

CHAPTER 2

TRENDS AND PATTERNS IN MORTALITY, ARIZONA, 2013-2023

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2D. PATTERNS OF PREMATURE MORTALITY



2A.

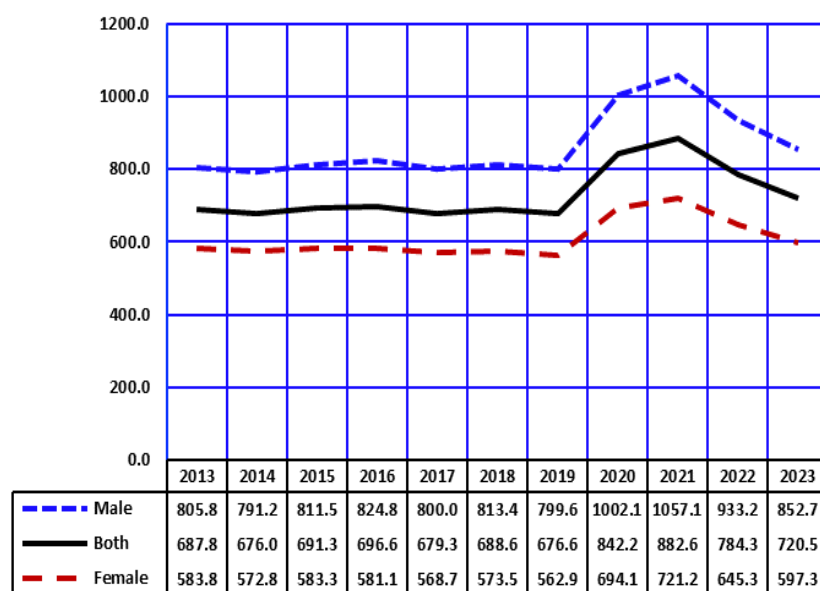
TOTAL MORTALITY

The total number of deaths from all causes among Arizona residents decreased by 6.6 percent from 73,861 in 2022 to 69,005 in 2023 (**Table 2A-1**). The age-adjusted mortality rate for all causes of death decreased 8.1 percent from 784.3/100,000 in 2022 to 720.5/100,000 in 2023. When considering race/ethnicity, we observe an increase in the age adjusted mortality of all racial/ethnic groups in 2023 compared to 2013 (**Figure 2A-2**).

There were some disparities by gender and race/ethnicity for total mortality. Deaths in Arizona by residents in 2023 mostly occurred in January (9.2 percent) and the smallest counts were recorded in September (7.6 percent) (**Table 2A-3**).

2A. TOTAL MORTALITY

Figure 2A-1
Age-adjusted Mortality Rates^a for all Causes by Gender and Year,
Arizona, 2013-2023



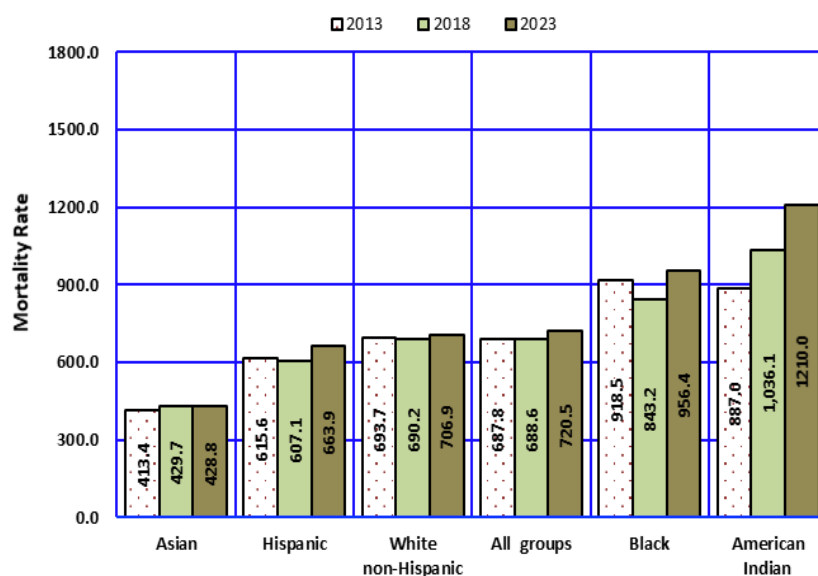
The age-adjusted mortality rates discussed below are based on the year 2000 population standard. All mortality rates in sections 2A and 2B are age-adjusted. A detailed explanation of the age-adjustment of mortality rates is given in the **Technical Notes**.

The total age-adjusted mortality rate decreased by 8.1 percent, from 784.3 deaths per 100,000 population in 2022 to 720.5 deaths in 2023 (**Figure 2A-1, Table 2B-2**). Over this period, the age-adjusted mortality rates decreased for both males (8.6 percent) and females (7.4 percent).

The gap between male and female mortality rates remained between 2013 and 2023. In each year during the 11-year period, the male age-adjusted mortality rate was almost 1.4 to 1.5 times higher than the female age-adjusted mortality annually.

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

Figure 2A-2
Age-adjusted Mortality Rates^a for all Causes by Race/Ethnicity and Year,
Arizona Residents, 2013, 2018, and 2023



The 2023 age-adjusted death rates for the major racial/ethnic groups were as follows: for Asian or Pacific Islander, 428.8 deaths per 100,000 population; Hispanic or Latino, 663.9; White non-Hispanic, 706.9; Black or African American, 956.4; and American Indian or Alaska Native, 1210.0 (**Figure 2A-2, Table 2B-4**).

In 2023, as in 2013 and 2018, American Indians and Blacks had higher total mortality rates than White non-Hispanics, Hispanics, and Asians. The total mortality rates for Asians were lower than the rates of both White non-Hispanics and Hispanics in 2013, 2018, and 2023.

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

2A. TOTAL MORTALITY

Figure 2A-3
Percent of Annual Deaths by Month of Occurrence and Residence Status, Arizona, 2023

If there was no monthly variation in proportional contribution to total annual deaths, 8.3 percent (100/12) of deaths should occur monthly. However, when the monthly distribution of resident deaths is examined, the months of January, March, April, July, and December, contributed more than the expected value (**Figure 2A-3**). September was the month with the lowest percent contribution to the total annual deaths among Arizona residents (AZR).

The majority of the 2,993 non-residents who died in Arizona during 2023 did so during the months of January, February, March, and July.

August was the month with the lowest percent contribution (6.4 percent) to the annual death among out-of-State residents (OSR) who died in Arizona.

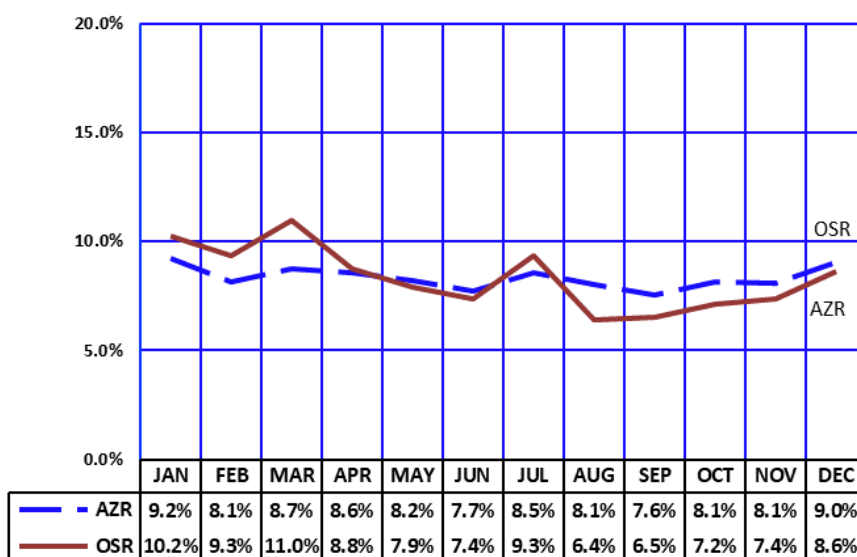
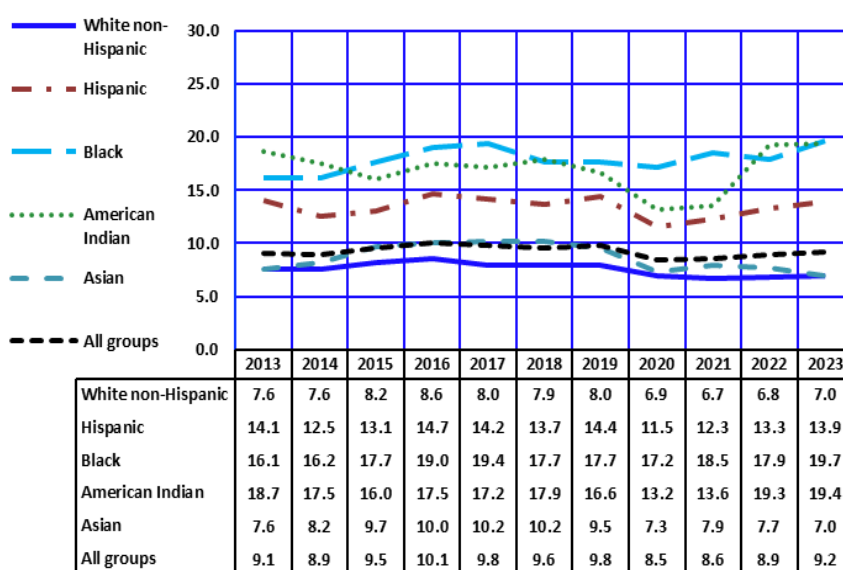


Figure 2A-4
Percentage of Deaths for which Autopsies were Reported by Race/Ethnicity and Year, Arizona Residents, 2013-2023

Autopsies were reported as performed on 6,321 decedents, or 9.2 percent of the deaths that occurred among Arizona residents in 2023. From 2013 – 2023, the percentage of deaths for which autopsies were reported varied from a low of 8.5 percent in 2020 to a high of 10.1 percent in 2016.

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



**TABLE 2A-1
NUMBER OF DEATHS BY RACE/ETHNICITY, GENDER, AND YEAR, ARIZONA RESIDENTS, 2013-2023**

TOTAL		2013^a	2014^a	2015^a	2016^a	2017^a	2018^a	2019^a	2020	2021	2022	2023
		Total	49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700	81,482	69,005
	Male	26,222	27,037	28,814	30,431	30,721	32,067	32,575	41,431	45,102	40,397	37,561
	Female	23,703	24,034	25,334	26,046	26,537	27,136	27,585	34,269	36,369	33,462	31,444
White non-Hispanic	Total	39,543	40,391	42,750	44,092	44,191	45,194	45,467	54,148	57,987	54,464	51,183
	Male	20,550	21,207	22,504	23,439	23,375	24,150	24,334	28,990	31,702	29,362	27,420
	Female	18,989	19,181	20,242	20,653	20,816	21,044	21,133	25,158	26,285	25,102	23,763
Hispanic or Latino	Total	6,300	6,444	6,839	7,343	7,539	8,088	8,488	12,504	13,785	11,225	10,268
	Male	3,412	3,543	3,814	4,154	4,197	4,629	4,770	7,277	7,998	6,396	5,792
	Female	2,888	2,901	3,025	3,189	3,341	3,458	3,718	5,227	5,787	4,829	4,476
Black or African American	Total	1,593	1,578	1,742	1,925	1,896	2,057	2,207	2,932	3,295	2,991	2,864
	Male	897	852	971	1,108	1,076	1,104	1,205	1,723	1,850	1,714	1,664
	Female	696	726	771	817	820	953	1,002	1,209	1,443	1,277	1,200
American Indian or Alaska Native	Total	1,955	2,074	2,140	2,346	2,355	2,527	2,599	4,290	4,380	3,530	3,121
	Male	1,103	1,152	1,187	1,365	1,334	1,445	1,463	2,412	2,463	2,050	1,813
	Female	852	922	953	981	1,021	1,081	1,136	1,878	1,917	1,480	1,308
Asian or Pacific Islander	Total	538	582	673	769	796	886	957	1,199	1,543	1,234	1,129
	Male	260	280	334	364	377	419	492	586	772	603	562
	Female	278	302	339	405	419	467	465	613	771	631	567
Refused/Unknown race	Total	^b	10 [†]	10 [†]	0 [†]	484	454	443	627	492	417	440
	Male	^b	*	*	*	362	320	311	443	317	272	310
	Female	^b	*	*	*	120	133	131	184	166	143	130

Notes: * Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ^a Deaths with unknown gender or unknown race/ethnicity were included in total; ^b Bridging of race/ethnicity in 2012 and 2013 differed from previous years. Individuals with unknown race were categorized as White non-Hispanic, while individuals with unknown race and Hispanic ethnicity were coded as Hispanic.

