1.3	1.8	1.8	1.8	2.2	-37.1
Other	3.0	1.5	0.9	1.0	2.7	1.8	2.0	1.7	1.5	1.7	1.7	-43.3
Malignant neoplasms	2.6	2.0	2.8	1.6	2.2	1.5	3.4	2.6	2.6	2.3	2.1	-19.2
Congenital malformations	2.0	1.6	1.6	1.5	1.7	2.4	0.8	1.7	1.3	1.8	1.3	-35.0
Assault (homicide)	2.4	1.6	0.9	1.4	1.3	1.1	1.4	1.1	1.3	1.3	1.2	-50.0
Diseases of heart	0.7	0.7	0.5	0.8	0.4	1.0	0.4	0.4	0.3	0.3	0.4	-42.9
ALL CAUSES	27.3	21.8	22.4	18.3	21.9	20.9	18.6	18.5	19.4	18.1	16.6	-39.2
(Number of all deaths)	(251)	(207)	(219)	(184)	(229)	(228)	(206)	(210)	(221)	(197)	(182)	(-27.5)
RURAL												
Accidents (unintentional injuries)	13.2	15.3	18.0	14.6	7.6	12.0	12.0	10.3	8.8	10.8	11.3	-14.4
Motor vehicle accidents	7.9	11.8	11.0	9.2	6.2	5.5	9.0	6.4	5.8	4.3	7.5	-5.1
Drowning	1.1	0.5	1.5	1.5	0.5	2.0	0.5	2.5	1.0	2.2	0.5	-54.5
Other	4.2	3.0	5.5	3.9	0.9	4.5	2.5	1.5	1.9	4.3	3.2	-23.8
Malignant neoplasms	1.1	1.5	2.0	2.9	0.5	0.5	2.0	0.5	1.9	0.5	1.6	45.5
Congenital malformations	1.6	1.0	2.5	1.5	2.4	1.0	2.0	1.5	1.9	0.5	1.6	0.0
Assault (homicide)	1.1	1.5	0.5	1.9	1.9	1.5	1.0	1.0	1.5	0.5	0.5	-54.5
Intentional self-harm (suicide)	1.6	2.0	1.0	0.5	2.8	2.0	0.5	1.5	0.5	1.1	0.5	-68.8
ALL CAUSES	35.3	32.7	33.5	31.1	26.5	25.0	24.9	25.5	23.8	23.2	22.6	-36.0
(Number of all deaths)	(67)	(64)	(67)	(64)	(56)	(50)	(50)	(52)	(49)	(43)	(42)	(-37.3)
STATEWIDE												
Accidents (unintentional injuries)	11.6	8.5	9.1	8.1	8.9	7.9	7.3	6.2	6.8	6.7	6.5	-44.0
Motor vehicle accidents	5.3	4.8	5.4	4.6	4.5	4.2	4.1	2.6	3.6	2.8	2.6	-50.9
Drowning	3.1	1.9	2.0	2.0	2.0	1.5	1.1	2.0	1.6	1.9	2.0	-35.5
Other	3.2	1.8	1.7	1.5	2.4	2.2	2.1	1.6	1.6	2.0	2.0	-37.5
Malignant neoplasms	2.3	1.9	2.6	1.8	1.9	1.3	3.2	2.3	2.5	2.0	2.0	-13.0
Congenital malformations	1.9	1.5	1.8	1.5	1.8	2.2	1.0	1.7	1.4	1.6	1.3	-31.6
Assault (homicide)	2.2	1.6	0.8	1.5	1.4	1.2	1.4	1.1	1.3	1.2	1.1	-50.0
Intentional self-harm (suicide)	0.8	1.0	0.7	0.2	0.9	0.9	0.4	0.6	0.3	0.7	0.9	12.5
ALL CAUSES	28.8	23.7	24.3	20.4	22.7	21.5	19.5	19.7	20.2	18.9	17.5	-39.2
(Number of all deaths)	(320)	(271)	(286)	(248)	(285)	(278)	(256)	(262)	(271)	(240)	(224)	(-30.0)

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

²The five causes with the greatest number of deaths over the 2001-2011 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 2001-2011 are classified by ICD-10. Measures of 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-9
MORTALITY RATES¹ FOR THE FIVE LEADING CAUSES OF DEATH AMONG CHILDREN (1-14 YEARS) BY GENDER
IN URBAN AND RURAL AREAS², ARIZONA, 2001-2011**

Area/Gender	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
URBAN												
Male	29.5	24.5	24.4	21.9	25.9	22.2	19.2	21.1	20.6	20.0	20.8	-29.5
Female	25.0	19.0	20.2	14.4	17.6	19.5	18.0	15.9	18.2	16.2	12.3	-50.8
TOTAL	27.3	21.8	22.3	18.3	21.9	20.9	18.6	18.5	19.4	18.1	16.6	-39.2
RURAL												
Male	39.2	32.0	42.1	31.8	27.0	25.5	24.4	27.9	25.7	33.9	26.4	-32.7
Female	31.2	33.4	24.5	30.3	26.1	24.4	25.4	23.0	21.8	12.1	18.7	-40.1
TOTAL	35.3	32.7	33.5	31.1	26.5	25.0	24.9	25.5	23.8	23.2	22.6	-36.0
STATEWIDE												
Male	31.3	25.8	27.5	23.7	26.1	22.7	20.0	22.3	21.5	22.1	21.6	-31.0
Female	26.2	21.5	20.9	17.0	19.0	20.3	19.1	17.0	18.8	15.6	13.2	-49.6
TOTAL	28.8	23.7	24.3	20.4	22.7	21.5	19.5	19.7	20.2	18.9	17.5	-39.2

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, 2011**

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 other Pacific Islander	Unspecified other or unknown race
Accidents (unintentional injury)	83	63	20	62	21	37	29	5	7	2	3
Motor vehicle accidents	33	26	7	19	14	13	11	2	5	0	2
Accidental drowning and submersion	25	17	8	24	1	11	9	2	0	2	1
Malignant neoplasms	26	11	15	23	3	10	13	2	1	0	0
Leukemia	6	3	3	5	1	1	5	0	0	0	0
Congenital malformations	17	11	6	14	3	7	7	1	2	0	0
Assault (homicide)	14	6	8	13	1	2	8	2	1	0	1
By discharge of firearms	3	2	1	3	0	0	3	0	0	0	0
By other means	11	4	7	10	1	2	5	2	1	0	1
Intentional self-harm (suicide)	12	7	5	11	1	6	3	2	1	0	0
Chronic lower respiratory diseases	5	2	3	5	0	1	3	0	1	0	0
Asthma	5	2	3	5	0	1	3	0	1	0	0
Influenza and pneumonia	4	3	1	3	1	0	2	2	0	0	0
Total, all causes***	224	141	83	182	42	85	87	21	21	4	6

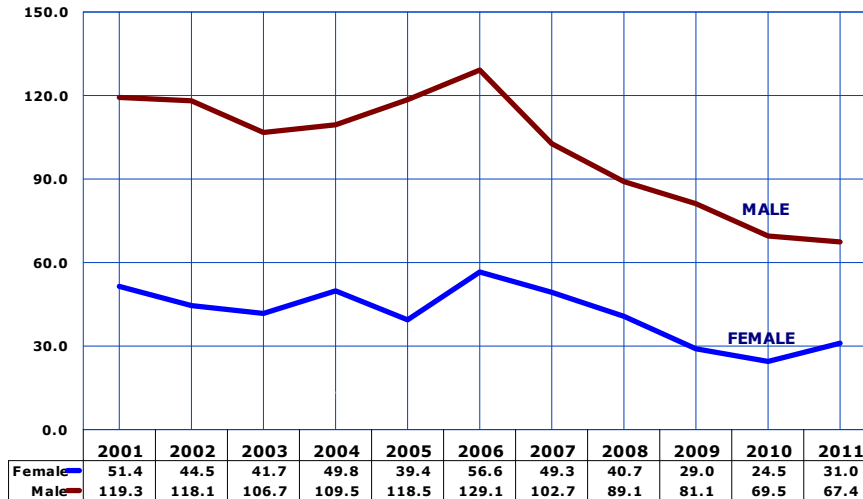
* May include death records where the county of residence could not be classified as urban or rural.

** 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, 2001-2011

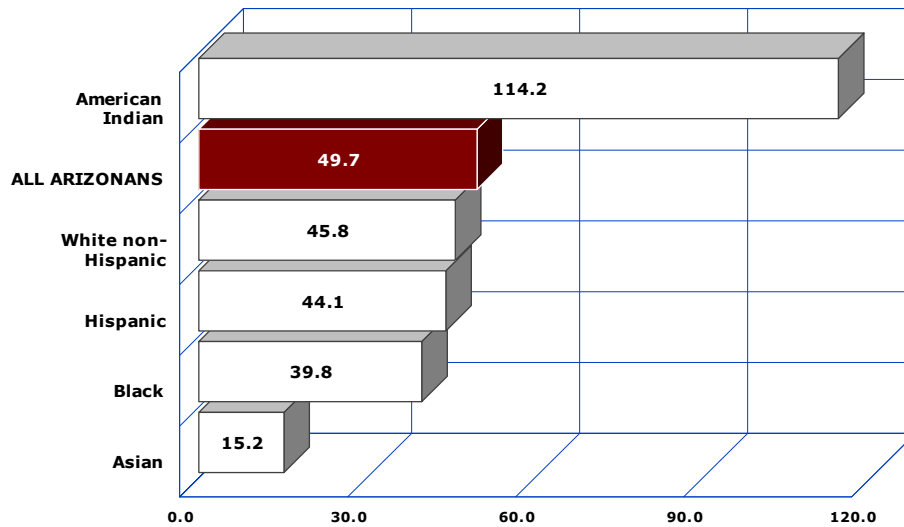


Adolescence refers to those individuals between the ages of 15 and 19, an important developmental period marking the transition from childhood to adulthood. In 2011, an estimated 464,724 adolescents resided in Arizona, comprising 7.2 percent of the State's population (Table 10A-1). The lives of 231 resident adolescents prematurely ended in 2011, resulting in a total mortality rate of 49.7 deaths per 100,000 adolescents. This mortality rate was 42.6 percent lower than the 2001 rate (Table 2C-11).

The likelihood of dying was 2.2 times as high for adolescent boys as girls in 2011 (Figure 2C-9, Table 2C-11).

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

Figure 2C-10
Mortality Rates by Race/Ethnicity among Adolescents 15-19 Years,
Arizona, 2011



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 2001-2011 period were *unintentional injuries in accidents, suicide, homicide, malignant neoplasms, and diseases of heart* (Table 2C-11).

From best to worst chances in 2011 of adolescents in survival was Asian, Black, Hispanic or Latino, White non-Hispanic, and American Indian (Figure 2C-10). If the 2011 mortality risk of Asian adolescents (i.e., their mortality rate) applied to all adolescents, only 71 would have died: 160 less than the 231 who actually did.

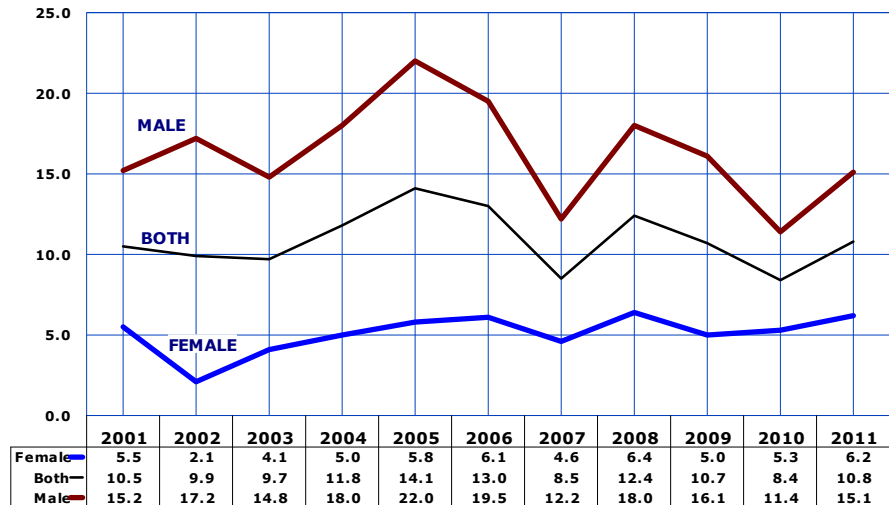
The number of deaths from accidental drug poisoning declined from 39 in 2009 to 25 in 2011. The number of deaths from motor vehicle-related injuries increased from 50 in 2009 and 58 in 2011.

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

Overall, the number of suicides among Arizonans age 15-19 years increased from 39 in 2010 to 50 in 2011. (Table 2C-14). In 2011, as in prior years, male adolescents accounted for the absolute majority (72.0 percent) of completed suicides

Compared to 2009, the suicide rate slightly increased in both 2010 and 2011 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, but again rose to 15.1/100,000 in 2011. The male to female ratio in suicide mortality rates decreased from 2.8:1 in 2001 to 2.4:1 in 2011. In other words, male adolescents were 2.4 times more likely to kill themselves in 2011 than female adolescents, compared to 2.8 times more likely in 2001.

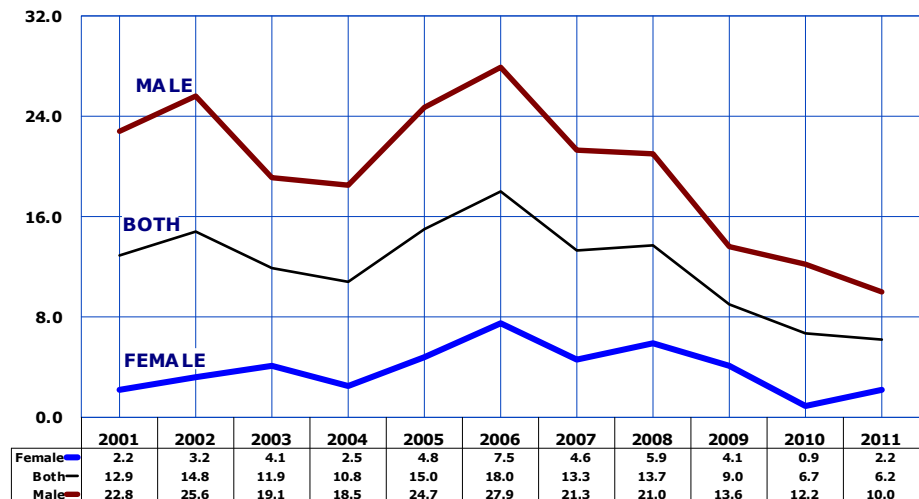
Figure 2C-11
Suicide Rates by Gender and Year among Adolescents 15-19 Years, Arizona, 2001-2011



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

From 2004 to 2006, the homicide rates increased for both adolescent males and females (Figure 2C-12, Table 2C-11). From 2008 to 2011, the homicide rate decreased by 52.4 percent for adolescent males, and by 62.7 percent for adolescent females. Overall, the homicide rate decreased by 54.7 percent from 13.7/100,000 in 2008 to 6.2/100,000 in 2011. The male mortality risk was 4.5 times greater than the female mortality risk in 2011.