**TABLE 2A-2
RESIDENT MORTALITY BY MONTH OF OCCURRENCE AND YEAR, ARIZONA, 2013-2023**

Month of death		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
JAN	Count	5,079	4,824	5,028	5,119	5,111	6,219	5,595	5,693	10,061	8,343	6,370
	Percent	10.2%	9.4%	9.3%	9.1%	8.9%	10.5%	9.3%	7.5%	12.3%	11.3%	9.2%
FEB	Count	4,383	4,227	4,267	5,135	4,514	4,832	4,724	5,275	6,566	6,664	5,616
	Percent	8.8%	8.3%	7.9%	9.1%	7.9%	8.2%	7.9%	7.0%	8.1%	9.0%	8.1%
MAR	Count	4,484	4,333	4,819	5,387	5,070	5,353	5,372	5,745	6,039	6,165	6,032
	Percent	9.0%	8.5%	8.9%	9.5%	8.9%	9.0%	8.9%	7.6%	7.4%	8.3%	8.7%
APR	Count	4,231	4,278	4,547	4,689	4,854	4,922	5,029	5,768	5,457	5,546	5,916
	Percent	8.5%	8.4%	8.4%	8.3%	8.5%	8.3%	8.4%	7.6%	6.7%	7.5%	8.6%
MAY	Count	4,076	4,291	4,527	4,603	4,867	4,768	5,098	5,833	5,749	5,769	5,663
	Percent	8.2%	8.4%	8.4%	8.1%	8.5%	8.1%	8.5%	7.7%	7.1%	7.8%	8.2%
JUN	Count	3,831	4,072	4,396	4,464	4,782	4,666	4,689	6,483	5,692	5,594	5,333
	Percent	7.7%	8.0%	8.1%	7.9%	8.4%	7.9%	7.8%	8.6%	7.0%	7.6%	7.7%
JUL	Count	3,926	4,071	4,338	4,496	4,739	4,761	4,923	8,243	5,836	6,066	5,899
	Percent	7.9%	8.0%	8.0%	8.0%	8.3%	8.0%	8.2%	10.9%	7.2%	8.2%	8.5%
AUG	Count	3,893	4,112	4,338	4,432	4,534	4,647	4,848	6,603	6,718	5,663	5,557
	Percent	7.8%	8.1%	8.0%	7.8%	7.9%	7.8%	8.1%	8.7%	8.2%	7.7%	8.1%
SEP	Count	3,804	3,994	4,183	4,253	4,423	4,505	4,755	5,390	6,865	5,473	5,216
	Percent	7.6%	7.8%	7.7%	7.5%	7.7%	7.6%	7.9%	7.1%	8.4%	7.4%	7.6%
OCT	Count	3,868	4,184	4,284	4,501	4,548	4,619	4,858	5,566	6,849	5,645	5,613
	Percent	7.7%	8.2%	7.9%	8.0%	7.9%	7.8%	8.1%	7.4%	8.4%	7.6%	8.1%
NOV	Count	3,924	4,239	4,543	4,518	4,547	4,706	5,058	6,048	7,328	6,142	5,566
	Percent	7.9%	8.3%	8.4%	8.0%	7.9%	7.9%	8.4%	8.0%	9.0%	8.3%	8.1%
DEC	Count	4,430	4,449	4,882	4,883	5,272	5,208	5,212	9,053	8,322	6,791	6,224
	Percent	8.9%	8.7%	9.0%	8.6%	9.2%	8.8%	8.7%	12.0%	10.2%	9.2%	9.0%
TOTAL	Count	49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700	81,482	73,861	69,005
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**TABLE 2A-3
DEATHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2023**

Day of death	Month of death												Total
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	184	237	222	202	192	179	166	177	185	177	193	222	2,336
2	215	214	195	178	197	169	186	188	163	181	188	190	2,264
3	203	202	194	211	190	166	195	186	167	219	168	190	2,291
4	230	213	193	187	168	206	169	187	190	175	191	223	2,332
5	217	197	201	209	176	178	167	170	173	177	197	202	2,264
6	207	209	188	227	208	178	183	156	158	193	175	192	2,274
7	224	171	203	207	169	181	187	166	166	167	181	208	2,230
8	211	197	208	193	169	197	173	179	187	174	174	201	2,263
9	197	203	191	190	186	174	189	190	172	181	205	188	2,266
10	221	198	206	188	198	170	184	163	179	188	186	174	2,255
11	197	188	189	214	188	166	160	199	174	178	176	192	2,221
12	195	191	187	221	198	182	195	193	194	174	193	194	2,317
13	227	193	175	214	203	175	183	176	151	179	187	223	2,286
14	213	177	197	212	201	153	178	175	185	188	184	191	2,254
15	210	208	167	201	173	186	180	172	167	183	192	171	2,210
16	209	176	190	183	201	174	232	166	160	181	191	214	2,277
17	191	187	200	219	180	181	204	189	181	184	190	202	2,308
18	204	256	188	209	165	183	215	190	209	178	188	211	2,396
19	210	207	207	175	176	171	207	180	166	183	179	199	2,260
20	221	201	208	181	192	166	188	154	188	179	183	201	2,262
21	199	214	219	196	199	159	210	182	163	190	184	207	2,322
22	178	188	178	200	174	179	178	164	174	178	201	208	2,200
23	212	199	208	203	163	184	199	181	195	176	183	228	2,331
24	212	192	168	213	170	168	229	196	142	170	155	211	2,226
25	181	207	173	203	171	180	196	174	159	178	186	199	2,207
26	192	202	213	173	178	191	221	183	179	176	171	218	2,297
27	203	199	187	177	174	175	168	188	149	203	195	167	2,185
28	204	190	176	186	170	180	197	188	182	171	199	165	2,208
29	202		194	182	196	178	212	192	191	182	202	197	2,128
30	202		212	162	174	204	179	173	167	175	169	229	2,046
31	199		195		164		169	180		175		207	1,289
Total	6,370	5,616	6,032	5,916	5,663	5,333	5,899	5,557	5,216	5,613	5,566	6,224	69,005

**TABLE 2A-4
AGE-SPECIFIC MORTALITY BY PLACE OF DEATH AND DECEDENT STATUS, ARIZONA, 2023**

Age													
<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Total		
In-patient	321	31	67	177	407	650	1,095	2,394	3,949	4,419	2,431	15,941	
Out-patient ^a	71	42	39	174	308	341	386	606	773	730	411	3,881	
Died on arrival	0	0	*	0	*	0	0	7	*	7	6	30†	
Status unknown	14	15	31	168	489	796	1,223	2,906	5,517	7,135	6,502	24,796	
Subtotal	406	88	140†	519	1,210†	1,787	2,704	5,913	10,240†	12,291	9,350	44,645	
Nursing home ^b	19	7	9	12	49	105	269	646	1,387	1,864	1,725	6,092	
Residence	0	0	0	*	13	31	108	482	1,559	3,754	5,971	11,920†	
Other ^c	*	*	21	319	618	670	593	781	858	1,099	1,381	6,350†	
Subtotal	20†	10†	30	330†	680	806	970	1,909	3,804	6,717	9,077	24,360	
TOTAL	430	97	168	853	1,885	2,593	3,674	7,822	14,048	19,008	18,427	69,005	

Notes: * Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; ^a Includes Emergency Room; ^b Includes other long-term care facilities; ^c 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 (version 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).

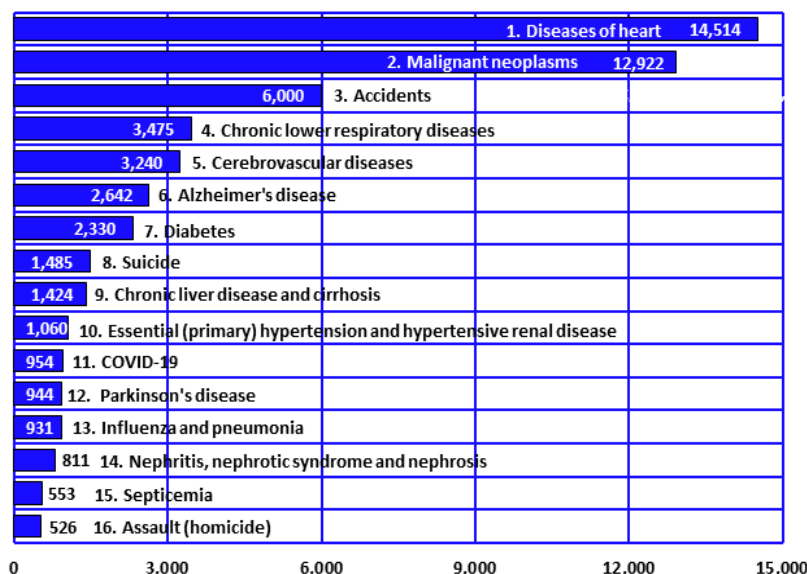
The death certificate now includes a new classification of the decedent’s racial/ethnic status, consistent with the revised federal standards for collecting and reporting racial and ethnic status. These standards were published in the Federal Register on October 30, 1997, as “Revisions to the Standards 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: <https://www.federalregister.gov/>.

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. To create frequency counts of race and ethnicity that were adequate to compute statistically reliable mortality rates, race was “bridged”, or essentially collapsed into 5 categories; White non-Hispanic, Hispanic or Latino, Black or African American, Native American or Alaska Native, and Asian or Pacific Islander. When an individual was identified as both Hispanic and any other race, that person was added to the racial/ethnic group with the lowest population. For example, a person identified as both White and Hispanic would be coded as Hispanic, where a person identified as American Indian and Hispanic would be coded as American Indian. Please refer to the technical appendix for further explanation of the racial bridging used in this report.

2B. LEADING CAUSES OF DEATH

Figure 2B-1A
Leading Causes of Death among Arizona Residents in 2023

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

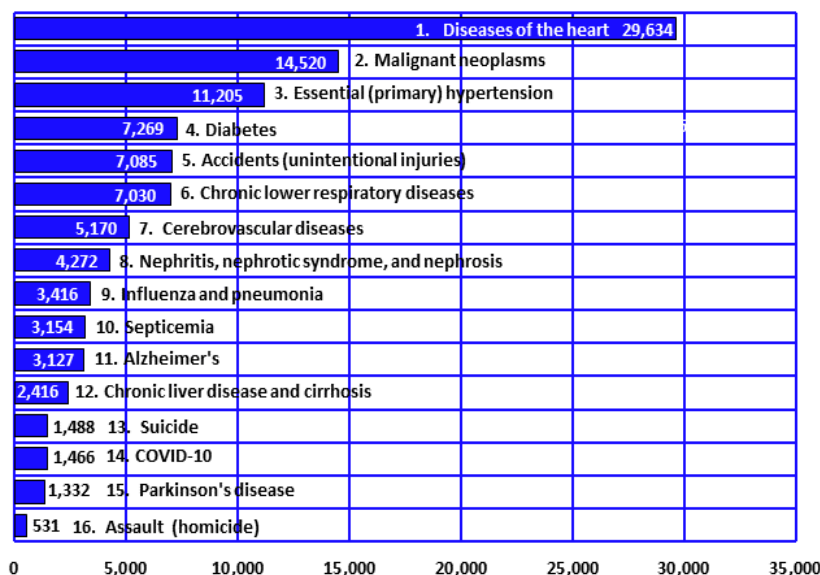


Based on the number of deaths (but not age-adjusted mortality rate), the leading underlying cause of death to Arizona residents in 2023 was *heart disease* (14,514 or 21.0 percent of all deaths), closely followed by *cancer*, which accounted for 12,922 or 18.7 percent of deaths (**Figure 2B-1A, Table 2B-1, Table 5E-14**).

The third leading cause of death, *accidents (unintentional injuries)* accounted for 6,000 or 8.7 percent of total deaths. Deaths due to *chronic lower respiratory diseases* ranked fourth in 2023, with 3,475 (5.0 percent) resident deaths reported. Deaths due to *cerebrovascular diseases* ranked fifth in 2023, with 3,240 (4.7 percent) resident deaths reported. Together, these five causes accounted for 58.2 percent of total deaths in 2023. The fifteen leading causes accounted for 77.2 percent of all deaths among Arizona residents.

Figure 2B-1B
Leading Causes of Death among Arizona Residents in 2023

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 14,514 deaths that had diseases of the heart assigned as the underlying cause, another 15,120 deaths had diseases of the heart assigned as a secondary cause of death. The sum of these two counts (29,634, **Figure 2B-1B**) is the total number of deaths that had any mention of diseases of the heart on the 2023 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 was counted.

2B. LEADING CAUSES OF DEATH

Five Leading Causes by Gender

Figure 2B-2
Age-adjusted Mortality Rates^a for the Five Leading Causes of Death for Both Genders by Race/Ethnicity, Arizona, 2023

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 2023, diseases of the heart were the leading cause of death for White non-Hispanics, and Blacks. Cancer ranked 1st leading cause of death for Hispanics and Asians. Unintentional injury ranked 1st as the leading cause for American Indians. (**Figure 2B-2, Table 2B-4**). Chronic lower respiratory diseases were the 4th leading cause of death for only White non-Hispanics.

Cerebrovascular diseases ranked as the 4th leading cause of death for Hispanics, Black or African Americans, and Asians and 5th for White non-Hispanics, while Diabetes came in as the 5th leading cause of death specific to Hispanics, Blacks, American Indians, and Asians, while chronic liver disease and cirrhosis was unique to American Indians as the 4th highest ranking. (**Table 2B-4**).

Rank	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
1	Diseases of heart 148.9	Cancer 120.2	Diseases of heart 195.9	Unintentional injury 203.3	Cancer 88.3
2	Cancer 129.6	Diseases of heart 117.7	Cancer 166.9	Diseases of heart 157.0	Diseases of heart 79.6
3	Unintentional injury 71.1	Unintentional injury 63.7	Unintentional injury 98.7	Cancer 125.2	Unintentional injury 27.8
4	Chronic lower respiratory diseases 38.5	Cerebro-vascular diseases 38.5	Cerebro-vascular diseases 51.4	Chronic liver disease and cirrhosis 91.8	Cerebro-vascular diseases 25.9
5	Cerebro-vascular diseases 30.6	Diabetes 33.2	Diabetes 43.2	Diabetes 83.7	Diabetes 22.5

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

Figure 2B-3
Age-adjusted Mortality Rates^a for the Five Leading Causes of Death by Race/Ethnicity among Females, Arizona, 2023

Based on age-adjusted mortality rates, cancer was the leading cause of death for Hispanic and Asian females. Diseases of the heart ranked 1st leading cause of death for White non-Hispanic, Black, and American Indian females. Unintentional injury ranked as the 2nd leading cause of death for American Indian females. Alzheimer's disease ranked as the 4th leading cause of death for Hispanic females and 5th for Black females. (**Figure 2B-3, Table 2B-4**).

Chronic lower respiratory diseases were the 4th leading cause of death specific to White non-Hispanic females. Chronic liver disease and cirrhosis also ranked 4th among the leading cause of death unique to American Indian women.

Cerebrovascular diseases ranked third among Hispanic and Asian females, 4th for Black or African American, while ranking fifth among White non-Hispanic women. Diabetes ranked 4th among Asian and 5th for American Indian females.

Rank	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
1	Diseases of heart 115.0	Cancer 107.1	Diseases of heart 158.9	Diseases of heart 118.2	Cancer 81.6
2	Cancer 114.3	Diseases of heart 89.5	Cancer 142.6	Unintentional injury 115.4	Diseases of heart 64.3
3	Unintentional injury 42.3	Cerebro-vascular diseases 37.2	Unintentional injury 52.4	Cancer 103.2	Cerebro-vascular diseases 25.6
4	Chronic lower respiratory diseases 39.8	Alzheimer's disease 33.6	Cerebro-vascular diseases 44.6	Chronic liver disease and cirrhosis 82.3	Diabetes 22.7
5	Cerebro-vascular diseases 31.0	Unintentional injury 31.7	Alzheimer's disease 40.0	Diabetes 66.9	Unintentional injury 15.4

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

2B. LEADING CAUSES OF DEATH

Five Leading Causes by Gender

Figure 2B-4
Age-adjusted Mortality Rates^a for the Five Leading Causes of Death
by Race/Ethnicity among Males, Arizona, 2023

Rank	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
1	Diseases of heart 186.7	Diseases of heart 152.2	Diseases of heart 237.7	Unintentional injury 299.8	Diseases of heart 102.2
2	Cancer 147.7	Cancer 138.2	Cancer 199.1	Diseases of heart 209.0	Cancer 96.7
3	Unintentional injury 99.9	Unintentional injury 96.5	Unintentional injury 143.3	Cancer 158.3	Unintentional injury 43.2
4	Chronic lower respiratory diseases 36.9	Cerebrovascular diseases 39.8	Cerebrovascular diseases 60.5	Diabetes 103.6	Cerebrovascular diseases 25.9
5	Intentional Self-harm Suicide 35.1	Diabetes 39.3	Diabetes 55.3	Chronic liver disease and cirrhosis 102.4	Diabetes 21.6

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

Based on age-adjusted mortality rates for Arizona males, diseases of the heart ranked first as the leading cause of death for all racial/ethnic groups except for American Indians who ranked second. Cancer was the second leading cause for White non-Hispanic, Hispanic, Black or African American, and Asian males, and third for American Indian males. (**Figure 2B-4; Table 2B-4**).

Unintentional injury ranked as first leading cause of death for American Indian males.

In 2023, based on the age-adjusted mortality rates, chronic lower respiratory diseases were the 4th leading cause of death specific to White non-Hispanic males, while cerebrovascular diseases also ranked fourth among Hispanic, Black or African American, and Asian males. Suicide specific to White non-Hispanic males and chronic liver disease and cirrhosis unique among American Indian males, ranked 5th. Diabetes ranked 4th leading cause of death among American Indian males and 5th to Hispanic, Black and Asian males.

Figure 2B-5
Age-adjusted Mortality Rates^a for the Five Leading Causes of Death
by Gender in Urban^b and Rural Areas, Arizona, 2023

Rank	Urban male	Urban female	Rural male	Rural female
1	Diseases of heart 178.1	Diseases of heart 111.0	Diseases of heart 206.7	Cancer 124.8
2	Cancer 142.4	Cancer 110.4	Cancer 165.4	Diseases of heart 117.6
3	Unintentional injury 100.8	Unintentional injury 40.6	Unintentional injury 137.4	Unintentional injury 53.0
4	Cerebrovascular diseases 31.9	Cerebrovascular diseases 32.6	Intentional Self-harm (suicide) 52.5	Chronic lower respiratory diseases 47.8
5	Diabetes 30.8	Chronic lower respiratory diseases 31.2	Chronic lower respiratory diseases 47.8	Cerebrovascular diseases 30.0

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

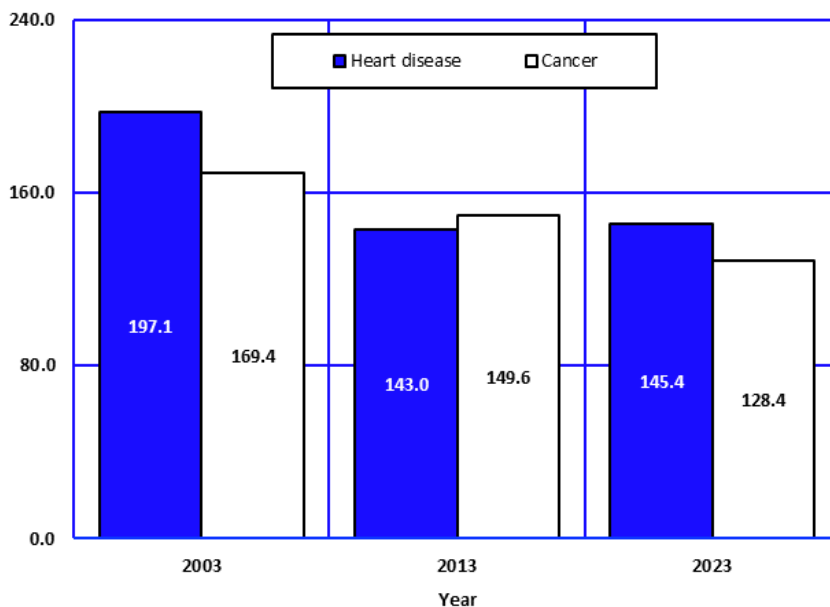
In 2023, diseases of the heart exceeded cancer as the leading causes of death among urban and rural males, and urban females, but came in 2nd for rural females. Cancer ranked first among rural females. Unintentional injury placed third among the leading causes for males and females regardless of area of residence. Cerebrovascular diseases ranked as the 4th leading cause among urban males and females while coming in 5th for rural females.

Chronic lower respiratory diseases ranked fourth among rural females and placed fifth among urban females and rural males. Intentional self-harm (suicide) ranked 4th and was specific to rural males, while diabetes specific to urban males ranked 5th leading cause of death (**Figure 2B-5, Table 2B-5**).

2B. LEADING CAUSES OF DEATH

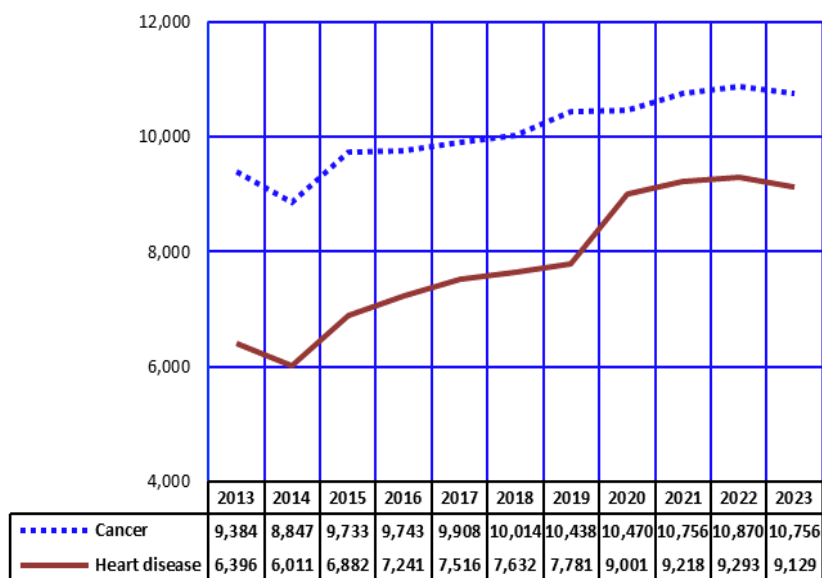
Diseases of heart and malignant neoplasm (cancer)

Figure 2B-6
Comparison of Age-adjusted Mortality Rates^a for Heart Disease and Cancer (Malignant Neoplasm), Arizona, 2003, 2013, and 2023



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

Figure 2B-7
Number of Deaths from Heart Disease and Cancer among Arizonans 0-84 Years, 2013-2023



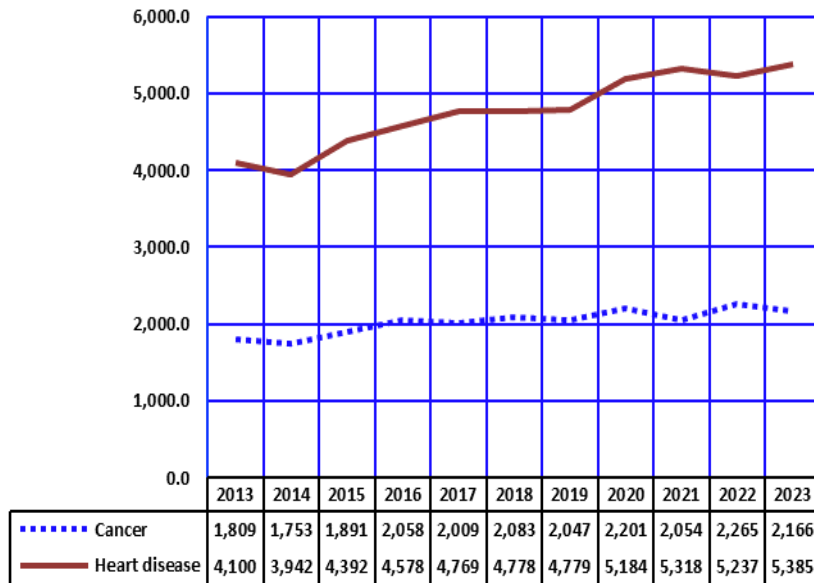
The age-adjusted mortality rate for diseases of the heart decreased by 26.2 percent from 197.1 deaths per 100,000 population in 2003 to 145.4/100,000 in 2023 (**Figure 2B-6**). The age-adjusted mortality rate for cancer declined less, by 24.2 percent, from 2003-2023. In Arizona, the relative risk of death from heart disease versus cancer declined from 16.4 percent greater in 2003 to 13.2 percent in 2023.

In 2013, 696 less Arizonans died from diseases of the heart than cancer (**Table 2B-1**). In 2023, the number of deaths due to diseases of the heart exceeded cancer by 1,592 cases (**Table 2B-4**).

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 this age group. In 2023, 1,627 more Arizonans 0-84 years old died from cancer (10,756) than heart disease (9,129).

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

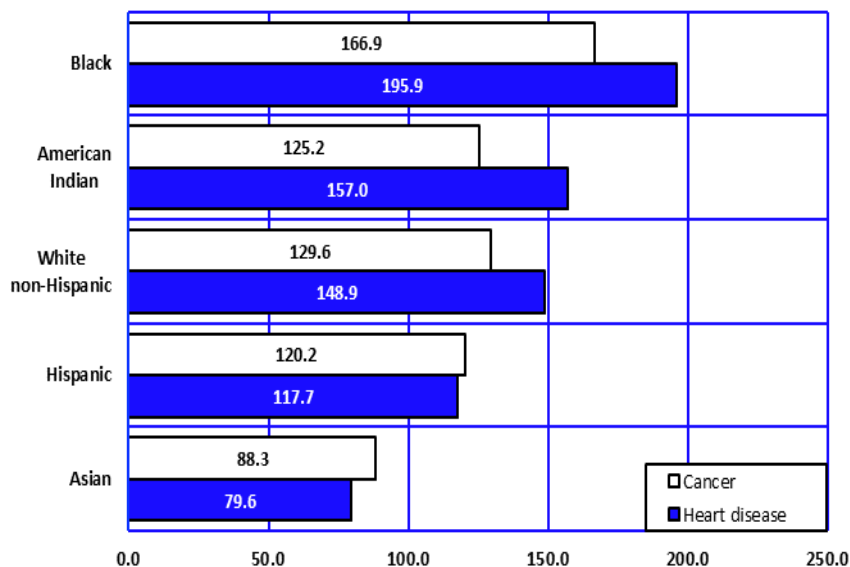
Figure 2B-8
Deaths from Heart Disease and Cancer among Arizonans 85+, 2013-2023



Among Arizonans age 85 and over, heart disease is the number one leading cause of death by a wide margin. In 2023, adults aged 85 and over accounted for 16.8 percent of all deaths from cancer but 37.1 percent of all deaths from heart disease. In 2023, the median age at death for heart disease was 80 years (**Table 2D-3**); and a minority of deaths (43.7 percent, **Table 2D-4**) were premature, i.e., before reaching the expected years of life at birth for all U.S. residents (78.4 years).