Figure 2C-12
Homicide Rates by Gender and Year among Adolescents 15-19 Years, Arizona, 2001-2011



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, 2001-2011**

Gender/Cause	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
MALE												
Accidents (unintentional injuries)	51.3	50.2	49.3	51.3	49.4	57.7	48.3	33.0	34.4	27.0	29.3	-42.9
Motor vehicle accidents	33.5	37.4	35.9	36.1	33.2	41.7	35.3	21.9	15.3	15.2	18.8	-43.9
Other	17.8	12.8	13.4	15.3	16.2	16.0	13.0	11.1	19.1	11.8	0.8	-95.5
Intentional self-harm (suicide)	15.2	17.2	14.8	18.0	22.0	19.5	12.2	18.0	16.1	11.4	15.1	-0.7
Assault (homicide)	22.8	25.6	19.1	18.5	24.7	27.9	21.3	21.0	13.6	12.2	10.0	-56.1
Malignant neoplasms	5.6	5.4	2.4	6.5	4.0	3.1	3.5	5.1	3.4	2.5	2.1	-62.5
Diseases of heart	4.1	2.5	1.9	1.8	1.8	1.8	2.2	0.4	1.3	2.1	1.3	-68.3
ALL CAUSES	119.3	118.1	106.7	109.5	118.5	129.1	102.7	89.1	81.1	69.5	67.4	-43.5
(Number of all deaths)	(235)	(240)	(223)	(237)	(264)	(291)	(236)	(208)	(191)	(165)	(161)	31.5
FEMALE												
Accidents (unintentional injuries)	22.9	22.2	19.1	28.9	18.3	28.1	23.7	18.3	9.1	9.4	9.7	-57.6
Motor vehicle accidents	18.6	18.0	15.5	24.9	16.3	26.2	17.7	12.4	6.3	4.5	5.8	-68.8
Other	4.3	4.2	3.6	4.0	2.0	1.9	6.0	5.9	2.7	4.9	0.9	-79.1
Intentional self-harm (suicide)	5.5	2.1	4.1	5.0	5.8	6.1	4.6	6.4	5.0	5.3	6.2	12.7
Malignant neoplasms	4.9	3.2	2.6	2.5	1.4	3.7	4.2	4.1	3.2	2.7	4.4	-10.2
Assault (homicide)	2.2	3.2	4.1	2.5	4.8	7.5	4.6	5.9	4.1	0.9	2.2	0.0
Diseases of heart	1.1	1.1	0.5	0.5	1.0	1.4	1.4	0.9	1.4	0.9	0.9	-18.2
ALL CAUSES	51.4	44.5	41.7	49.8	39.4	56.6	49.3	40.7	29.0	24.5	31.0	-39.7
(Number of all deaths)	(94)	(84)	(81)	(100)	(82)	(121)	(106)	(89)	(64)	(55)	(70)	(-25.5)
TOTAL												
Accidents (unintentional injuries)	37.6	36.7	34.7	40.5	34.3	43.3	36.4	25.9	22.1	18.4	19.8	-47.3
Motor vehicle accidents	26.3	28.1	26.0	30.7	25.0	34.2	26.8	17.3	11.0	10.0	12.5	-52.5
Other	11.3	8.6	8.7	9.8	9.3	9.1	9.6	8.6	11.2	8.4	0.9	-92.0
Intentional self-harm (suicide)	10.5	9.9	9.7	11.8	14.1	13.0	8.5	12.4	10.7	8.4	10.8	2.9
Assault (homicide)	12.9	14.8	11.9	10.8	15.0	18.0	13.3	13.7	9.0	6.7	6.2	-51.9
Malignant neoplasms	5.3	4.3	2.5	4.6	2.8	3.4	3.8	4.6	3.3	2.6	3.2	-39.6
Diseases of heart	2.6	1.8	1.2	1.2	1.4	1.6	1.8	0.9	1.3	1.5	1.1	-57.7
ALL CAUSES	86.6	82.7	75.4	80.8	80.1	93.8	76.9	65.7	55.9	47.7	49.7	-42.6
(Number of all deaths)	(329)	(324)	(304)	(337)	(346)	(412)	(342)	(297)	(255)	(220)	(231)	(-29.8)

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

²The five causes with the greatest number of deaths over the 2001-2011 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 2001-2011 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, 2001-2011**

Area/Cause	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
URBAN												
Accidents (unintentional injuries)	33.3	36.1	29.9	37.3	28.9	40.3	30.9	23.7	18.7	17.0	18.4	-44.7
Motor vehicle accidents	23.4	27.4	22.0	27.1	20.5	32.2	21.9	14.8	9.6	9.3	10.8	-53.8
Other	9.9	8.7	7.9	10.2	8.4	8.1	9.0	8.9	9.1	7.7	1.0	-89.9
Intentional self-harm (suicide)	7.4	9.3	9.1	11.4	13.2	10.6	8.2	9.4	9.6	7.2	8.5	14.9
Assault (homicide)	14.4	16.2	13.6	9.9	16.8	20.0	14.8	15.3	9.6	6.7	6.4	-55.6
Malignant neoplasms	5.1	4.4	2.4	4.1	2.8	2.8	3.8	4.6	3.2	2.3	2.8	-45.1
Diseases of heart	2.6	1.6	1.2	1.5	1.4	1.4	1.6	1.1	1.3	1.5	1.3	-50.0
ALL CAUSES	77.6	82.4	69.8	75.8	75.8	88.9	72.5	61.4	51.5	43.6	45.3	-41.6
(Number of all deaths)	(242)	(265)	(231)	(260)	(270)	(320)	(265)	(230)	(194)	(169)	(177)	(-26.9)
RURAL												
Accidents (unintentional injuries)	57.2	39.8	57.0	54.1	59.4	56.8	61.9	36.0	36.9	25.5	26.9	-53.0
Motor vehicle accidents	39.6	31.3	44.5	46.0	46.2	42.9	49.2	28.6	17.2	13.4	21.5	-45.7
Other	17.6	8.5	12.5	8.1	13.2	13.9	12.7	7.4	19.7	12.1	0.0	NA
Intentional self-harm (suicide)	24.9	12.8	12.5	13.5	18.5	24.0	10.1	26.1	16.0	14.8	22.9	-8.0
Assault (homicide)	5.9	8.5	4.2	14.9	6.6	8.8	6.3	7.5	6.1	6.7	5.4	-8.5
Malignant neoplasms	5.9	4.3	2.8	6.8	2.6	6.3	3.8	6.2	3.7	4.0	5.4	-8.5
Diseases of heart	2.9	2.8	1.4	0.0	1.3	2.5	2.5	0.0	1.2	1.3	0.0	NA
ALL CAUSES	123.2	83.9	101.5	102.7	100.3	116.2	97.2	83.3	75.0	68.6	72.7	-41.0
(Number of all deaths)	(84)	(59)	(73)	(76)	(76)	(92)	(77)	(67)	(61)	(51)	(54)	(-35.7)
STATEWIDE												
Accidents (unintentional injuries)	37.6	36.7	34.7	40.5	34.3	43.3	36.4	25.9	22.1	18.4	19.8	-47.3
Motor vehicle accidents	26.3	28.1	26.0	30.7	25.0	34.2	26.8	17.3	11.0	10.0	12.5	-52.5
Other	11.3	8.6	8.7	9.8	9.3	9.1	9.6	8.6	11.2	8.4	0.9	-92.0
Intentional self-harm (suicide)	10.5	9.9	9.7	11.8	14.1	13.0	8.5	12.4	10.7	8.4	10.8	2.9
Assault (homicide)	12.9	14.8	11.9	10.8	15.0	18.0	13.3	13.7	9.0	6.7	6.2	-51.9
Malignant neoplasms	5.3	4.3	2.5	4.6	2.8	3.4	3.8	4.6	3.3	2.6	3.2	-39.6
Diseases of heart	2.6	1.8	1.2	1.2	1.4	1.6	1.8	0.9	1.3	1.5	1.1	-57.7
ALL CAUSES	86.6	82.7	75.4	80.8	80.1	93.8	76.9	65.7	55.9	47.7	49.7	-42.6
(Number of all deaths)	(329)	(324)	(304)	(337)	(346)	(412)	(342)	(297)	(255)	(220)	(231)	(-29.8)

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

²The five causes with the greatest number of deaths over the 2001-2011 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 2001-2011 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, 2000-2011

Area/Gender	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
URBAN												
Male	110.1	121.8	98.4	105.1	112.7	121.7	97.9	84.3	73.8	62.8	62.2	-43.5
Female	42.6	40.0	38.9	44.2	36.1	54.2	45.3	36.8	27.6	23.4	27.4	-35.7
TOTAL	77.6	82.4	69.8	75.8	75.8	88.9	72.5	61.4	51.5	43.6	45.3	-41.6
RURAL												
Male	158.4	101.5	144.8	127.9	142.5	162.3	125.2	109.0	112.6	104.9	94.6	-40.3
Female	85.3	64.9	54.9	74.5	54.8	67.5	57.6	56.2	35.4	30.3	49.6	-41.9
TOTAL	123.2	83.9	101.5	102.7	100.3	116.2	97.2	83.3	75.0	68.6	72.7	-41.0
STATEWIDE												
Male	119.3	118.1	106.7	109.5	118.5	129.1	102.7	89.1	81.1	69.5	67.4	-43.5
Female	51.4	44.5	41.7	49.8	39.4	56.6	49.3	40.7	29.0	24.5	31.0	-39.7
TOTAL	86.6	82.7	75.4	80.8	80.1	93.8	76.9	65.7	55.9	47.7	49.7	-42.6

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, 2011**

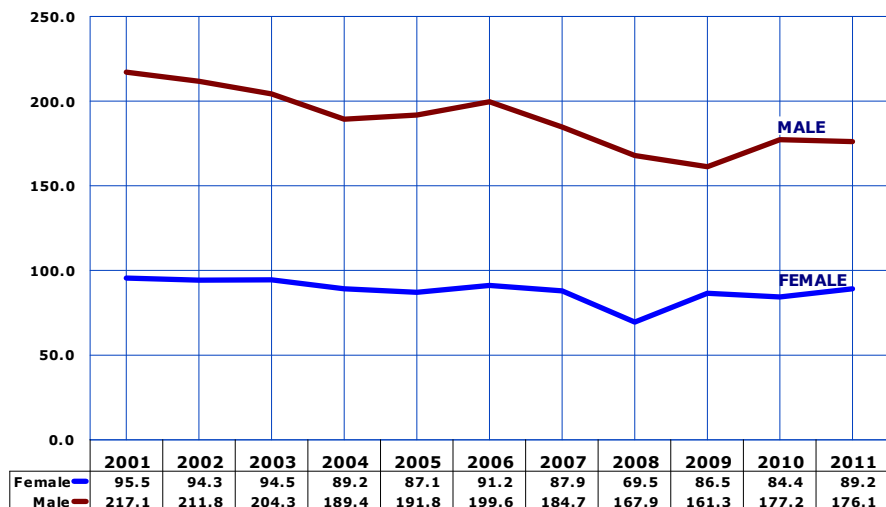
Cause of death	Total	Gender		Area*		Race/ethnicity					
		Male	Female	Urban	Rural	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or other Pacific Islander	Unspecified other or unknown race
Accidents (unintentional injury)	92	70	22	72	20	42	27	2	20	0	1
Motor vehicle accidents	58	45	13	42	16	18	21	2	17	0	0
Accidental poisoning	25	19	6	21	4	17	4	0	3	0	1
Accidental drowning and submersion	3	2	1	3	0	2	1	0	0	0	0
Intentional self-harm (suicide)	50	36	14	33	17	23	10	3	12	1	1
By discharge of firearms	19	18	1	15	4	12	3	2	2	0	0
By other means	31	18	13	18	13	11	7	1	10	1	1
Assault (homicide)	29	24	5	25	4	8	13	4	3	1	0
By discharge of firearms	20	18	2	19	1	4	11	3	1	1	0
By other means	9	6	3	6	3	4	2	1	2	0	0
Malignant neoplasms	15	5	10	11	4	5	9	0	1	0	0
Symptoms, signs, abnormal findings	7	5	2	6	1	2	4	0	1	0	0
Diseases of heart	5	3	2	5	0	2	2	0	1	0	0
Total, all causes**	231	161	70	177	54	98	78	10	41	2	2

* 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, 2001-2011

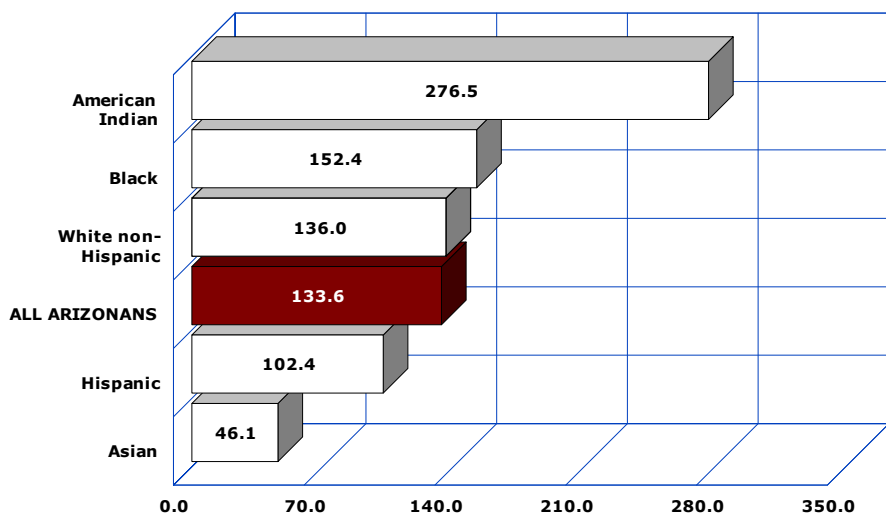


In 2011, 33.2 percent of Arizona residents were between 20 and 44 years of age. Among the six developmental periods examined in the life span, young adulthood, with an estimated 2.1 million individuals, easily represented the largest segment of the population. However, only one in seventeen deaths in Arizona (or 6.0 percent) occurred during young adulthood.

The number of deaths among young adults decreased from 2,829 in 2008 to 2,796 in 2010, but increased to 2,856 in 2011. The 2,856 premature deaths among 2,137,727 young adult Arizona residents produced a 2011 mortality rate of 133.6 deaths per 100,000, 6.7 percent greater than the 2009 rate of 125.2/100,000 (**Table 2C-15**). Both male and female young adults had mortality rates that slightly increased from 2009 to 2011 (**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, 2011



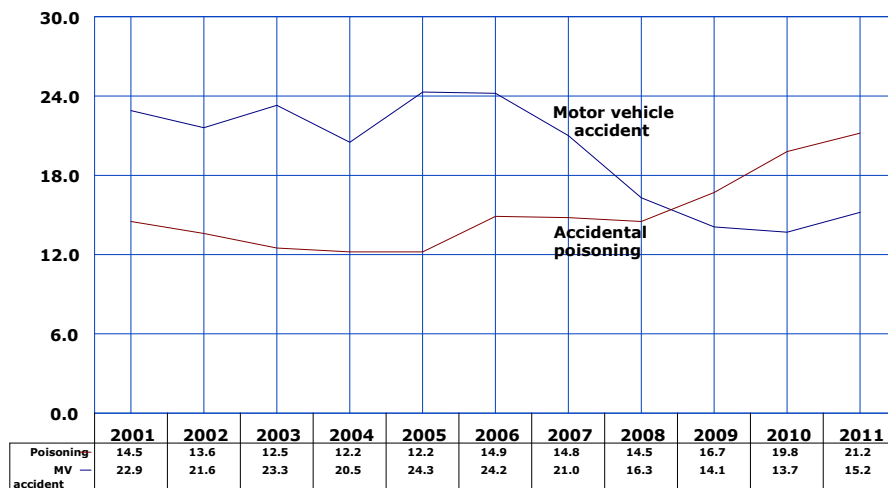
The rank order of survival chances of young adults from best to worse by race/ethnicity in 2011 was Asians, Hispanics or Latinos, White non-Hispanics, Black or African Americans, and American Indians. If the 2011 mortality risk of Asians (i.e., their mortality rate of 46.1/100,000) was applied to all young adults in Arizona, 985 would have died, rather than the 2,856 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 Year among Young Adults 20-44 Years, Arizona, 2001-2011

In 2011, 453 deaths of young adults were attributed to accidental poisoning (**Table 2C-18**), compared to 274 deaths in 2001. The mortality rate for accidental poisoning among young adults (21.2/100,000) for the third time exceeded the mortality rate for motor vehicle-related injuries (15.2/100,000; **Figure 2C-15**). In the 20-44 year age group, 445 of the 453 accidental poisonings (98.2 percent) were due to drug overdose.