However, from 2013 to 2023, the number of deaths from cancer increased by 19.7 percent among Arizonans 85 years or older, less than the increase observed in diseases of the heart (31.3 percent increase).

Figure 2B-9
Age-adjusted Mortality Rates^a for Heart Disease and Cancer by Race/Ethnicity, Arizona, 2023



In Arizona, Black or African Americans were 2.5 times more likely to die from diseases of the heart and 1.9 times more likely to die from malignant neoplasms in 2023 than Asians, the group with the lowest risk of each respective cause of death (**Figure 2B-9, Table 2B-4**). Compared to Asians, White non-Hispanic Arizonans were 1.9 times more likely to die of heart disease and 1.5 times more likely to die of cancer.

In 2023, the age-adjusted relative risk of death from heart disease exceeded cancer mortality risk (**Table 2B-3**) for most racial/ethnic groups except Hispanic and Asian.

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

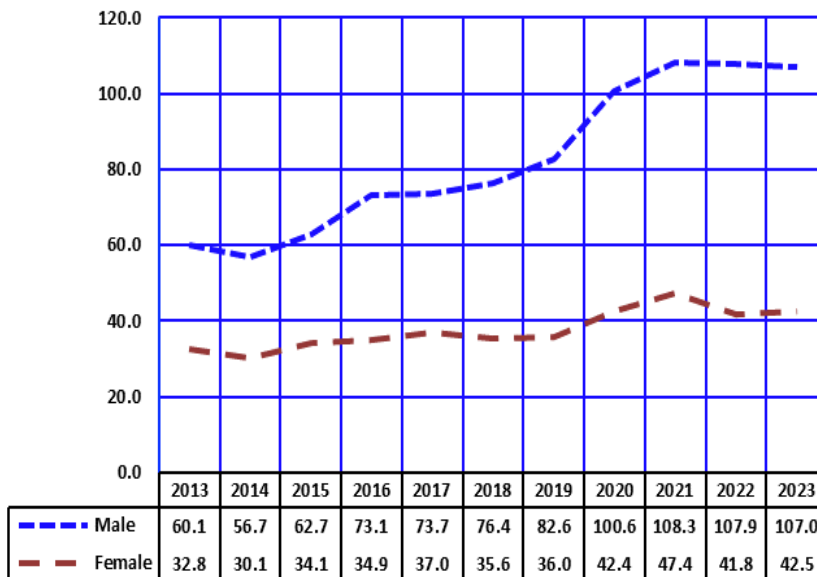
2B. LEADING CAUSES OF DEATH

Accidents (unintentional injury)

Figure 2B-10
Age-adjusted Mortality Rates^a for Accidents (Unintentional Injuries) by Gender and Year, Arizona, 2013-2023

The number of deaths from unintentional injuries increased by 2.2 percent from 5,868 in 2022 to 6,000 in 2023 (**Table 2B-1**). In 2023, based on age-adjusted mortality rates, accidents ranked third as a leading cause of death for males and fourth for females (**Table 2B-4**). From 2022 to 2023, the age-adjusted mortality rate for accidents decreased (0.8 percent) for males but increased (1.7 percent) for females **Figure 2B-10**.

In 2023, 1,299 deaths were caused by motor vehicle accidents, a decrease of 3.3 percent from 2022. Heat induced mortality has seen an increase of 44.9 percent between 2022 and 2023. Deaths due to accidental drowning and submersion decreased by 4.8 percent from 2022 (n=126) to 2023 (n=120). Additionally, Arizonans experienced a 0.8 percent decrease in the number of accidental poisonings due to drugs and/or medications from 2,388 fatalities in 2022 to 2,370 in 2023 (**Table 2B-9**).

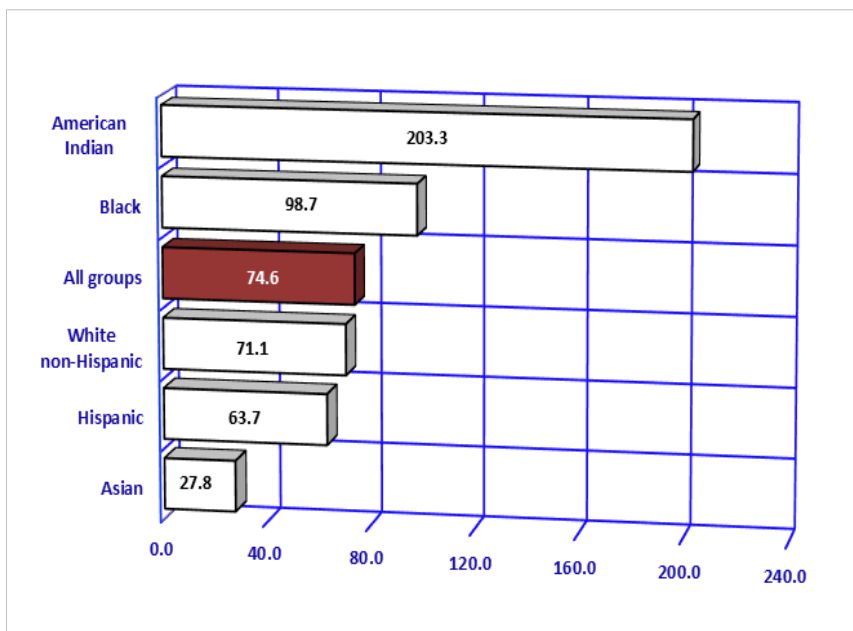


Note: ^a Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Figure 2B-11
Age-adjusted Mortality Rates^a for Accidents (Unintentional Injuries) by Race/Ethnicity, Arizona, 2023

The American Indian death rate for unintentional injuries (203.3/100,000) was 7.3 times greater than the rate for Asians (27.8/100,000), the group with the lowest risk of unintentional injury death among racial/ethnic groups in the state (**Figure 2B-11**, **Table 2B-4**).

In 2023, Apache (233.8/100,000) and Navajo (155.7/100,000) counties had the two highest age-adjusted mortality rates for unintentional injuries (**Table 5E-11**).

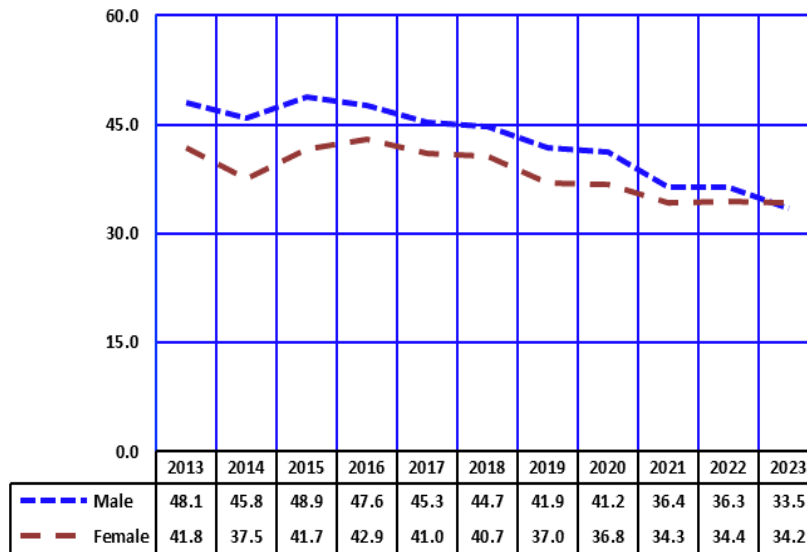


Note: ^a Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH

Chronic lower respiratory diseases

Figure 2B-12
Age-adjusted Mortality Rates^a for Chronic Lower Respiratory Diseases^b by Gender and Year, Arizona, 2013-2023

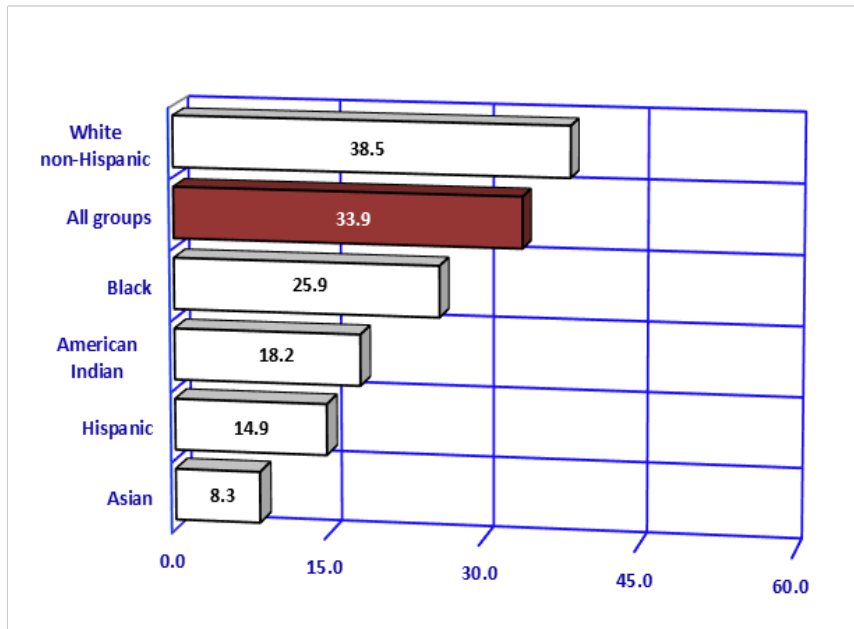


In 2023, chronic lower respiratory diseases (bronchitis, emphysema, asthma) was the 4th leading cause of death among Arizona residents (**Table 2B-1**). The mortality rate for chronic lower respiratory diseases decreased for both males (7.7 percent) and females (0.6 percent) between 2023 and 2022 (**Figure 2B-12, Table 2B-2**).

Among genders and regional groups, rural males and females experienced the highest mortality due to chronic lower respiratory diseases with rates of 47.8/100,000 respectively) (**Table 2B-5**).

Notes: ^a Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard; ^b This ICD-10 title corresponds to Chronic Obstructive Pulmonary Disease (ICD-9 title).

Figure 2B-13
Age-adjusted Mortality Rates^a for Chronic Lower Respiratory Diseases by Race/Ethnicity, Arizona, 2023



Mortality rates for emphysema, chronic bronchitis, asthma, and other lower respiratory disorders were highest among White non-Hispanics (38.5 deaths per 100,000) when compared to any other racial/ethnic groups in 2023. Asians recorded the lowest rate at 8.3 deaths per 100,000 population (**Figure 2B-13, Table 2B-4**).

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

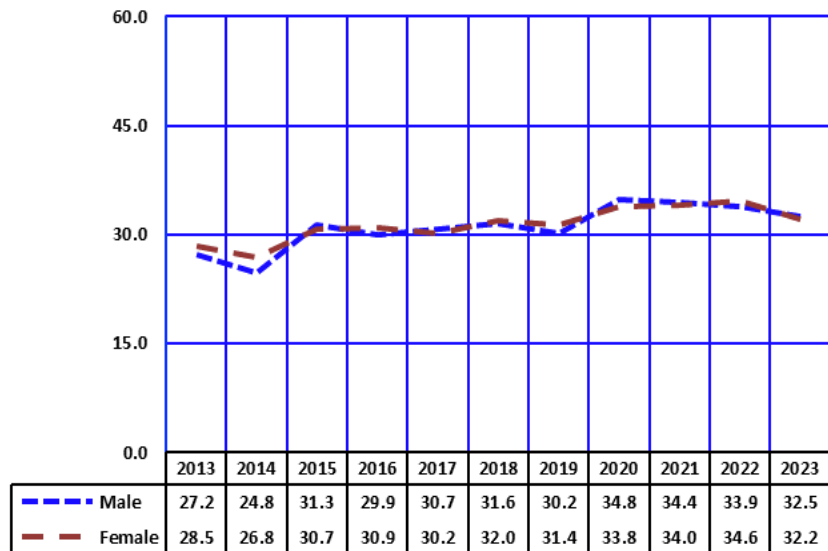
2B. LEADING CAUSES OF DEATH

Cerebrovascular diseases

Figure 2B-14
Age-adjusted Mortality Rates^a for Cerebrovascular Disease by Gender and Year, Arizona, 2013-2023

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 cerebrovascular diseases decreased by 5.8 percent from 34.5/100,000 in 2022 to 32.5 deaths per 100,000 population in 2023 (**Table 2B-2**).

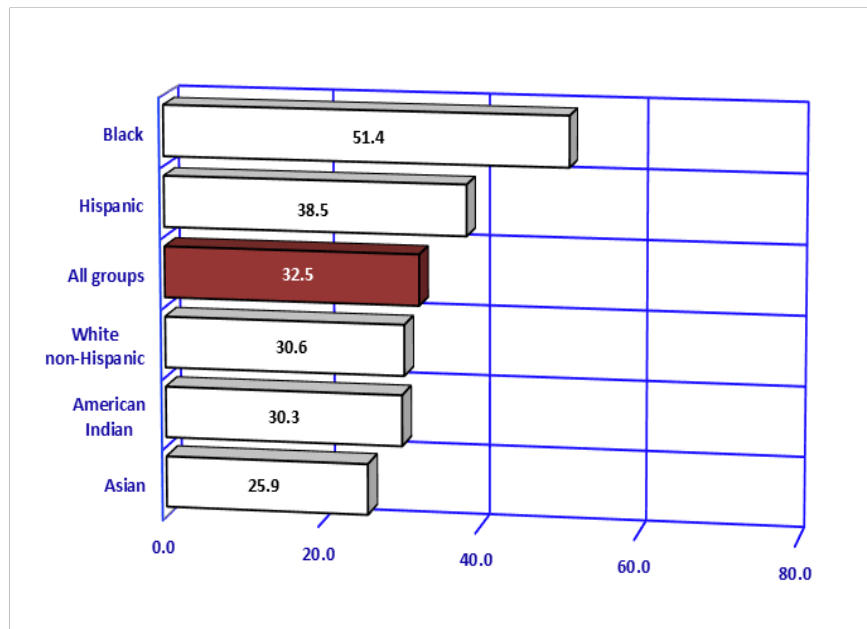
With some exceptions, the risk of dying from cerebrovascular diseases was slightly higher among females than males for the period 2013-2023 (6 of the last 11 years), but the rates were very similar. (**Figure 2B-14**, **Table 2B-2**).



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

Figure 2B-15
Age-adjusted Mortality Rates^a for Cerebrovascular Disease by Race/Ethnicity, Arizona, 2023

Compared to Arizona's overall rate, Black or African Americans were 1.6 times more likely to die from cerebrovascular disease in 2023 (**Figure 2B-15**, **Table 2B-4**). The 2023 mortality rate for cerebrovascular disease among Asians (25.9/100,000) was the lowest among racial/ethnic groups.

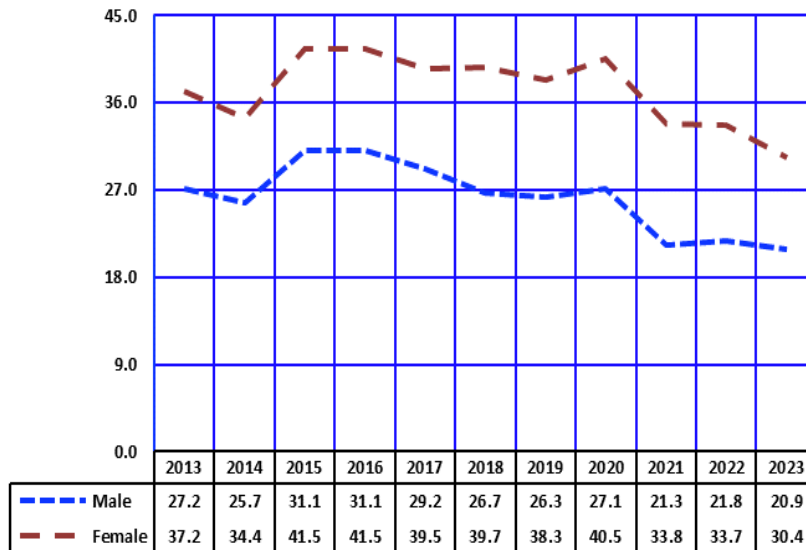


Note: ^a Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH

Alzheimer's disease

Figure 2B-16
Age-adjusted Mortality Rates^a for Alzheimer's Disease by Gender and Year, Arizona, 2013-2023

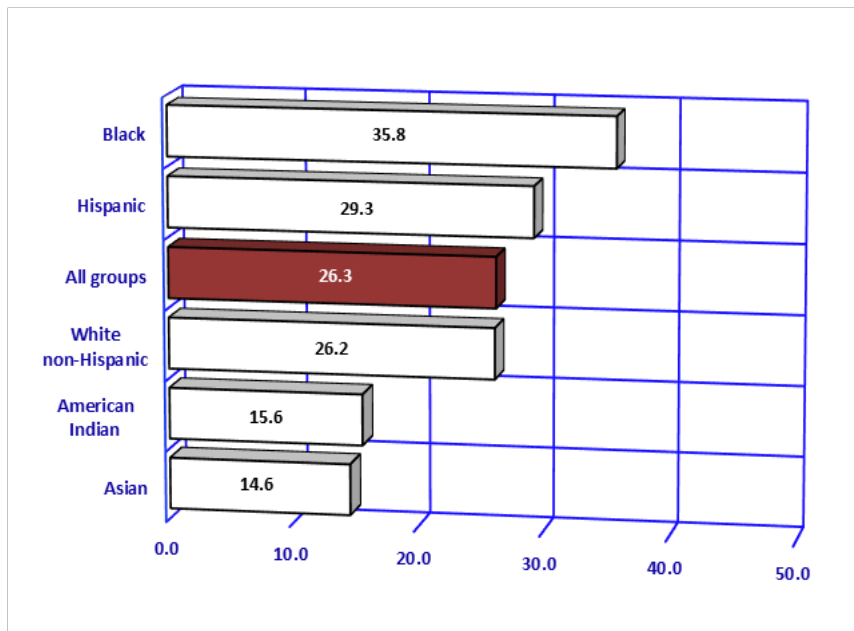


Based on the number of deaths in 2023, Alzheimer's disease was the 6th leading cause of death for females and 8th leading cause for males (**Table 2B-4**)

From 2022 to 2023, the age-adjusted mortality rate for Alzheimer's disease decreased slightly for males (4.1 percent) and decreased for females (9.8 percent) (**Figure 2B-16**).

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

Figure 2B-17
Age-adjusted Mortality Rates^a for Alzheimer's Disease by Race/Ethnicity, Arizona, 2023



The age-adjusted mortality rates for Alzheimer's disease in 2023 were higher among Black or African Americans (35.8/100,000) and Hispanic or Latinos (29.3/100,000) than the other racial/ethnic groups. Rates lower than the state average (26.3/100,000) were recorded among White non-Hispanics (26.2/100,000), American Indians (15.6/100,000), and Asians (14.6/100,000) (**Figure 2B-17, Table 2B-4**).

White non-Hispanic residents of Arizona disproportionately contributed to mortality from Alzheimer's disease. In 2023, White non-Hispanics accounted for 55.0 percent (**Table 10C-1**) of the state's population, but 81.5 percent of all deaths from Alzheimer's disease (2,154 out of 2,642; **Table 2B-4**).

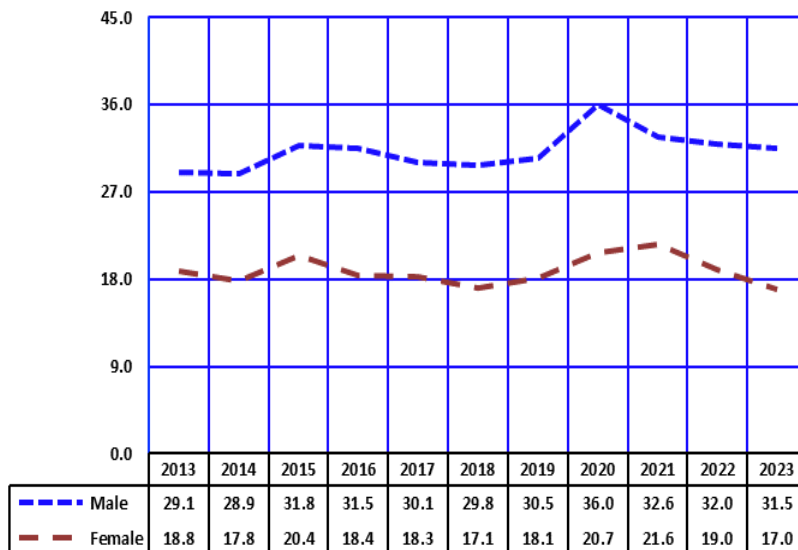
In 2023, the overall median age at death from Alzheimer's disease was 85.5, specifically 84 years for males and 87 years for females (**Table 2D-3**).

Note: ^a 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^a for Diabetes by Gender and Year, Arizona, 2013-2023



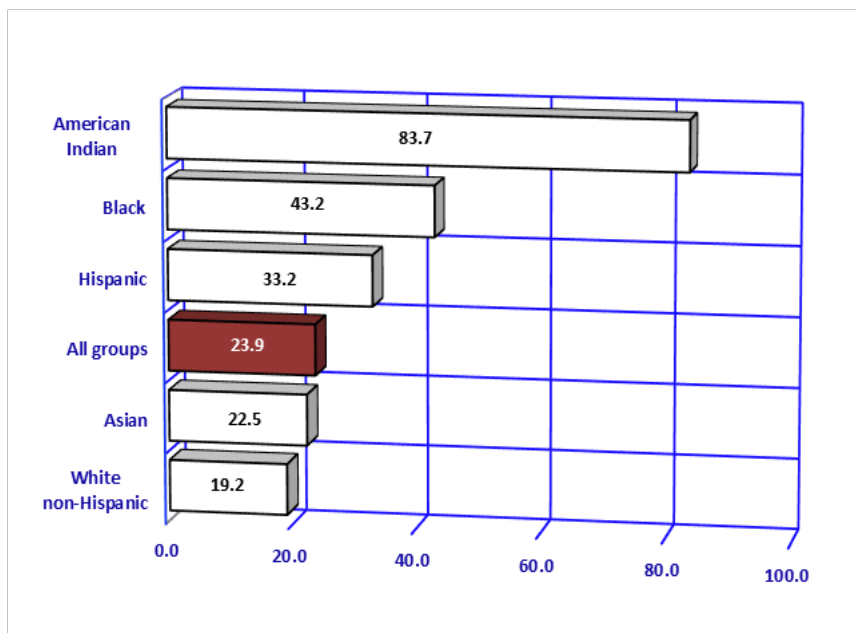
From 2013-2023, mortality rates for diabetes increased for males (8.2 percent) and decreased for females (9.6 percent; **Figure 2B-18**).

In addition to 2,330 deaths that had diabetes assigned as the underlying cause in 2023, another 4,939 deaths had diabetes assigned as a contributing factor. The diabetes-related death rate of 73.3/100,000 (**Table 6A-6**) was 3.1 times greater than the rate for diabetes as an underlying cause (23.9/100,000; **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.

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

Figure 2B-19
Age-adjusted Mortality Rates^a for Diabetes by Race/Ethnicity, Arizona, 2023



In 2023, compared to Arizona's rate, American Indians were 3.5 times more likely to die from diabetes (83.7 deaths per 100,000; **Figure 2B-19**, **Table 2B-4**). The rate of 19.2 deaths per 100,000 among White non-Hispanics was the lowest rate among all racial/ethnic groups in the state.

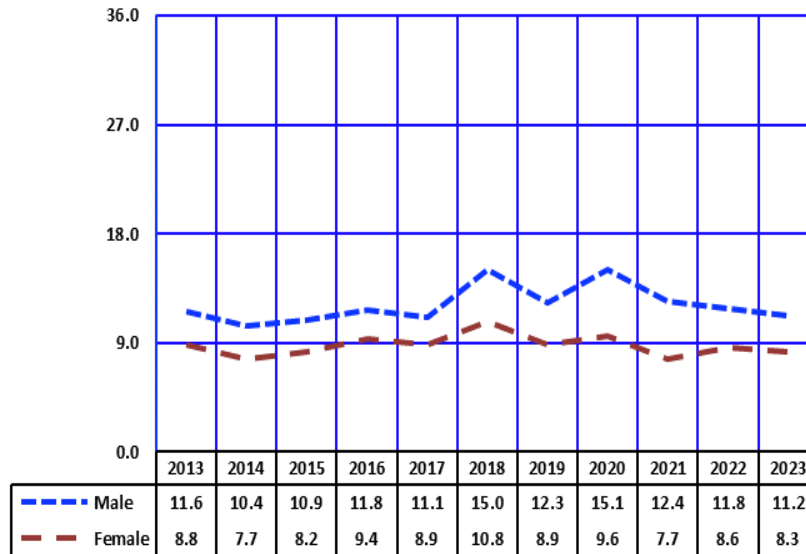
Among the 15 Arizona counties, Apache (48.8/100,000) and Gila (40.3/100,000) counties had the highest mortality rates for diabetes recorded in 2023 (**Table 5E-11**).