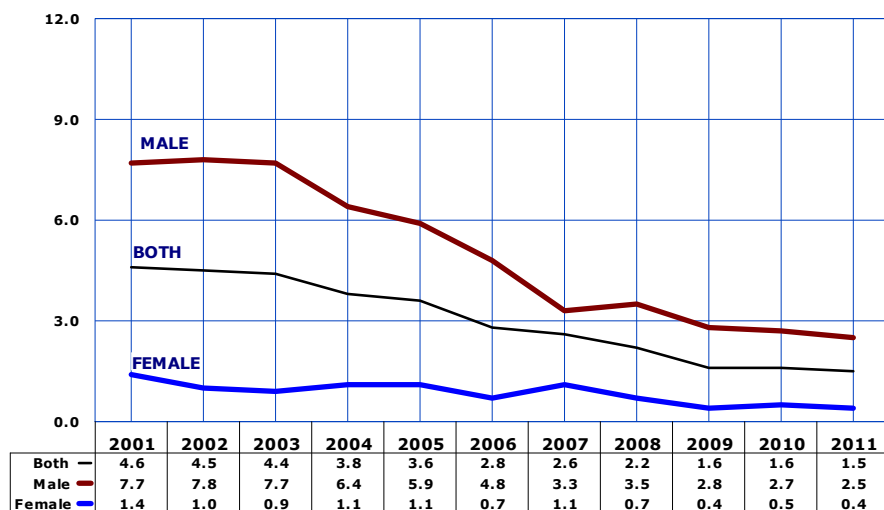
Number of deaths per 100,000 persons, 20-44 years old in specified group.

Figure 2C-16
Mortality Rates for HIV Disease by Gender and Year among Young Adults 20-44 Years, Arizona, 2001-2011

In 2011, fewer Arizonans 20-44 years old died from the *human immunodeficiency virus (HIV) disease* (31) than from *morbid obesity* (33 deaths; **Table 2C-18**).

Of the 99 deaths from *HIV disease* in 2011, 31.3 percent occurred among Arizonans 20-44 years old (**Table 2C-27**). Males accounted for 87.1 percent of young adult deaths from *HIV disease* in 2011 (**Table 2C-18**).

The mortality rate for HIV disease among young male adults decreased by 67.9 percent from the recent peak of 7.8/100,000 in 2002 to 2.5/100,000 in 2011.



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, 2001-2011**

Gender/Cause	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
MALE												
Accidents (unintentional injuries)	72.5	61.8	63.3	54.8	63.2	69.2	60.6	54.4	53.7	52.6	57.9	-20.1
Motor vehicle accidents	34.5	30.7	33.6	27.8	34.2	34.5	29.2	23.8	20.2	19.8	20.6	-40.3
Other	38.0	31.1	29.7	27.0	29.0	34.7	31.4	30.6	33.4	27.5	8.7	-77.1
Intentional self-harm (suicide)	21.7	31.3	30.2	28.3	28.3	27.4	30.3	23.5	25.1	31.5	32.4	49.3
Assault (homicide)	25.9	25.6	22.9	23.7	24.7	24.2	22.8	19.2	13.4	20.1	18.2	-29.7
Diseases of heart	16.6	17.2	16.3	15.4	15.3	15.9	14.3	13.3	14.0	11.7	14.7	-11.4
Malignant neoplasms	15.9	15.7	14.2	14.0	11.9	11.0	11.3	12.6	12.0	12.8	11.0	-30.8
ALL CAUSES	217.1	211.8	204.3	189.4	191.8	199.6	184.7	167.9	161.3	177.2	176.1	-18.9
(Number of all deaths)	(2172)	(2186)	(2169)	(2091)	(2185)	(2290)	(2166)	(2001)	(1944)	(1920)	(1923)	(-11.5)
FEMALE												
Accidents (unintentional injuries)	22.0	21.9	22.5	21.8	24.9	25.0	25.2	20.4	20.8	22.4	25.2	14.5
Motor vehicle accidents	10.5	12.0	12.2	12.7	13.8	13.1	12.2	8.3	7.5	7.4	9.7	-7.6
Other	11.5	9.9	10.3	9.1	11.1	11.9	13.0	12.1	13.3	15.0	2.1	-81.7
Malignant neoplasms	21.2	18.7	15.9	18.2	13.4	16.4	15.5	13.7	15.9	14.0	15.7	-25.9
Intentional self-harm (suicide)	4.3	6.2	7.4	7.2	7.5	7.0	7.1	6.0	9.4	6.8	8.9	107.0
Diseases of heart	7.6	7.3	7.0	6.6	7.8	5.0	6.7	5.8	6.7	4.6	6.4	-15.8
Assault (homicide)	6.2	3.9	5.1	4.5	3.7	4.0	4.7	3.2	4.0	3.5	2.4	-61.3
ALL CAUSES	95.5	94.3	94.5	89.2	87.1	91.2	87.9	69.5	86.5	84.4	89.2	-6.6
(Number of all deaths)	(897)	(913)	(941)	(922)	(936)	(968)	(954)	(828)	(973)	(876)	(933)	4.0
TOTAL												
Accidents (unintentional injuries)	48.1	42.5	43.5	38.8	44.6	47.9	43.6	38.0	37.8	37.8	41.9	-12.9
Motor vehicle accidents	22.9	21.6	23.3	20.5	24.3	24.2	21.0	16.3	14.1	13.7	15.2	-33.6
Other	25.2	20.9	20.2	18.3	20.3	23.7	22.6	21.7	23.7	24.1	5.5	-78.2
Intentional self-harm (suicide)	13.3	19.1	19.2	18.1	18.2	17.6	19.1	15.0	17.5	19.4	20.9	57.1
Malignant neoplasms	18.5	17.1	15.0	16.0	12.6	13.6	13.3	9.7	13.9	13.4	13.3	-28.1
Diseases of heart	12.2	12.4	11.8	11.1	11.7	10.7	10.7	11.5	10.5	8.2	10.6	-13.1
Assault (homicide)	16.3	15.1	14.3	14.5	14.5	14.5	14.1	13.1	8.8	12.0	10.5	-35.6
ALL CAUSES	158.2	154.9	151.1	141.0	140.9	147.5	138.2	123.0	125.2	131.8	133.6	-15.5
(Number of all deaths)	(3069)	(3099)	(3110)	(3013)	(3121)	(3258)	(3120)	(2829)	(2917)	(2796)	(2856)	(-6.9)

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

²The five causes with the greatest number of deaths over the 2001-2011 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 2001-2011 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, 2001-2011**

Area/Cause	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
URBAN												
Accidents (unintentional injuries)	43.7	39.1	38.3	35.5	40.2	44.8	38.7	34.4	32.7	33.5	36.6	-16.2
Motor vehicle accidents	19.5	18.9	19.2	17.5	21.1	21.2	17.7	14.2	11.2	11.5	12.4	-36.4
Other	24.2	20.2	19.1	18.0	19.1	23.6	21.0	20.2	21.5	22.0	4.3	-82.2
Intentional self-harm (suicide)	12.3	18.0	17.9	16.2	16.8	16.2	18.0	16.4	13.6	17.7	18.1	47.2
Malignant neoplasms	18.6	16.2	14.7	16.0	11.8	13.5	12.9	14.2	15.6	13.3	13.5	-27.4
Assault (homicide)	16.9	15.6	14.8	15.2	14.9	15.1	14.3	13.2	9.7	11.0	10.0	-40.8
Diseases of heart	12.3	11.8	11.0	10.6	11.9	10.0	9.9	8.9	8.7	8.0	9.6	-22.0
ALL CAUSES	148.1	145.4	140.2	132.2	133.0	139.3	129.8	113.6	113.0	119.7	120.3	-18.8
(Number of all deaths)	(2464)	(2494)	(2477)	(2426)	(2532)	(2640)	(2511)	(2239)	(2203)	(2203)	(2232)	(-9.4)
RURAL												
Accidents (unintentional injuries)	74.0	63.2	75.5	58.9	72.0	66.9	73.2	57.1	64.7	63.9	71.9	-2.8
Motor vehicle accidents	42.8	37.9	48.1	38.4	44.2	42.4	40.5	28.0	29.4	27.0	33.0	-22.9
Other	31.2	25.3	27.4	20.5	27.8	24.5	32.7	29.2	35.4	36.9	10.3	-67.0
Intentional self-harm (suicide)	19.2	26.0	26.8	29.5	26.8	25.5	25.6	20.4	29.1	30.2	37.6	95.8
Diseases of heart	11.6	16.2	16.8	14.2	10.0	15.0	15.1	9.4	15.0	9.6	16.7	44.0
Assault (homicide)	12.7	11.9	11.3	9.9	12.6	11.2	12.7	14.6	7.8	16.0	12.8	0.8
Malignant neoplasms	17.8	22.8	17.2	15.9	17.8	14.0	16.1	12.5	15.9	13.8	12.0	-32.6
ALL CAUSES	212.6	212.2	217.3	194.3	189.9	196.9	188.1	174.2	191.6	203.7	210.2	-1.1
(Number of all deaths)	(586)	(604)	(633)	(587)	(588)	(618)	(609)	(590)	(662)	(574)	(593)	1.2
STATEWIDE												
Accidents (unintentional injuries)	48.1	42.5	43.5	38.8	44.6	47.9	43.6	38.0	37.8	37.8	41.9	-12.9
Motor vehicle accidents	22.9	21.6	23.3	20.5	24.3	24.2	21.0	16.3	14.1	13.7	15.2	-33.6
Other	25.2	20.9	20.2	18.3	20.3	23.7	22.6	21.7	23.7	24.1	5.5	-78.2
Intentional self-harm (suicide)	13.3	19.1	19.2	18.1	18.2	17.6	19.1	15.0	17.5	19.4	20.9	57.1
Malignant neoplasms	18.5	17.1	15.0	16.0	12.6	13.6	13.3	9.7	13.9	13.4	13.3	-28.1
Diseases of heart	12.2	12.4	11.8	11.1	11.7	10.7	10.7	11.5	8.8	8.2	10.6	-13.1
Assault (homicide)	16.3	15.1	14.3	14.5	14.5	14.5	14.1	13.1	10.5	12.0	10.5	-35.6
ALL CAUSES	158.2	154.9	151.1	141.0	140.9	147.5	138.2	123.0	125.2	131.8	133.6	-15.5
(Number of all deaths)	(3069)	(3099)	(3110)	(3013)	(3121)	(3258)	(3120)	(2829)	(2917)	(2796)	(2856)	(-6.9)

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

²The five causes with the greatest number of deaths statewide over the 2001-2011 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 2001-2011 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, 2001-2011

Area/Gender	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
URBAN												
Male	201.8	197.0	190.5	176.7	181.5	188.7	172.2	154.2	143.9	159.4	158.7	-21.4
Female	90.5	89.9	86.1	84.4	81.0	85.3	83.6	69.4	79.5	78.4	80.3	-11.3
TOTAL	148.1	145.4	140.2	132.2	133.0	139.3	129.8	113.6	113.0	119.7	120.3	-18.8
RURAL												
Male	301.8	303.4	288.9	266.5	256.4	266.4	261.2	244.4	258.9	281.0	271.6	-10.0
Female	121.6	119.2	142.8	118.0	123.0	125.1	112.7	102.9	123.5	121.6	144.8	19.1
TOTAL	212.6	212.2	217.3	194.3	189.9	196.9	188.1	174.2	191.6	203.7	210.2	-1.1
STATEWIDE												
Male	217.1	211.8	204.3	189.4	191.8	199.6	184.7	167.9	161.3	177.2	176.1	-18.9
Female	95.5	94.3	94.5	89.2	87.1	91.2	87.9	69.5	86.5	84.4	89.2	-6.6
TOTAL	158.2	154.9	151.1	141.0	140.9	147.5	138.2	123.0	125.2	131.8	133.6	-15.5

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, 2011**

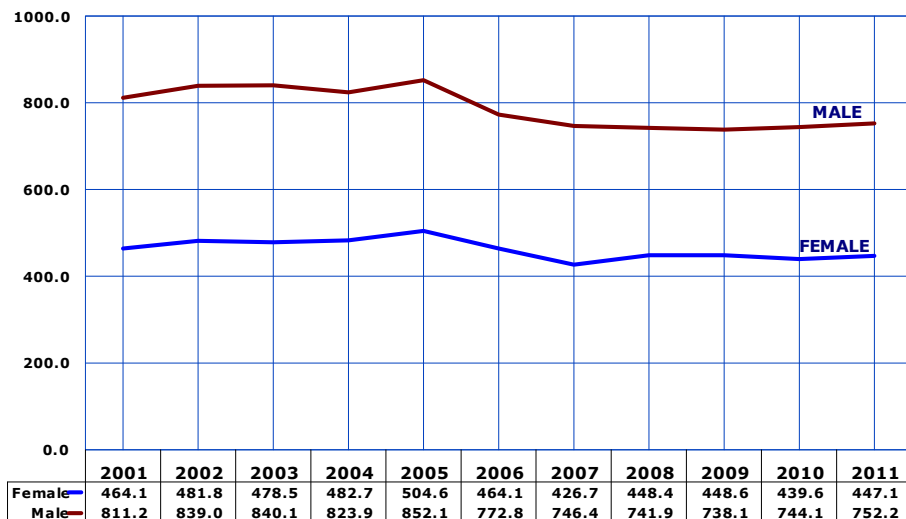
Cause of death	Total**	Gender		Area*		Race/ethnicity					
		Male	Female	Urban	Rural	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or other Pacific Islander	Unspecified other or unknown race
Accidents (unintentional injury)	896	632	264	679	203	503	202	28	139	8	16
Accidental poisoning	453	312	141	368	81	303	88	10	41	3	8
Motor vehicle accidents	326	225	101	231	93	143	88	12	75	2	6
Intentional self-harm (suicide)	447	354	93	335	106	306	81	13	35	4	8
By discharge of firearms	242	213	29	186	54	173	45	6	10	1	7
By other means	205	141	64	149	52	133	36	7	25	3	1
Malignant neoplasms	284	120	164	250	34	153	96	15	8	6	6
Malignant neoplasm of breast	36	0	36	30	6	16	14	1	1	3	1
Malignant neoplasm of meninges, brain and other parts of central nervous system	22	13	9	21	1	15	5	1	1	0	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	51	29	22	45	6	24	21	1	3	1	1
Diseases of heart	227	160	67	179	47	134	45	21	17	5	5
Assault (homicide)	224	199	25	186	36	53	107	29	28	3	4
By discharge of firearms	168	149	19	152	15	38	90	24	12	2	2
By other means	56	50	6	34	21	15	17	5	16	1	2
Chronic liver disease and cirrhosis	106	58	48	71	34	47	15	0	41	1	2
Diabetes	63	33	30	51	11	27	17	3	14	1	1
Cerebrovascular diseases	41	20	21	39	2	15	16	4	3	1	2
Obesity	33	18	15	27	6	17	8	2	5	0	1
Human immunodeficiency virus (HIV) disease	31	27	4	25	5	8	14	3	5	0	1
Total, all causes	2,856	1,923	933	2,232	593	1,532	708	155	364	40	57

*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, 2001-2011



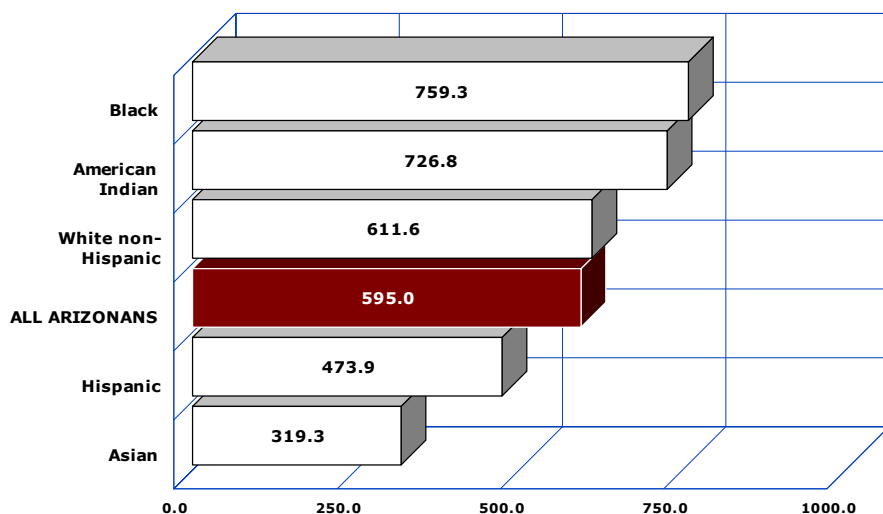
The 1,579,568 middle-aged adult residents aged 45 to 64 experienced 9,398 deaths or an average of 26 deaths per day. The total mortality rate of middle-aged adults changed very little from 2008-2011 (**Table 2C-19**).