Note: ^a 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^a for Influenza and Pneumonia by Gender and Year, Arizona, 2013-2023



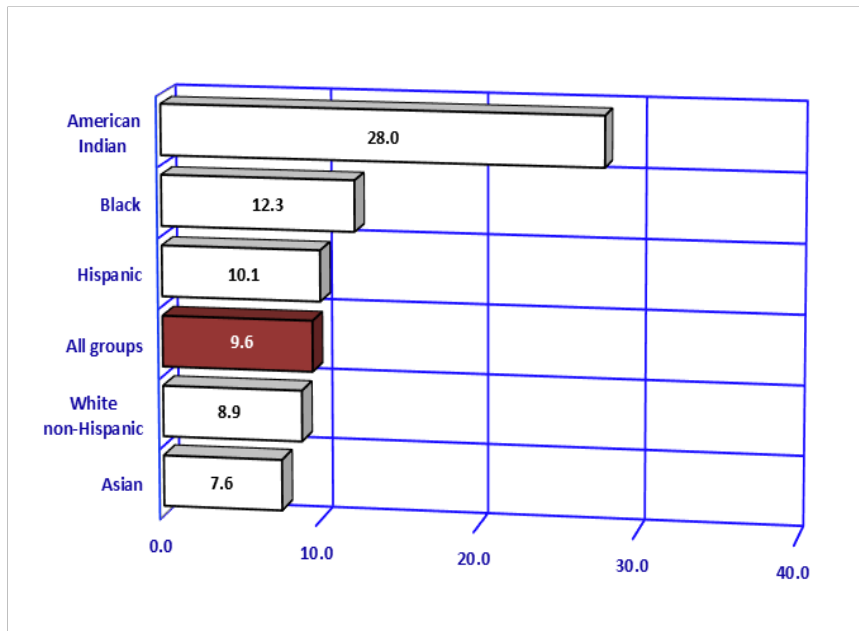
The number of deaths from influenza and pneumonia increased by 28.6 percent from 724 in 2013 to 931 in 2023. (**Table 2B-1**). Among the 931 deaths, influenza was identified as the underlying cause for 71 of them, while pneumonia was listed as the underlying cause on 860 death certificates (**Table 2B-6**).

The mortality rate for influenza and pneumonia decreased for females from 8.6 deaths per 100,000 in 2022 to 8.3 deaths in 2023 (**Figure 2B-20, Table 2B-2**). For males, they decreased from 11.8 per 100,000 in 2022 to 11.2 deaths in 2023.

In 2023, the age-adjusted mortality rate for Arizona males was 34.9 percent greater than that of Arizona females.

Note: ^a Number of deaths per 100,000 population age-adjusted 2000 U.S. standard.

Figure 2B-21
Age-adjusted Mortality Rates^a for Influenza and Pneumonia by Race/Ethnicity, Arizona, 2023



In 2023, American Indian residents of Arizona had the highest mortality rate for influenza and pneumonia (28.0 deaths per 100,000) among the racial/ethnic groups. Mortality due to influenza and pneumonia for White non-Hispanics (8.9/100,000) and Asians (7.6/100,000) were lower than the state rate. (**Figure 2B-21, Table 2B-4**).

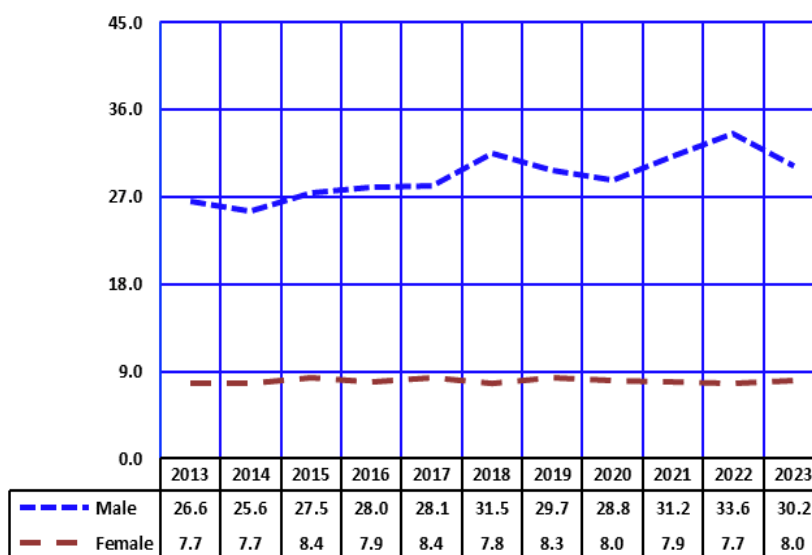
County comparisons show that in 2023 influenza and pneumonia mortality rates were highest in Apache (27.0/100,000), Navajo (20.5/100,000), and Gila (18.7/100,000) counties compared to the remaining counties (**Table 5E-11**).

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

2B. LEADING CAUSES OF DEATH

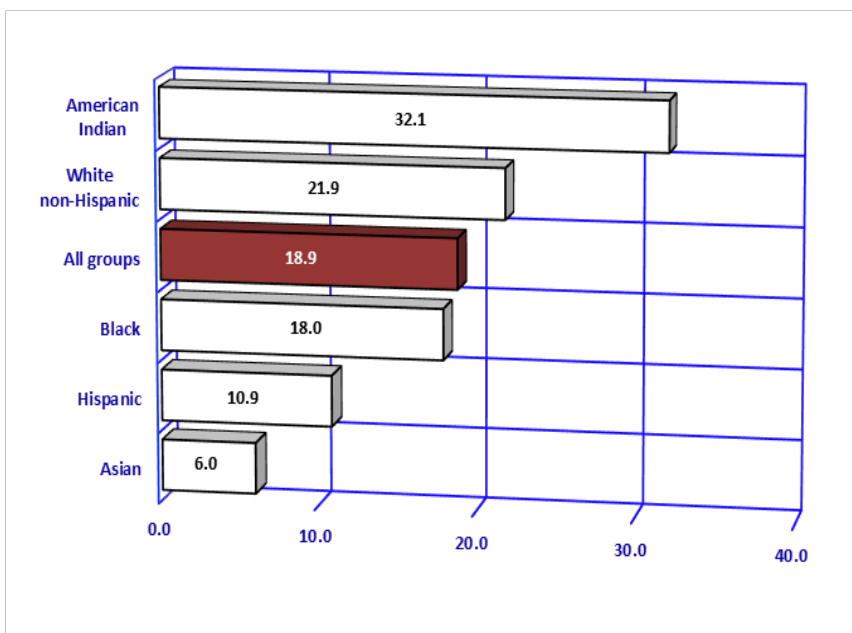
Suicide

Figure 2B-22
Age-adjusted Mortality Rates^a for Suicide by Gender and Year, Arizona, 2013-2023



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

Figure 2B-23
Age-adjusted Mortality Rates^a for Suicide by Race/Ethnicity, Arizona, 2023



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

In 2023, based on age-adjusted mortality rates, suicide was the 7th leading cause of death among males. It ranked as the 14th cause of mortality for females. The overall age-adjusted suicide rate decreased from 20.5 suicides per 100,000 in 2022 to 18.9 in 2023 (**Table 2B-3**).

From 2022 to 2023, suicide mortality decreased by 10.1 percent among males and increased 3.9 percent among females (**Figure 2B-22, Table 2B-4**). In 2023, suicide posed a 3.8 times greater mortality risk for males (30.2/100,000) than for females (8.0/100,000).

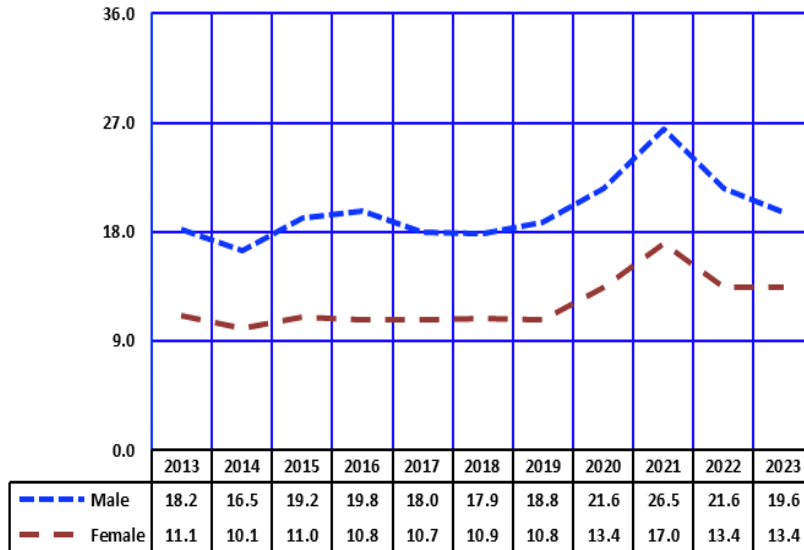
In 2023, American Indians had the highest age-adjusted suicide rate (32.1 suicides per 100,000) among racial/ethnic groups, followed by White non-Hispanics (21.9/100,000), while Asians recorded the lowest age-adjusted suicide rate (6.0/100,000; **Figure 2B-23, Table 2B-4**).

The 2023 age-adjusted mortality rates for suicide varied across the state, from a low rate of 11.3 suicides per 100,000 residents in Greenlee County to a high of 47.6 suicides per 100,000 residents in Navajo County (**Table 5E-11**).

2B. LEADING CAUSES OF DEATH

Chronic liver disease and cirrhosis

Figure 2B-24
Age-adjusted Mortality Rates^a for Chronic Liver Disease and Cirrhosis
by Gender and Year, Arizona, 2013-2023



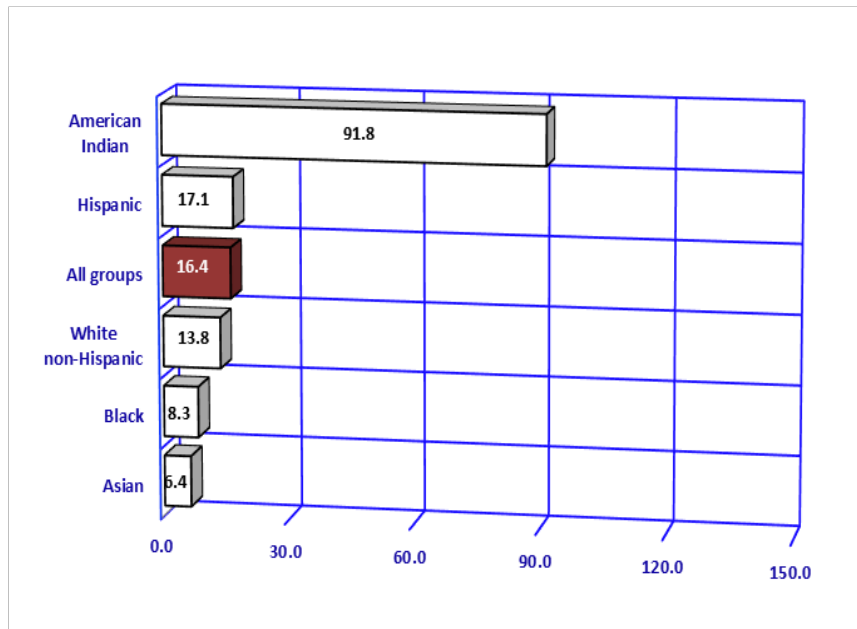
Note: ^a Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Chronic liver disease and cirrhosis was the 9th leading cause of death in Arizona in 2023 (**Figure 2B-1, Table 2B-1**). Among the 1,424 deaths due to chronic liver disease and cirrhosis, 832 (58.4 percent) were males (**Table 2B-4**).

Among females, the age-adjusted mortality rate for chronic liver disease and cirrhosis remained the same from 2022 to 2023 (13.4 percent). Among males, the mortality rate decreased (9.3 percent) from 21.6/100,000 in 2022 to 19.6/100,000 in 2023 (**Figure 2B-24, Table 2B-3**).

In 2023, Apache, Navajo, La Paz, and Gila counties had the highest mortality rates for chronic liver disease and cirrhosis (**Table 5E-11**).

Figure 2B-25
Age-adjusted Mortality Rates^a for Chronic Liver Disease and Cirrhosis
by Race/Ethnicity, Arizona, 2023



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

In 2023, chronic liver disease and cirrhosis mortality rate was exceedingly high among American Indians (91.8 deaths per 100,000 population) compared to other racial/ethnic groups in the state (**Figure 2B-25, Table 2B-4**). The death rate for chronic liver disease and cirrhosis among Asians, Blacks, and White non-Hispanics, were all below the state average (16.4 deaths per 100,000 population).

Compared to the median age at death from all causes (76 years), those who died from chronic liver disease and cirrhosis were on average 15 years younger (61 years, **Table 2D-3**). In 2023, the median age at death of American Indians who died from chronic liver disease and cirrhosis was 49 years, which was at least 12 years younger than all the other race/ethnic groups (**Table 2D-3**).

**TABLE 2B-1
NUMBER OF DEATHS FOR THE LEADING CAUSES OF MORTALITY BY YEAR, ARIZONA, 2013-2023**

Rank in 2013	Rank in 2023	Cause of death	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
2	1	Diseases of heart	10,497	9,953	11,274	11,820	12,285	12,410	12,560	14,185	14,536	14,530	14,514
1	2	Malignant neoplasms	11,193	10,600	11,624	11,801	11,917	12,097	12,485	12,671	12,810	13,135	12,922
4	3	Accidents (unintentional injury)	3,137	3,011	3,403	3,899	4,085	4,211	4,522	5,377	5,945	5,868	6,000
3	4	Chronic lower respiratory diseases	3,295	3,185	3,648	3,788	3,779	3,820	3,678	3,698	3,518	3,571	3,475
6	5	Cerebrovascular diseases	2,047	1,995	2,463	2,536	2,647	2,829	2,848	3,225	3,319	3,377	3,240
5	6	Alzheimer's disease	2,384	2,345	2,942	3,081	3,050	3,011	3,045	3,235	2,754	2,818	2,642
7	7	Diabetes	1,744	1,776	2,050	2,013	2,037	2,041	2,170	2,563	2,557	2,418	2,330
8	8	Intentional self-harm (suicide)	1,116	1,124	1,233	1,256	1,304	1,432	1,411	1,359	1,470	1,594	1,485
9	9	Chronic liver disease and cirrhosis	1,040	984	1,120	1,169	1,122	1,159	1,211	1,426	1,772	1,484	1,424
11	10	Essential primary hypertension and hypertensive renal disease	711	758	896	1,010	1,018	928	1,009	1,131	1,200	1,105	1,060
-	11	COVID-19	-	-	-	-	-	-	-	8,430	12,693	4,599	954
12	12	Parkinson's disease	578	569	719	712	749	790	806	1,016	892	1,005	944
10	13	Influenza and pneumonia	724	669	739	859	852	1,113	947	1,109	933	959	931
13	14	Nephritis, nephrotic syndrome and nephrosis	391	353	498	485	535	680	759	772	871	832	811
15	15	Septicemia	354	336	436	505	461	382	339	425	511	518	553
14	16	Assault (homicide)	383	294	364	416	430	416	409	526	561	625	526
ALL CAUSES			49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700	81,482	73,861	69,005

Notes: The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2013-2023 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.

**TABLE 2B-2
AGE-ADJUSTED MORTALITY RATES^a BY GENDER AND YEAR FOR SELECTED LEADING CAUSES OF DEATH,
ARIZONA, 2013-2023**

		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
TOTAL, ALL CAUSES												
	Total	687.8	676.0	691.3	696.6	679.3	688.6	676.6	842.2	882.6	784.3	720.5
	Male	805.8	791.2	811.5	824.8	800.0	813.4	799.6	1002.1	1057.1	933.2	852.7
	Female	583.8	572.8	583.3	581.1	568.7	573.5	562.9	694.1	721.2	645.3	597.3
CARDIOVASCULAR DISEASE												
	Total	187.7	171.6	189.0	190.8	189.9	188.4	184.9	205.3	203.4	199.7	194.5
	Male	229.0	206.9	226.7	230.7	228.6	225.2	221.2	246.9	244.8	240.4	234.7
	Female	152.4	140.7	156.1	155.9	155.5	155.6	152.4	167.8	166.2	163.0	158.8
-----DISEASES OF HEART												
	Total	143.0	129.9	141.3	142.5	141.9	140.5	137.3	152.9	151.2	148.2	145.4
	Male	183.6	164.1	177.1	180.5	179.4	176.3	172.5	192.2	191.3	187.0	183.6
	Female	109.2	100.5	110.5	109.8	109.3	109.1	106.3	118.1	115.7	113.7	111.9
-----CEREBROVASCULAR DISEASE												
	Total	28.2	26.2	31.1	30.7	30.7	32.1	31.0	34.6	34.4	34.5	32.5
	Male	27.2	24.8	31.3	29.9	30.7	31.6	30.2	34.8	34.4	33.9	32.5
	Female	28.5	26.8	30.7	30.9	30.2	32.0	31.4	33.8	34.0	34.6	32.2
MALIGNANT NEOPLASMS												
	Total	149.6	136.3	144.0	140.7	136.6	135.9	134.7	134.7	131.8	133.1	128.4
	Male	175.0	160.8	169.0	166.3	160.0	161.8	156.7	156.1	150.3	151.9	147.0
	Female	129.9	116.8	123.8	120.0	116.6	114.7	116.4	117.2	116.7	117.5	113.0
CHRONIC LOWER RESPIRATORY DISEASE												
	Total	44.5	41.1	45.1	45.0	43.0	42.6	39.2	38.8	35.3	35.3	33.9
	Male	48.1	45.8	48.9	47.6	45.3	44.7	41.9	41.2	36.4	36.3	33.5
	Female	41.8	37.5	41.7	42.9	41.0	40.7	37.0	36.8	34.3	34.4	34.2
ACCIDENTS (UNINTENTIONAL INJURIES)												
	Total	46.3	43.3	48.1	53.7	55.3	55.9	59.2	71.5	77.8	74.8	74.6
	Male	60.1	56.7	62.7	73.1	73.7	76.4	82.6	100.6	108.3	107.9	107.0
	Female	32.8	30.1	34.1	34.9	37.0	35.6	36.0	42.4	47.4	41.8	42.5
-----MOTOR VEHICLE ACCIDENTS												
	Total	11.4	10.3	12.6	13.9	13.8	14.1	13.1	14.0	18.4	17.5	16.7
	Male	16.3	14.5	18.0	20.1	19.5	20.0	18.9	20.2	25.7	25.4	24.7
	Female	6.6	6.0	7.2	7.8	8.2	8.3	7.5	7.8	11.2	9.6	8.8
INFLUENZA AND PNEUMONIA												
	Total	10.0	8.9	9.4	10.4	9.9	12.7	10.4	12.2	9.9	10.0	9.6
	Male	11.6	10.4	10.9	11.8	11.1	15.0	12.3	15.1	12.4	11.8	11.2
	Female	8.8	7.7	8.2	9.4	8.9	10.8	8.9	9.6	7.7	8.6	8.3

TABLE 2B-2 (continued)
AGE-ADJUSTED MORTALITY RATES^a BY GENDER AND YEAR FOR SELECTED LEADING CAUSES OF DEATH,
ARIZONA, 2013-2023

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
COVID-19											
Total	-	-	-	-	-	-	-	92.1	136.9	47.5	9.5
Male	-	-	-	-	-	-	-	118.3	174.0	60.2	11.7
Female	-	-	-	-	-	-	-	69.2	103.7	36.8	7.8
ALZHEIMER'S DISEASE											
Total	33.2	30.9	37.3	37.3	35.2	34.3	33.2	34.7	28.3	28.5	26.3
Male	27.2	25.7	31.1	31.1	29.2	26.7	26.3	27.1	21.3	21.8	20.9
Female	37.2	34.4	41.5	41.5	39.5	39.7	38.3	40.5	33.8	33.7	30.4
DIABETES											
Total	23.6	23.0	25.7	24.5	23.8	23.0	23.9	27.9	26.8	25.1	23.9
Male	29.1	28.9	31.8	31.5	30.1	29.8	30.5	36.0	32.6	32.0	31.5
Female	18.8	17.8	20.4	18.4	18.3	17.1	18.1	20.7	21.6	19.0	17.0
CHRONIC LIVER DISEASE AND CIRRHOSIS											
Total	14.5	13.2	14.9	15.1	14.2	14.2	14.7	17.4	21.6	17.4	16.4
Male	18.2	16.5	19.2	19.8	18.0	17.9	18.8	21.6	26.5	21.6	19.6
Female	11.1	10.1	11.0	10.8	10.7	10.9	10.8	13.4	17.0	13.4	13.4
NEPHRITIS, NEPHROTIC SYNDROME, AND NEPHROSIS											
Total	5.3	4.6	6.3	5.8	6.2	7.7	8.3	8.4	9.1	8.5	8.2
Male	6.1	5.2	7.7	6.9	7.7	9.0	10.3	9.8	10.6	9.9	10.2
Female	4.8	4.2	5.2	4.9	4.9	6.7	6.5	7.2	7.9	7.4	6.4
INTENTIONAL SELF-HARM (SUICIDE)											
Total	17.0	16.5	17.8	17.7	18.0	19.5	18.9	18.2	19.4	20.5	18.9
Male	26.6	25.6	27.5	28.0	28.1	31.5	29.7	28.8	31.2	33.6	30.2
Female	7.7	7.7	8.4	7.9	8.4	7.8	8.3	8.0	7.9	7.7	8.0
ASSAULT (HOMICIDE)											
Total	5.9	4.6	5.6	6.3	6.4	6.1	5.9	7.7	8.1	9.0	7.4
Male	9.2	7.1	8.6	9.9	10.0	9.8	9.1	12.1	13.2	14.2	11.6
Female	2.5	2.1	2.5	2.5	2.8	2.4	2.6	3.2	2.9	3.6	3.1
SEPTICEMIA											
Total	4.8	4.4	5.4	6.2	5.5	4.4	3.8	4.7	5.4	5.5	5.7
Male	5.6	5.0	6.4	7.1	5.9	5.0	4.4	5.1	6.1	6.0	6.4
Female	4.3	4.0	4.6	5.5	5.1	3.9	3.3	4.4	4.8	5.0	5.1

Notes: ^a 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.

TABLE 2B-3
AGE-ADJUSTED^a MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 2000-2023

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
Total, all causes																		
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
2012	687.2	811.0	579.2	693.1	817.9	583.0	616.2	743.0	512.8	886.5	985.3	793.1	843.8	1001.0	708.3	440.1	463.6	418.3
2013	687.8	805.8	583.8	693.7	811.8	588.8	615.6	708.5	534.9	918.5	1061.5	782.1	887.0	1075.3	728.5	413.4	485.9	364.6
2014	676.0	791.2	572.8	685.7	802.3	579.5	636.9	752.5	538.1	739.9	850.5	646.5	818.5	971.5	684.9	371.8	416.1	337.6
2015	691.3	811.5	583.3	704.1	821.6	597.0	601.5	725.0	497.2	832.8	980.1	704.1	965.3	1171.5	790.6	413.8	498.8	360.5
2016	696.6	824.8	581.1	704.8	826.6	593.6	607.5	739.7	496.9	874.2	1029.9	724.6	1023.9	1314.1	783.5	433.5	485.6	392.8
2017	679.3	800.0	568.7	681.4	796.3	574.9	592.0	705.7	493.5	800.0	912.2	680.8	1001.9	1244.9	796.7	419.1	478.8	377.9
2018	688.6	813.4	573.5	690.2	808.2	579.8	607.1	736.8	493.9	843.2	945.3	746.7	1036.1	1293.0	816.9	429.7	487.7	388.2
2019	676.6	799.6	562.9	674.5	792.5	563.3	602.8	720.7	500.0	841.5	970.2	727.5	1051.0	1311.8	836.8	421.6	519.6	351.0
2020	842.2	1002.1	694.1	794.6	929.2	667.9	871.7	1085.5	689.9	1057.7	1275.0	854.0	1757.8	2199.1	1397.5	507.4	597.5	437.9
2021	882.6	1057.1	721.2	835.4	991.0	689.6	892.8	1097.9	714.1	1113.6	1295.6	942.7	1704.7	2104.2	1365.1	597.0	712.6	511.9
2022	784.3	933.2	645.3	766.9	904.9	636.2	733.9	887.2	599.5	1010.8	1196.1	837.5	1378.6	1761.3	1054.1	474.3	543.4	418.0
2023	720.5	852.7	597.3	706.9	828.4	592.1	663.9	791.6	549.7	956.4	1150.3	777.9	1210.0	1534.1	931.5	428.8	505.9	370.4
Cardiovascular diseases																		
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
2012	193.3	233.6	159.1	195.1	238.4	157.9	176.2	204.3	153.1	284.0	290.7	269.6	168.3	204.1	139.8	134.7	159.3	116.7
2013	187.7	229.0	152.4	190.9	233.3	154.0	161.9	194.2	135.3	280.2	354.0	218.5	164.2	199.8	137.4	133.6	154.8	119.2
2014	171.6	206.9	140.7	174.9	210.4	143.0	156.2	191.6	127.3	212.3	256.3	176.8	147.7	196.6	111.3	100.8	112.7	90.4
2015	189.0	226.7	156.1	192.4	231.6	157.8	165.1	191.3	141.7	266.8	306.2	232.1	167.0	205.0	136.2	119.1	153.6	97.6
2016	190.8	230.7	155.9	194.4	235.2	158.0	168.3	202.3	140.4	275.8	314.3	233.8	189.6	238.8	152.7	120.9	135.9	111.0
2017	189.9	228.6	155.5	191.4	228.9	157.3	166.2	204.8	134.8	258.3	297.4	220.1	204.2	268.3	157.4	125.2	150.3	110.3
2018	188.4	225.2	155.6	189.8	227.1	155.9	167.5	203.0	137.4	241.1	254.7	227.4	186.0	216.7	160.8	128.2	148.9	113.7
2019	184.9	221.2	152.4	185.9	221.9	152.9	160.4	196.4	131.0	254.7	270.6	237.7	192.7	238.6	156.7	128.0	159.5	104.4
2020	205.3	246.9	167.8	204.5	243.4	168.6	182.7	230.3	144.3	293.7	352.6	238.6	237.2	304.4	187.6	134.7	160.9	114.1
2021	203.4	244.8	166.2	203.4	242.3	167.8	182.6	219.9	150.7	289.1	363.3	221.6	210.8	280.6	156.5	146.5	165.6	132.4
2022	199.7	240.4	163.0	200.3	239.2	164.6	178.4	214.5	146.9	287.3	349.6	234.2	211.8	284.8	154.1	131.1	151.1	116.5
2023	194.5	234.7	158.8	195.3	234.4	159.8	173.7	208.9	144.1	284.1	342.0	233.7	205.2	265.7	159.5	118.9	142.2	102.5