The 2011 total mortality rate among middle-age females was 3.7 percent lower and among middle-aged males 7.3 percent lower than their respective rates in 2001 (**Figure 2C-17, Table 2C-19**).

The five causes with the greatest number of deaths in 2001-2011 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, 2011



Black or African American, American Indian, and White non-Hispanic middle-aged adults had the three highest mortality rates (759.3 deaths per 100,000, 726.8 per 100,000, and 611.6/100,000 respectively) among the race/ethnic groups.

If the 2011 total mortality rate for Asian middle-aged adults applied to all Arizona residents 45-64 years old, 5,044 middle-aged adults would have died rather than the 9,398 who actually did.

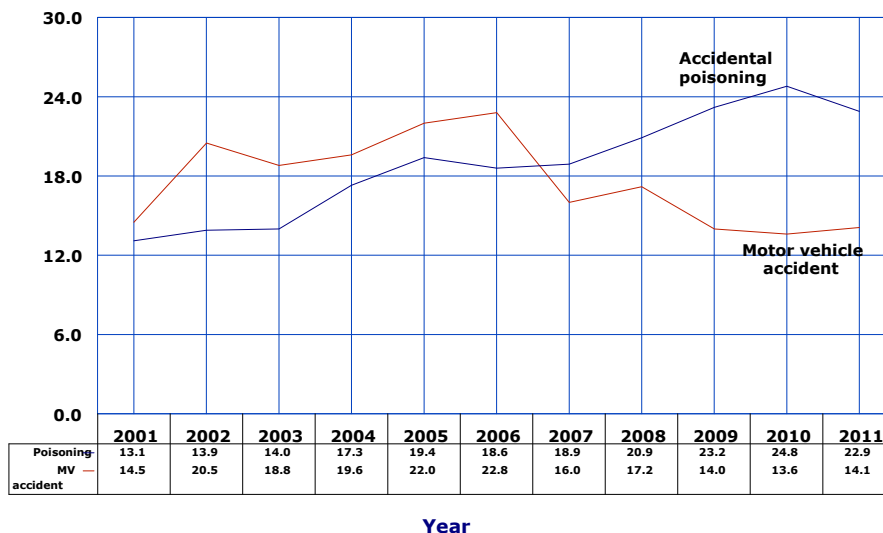
Number of deaths per 100,000 persons, 45-64 years old in specified group.

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

Figure 2C-19
Mortality Rates for Accidental Poisoning and Motor Vehicle-related Injuries
by Year among Middle-Aged Adults 45-64 Years, Arizona, 2001-2011

In recent years, middle-aged adults experienced an unprecedented increase in mortality from accidental poisoning, though this slightly decreased in 2011. In 2011, 361 deaths were attributed to accidental poisoning (Table 2C-22), compared to 145 134 deaths in 2001.

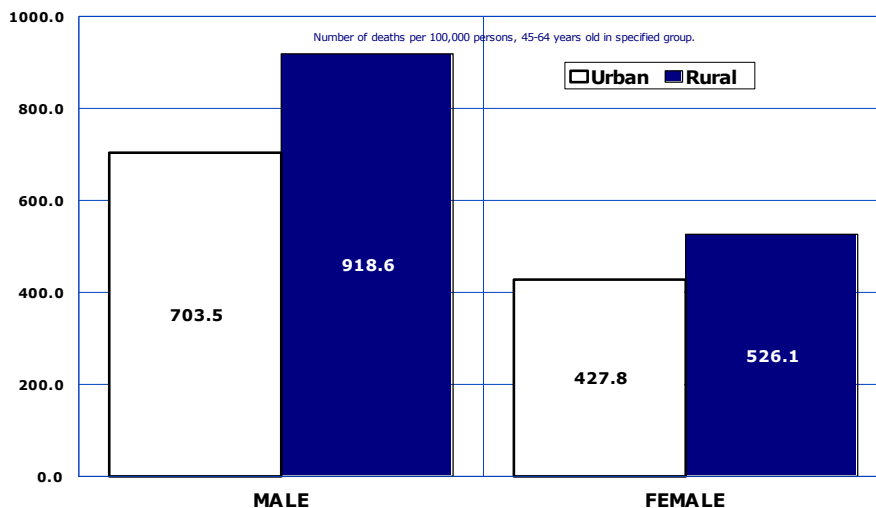
Beginning in 2007, the mortality rate for accidental poisoning exceeded the mortality rate for motor vehicle-related injuries among the middle-aged (Figure 2C-19). In 2011, the rate of 22.9 per 100,000 middle-aged adults was 62.4 percent greater than the mortality rate of 14.1/100,000 for motor vehicle accidents. White non-Hispanic accounted for 268 or 74.2 percent of all accidental poisoning deaths, (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, 2011

In 2011, 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 2011 were 30.6 percent greater than urban males, 74.6 percent greater than rural females, and 114.7 percent (2.1 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, 2001-2011**

Gender/Cause	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
MALE												
Malignant neoplasms	204.3	228.3	220.6	213.1	210.6	192.1	192.1	184.5	182.2	188.3	186.3	-8.8
Diseases of heart	197.4	206.1	196.7	196.7	207.5	186.7	170.8	175.5	169.0	160.7	165.3	-16.3
Accidents (unintentional injuries)	66.6	70.9	68.8	75.7	86.2	81.2	73.2	76.5	71.9	69.2	68.9	3.5
Motor vehicle accidents	19.8	29.3	26.2	27.7	33.7	31.9	23.1	24.6	20.8	19.9	21.4	8.1
Other	46.8	41.6	42.6	48.0	52.5	49.3	50.1	51.9	51.1	54.6	19.8	-57.7
Chronic liver disease and cirrhosis	42.5	36.0	42.7	42.3	45.1	34.4	35.5	39.2	38.0	42.1	49.6	16.7
Suicide	25.6	34.4	29.4	31.6	32.7	31.9	35.0	35.1	37.0	40.9	41.3	61.3
ALL CAUSES	811.2	839.0	840.1	823.9	852.1	772.8	746.4	741.9	738.1	744.1	752.2	-7.3
(Number of all deaths)	(4348)	(4637)	(4776)	(4906)	(5232)	(5282)	(5397)	(5450)	(5472)	(5659)	(5760)	32.5
FEMALE												
Malignant neoplasms	185.4	179.2	181.3	179.4	182.3	166.2	154.7	151.4	154.2	153.9	156.9	-15.4
Diseases of heart	75.1	78.0	72.8	74.8	74.2	66.4	65.0	63.4	59.4	55.9	61.8	-17.7
Accidents (unintentional injuries)	23.5	26.5	24.6	29.6	33.1	35.8	30.2	34.2	36.1	36.6	32.8	39.6
Motor vehicle accidents	9.6	12.2	11.9	11.8	10.9	14.2	9.2	10.0	7.6	7.7	7.1	-26.0
Other	13.9	14.3	12.7	17.8	22.2	21.6	21.0	24.2	28.5	29.0	7.4	-46.8
Chronic lower respiratory diseases	25.7	19.9	22.5	18.5	25.4	21.6	23.6	24.3	19.2	19.3	21.6	-16.0
Diabetes	19.6	19.5	17.2	19.0	20.1	19.1	14.0	16.0	14.2	17.0	21.3	8.7
ALL CAUSES	464.1	481.8	478.5	482.7	504.6	464.1	426.7	448.4	448.6	439.6	447.1	-3.7
(Number of all deaths)	(2650)	(2837)	(2898)	(3022)	(3292)	(3336)	(3232)	(3449)	(3483)	(3553)	(3638)	37.3
TOTAL												
Malignant neoplasms	194.6	203.0	200.3	195.8	196.0	178.8	173.0	167.6	167.9	170.6	171.2	-12.0
Diseases of heart	134.3	140.0	132.9	134.2	138.8	125.0	116.6	118.2	112.9	106.7	112.0	-16.6
Accidents (unintentional injuries)	44.4	48.0	46.0	52.1	58.8	57.9	51.2	54.9	53.6	52.4	50.3	13.3
Motor vehicle accidents	14.5	20.5	18.8	19.6	22.0	22.8	16.0	17.2	14.0	13.6	14.1	-2.8
Other	29.9	27.5	27.2	32.5	36.8	35.1	35.2	37.7	39.5	38.8	13.4	-55.2
Chronic liver disease and cirrhosis	27.5	26.1	29.0	28.9	31.8	25.0	25.3	29.7	29.1	30.2	34.3	24.7
Chronic lower respiratory diseases	26.7	23.7	21.9	21.4	26.8	22.7	21.8	24.7	21.5	20.0	23.6	-11.6
ALL CAUSES	632.1	654.8	653.7	649.1	673.1	614.6	582.8	591.8	590.0	587.2	595.0	-5.9
(Number of all deaths)	(6998)	(7474)	(7675)	(7928)	(8524)	(8618)	(8629)	(8899)	(8855)	(9212)	(9398)	34.3

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

²The five causes with the greatest number of deaths over the 2001-2011 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 2001-2011 are classified by ICD-10. Measures of 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, 2001-2011**

Area/Cause	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
URBAN												
Malignant neoplasms	193.2	202.4	198.0	188.9	190.5	174.8	169.6	162.8	165.4	164.6	166.5	-13.8
Diseases of heart	129.8	135.3	125.9	127.0	132.5	119.9	109.4	109.8	101.3	98.6	103.9	-20.0
Accidents (unintentional injuries)	42.8	45.1	40.6	47.6	55.7	54.2	47.8	51.6	48.8	47.5	45.4	6.1
Motor vehicle accidents	12.5	18.0	14.7	17.0	18.7	19.7	13.7	14.8	11.5	11.1	11.9	-4.8
Other	30.3	27.1	25.9	30.6	37.0	34.5	34.1	36.8	37.3	36.5	12.4	-59.1
Chronic liver disease and cirrhosis	26.9	25.8	26.8	25.2	30.0	23.3	23.0	27.4	25.7	27.2	30.8	14.5
Chronic lower respiratory diseases	27.8	23.0	21.2	21.9	25.8	22.3	20.5	23.6	20.2	19.2	20.6	-25.9
ALL CAUSES	615.7	637.2	630.2	620.7	647.8	595.0	559.7	559.5	559.4	552.4	561.5	-8.8
(Number of all deaths)	(5509)	(5878)	(5987)	(6140)	(6658)	(6834)	(6812)	(6918)	(6979)	(7098)	(7274)	32.0
RURAL												
Malignant neoplasms	199.7	205.5	210.1	225.2	219.6	197.0	188.3	188.1	176.9	193.1	186.3	-6.7
Diseases of heart	153.6	159.4	162.4	164.5	165.9	148.1	149.6	156.0	164.3	137.4	143.7	-6.4
Accidents (unintentional injuries)	50.4	60.3	68.2	71.0	72.5	74.9	65.3	68.1	71.4	66.2	67.6	34.1
Motor vehicle accidents	23.1	31.1	35.7	30.6	36.0	37.0	26.6	27.3	24.8	23.6	22.5	-2.6
Other	27.3	29.2	32.5	40.4	36.5	37.9	38.7	40.8	46.6	42.6	16.5	-39.6
Chronic liver disease and cirrhosis	29.7	27.4	37.9	44.8	39.8	32.3	36.1	39.6	43.3	41.9	49.3	66.0
Chronic lower respiratory diseases	22.1	26.9	25.0	18.9	31.4	24.8	28.1	29.5	27.4	22.2	36.3	64.3
ALL CAUSES	683.9	725.8	750.7	768.9	781.4	702.9	687.3	727.8	713.2	708.3	716.6	4.8
(Number of all deaths)	(1452)	(1589)	(1683)	(1786)	(1865)	(1784)	(1810)	(1946)	(1927)	(2010)	(2035)	40.2
STATEWIDE												
Malignant neoplasms	194.6	203.0	200.3	195.8	196.0	178.8	173.0	167.6	167.9	170.6	171.2	-12.0
Diseases of heart	134.3	140.0	132.9	134.2	138.8	125.0	116.6	118.2	112.9	106.7	112.0	-16.6
Accidents (unintentional injuries)	44.4	48.0	46.0	52.1	58.8	57.9	51.2	54.9	53.6	52.4	50.3	13.3
Motor vehicle accidents	14.5	20.5	18.8	19.6	22.0	22.8	16.0	17.2	14.0	13.6	14.1	-2.8
Other	29.9	27.5	27.2	32.5	36.8	35.1	35.2	37.7	39.5	38.8	13.4	-55.2
Chronic liver disease and cirrhosis	27.5	26.1	29.0	28.9	31.8	25.0	25.3	29.7	29.1	30.2	34.3	24.7
Chronic lower respiratory diseases	26.7	23.7	21.9	21.4	26.8	22.7	21.8	24.7	21.5	20.0	23.6	-11.6
ALL CAUSES	632.1	654.8	653.7	649.1	673.1	614.6	582.8	591.8	590.0	587.2	595.0	-5.9
(Number of all deaths)	(6998)	(7474)	(7675)	(7928)	(8524)	(8618)	(8629)	(8899)	(8855)	(9212)	(9398)	34.3

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

²The five causes with the greatest number of deaths over the 2001-2011 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 2001-2011 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, 2001-2011**

Area/Gender	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
URBAN												
Male	782.6	812.8	809.3	788.6	815.2	749.3	714.7	693.2	697.6	690.0	703.5	-10.1
Female	461.0	472.5	462.2	461.1	490.0	447.6	410.8	431.1	426.5	423.0	427.8	-7.2
TOTAL	615.7	637.2	630.1	620.7	647.8	595.0	559.7	559.5	559.4	552.4	561.5	-8.8
RURAL												
Male	907.2	943.6	966.6	972.3	1010.8	879.7	891.7	953.6	896.8	924.9	918.6	1.3
Female	473.2	520.2	546.9	575.1	567.2	536.9	497.7	518.4	543.0	504.0	526.1	11.2
TOTAL	683.9	725.8	750.7	768.9	781.4	702.9	687.3	727.8	713.2	708.3	716.6	4.8
STATEWIDE												
Male	811.2	839.0	840.1	823.9	852.1	772.8	746.4	741.9	738.1	744.1	752.2	-7.3
Female	464.1	481.8	478.5	482.7	504.6	464.1	426.7	448.4	448.6	439.6	447.1	-3.7
TOTAL	632.1	654.8	653.6	649.1	673.1	614.6	582.8	591.8	590.0	587.2	595.0	-5.9

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.

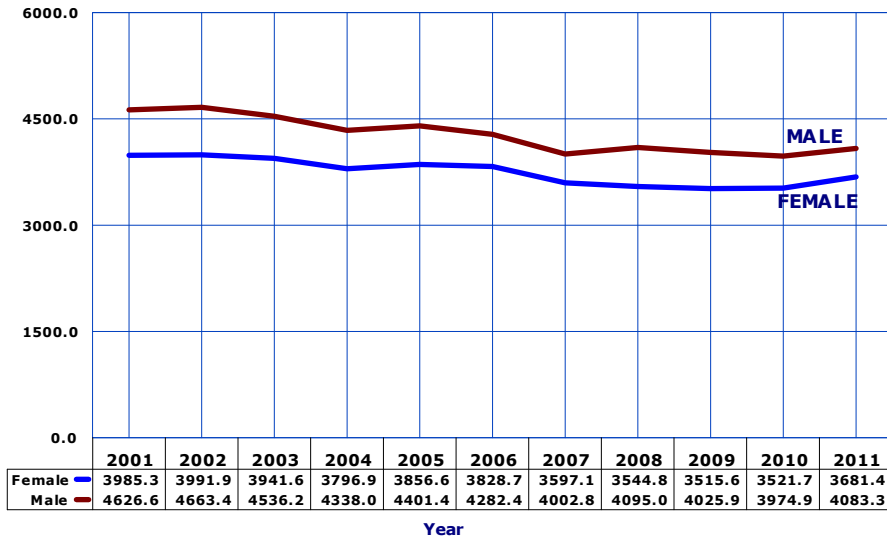
**TABLE 2C-22
LEADING CAUSES OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS) BY GENDER, AREA, AND RACE/ETHNICITY,
ARIZONA, 2011**

Cause of death	Gender		Area*		Race/ethnicity							
	Total	Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or other Pacific Islander	Unspecified other or unknown race
Malignant neoplasms	2,704	1,427	1,277	2,157	529	18	2,055	388	112	68	50	31
Malignant neoplasm of trachea, bronchus and lung	580	327	253	467	109	4	499	42	19	5	4	11
Malignant neoplasm of breast	267	4	263	219	48	0	210	30	15	3	5	4
Malignant neoplasm of colon, rectum, and anus	247	145	102	198	47	2	183	39	6	10	5	4
Malignant neoplasm of pancreas	176	103	73	135	40	1	136	26	5	5	4	0
Diseases of heart	1,769	1,266	503	1,346	408	15	1,318	235	100	65	28	23
Accidents (unintentional injury)	795	528	267	588	192	15	548	116	31	82	9	9
Accidental poisoning	361	212	149	273	81	7	268	45	17	26	1	4
Motor vehicle accidents	222	164	58	154	64	4	133	39	9	34	5	2
Chronic liver disease and cirrhosis	542	380	162	399	140	3	331	120	10	67	4	10
Diabetes	462	289	173	380	78	4	269	101	36	44	8	4
Intentional self-harm (suicide)	420	316	104	319	99	2	365	36	4	8	4	3
By discharge of firearms	254	214	40	194	59	1	231	18	1	1	0	3
By other means	166	102	64	125	40	1	134	18	3	7	4	0
Chronic lower respiratory diseases	373	197	176	267	103	3	326	22	12	6	2	5
Cerebrovascular diseases	232	121	111	176	51	5	135	54	23	5	9	6
Viral hepatitis	157	110	47	126	28	3	107	41	8	0	0	1
Assault (homicide)	90	59	31	68	19	3	53	16	10	8	2	1
By discharge of firearms	48	34	14	36	11	1	30	9	4	4	1	0
By other means	42	25	17	32	8	2	23	7	6	4	1	1
Influenza and pneumonia	83	48	35	57	26	0	56	13	4	7	3	0
Essential (primary) hypertension and hypertensive renal disease	81	46	35	74	7	0	49	11	17	3	1	0
Septicemia	74	35	39	60	14	0	42	16	2	14	0	0
Nephritis, nephrotic syndrome, and nephrosis	61	32	29	43	17	1	29	16	7	9	0	0
Human immunodeficiency virus (HIV) disease	59	48	11	49	7	3	35	10	10	1	1	2
Total, all causes	9,398	5,760	3,638	7,274	2,035	89	6,805	1,412	432	493	141	115

*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, 2001-2011



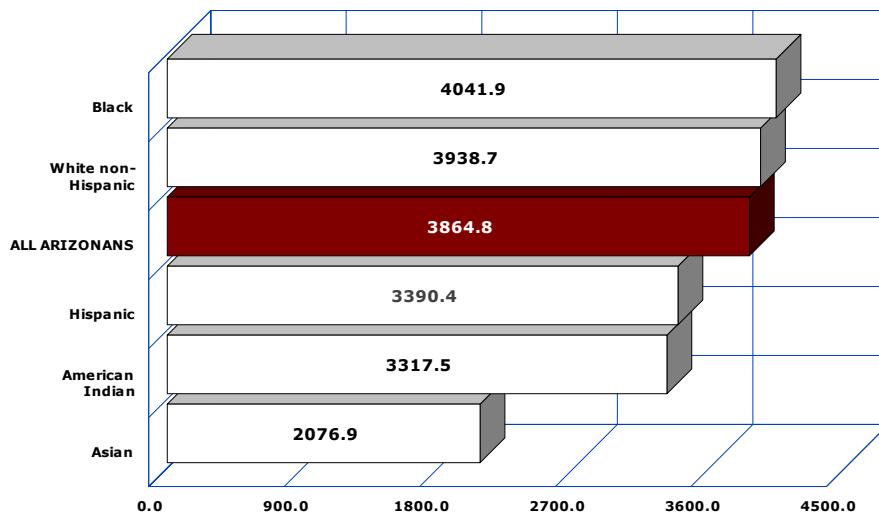
Number of deaths per 100,000 persons, 65+ years old in specified group.

In 2011, an estimated 887,953 elderly 65 years and older 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 2011.

The 2011 elderly mortality rate of 3864.8 per 100,000 was 9.5 percent lower than the 2001 rate of 4269.8, but was the highest mortality rate since 2007 (**Table 2C-23**).

Survival chances generally have improved from 2001 to 2011 for both elderly males and females. The 2011 total mortality rate among elderly females was 7.6 percent lower than their rate in 2001. The mortality rate among elderly males decreased 11.7 percent from 2001 to 2011 (**Figure 2C-21, Table 2C-23**).

Figure 2C-22
Mortality Rates by Race/Ethnicity among Elderly 65 Years and Older,
Arizona, 2011



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

In 2011 the mortality rate for Arizona's Black or African American elderly residents was nearly 2 times that of the Asian elderly population. The mortality rate of 2076.9 /100,000 among elderly Asians was the lowest rate among the race/ethnic groups (**Figure 2C-22**). American Indian elderly had the second lowest mortality rate in 2011.

The fact that American Indian elderly have one of the lowest elderly mortality rates is related to their relatively high mortality rates at younger ages. American Indians who survive to 65 years or older are a select group and thus tend to out-survive their similarly-aged racial/ethnic counterparts who have lower mortality rates at earlier ages.

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 2001 – 2011 period.

In 2011, Alzheimer’s disease (2,307 deaths) accounted for 6.7 percent of elderly mortality.

From 2009 to 2011, gender-specific death rates for Alzheimer’s disease increased by 9.7 percent for elderly females (**Figure 2C-23**) and by 5.6 percent for elderly males.

There were 1,544 deaths from Alzheimer’s disease among elderly females in 2011, 2.0 times the number of deaths from this cause among males (763; **Table 2C-26**).

White non-Hispanic elderly accounted for 87.3 percent of the 2011 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, 2001-2011

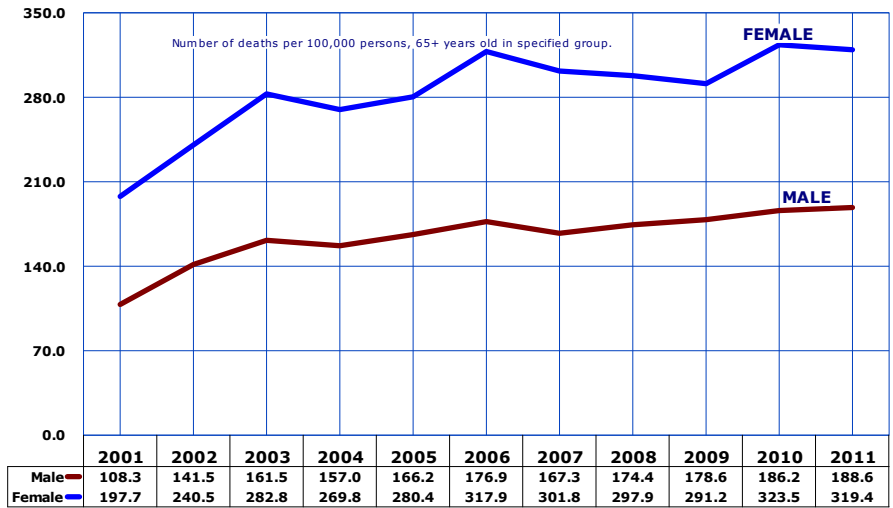
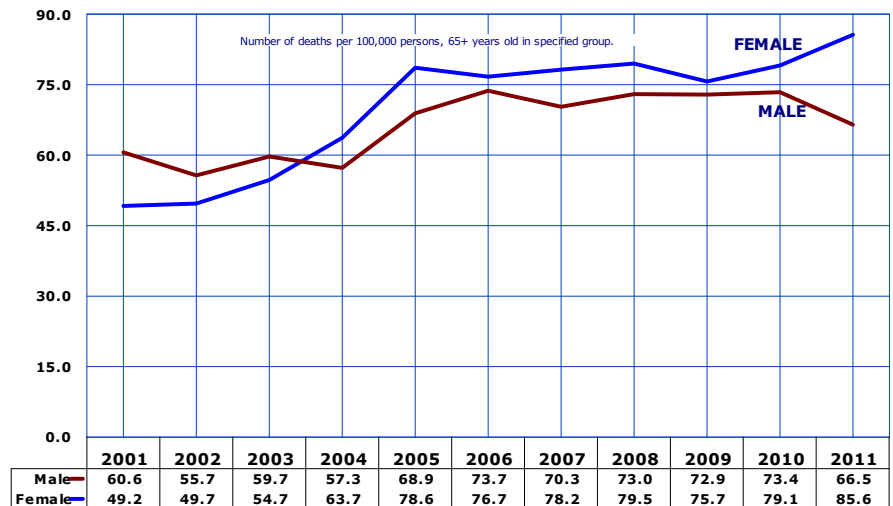


Figure 2C-24
Trends in Mortality Rates for Falls and Fall-related Injuries by Gender and Year among Elderly 65 Years and Older, Arizona, 2001-2011

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 2011, 683 elderly Arizonans 65 years or older died from *fall-related injuries*, compared to 375 in 2001, and 4.7 times as many as the number of those who died from motor vehicle-related injuries (144; **Table 2C-26**).

In 2011, those 85 years old or older, experienced the largest number of *fall-related deaths* (391), followed by Arizonans 75-84 years old (220 deaths), and the youngest elderly 65-74 years old (72 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, 2001-2011**

Gender/Cause	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
MALE												
Diseases of heart	1378.0	1363.9	1335.3	1241.4	1238.7	1138.7	1079.2	1114.1	1073.3	992.8	1065.5	-22.7
Malignant neoplasms	1091.2	1119.6	1126.0	1085.8	1068.2	1058.2	1020.4	1006.6	1017.3	1007.7	1007.4	-7.7
Chronic lower respiratory diseases	338.0	352.3	340.9	296.0	317.3	326.7	300.9	316.8	303.6	310.9	318.4	-5.8
Alzheimer's disease	108.3	141.5	161.5	157.0	166.2	176.9	167.3	174.4	178.6	186.2	188.6	74.1
Cerebrovascular diseases	277.0	269.4	248.9	242.2	224.9	195.2	168.6	188.9	182.8	169.3	164.4	-40.6
ALL CAUSES	4626.6	4663.4	4536.2	4338.0	4401.4	4282.4	4002.8	4095.0	4025.9	3974.9	4083.3	-11.7
(Number of all deaths)	(14182)	(14733)	(14744)	(14614)	(15385)	(15273)	(14981)	(15589)	(15462)	(15967)	(16517)	16.5
FEMALE												
Diseases of heart	1126.8	1101.9	1098.6	1028.8	1013.9	968.0	891.9	860.8	855.9	804.8	847.2	-24.8
Malignant neoplasms	781.9	734.5	757.2	731.8	721.8	713.1	696.4	691.1	701.6	702.5	710.9	-9.1
Alzheimer's disease	197.7	240.5	282.8	269.8	280.4	317.9	301.8	297.9	291.2	323.5	319.4	61.6
Chronic lower respiratory diseases	287.4	281.6	276.2	264.0	297.4	286.3	255.0	279.3	273.5	272.6	301.4	4.9
Cerebrovascular diseases	337.9	337.4	316.2	311.8	286.9	258.7	246.8	229.2	218.5	229.9	231.0	-31.6
ALL CAUSES	3985.3	3991.9	3941.6	3796.9	3856.6	3828.7	3597.1	3544.8	3515.6	3521.7	3681.4	-7.6
(Number of all deaths)	(15322)	(15820)	(16070)	(15918)	(16778)	(16919)	(16601)	(16625)	(16636)	(16909)	(17798)	16.2
TOTAL												
Diseases of heart	1238.2	1218.1	1203.6	1123.5	1114.1	1044.8	975.7	974.3	953.3	890.4	946.8	-23.5
Malignant neoplasms	919.1	905.3	920.9	889.5	876.1	867.2	841.5	832.4	843.0	841.5	846.1	-7.9
Chronic lower respiratory diseases	309.8	313.0	304.9	278.3	306.3	304.3	275.6	296.1	287.0	290.1	309.1	-0.2
Alzheimer's disease	158.0	196.6	229.0	220.1	229.5	258.2	241.6	242.6	240.8	260.9	259.8	64.4
Cerebrovascular diseases	310.9	307.2	286.3	280.8	259.2	230.3	211.8	211.1	202.5	202.3	200.7	-35.4
ALL CAUSES	4269.8	4289.8	4205.5	4038.0	4099.3	4031.3	3778.8	3791.3	3744.2	3728.2	3864.8	-9.5
(Number of all deaths)	(29504)	(30553)	(30815)	(30532)	(32163)	(32192)	(31852)	(32214)	(32098)	(32876)	(34318)	16.3

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

²The five causes with the greatest number of deaths over the 2001-2011 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 2001-2011 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, 2001-2011**

Area/Cause	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
URBAN												
Diseases of heart	1273.8	1245.9	1217.0	1130.1	1110.7	1055.0	983.1	971.9	952.2	888.5	932.0	-26.8
Malignant neoplasms	915.3	906.5	907.5	869.3	863.6	854.5	834.1	817.9	835.0	834.0	846.2	-7.5
Chronic lower respiratory diseases	320.7	316.5	303.4	278.9	309.3	303.2	271.8	289.2	282.2	288.7	311.3	-2.9
Alzheimer's disease	169.8	208.6	235.7	232.9	244.6	270.7	262.4	261.3	263.2	284.9	288.9	70.1
Cerebrovascular diseases	315.5	313.7	289.5	287.8	257.3	234.6	211.3	206.4	206.1	201.5	202.0	-36.0
ALL CAUSES (Number of all deaths)	4292.7 (23758)	4314.8 (24619)	4192.3 (24633)	4021.7 (24384)	4083.4 (25740)	4053.0 (25585)	3792.4 (25143)	3765.0 (25374)	3765.4 (25596)	3738.3 (26043)	3886.0 (27302)	14.9
RURAL												
Diseases of heart	1094.2	1106.2	1146.3	1094.8	1127.8	1006.1	946.3	979.3	950.4	889.9	990.4	-9.5
Malignant neoplasms	933.5	900.1	974.1	966.6	927.4	915.2	868.7	883.7	865.3	864.6	840.5	-10.0
Chronic lower respiratory diseases	266.1	297.9	310.0	275.7	293.8	308.5	290.0	322.1	302.5	291.6	298.9	12.3
Cerebrovascular diseases	292.3	281.0	272.1	251.7	267.2	214.0	213.6	228.2	187.0	204.1	193.1	-33.9
Alzheimer's disease	110.5	144.6	140.5	195.6	168.0	195.5	161.5	166.7	152.1	169.6	145.1	31.3
ALL CAUSES (Number of all deaths)	4123.0 (5671)	4185.5 (5929)	4249.8 (6169)	4093.4 (6132)	4164.3 (6421)	3949.5 (6607)	3723.8 (6434)	3863.1 (6789)	3628.5 (6441)	3657.5 (6773)	3741.1 (6935)	-9.3
STATEWIDE												
Diseases of heart	1238.2	1218.1	1203.6	1123.5	1114.1	1044.8	975.7	974.3	953.3	890.4	946.8	-23.5
Malignant neoplasms	919.1	905.3	920.9	889.5	876.1	867.2	841.5	832.4	843.0	841.5	846.1	-7.9
Chronic lower respiratory diseases	309.8	313.0	304.9	278.3	306.3	304.3	275.6	296.1	287.0	290.1	309.1	-0.2
Alzheimer's disease	158	196.6	229.0	220.1	229.5	258.2	241.6	242.6	240.8	260.9	259.8	64.4
Cerebrovascular diseases	310.9	307.2	286.3	280.8	259.2	230.3	211.8	211.1	202.5	202.3	200.7	-35.4
ALL CAUSES (Number of all deaths)	4269.8 (29504)	4289.8 (30553)	4205.5 (30815)	4038.0 (30532)	4099.3 (32163)	4031.3 (32192)	3778.8 (31852)	3791.3 (32214)	3744.2 (32098)	3728.2 (32876)	3864.8 (34318)	-9.5

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

²The five causes with the greatest number of deaths over the 2001-2011 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 2001-2011 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, 2001-2011**

Area/Gender	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	% change from 2001
URBAN												
Male	4650.1	4674.4	4542.1	4323.1	4359.2	4283.2	3986.1	4053.2	4013.8	3976.9	4107.6	-11.7
Female	4015.6	4036.1	3920.8	3786.0	3866.8	3871.5	3638.1	3534.9	3567.5	3543.8	3705.0	-7.7
TOTAL	4292.7	4314.8	4192.1	4021.7	4083.4	4053.0	3792.4	3765.0	3765.4	3738.3	3886.0	-9.5
RURAL												
Male	4473.9	4617.9	4502.4	4379.8	4561.0	4279.7	4058.9	4216.1	4021.7	3917.1	3948.9	-11.7
Female	3810.1	3799.9	4024.4	3836.1	3811.3	3658.6	3432.7	3555.8	3286.5	3418.2	3547.4	-6.9
TOTAL	4123.0	4185.5	4249.8	4093.4	4164.3	3949.5	3723.8	3863.1	3628.5	3657.5	3741.1	-9.3
STATEWIDE												
Male	4626.6	4663.4	4536.2	4338.0	4401.4	4282.4	4002.8	4095.0	4025.9	3974.9	4083.3	-11.7
Female	3985.3	3991.9	3941.6	3796.9	3856.6	3828.7	3597.1	3544.8	3515.6	3521.7	3681.4	-7.6
TOTAL	4269.8	4289.8	4205.3	4038.0	4099.3	4031.3	3778.8	3791.3	3744.2	3728.2	3864.8	-9.5

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, 2011**

Cause of death	Gender			Area*			Race/ethnicity					
	Male	Female	Unknown	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Pacific Islander or other	Unspecified other or unknown race
Diseases of heart	4,310	4,096	1	6,548	1,836	23	7,273	740	152	130	53	59
Malignant neoplasms	4,075	3,437	1	5,945	1,558	10	6,410	684	152	124	88	55
Malignant neoplasm of trachea, bronchus and lung	1,139	911	0	1,609	439	2	1,839	132	38	9	18	14
Malignant neoplasm of lymphoid, hematopoietic and related tissue	454	331	0	627	158	0	675	74	15	7	7	7
Malignant neoplasm of colon, rectum, and anus	323	330	0	515	138	0	538	67	22	12	12	2
Malignant neoplasm of pancreas	246	276	0	421	101	0	441	51	10	11	9	0
Malignant neoplasm of prostate	519	1	0	409	111	0	440	52	9	10	1	8
Malignant neoplasm of breast	2	442	0	354	90	0	393	27	8	5	6	5
Chronic lower respiratory diseases	1,288	1,457	0	2,187	554	4	2,539	113	36	18	15	24
Alzheimer's disease	763	1,544	0	2,030	269	8	2,013	179	58	26	16	15
Cerebrovascular diseases	665	1,117	0	1,419	358	5	1,470	185	56	40	24	7
Diabetes	626	567	0	988	204	1	807	226	56	71	19	14
Accidents (unintentional injury)	505	565	0	870	197	3	868	109	20	47	10	16
Falls	269	414	0	577	106	0	588	54	10	20	4	7
Motor vehicle accidents	100	44	0	99	45	0	101	21	3	14	4	1
Essential (primary) hypertension and hypertensive disease	247	389	0	556	79	1	513	75	27	10	8	3
Influenza and pneumonia	262	271	0	376	156	1	418	65	6	35	6	3
Parkinson's disease	310	216	0	429	97	0	469	29	8	14	4	2
Nephritis, nephrotic syndrome, and nephrosis	173	167	0	225	114	1	256	47	8	19	8	2
Septicemia	124	110	0	159	74	1	171	33	8	17	3	2
Total, all causes	16,517	17,798	3	27,302	6,935	81	29,085	3,199	717	740	314	263

*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, 2011**

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Un-known
Total, all causes	47,547	504	224	231	2,856	9,398	34,318	16
Salmonella infections	1	0	0	0	0	1	0	0
Shigellosis and amebiasis	0	0	0	0	0	0	0	0
Certain other intestinal infections	233	5	1	0	3	29	195	0
Enterocolitis due to Clostridium difficile	186	0	0	0	2	23	161	0
Tuberculosis	12	0	0	0	3	3	6	0
Respiratory tuberculosis	10	0	0	0	3	2	5	0
Other tuberculosis	2	0	0	0	0	1	1	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	1	1	0	0	0	0	0	0
Septicemia	321	4	2	1	6	74	234	0
Syphilis	1	0	0	0	0	0	1	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	218	0	0	0	12	157	49	0
Human immunodeficiency virus (HIV) disease	99	0	0	0	31	59	9	0
Malaria	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	143	6	4	1	13	28	91	0
Malignant neoplasms	10,543	1	26	15	284	2,704	7,513	0
Malignant neoplasm of lip, oral cavity, and pharynx	132	0	1	0	5	55	71	0
Malignant neoplasm of esophagus	288	0	0	0	7	97	184	0
Malignant neoplasm of stomach	211	0	0	0	12	59	140	0
Malignant neoplasm of colon, rectum, and anus	927	0	0	0	27	247	653	0
Malignant neoplasm of liver and intrahepatic bile ducts	474	0	2	1	3	203	265	0
Malignant neoplasm of pancreas	708	0	0	0	10	176	522	0
Malignant neoplasm of larynx	59	1	0	0	1	20	37	0
Malignant neoplasm of trachea, bronchus, and lung	2,654	0	0	0	24	580	2,050	0
Malignant melanoma of skin	187	0	0	0	9	57	121	0
Malignant neoplasm of breast	747	0	0	0	36	267	444	0
Malignant neoplasm of cervix uteri	72	0	0	0	16	38	18	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	159	0	0	0	5	51	103	0
Malignant neoplasm of ovary	280	0	0	0	7	88	185	0
Malignant neoplasm of prostate	574	0	0	0	3	51	520	0
Malignant neoplasm of kidney and renal pelvis	267	0	1	0	3	72	191	0
Malignant neoplasm of bladder	355	0	0	0	1	51	303	0

**TABLE 2C-27 (continued)
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2011**

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+	Un- known
Malignant neoplasm of meninges, brain, and other parts of CNS	275	0	7	5	22	94	147	0
Malignant neoplasm of lymphoid, hematopoietic, and related tissue	1,054	0	7	5	51	206	785	0
Hodgkin's disease	19	0	0	0	4	7	8	0
Non-Hodgkin's lymphoma	392	0	1	0	9	80	302	0
Leukemia	422	0	6	4	35	76	301	0
Multiple myeloma and immunoproliferative neoplasms	219	0	0	0	3	42	174	0
Other and unspecified malignant neoplasms of lymphoid tissue	2	0	0	1	0	1	0	0
All other and unspecified malignant neoplasm	1,120	0	8	4	42	292	774	0
In situ neoplasms	274	1	3	3	8	31	228	0
Anemias	52	0	2	0	3	8	39	0
Diabetes	1,721	0	1	2	63	462	1,193	0
Nutritional deficiencies	40	0	0	0	0	4	36	0
Malnutrition	39	0	0	0	0	3	36	0
Other nutritional deficiencies	1	0	0	0	0	1	0	0
Obesity	161	1	0	0	33	82	45	0
Meningitis	17	1	2	0	4	5	5	0
Parkinson's disease	545	0	0	0	0	19	526	0
Alzheimer's disease	2,336	0	0	0	0	29	2,307	0
Major cardiovascular diseases	13,689	18	8	6	283	2,146	11,226	2
Diseases of heart	10,424	10	4	5	227	1,769	8,407	2
Acute rheumatic fever and chronic rheumatic heart disease	69	0	0	0	1	7	61	0
Hypertensive heart disease	739	0	0	0	22	175	542	0
Hypertensive heart and renal disease	49	0	0	0	1	6	42	0
Ischemic heart disease	7,498	0	0	0	132	1,326	6,039	1
Acute myocardial infarction	1,613	0	0	0	28	267	1,318	0
Other acute ischemic heart disease	27	0	0	0	1	5	21	0
Other forms of chronic ischemic heart disease	5,858	0	0	0	103	1,054	4,700	1
Atherosclerotic cardiovascular disease	1,913	0	0	0	58	587	1,268	0
All other forms of chronic ischemic heart disease	3,945	0	0	0	45	467	3,432	1
Other heart diseases	2,069	10	4	5	71	255	1,723	1
Acute and subacute endocarditis	14	0	0	0	1	5	8	0
Diseases of pericardium and acute myocarditis	19	0	1	0	2	4	12	0
Heart failure	563	0	0	0	0	26	537	0
All other forms of heart disease	1,473	10	3	5	68	220	1,166	1
Essential (primary) hypertension and hypertensive renal disease	725	0	0	0	8	81	636	0
Cerebrovascular diseases	2,067	8	4	0	41	232	1,782	0
Atherosclerosis	134	0	0	0	0	8	126	0

TABLE 2C-27 (continued)
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2011

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+	Un- known
Other diseases of circulatory system	339	0	0	0	1	7	56	275
Aortic aneurysm and dissection	152	0	0	0	1	2	29	120
Other disease of arteries, arterioles, and capillaries	187	0	0	0	0	5	27	155
Other disorders of circulatory system	92	1	0	0	0	14	36	41
Influenza and pneumonia	649	5	4	2	22	83	533	0
Influenza	26	0	1	1	6	5	13	0
Pneumonia	623	5	3	1	16	78	520	0
Other acute lower respiratory infections	4	0	1	0	0	1	2	0
Acute bronchiolitis	4	0	1	0	0	1	2	0
Unspecified acute lower respiratory infection	0	0	0	0	0	0	0	0
Chronic lower respiratory diseases	3,143	2	5	0	18	373	2,745	0
Bronchitis, chronic and unspecified	8	1	0	0	0	2	5	0
Empysema	150	1	0	0	0	20	129	0
Asthma	89	0	5	0	10	26	48	0
Other chronic lower respiratory diseases	2,896	0	0	0	8	325	2,563	0
Pneumoconioses and chemical effects	18	0	0	0	0	1	17	0
Pneumonitis due to solids and liquids	254	0	0	0	1	22	231	0
Other disease of respiratory system	546	7	5	0	12	95	427	0
Peptic ulcer	60	0	0	0	0	9	51	0
Diseases of appendix	9	1	1	0	2	0	5	0
Hernia	39	0	0	0	2	3	34	0
Chronic liver disease and cirrhosis	933	0	0	0	106	542	285	0
Alcoholic liver disease	641	0	0	0	99	406	136	0
Other chronic liver disease and cirrhosis	292	0	0	0	7	136	149	0
Cholelithiasis and other disorders of gallbladder	81	0	0	0	0	16	65	0
Nephritis, nephrotic syndrome, and nephrosis	409	0	1	1	6	61	340	0
Acute and rapidly progressive nephritic and nephrotic syndrome	4	0	1	0	0	1	2	0
Chronic glomerulonephritis	60	0	0	0	0	7	53	0
Renal failure	344	0	0	1	6	52	285	0
Others disorders of kidney	1	0	0	0	0	1	0	0
Infections of kidney	15	0	0	0	0	2	13	0
Hyperplasia of prostate	22	0	0	0	0	1	21	0
Inflammatory diseases of female pelvic organs	1	0	0	0	0	1	0	0
Pregnancy, childbirth and the puerperium	5	0	0	0	5	0	0	0
Pregnancy with abortive outcome	0	0	0	0	0	0	0	0
Other complications of pregnancy, childbirth, and the puerperium	5	0	0	0	5	0	0	0

**TABLE 2C-27 (continued)
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2011**

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Un-known
Perinatal conditions	238	234	2	0	0	0	1	1
Congenital anomalies, deformations and chromosomal abnormalities	201	107	17	2	22	22	31	0
Symptoms, signs, abnormal findings	1,117	53	11	7	88	122	825	11
Total accidents	2,959	23	83	92	896	795	1,070	0
Transport accidents	857	4	37	58	347	250	161	0
Motor vehicle accidents	787	4	33	58	326	222	144	0
Other land transport accidents	19	0	0	0	3	11	5	0
Water, air, space	51	0	4	0	18	17	12	0
Nontransport accidents	2,102	19	46	34	549	545	909	0
Falls	776	1	0	3	18	71	683	0
Accidental discharge of firearms	8	0	0	1	3	2	2	0
Accidental drowning and submersion	86	3	25	3	20	17	18	0
Accidental exposure to smoke, fire, and flames	33	0	3	0	4	13	13	0
Accidental poisoning	883	0	1	25	453	361	43	0
Other and unspecified nontransport accidents	316	15	17	2	51	81	150	0
Intentional self-harm (suicide)	1,113	1	12	50	447	420	182	1
By discharge of firearms	667	0	2	19	242	254	149	1
By other means	446	1	10	31	205	166	33	0
Assault (homicide)	387	6	14	29	224	90	23	1
By discharge of firearms	254	2	3	20	168	48	13	0
By other means	133	4	11	9	56	42	10	1
Legal intervention	16	0	0	2	7	7	0	0
Events of undetermined intent	132	4	2	6	40	63	17	0
Discharge of firearms	11	0	0	0	7	4	0	0
Other and unspecified events of undetermined intent	121	4	2	6	33	59	17	0
Operations of war	2	0	0	0	0	1	1	0
Complications of medical and surgical care	51	4	0	1	4	9	33	0
Injury by firearms	952	2	5	42	427	311	164	1
Drug-induced deaths	1,062	0	0	27	507	457	71	0
Alcohol-induced deaths	974	0	0	2	182	603	187	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, 2011**

	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	738.5	591.6	17.5	49.7	133.6	595.0	3864.8
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	3.6	5.9	0.1	0.0	0.1	1.8	22.0
Enterocolitis due to Clostridium difficile	2.9	0.0	0.0	0.0	0.1	1.5	18.1
Tuberculosis	0.2	0.0	0.0	0.0	0.1	0.2	0.7
Respiratory tuberculosis	0.2	0.0	0.0	0.0	0.1	0.1	0.6
Other tuberculosis	0.0	0.0	0.0	0.0	0.0	0.1	0.1
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	1.2	0.0	0.0	0.0	0.0	0.0
Septicemia	5.0	4.7	0.2	0.2	0.3	4.7	26.4
Syphilis	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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	0.0	9.9	5.5
Human immunodeficiency virus (HIV) disease	1.5	0.0	0.0	0.0	1.5	3.7	1.0
Malaria	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other and unspecified infectious and parasitic diseases	2.2	7.0	0.3	0.2	0.6	1.8	10.2
Malignant neoplasms	163.8	1.2	2.0	3.2	13.3	171.2	846.1
Malignant neoplasm of lip, oral cavity, and pharynx	2.1	0.0	0.1	0.0	0.2	3.5	8.0
Malignant neoplasm of esophagus	4.5	0.0	0.0	0.0	0.3	6.1	20.7
Malignant neoplasm of stomach	3.3	0.0	0.0	0.0	0.6	3.7	15.8
Malignant neoplasm of colon, rectum, and anus	14.4	0.0	0.0	0.0	1.3	15.6	73.5
Malignant neoplasm of liver and intrahepatic bile ducts	7.4	0.0	0.2	0.2	0.1	12.9	29.8
Malignant neoplasm of pancreas	11.0	0.0	0.0	0.0	0.5	11.1	58.8
Malignant neoplasm of larynx	0.9	1.2	0.0	0.0	0.0	1.3	4.2
Malignant neoplasm of trachea, bronchus and lung	41.2	0.0	0.0	0.0	1.1	36.7	230.9
Malignant melanoma of skin	2.9	0.0	0.0	0.0	0.4	3.6	13.6
Malignant neoplasm of breast	11.6	0.0	0.0	0.0	1.7	16.9	50.0
Malignant neoplasm of cervix uteri	2.2	0.0	0.0	0.0	1.5	4.7	3.7
Malignant neoplasm of corpus uteri and uterus, part unspecified	4.9	0.0	0.0	0.0	0.5	6.3	21.3
Malignant neoplasm of ovary	8.6	0.0	0.0	0.0	0.7	10.8	38.3
Malignant neoplasm of prostate	17.9	0.0	0.0	0.0	0.3	6.7	128.6
Malignant neoplasm of kidney and renal pelvis	4.1	0.0	0.1	0.0	0.1	4.6	21.5
Malignant neoplasm of bladder	5.5	0.0	0.0	0.0	0.0	3.2	34.1

TABLE 2C-28 (continued)
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES¹ BY AGE GROUP, ARIZONA, 2011

	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	4.3	0.0	0.5	1.1	1.0	6.0	16.6
Malignant neoplasm of lymphoid, hematopoietic, and related tissue	16.4	0.0	0.5	1.1	2.4	13.0	88.4
Hodgkin's disease	0.3	0.0	0.0	0.0	0.2	0.4	0.9
Non-Hodgkin's lymphoma	6.1	0.0	0.1	0.0	0.4	5.1	34.0
Leukemia	6.6	0.0	0.5	0.9	1.6	4.8	33.9
Multiple myeloma and immunoproliferative neoplasms	3.4	0.0	0.0	0.0	0.1	2.7	19.6
Other and unspecified malignant neoplasms of lymphoid tissue	0.0	0.0	0.0	0.2	0.0	0.1	0.0
All other and unspecified malignant neoplasm	17.4	0.0	0.6	0.9	2.0	18.5	87.2
In situ neoplasms	4.3	1.2	0.2	0.6	0.4	2.0	25.7
Anemias	0.8	0.0	0.2	0.0	0.1	0.5	4.4
Diabetes	26.7	0.0	0.1	0.4	2.9	29.2	134.4
Nutritional deficiencies	0.6	0.0	0.0	0.0	0.0	0.3	4.1
Malnutrition	0.6	0.0	0.0	0.0	0.0	0.2	4.1
Other nutritional deficiencies	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Obesity	2.5	1.2	0.0	0.0	1.5	5.2	5.1
Meningitis	0.3	1.2	0.2	0.0	0.2	0.3	0.6
Parkinson's disease	8.5	0.0	0.0	0.0	0.0	1.2	59.2
Alzheimer's disease	36.3	0.0	0.0	0.0	0.0	1.8	259.8
Major cardiovascular diseases	212.6	21.1	0.6	1.3	13.2	135.9	1264.3
Diseases of heart	161.9	11.7	0.3	1.1	10.6	112.0	946.8
Acute rheumatic fever and chronic rheumatic heart disease	1.1	0.0	0.0	0.0	0.0	0.4	6.9
Hypertensive heart disease	11.5	0.0	0.0	0.0	1.0	11.1	61.0
Hypertensive heart and renal disease	0.8	0.0	0.0	0.0	0.0	0.4	4.7
Ischemic heart disease	116.5	0.0	0.0	0.0	6.2	83.9	680.1
Acute myocardial infarction	25.1	0.0	0.0	0.0	1.3	16.9	148.4
Other acute ischemic heart disease	0.4	0.0	0.0	0.0	0.0	0.3	2.4
Other forms of chronic ischemic heart disease	91.0	0.0	0.0	0.0	4.8	66.7	529.3
Atherosclerotic cardiovascular disease	29.7	0.0	0.0	0.0	2.7	37.2	142.8
All other forms of chronic ischemic heart disease	61.3	0.0	0.0	0.0	2.1	29.6	386.5
Other heart diseases	32.1	11.7	0.3	1.1	3.3	16.1	194.0
Acute and subacute endocarditis	0.2	0.0	0.0	0.0	0.0	0.3	0.9
Diseases of pericardium and acute myocarditis	0.3	0.0	0.1	0.0	0.1	0.3	1.4
Heart failure	8.7	0.0	0.0	0.0	0.0	1.6	60.5
All other forms of heart disease	22.9	11.7	0.2	1.1	3.2	13.9	131.3
Essential (primary) hypertension and hypertensive renal disease	11.3	0.0	0.0	0.0	0.4	5.1	71.6
Cerebrovascular diseases	32.1	9.4	0.3	0.0	1.9	14.7	200.7
Atherosclerosis	2.1	0.0	0.0	0.0	0.0	0.5	14.2

TABLE 2C-28 (continued)
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES¹ BY AGE GROUP, ARIZONA, 2011

	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	5.3	0.0	0.0	0.2	0.3	3.5	31.0
Aortic aneurysm and dissection	2.4	0.0	0.0	0.2	0.1	1.8	13.5
Other disease of arteries, arterioles, and capillaries	2.9	0.0	0.0	0.0	0.2	1.7	17.5
Other disorders of circulatory system	1.4	1.2	0.0	0.0	0.7	2.3	4.6
Influenza and pneumonia	10.1	5.9	0.3	0.4	1.0	5.3	60.0
Influenza	0.4	0.0	0.1	0.2	0.3	0.3	1.5
Pneumonia	9.7	5.9	0.2	0.2	0.7	4.9	58.6
Other acute lower respiratory infections	0.1	0.0	0.1	0.0	0.0	0.1	0.2
Acute bronchiolitis	0.1	0.0	0.1	0.0	0.0	0.1	0.2
Unspecified acute lower respiratory infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chronic lower respiratory diseases	48.8	2.3	0.4	0.0	0.8	23.6	309.1
Bronchitis, chronic and unspecified	0.1	1.2	0.0	0.0	0.0	0.1	0.6
Emphysema	2.3	1.2	0.0	0.0	0.0	1.3	14.5
Asthma	1.4	0.0	0.4	0.0	0.5	1.6	5.4
Other chronic lower respiratory diseases	45.0	0.0	0.0	0.0	0.4	20.6	288.6
Pneumoconioses and chemical effects	0.3	0.0	0.0	0.0	0.0	0.1	1.9
Pneumonitis due to solids and liquids	3.9	0.0	0.0	0.0	0.0	1.4	26.0
Other disease of respiratory system	8.5	8.2	0.4	0.0	0.6	6.0	48.1
Peptic ulcer	0.9	0.0	0.0	0.0	0.0	0.6	5.7
Diseases of appendix	0.1	1.2	0.1	0.0	0.1	0.0	0.6
Hernia	0.6	0.0	0.0	0.0	0.1	0.2	3.8
Chronic liver disease and cirrhosis	14.5	0.0	0.0	0.0	5.0	34.3	32.1
Alcoholic liver disease	10.0	0.0	0.0	0.0	4.6	25.7	15.3
Other chronic liver disease and cirrhosis	4.5	0.0	0.0	0.0	0.3	8.6	16.8
Cholelithiasis and other disorders of gallbladder	1.3	0.0	0.0	0.0	0.0	1.0	7.3
Nephritis, nephrotic syndrome, and nephrosis	6.4	0.0	0.1	0.2	0.3	3.9	38.3
Acute and rapidly progressive nephritic and nephrotic syndrome	0.1	0.0	0.1	0.0	0.0	0.1	0.2
Chronic glomerulonephritis	0.9	0.0	0.0	0.0	0.0	0.4	6.0
Renal failure	5.3	0.0	0.0	0.2	0.3	3.3	32.1
Others disorders of kidney	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Infections of kidney	0.2	0.0	0.0	0.0	0.0	0.1	1.5
Hyperplasia of prostate	0.3	0.0	0.0	0.0	0.0	0.1	2.4
Inflammatory diseases of female pelvic organs	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Pregnancy, childbirth, and the puerperium	0.1	0.0	0.0	0.0	0.2	0.0	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	0.1	0.0	0.0	0.0	0.2	0.0	0.0

**TABLE 2C-28 (continued)
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES¹ BY AGE GROUP, ARIZONA, 2011**

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Perinatal conditions	3.7	274.7	0.2	0.0	0.0	0.0	0.1
Congenital anomalies, deformations, and chromosomal abnormalities	3.1	125.6	1.3	0.4	1.0	1.4	3.5
Symptoms, signs, abnormal findings	17.3	62.2	0.9	1.5	4.1	7.7	92.9
Total accidents	46.0	27.0	6.5	19.8	41.9	50.3	120.5
Transport accidents	13.3	4.7	2.9	12.5	16.2	15.8	18.1
Motor vehicle accidents	12.2	4.7	2.6	12.5	15.2	14.1	16.2
Other land transport accidents	0.3	0.0	0.0	0.0	0.1	0.7	0.6
Water, air, space	0.8	0.0	0.3	0.0	0.8	1.1	1.4
Nontransport accidents	32.6	22.3	3.6	7.3	25.7	34.5	102.4
Falls	12.1	1.2	0.0	0.6	0.8	4.5	76.9
Accidental discharge of firearms	0.1	0.0	0.0	0.2	0.1	0.1	0.2
Accidental drowning and submersion	3.4	2.0	0.6	0.9	1.1	2.0	1.3
Accidental exposure to smoke, fire, and flames	0.5	0.0	0.2	0.0	0.2	0.8	1.5
Accidental poisoning	13.7	0.0	0.1	5.4	21.2	22.9	4.8
Other and unspecified nontransport accidents	4.9	17.6	1.3	0.4	2.4	5.1	16.9
Intentional self-harm (suicide)	17.3	1.2	0.9	10.8	20.9	26.6	20.5
By discharge of firearms	10.4	0.0	0.2	4.1	11.3	16.1	16.8
By other means	6.9	1.2	0.8	6.7	9.6	10.5	3.7
Assault (homicide)	6.0	7.0	1.1	6.2	10.5	5.7	2.6
By discharge of firearms	3.9	2.3	0.2	4.3	7.9	3.0	1.5
By other means	2.1	4.7	0.9	1.9	2.6	2.7	1.1
Legal intervention	0.2	0.0	0.0	0.4	0.3	0.4	0.0
Events of undetermined intent	2.1	4.7	0.2	1.3	1.9	4.0	1.9
Discharge of firearms	0.2	0.0	0.0	0.0	0.3	0.3	0.0
Other and unspecified events of undetermined intent	1.9	4.7	0.2	1.3	1.5	3.7	1.9
Operations of war	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Complications of medical and surgical care	0.8	4.7	0.0	0.2	0.2	0.6	3.7
Injury by firearms ²	14.8	2.3	0.4	9.0	20.0	19.7	18.5
Drug-induced deaths ²	16.5	0.0	0.0	5.8	23.7	28.9	8.0
Alcohol-induced deaths ²	15.1	0.0	0.0	0.4	8.5	38.2	21.1

¹The rates for infants <1 year of age 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

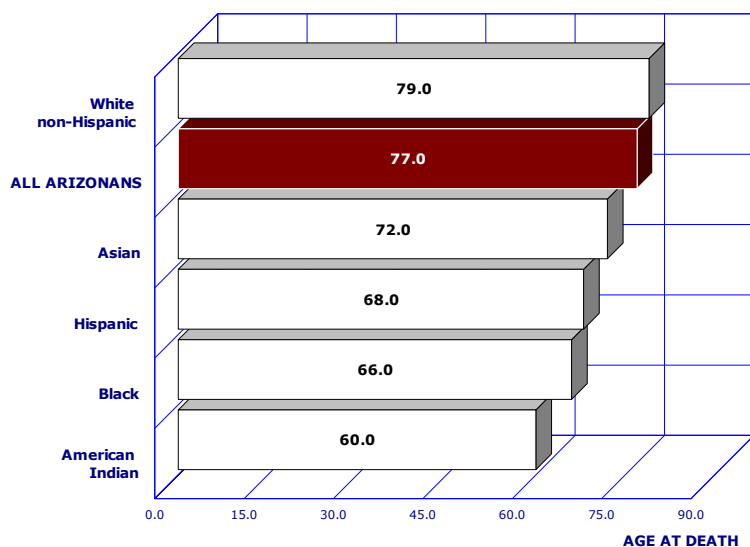
Compared with the White non-Hispanics, the race/ethnic minority groups in Arizona have had greater percentages of people younger than 25 years (47.1 vs. 27.1 percent). In contrast, people aged 65 years and older accounted for 19.5 percent of White non-Hispanics, but only 5.6 percent of all ethnic minority 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 2011, the elderly (65 years and older) comprised 77.0 percent of the total mortality among White non-Hispanics, compared to 43.5 percent among American Indians, 52.5 percent among Blacks, 56.0 percent among Hispanics, and 61.4 percent among Asians. One out of 107 White non-Hispanics who died in 2011 was less than 20 years old (0.9 percent). In contrast, persons younger than 20 years of age accounted for one out of every 16 (6.0 percent) deaths among Arizona ethnic minorities (**Tables 2C-4, 2C-10, 2C-14, 2C-18, 2C-22, and 2C-26**). These values indicate that Arizona's White non-Hispanics tend to experience mortality at later stages of life than members of Arizona's racial/ethnic minority groups.

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, 2011

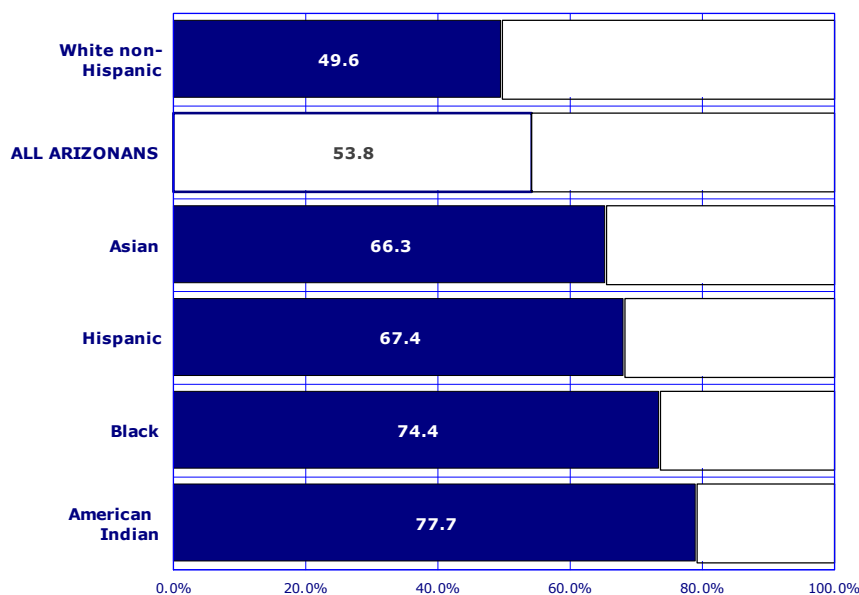


The median age at death remained stable at 77 years from 2010 to 2011 (**Table 2D-1**). Compared to 2010, there were more deaths in 2011 from causes such as diabetes and Alzheimer's disease i.e., the causes with the highest median age at death (72 and 87 years, respectively; **Table 2B-1, Table 2D-3, Figure 2D-3**).

One out of two Arizonans who died in 2011 was older than 77 years of age. Among Arizona females, fifty percent were older than 81 years when they died in 2011. Among males, the median age at death was 73 years in 2001 - 2011. **Table 2D-1** shows both the average and the median age at death by race/ethnicity and gender in 2001-2011.

In 2011, compared to White non-Hispanics, on average Asians were 7 years younger at time of death, Blacks were 12 years younger, Hispanics were 13 years younger, and American Indian residents of Arizona were 18 years younger (based on the mean age at death).

Figure 2D-2
Percent of Deaths before Expected Years of Life Reached* by Race/Ethnicity, Arizona, 2011



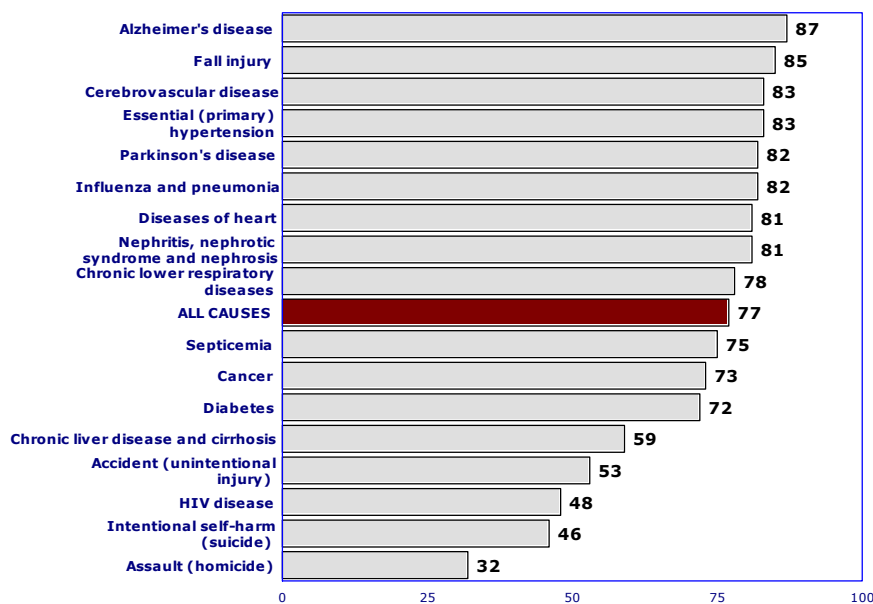
The percent of deaths before expected years of life reached (a premature death ratio) slightly decreased for all Arizonans at 53.8 in 2011 and 54.5 in 2010 (**Figure 2D-2**).

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 (49.6 percent) occurring before the expected years of life were reached (**Figure 2D-2**). In contrast, at least 66.3 percent of deaths among race/ethnic minority groups occurred prematurely.

Among American Indians, nearly eight out of ten deaths (77.7 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, 2011

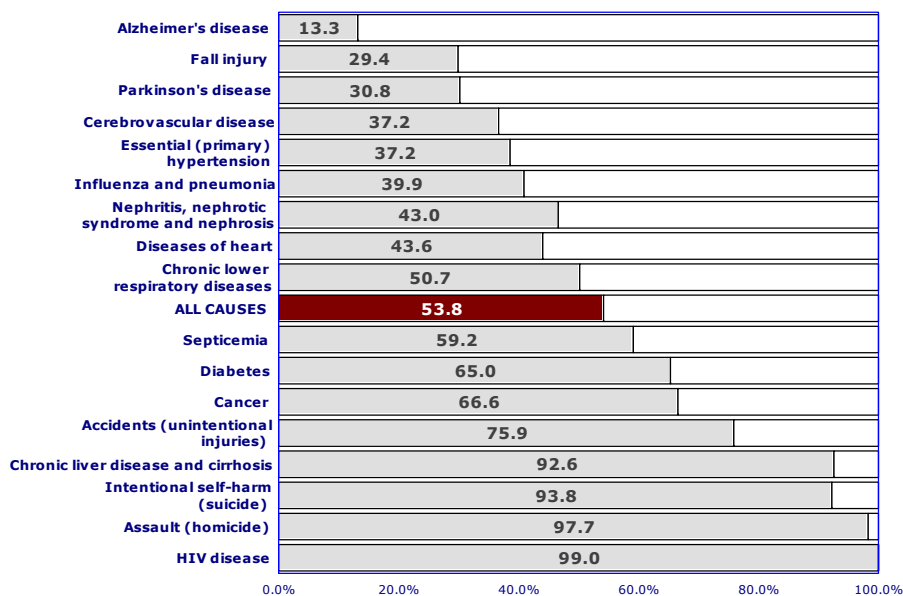


In 2011, *Alzheimer's disease* again ranked highest with median age at death of 87 years (**Figure 2D-3**), exceeding by 10 years the median age at death for all causes (**Figure 2D-3, Table 2D-3**).

Among the leading causes of death, *homicide* had the lowest median age at death of 32 years.

From 2001 to 2011, *cancer* has replaced *diseases of the heart* as the leading cause of death (based on the number of deaths). 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, 2011



Only 13.3 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 99.0 percent (**Figure 2D-4, Table 2D-4**) and the median age at death from *HIV disease* remained increased from the previous year at 48 years (**Figure 2D-3, Table 2D-3**).

A minority of deaths from *diseases of heart* were premature (43.6 percent). In contrast 66.6 percent of deaths from *cancer* occurred before the expected years of life were reached.

**TABLE 2D-1
AVERAGE AND MEDIUM AGE AT DEATH FROM ALL CAUSES BY GENDER AND RACE/ETHNICITY, ARIZONA, 2001-2011**

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 other Pacific Islander			
				Mean	Median	Mean	Median	Mean	Median	Mean	Median	Mean	Median		
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	58.0	65.3	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		
2011	Total	72.8	77.0	75.3	79.0	63.6	68.0	63.6	66.0	58.4	60.0	68.2	72.0		
	Male	69.7	73.0	72.5	76.0	59.8	63.0	61.0	64.0	54.4	54.0	65.6	69.0		
	Female	76.2	81.0	78.3	82.0	68.5	75.0	66.6	69.0	63.2	67.0	70.8	75.0		

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, 2001-2011**

Year/gender	All race/ethnic groups²	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or other Pacific Islander
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
2011 Total	53.8	49.6	67.4	74.4	77.7	66.3
Male	61.8	57.5	75.4	80.7	84.3	71.3
Female	45.1	41.2	57.3	67.1	70.0	61.5

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, 2011**

	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 African American	American Indian or Alaska Native	Asian or other Pacific Islander	
Total, all causes	77.0	73.0	81.0	77.0	74.0	81.0	75.0	73.0	79.0	68.0	66.0	60.0	60.0	72.0	
Major cardiovascular diseases	81.0	78.0	85.0	82.0	78.0	85.0	80.0	76.0	83.5	77.0	68.0	72.0	75.0		
Diseases of heart	81.0	77.0	85.0	82.0	78.0	85.0	79.0	76.0	83.0	77.0	67.0	69.0	75.0		
Coronary heart disease	80.0	77.0	85.0	81.0	77.0	85.0	78.0	75.0	82.5	76.0	68.0	69.0	74.0		
Malignant neoplasms	73.0	72.0	73.0	72.0	72.0	73.0	73.0	73.0	72.0	68.0	66.0	69.0	72.0		
Lung cancer	73.0	72.0	74.0	73.0	72.0	74.0	73.0	73.0	74.0	74.0	69.0	76.0	74.0		
Prostate cancer	80.0	80.0	NA	80.0	80.0	NA	82.0	82.0	NA	81.0	74.0	81.0	54.0		
Breast cancer	68.0	62.0	68.0	68.0	83.0	68.0	70.0	57.0	70.0	59.5	60.0	69.5	56.0		
Colorectal cancer	73.0	71.0	76.0	73.0	71.0	76.0	73.0	72.5	75.0	68.0	71.0	65.0	75.0		
Malignant melanoma of skin	70.0	71.0	67.0	70.0	71.0	66.0	72.0	72.0	73.0	70.0	0.0	75.0	70.0		
Cerebrovascular diseases	83.0	79.0	84.0	83.0	80.0	84.0	82.0	78.0	84.0	84.0	72.0	76.0	74.5		
Chronic lower respiratory diseases	78.0	77.0	80.0	79.0	78.0	80.0	76.0	75.0	78.0	77.0	71.0	75.5	79.0		
Accidents (unintentional injuries)	53.0	49.0	63.0	54.0	49.0	67.0	52.0	49.0	56.5	59.0	46.0	40.0	57.5		
Motor vehicle accidents	42.0	42.0	42.0	42.0	40.0	44.0	42.0	46.0	37.0	33.0	39.0	33.0	64.0		
Falls	85.0	81.0	87.0	85.0	81.0	87.0	82.0	77.0	86.0	79.0	84.0	72.0	83.5		
Accidental poisoning	42.0	40.0	46.0	42.0	39.0	46.0	45.0	44.0	47.0	37.0	46.0	40.5	42.0		
Accidental drowning	38.0	38.0	40.0	38.0	38.0	37.0	40.0	27.0	51.5	15.0	22.0	36.5	20.5		
Influenza and pneumonia	82.0	80.0	84.0	82.0	80.0	84.0	82.0	80.0	83.0	78.0	55.0	82.0	77.0		
Alzheimer's disease	87.0	85.0	88.0	87.0	85.0	88.0	87.0	84.5	88.0	86.0	87.5	80.0	86.0		
Diabetes	72.0	71.0	75.0	72.0	71.0	75.0	72.0	71.0	73.0	70.0	67.0	66.0	72.0		
Intentional self-harm (suicide)	46.0	46.0	48.0	47.0	46.0	47.5	47.0	46.0	50.5	33.5	30.5	26.0	41.5		
Chronic liver disease and cirrhosis	59.0	59.0	58.0	59.0	59.0	59.5	58.0	58.5	55.5	59.0	56.0	49.0	56.0		
Nephritis, nephrotic syndrome and nephrosis	81.0	80.0	83.0	81.0	80.0	82.0	81.0	80.0	84.0	83.0	75.0	63.5	77.0		
Septicemia	75.0	73.5	76.0	73.0	72.0	74.0	77.0	76.0	79.0	73.0	68.0	60.0	72.0		
Assault (homicide)	32.0	30.0	43.5	30.0	29.0	43.0	36.0	34.0	46.0	27.0	31.0	30.5	44.0		
Parkinson's disease	82.0	82.0	84.0	83.0	82.0	84.0	82.0	81.0	83.0	80.0	81.0	77.0	82.0		
Essential (primary) hypertension and hypertensive renal disease	83.0	79.0	84.0	83.0	79.0	85.0	81.0	77.0	83.0	79.0	68.0	67.5	77.0		
Human immunodeficiency virus (HIV) disease	48.0	48.0	48.0	49.0	49.0	47.0	47.0	46.0	63.0	44.0	51.0	38.5	59.5		
INJURY BY FIREARMS	44.0	44.0	48.5	43.0	42.0	47.5	50.0	50.0	50.5	28.5	29.0	28.0	23.0		
DRUG-INDUCED DEATHS	44.0	41.0	47.0	44.0	40.0	47.0	47.0	45.0	50.0	39.0	45.5	40.5	42.0		
ALCOHOL-INDUCED DEATHS	55.0	56.0	53.0	56.0	57.0	54.0	53.0	54.5	50.0	55.0	55.0	46.0	51.5		

*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, 2011**

	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 African American	American Indian or Alaska Native	Asian or other Pacific Islander		
																	Female	Male
Total, all causes	53.8%	61.8%	45.1%	52.7%	60.7%	44.1%	57.7%	65.1%	49.0%	49.0%	49.6%	67.4%	74.4%	77.7%	66.3%			
Major cardiovascular diseases	42.1%	52.1%	31.4%	40.6%	50.7%	30.2%	47.2%	56.7%	35.9%	35.9%	38.5%	52.8%	72.1%	66.9%	62.3%			
Diseases of heart	43.3%	53.0%	31.6%	41.9%	51.6%	30.5%	48.1%	57.4%	35.8%	35.8%	40.1%	54.1%	74.2%	66.5%	62.7%			
Coronary heart disease	45.3%	54.8%	32.6%	43.7%	53.3%	31.3%	51.4%	59.7%	38.6%	38.6%	42.5%	54.9%	72.6%	63.4%	65.7%			
Malignant neoplasms	66.6%	67.3%	65.8%	66.3%	67.1%	65.4%	67.3%	67.4%	67.1%	67.1%	64.8%	73.4%	81.5%	73.5%	74.8%			
Lung cancer	68.4%	69.9%	66.5%	68.1%	69.6%	66.2%	69.2%	70.3%	67.7%	67.7%	68.6%	62.6%	77.6%	61.5%	60.9%			
Prostate cancer	44.4%	44.4%	NA	46.6%	46.7%	NA	35.6%	35.6%	NA	NA	42.9%	52.5%	53.8%	30.0%	66.7%			
Breast cancer	72.8%	66.7%	72.8%	73.4%	33.3%	73.6%	70.1%	100.0%	69.5%	69.5%	69.2%	91.2%	90.9%	83.3%	92.3%			
Colorectal cancer	63.0%	68.4%	57.1%	62.9%	69.4%	56.3%	62.7%	64.4%	60.5%	60.5%	59.6%	76.3%	70.0%	85.7%	76.5%			
Malignant melanoma of skin	74.2%	69.6%	83.6%	72.7%	66.3%	84.2%	84.0%	85.7%	75.0%	75.0%	73.1%	81.8%	0.0%	100.0%	100.0%			
Cerebrovascular diseases	37.0%	46.9%	30.7%	35.5%	44.7%	29.7%	42.1%	52.8%	34.6%	34.6%	31.8%	50.8%	65.4%	62.2%	63.3%			
Chronic lower respiratory diseases	50.7%	55.3%	46.5%	48.9%	53.2%	45.0%	56.8%	62.5%	51.5%	51.5%	50.0%	53.3%	68.0%	54.5%	47.1%			
Accidents (unintentional injuries)	75.7%	84.2%	62.5%	73.4%	82.6%	59.4%	82.9%	89.1%	73.2%	73.2%	69.3%	86.5%	89.9%	95.9%	78.6%			
Motor vehicle accidents	93.2%	94.6%	89.7%	93.2%	94.7%	89.3%	93.1%	94.2%	90.5%	90.5%	89.8%	95.5%	96.6%	99.3%	90.9%			
Falls	29.6%	43.8%	18.4%	27.3%	41.3%	16.3%	40.9%	56.3%	29.9%	29.9%	25.5%	46.6%	40.0%	74.1%	33.3%			
Accidental poisoning	99.4%	99.3%	99.7%	99.3%	99.1%	99.6%	100.0%	100.0%	100.0%	100.0%	99.3%	99.3%	100.0%	100.0%	100.0%			
Accidental drowning	92.7%	92.7%	92.6%	91.3%	90.9%	92.0%	100.0%	100.0%	100.0%	100.0%	91.7%	93.8%	83.3%	100.0%	100.0%			
Influenza and pneumonia	39.1%	44.7%	33.6%	38.8%	43.4%	34.6%	40.1%	47.4%	30.7%	30.7%	34.8%	52.4%	73.3%	43.9%	55.6%			
Alzheimer's disease	13.3%	18.1%	10.9%	13.1%	16.8%	11.2%	14.3%	26.7%	8.0%	8.0%	12.6%	15.1%	14.8%	40.0%	17.6%			
Diabetes	65.3%	69.8%	59.9%	65.0%	69.5%	59.6%	66.0%	70.4%	60.2%	60.2%	60.1%	72.1%	78.7%	81.9%	66.7%			
Intentional self-harm (suicide)	93.9%	93.2%	96.3%	94.0%	93.2%	96.8%	93.8%	93.7%	94.4%	94.4%	92.8%	97.8%	95.8%	100.0%	100.0%			
Chronic liver disease and cirrhosis	92.5%	94.8%	88.2%	91.8%	94.5%	86.8%	94.6%	95.8%	92.5%	92.5%	91.0%	93.5%	100.0%	96.5%	100.0%			
Nephritis, nephrotic syndrome and nephrosis	42.7%	46.6%	38.6%	43.0%	47.9%	37.2%	41.7%	42.4%	41.2%	41.2%	35.4%	56.9%	75.0%	64.0%	55.6%			
Septicemia	58.8%	62.2%	55.2%	61.6%	63.2%	59.6%	52.4%	59.0%	46.7%	46.7%	52.7%	66.0%	90.9%	72.4%	75.0%			
Assault (homicide)	97.6%	98.3%	95.1%	97.4%	98.4%	93.7%	100.0%	100.0%	100.0%	100.0%	96.2%	98.6%	100.0%	100.0%	85.7%			
Parkinson's disease	30.9%	34.2%	26.0%	30.2%	33.8%	24.6%	34.0%	35.8%	31.8%	31.8%	28.8%	48.5%	42.9%	53.3%	0.0%			
Essential (primary) hypertension and hypertensive renal disease	37.2%	48.3%	29.4%	36.3%	46.9%	28.6%	43.4%	60.0%	34.0%	34.0%	31.1%	48.8%	72.7%	78.6%	60.0%			
Human immunodeficiency virus (HIV) disease	99.0%	98.8%	100.0%	98.8%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%	97.9%	100.0%	100.0%	100.0%	100.0%			
INJURY BY FIREARMS	93.3%	93.0%	95.3%	93.4%	93.2%	94.9%	93.0%	92.4%	96.7%	96.7%	91.1%	98.4%	97.7%	100.0%	100.0%			
DRUG-INDUCED DEATHS	99.1%	99.3%	98.9%	99.1%	99.4%	98.6%	99.4%	98.8%	100.0%	100.0%	99.4%	98.2%	97.1%	100.0%	100.0%			
ALCOHOL-INDUCED DEATHS	97.2%	97.1%	97.7%	96.9%	96.8%	97.3%	98.0%	97.7%	98.7%	98.7%	96.3%	98.2%	100.0%	98.9%	100.0%			

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

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