TABLE 2B-3 (continued)
AGE-ADJUSTED^a MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 2000-2023

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
-----Diseases of heart																		
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	148.5	184.9	235.0	144.8	197.6	239.1	165.0	258.5	241.3	258.5	166.9	215.3	128.2	135.3	112.8	167.4
2005	186.9	237.4	147.3	185.2	237.7	144.5	189.6	242.2	149.9	250.3	235.7	266.2	179.1	231.7	139.9	159.8	177.7	143.9
2006	166.1	207.3	131.8	168.8	210.6	133.9	149.8	181.1	124.0	231.9	328.6	153.5	129.4	169.5	98.1	94.7	118.5	80.2
2007	149.5	184.0	119.4	153.2	191.3	120.0	131.5	158.9	107.7	171.3	160.4	182.5	115.2	140.5	94.7	58.6	152.9	56.4
2008	149.3	189.3	115.1	153.1	195.7	116.8	132.0	165.2	102.4	161.7	175.2	146.9	114.6	129.0	103.8	71.8	92.0	57.8
2009	145.9	183.1	114.1	147.5	186.5	114.2	130.5	159.6	105.4	171.3	176.1	160.4	125.8	156.1	100.5	96.7	118.1	80.9
2010	143.3	179.8	112.2	145.4	181.9	113.7	121.3	149.0	99.5	177.7	233.6	133.9	135.9	169.5	108.1	86.8	128.1	60.0
2011	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
2012	145.8	184.4	113.7	150.0	190.9	115.3	123.4	149.8	101.8	190.5	216.9	168.5	122.7	160.6	93.9	87.9	116.9	68.3
2013	143.0	183.6	109.2	147.6	190.0	111.5	116.1	144.4	93.0	200.5	269.1	144.8	122.9	159.8	97.1	82.5	98.8	70.9
2014	129.9	164.1	100.5	134.4	168.9	104.1	114.0	147.8	87.0	140.9	175.3	113.3	107.5	159.3	70.3	60.3	73.8	49.9
2015	141.3	177.1	110.5	146.0	183.7	112.9	117.6	140.7	97.5	184.4	216.8	155.9	119.9	158.9	89.1	75.0	99.0	59.6
2016	142.5	180.5	109.8	147.7	186.9	113.5	116.3	147.1	91.5	188.3	224.0	151.5	139.9	191.2	102.3	76.6	86.8	69.9
2017	141.9	179.4	109.3	146.1	183.4	112.8	112.5	144.9	86.6	169.6	210.0	134.3	150.9	217.2	103.9	87.2	105.3	76.4
2018	140.5	176.3	109.1	144.3	181.1	111.4	116.0	147.4	90.1	166.4	185.8	149.5	129.9	156.0	108.6	86.0	112.9	68.5
2019	137.3	172.5	106.3	140.4	175.7	108.5	107.9	141.6	81.1	188.3	201.7	175.5	132.8	176.0	100.6	86.7	118.0	63.8
2020	152.9	192.2	118.1	154.9	192.5	120.8	125.5	163.5	94.8	212.3	263.8	164.4	164.3	234.2	113.2	91.0	112.0	74.6
2021	151.2	191.3	115.7	154.7	193.0	120.1	123.5	159.8	93.8	193.3	258.1	136.0	145.9	208.5	97.8	97.6	119.7	81.9
2022	148.2	187.0	113.7	151.3	188.8	117.4	121.2	153.1	93.8	194.9	255.3	145.3	156.1	231.2	99.4	88.9	110.5	73.0
2023	145.4	183.6	111.9	148.9	186.7	115.0	117.7	152.2	89.5	195.9	237.7	158.9	157.0	209.0	118.2	79.6	102.2	64.3
-----Cerebrovascular diseases																		
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
2012	29.9	30.0	29.4	28.1	28.0	27.6	35.5	37.8	33.6	56.0	50.9	57.7	27.1	30.3	24.5	30.9	26.4	33.3
2013	28.2	27.2	28.5	27.1	25.7	27.7	29.7	30.8	28.5	54.4	51.4	54.6	23.4	18.6	25.3	30.7	30.0	31.2
2014	26.2	24.8	26.8	25.3	25.2	26.1	27.4	26.6	27.5	40.8	41.7	39.2	24.5	24.2	24.0	28.7	33.1	25.8
2015	31.1	31.3	30.7	30.1	29.6	30.1	32.4	34.0	30.6	51.8	59.6	45.5	31.6	31.7	31.1	30.4	36.7	27.0
2016	30.7	29.9	30.9	30.0	28.7	30.6	31.5	31.4	31.2	48.1	49.7	45.8	30.1	27.8	30.9	31.1	41.5	24.8
2017	30.7	30.7	30.2	29.2	28.5	29.3	34.5	38.1	31.3	49.2	45.6	50.3	31.7	30.7	31.1	23.6	26.2	22.0
2018	32.1	31.6	32.0	30.6	29.9	30.8	34.6	36.3	32.6	44.1	42.7	43.9	39.2	37.4	40.5	27.9	25.2	29.2
2019	31.0	30.2	31.4	30.0	28.8	30.7	33.9	33.7	33.5	35.7	38.6	32.7	35.7	34.9	35.8	23.2	25.0	21.7
2020	34.6	34.8	33.8	32.9	32.3	32.9	38.3	42.8	34.2	48.6	51.6	45.9	43.6	44.7	42.9	29.9	32.0	28.0
2021	34.4	34.4	34.0	32.0	31.4	32.4	38.6	40.6	36.1	61.9	63.0	60.5	41.3	44.6	38.3	32.3	30.0	33.3
2022	34.5	33.9	34.6	32.8	32.2	33.0	38.3	40.2	36.5	54.2	46.1	59.1	36.6	31.0	39.3	29.4	26.7	31.2
2023	32.5	32.5	32.2	30.6	29.7	31.0	38.5	39.8	37.2	51.4	60.5	44.6	30.3	39.2	23.6	25.9	25.9	25.6

TABLE 2B-3 (continued)
AGE-ADJUSTED^a MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 2000-2023

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
Malignant neoplasms																		
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
2012	149.8	180.3	125.9	155.6	185.9	131.5	127.2	161.8	102.4	180.1	220.1	147.1	100.8	114.5	90.4	100.5	113.1	94.6
2013	149.6	175.0	129.9	154.3	180.9	133.3	129.8	147.2	117.0	190.4	209.3	176.5	118.2	126.0	114.5	100.1	131.4	81.4
2014	136.3	160.8	116.8	141.8	166.5	121.8	124.9	153.6	103.4	145.0	154.7	140.9	97.1	124.6	77.3	83.2	82.1	83.5
2015	144.0	169.0	123.8	149.8	173.9	129.9	120.4	152.9	96.2	154.7	181.5	135.0	124.4	142.1	112.4	104.8	133.4	88.2
2016	140.7	166.3	120.0	146.7	171.3	126.5	115.9	147.3	92.3	171.6	214.4	138.9	101.2	110.7	94.6	102.6	106.6	98.4
2017	136.6	161.0	116.6	141.4	167.7	119.1	110.9	130.9	95.9	158.5	164.8	151.2	117.1	114.6	118.2	99.4	121.4	85.6
2018	135.9	161.8	114.7	140.2	165.7	118.9	118.7	144.3	99.6	156.7	193.4	131.2	115.3	149.6	92.6	102.7	112.0	96.7
2019	134.7	156.7	116.4	136.9	158.3	118.6	118.3	137.3	103.7	173.5	210.0	147.1	132.3	162.6	112.5	98.4	113.1	89.8
2020	134.7	156.1	117.2	138.9	159.3	121.8	114.8	132.7	100.9	169.4	206.2	141.6	116.5	138.7	102.8	87.9	97.0	81.5
2021	131.8	150.3	116.7	136.0	155.4	119.6	110.9	128.0	98.5	154.4	151.7	158.3	128.9	139.9	123.2	94.4	100.1	91.0
2022	133.1	151.9	117.5	136.5	154.8	120.8	113.8	133.8	98.6	166.1	176.9	158.7	139.3	166.6	120.0	102.7	106.1	100.1
2023	128.4	147.0	113.0	129.6	147.7	114.3	120.2	138.2	107.1	166.9	199.1	142.6	125.2	158.3	103.2	88.3	96.7	81.6
-----Lung cancer																		
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	11.7	32.7	49.1	21.8
2009	39.0	47.4	32.2	42.7	51.5	35.5	23.7	33.9	15.8	38.7	38.3	39.8	10.0	7.1	12.6	26.6	37.0	19.1
2010	38.1	46.1	31.5	41.7	49.5	35.3	20.6	28.5	14.6	36.6	41.7	31.4	7.5	12.5	3.6	22.1	36.9	12.8
2011	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
2012	37.7	45.2	31.6	41.5	49.0	35.3	22.0	30.6	15.6	43.0	50.7	36.7	9.3	7.9	9.8	20.9	33.6	13.5
2013	36.4	42.9	31.0	40.2	46.7	34.8	22.1	27.6	17.3	40.5	57.3	29.4	10.0	11.6	9.5	22.9	31.6	17.6
2014	32.2	38.1	27.3	35.3	41.0	30.5	21.6	30.4	15.2	29.5	37.5	22.7	10.2	12.0	8.7	26.7	27.8	25.4
2015	35.1	40.5	30.7	39.1	44.2	34.8	18.8	24.9	14.5	38.4	58.6	22.5	8.1	10.3	6.9	30.6	38.0	25.8
2016	31.4	36.6	26.9	34.8	40.0	30.5	17.8	22.0	14.3	37.8	48.7	31.5	7.4	10.7	4.7	19.5	20.1	18.4
2017	30.8	36.0	26.5	34.3	39.6	29.7	15.2	19.6	11.7	27.9	35.6	20.6	8.5	3.9	11.6	29.2	30.5	28.1
2018	28.9	33.8	24.6	31.5	36.4	27.3	17.6	20.7	15.0	35.6	47.7	26.2	9.0	17.9	2.8	22.8	26.3	20.4
2019	26.2	29.7	23.3	28.6	31.7	25.9	16.3	20.9	12.8	33.1	41.4	25.9	8.1	9.3	7.3	20.9	19.4	21.7
2020	26.8	29.9	24.2	29.4	32.0	27.3	15.3	18.8	12.6	36.0	47.9	26.8	9.6	12.5	7.6	14.8	16.6	13.6
2021	25.8	28.9	23.2	28.8	32.1	26.0	14.4	17.0	12.6	23.1	23.8	23.4	7.9	8.6	7.8	19.9	20.7	19.5
2022	24.3	27.2	21.9	26.5	29.1	24.2	15.6	18.5	13.3	30.3	34.4	26.3	8.9	16.7	3.9	21.5	19.6	23.0
2023	23.1	26.1	20.5	25.1	27.5	23.0	14.7	18.4	11.9	29.3	37.9	21.5	8.2	11.1	6.6	15.7	24.1	9.9

TABLE 2B-3 (continued)
AGE-ADJUSTED^a MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 2000-2023

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
-----Colorectal cancer																		
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
2012	13.1	15.8	10.7	13.4	16.0	11.2	12.2	17.0	8.3	20.5	23.9	17.4	7.1	7.8	6.3	9.8	8.0	11.4
2013	13.6	15.3	12.3	13.7	15.5	12.2	12.5	14.3	10.9	21.7	19.6	23.0	11.3	7.3	14.0	12.1	13.0	11.7
2014	12.4	14.6	10.5	13.2	15.0	11.5	10.8	15.1	7.4	15.8	18.4	14.3	7.0	9.5	4.7	7.2	8.3	6.3
2015	12.9	15.6	10.5	12.9	15.1	10.9	11.8	16.6	8.0	19.5	25.1	15.0	13.3	18.8	9.6	9.4	17.1	4.9
2016	12.9	15.4	10.6	13.2	15.6	11.2	11.1	14.7	7.8	17.4	17.9	16.1	8.0	7.7	8.3	13.1	10.6	13.8
2017	13.0	16.0	10.2	13.2	16.4	10.3	12.7	16.6	9.5	15.1	13.8	16.1	11.1	14.1	8.4	6.0	11.3	2.4
2018	12.9	15.8	10.3	12.7	14.9	10.7	13.8	20.0	9.0	17.2	26.2	10.8	10.8	16.3	6.9	12.5	18.3	9.0
2019	12.3	14.6	10.1	12.4	15.0	10.0	11.2	12.5	9.8	14.2	17.3	11.3	12.9	17.2	10.4	11.0	10.2	11.6
2020	12.7	14.2	11.4	12.9	14.0	11.9	11.3	14.6	8.7	18.2	18.3	17.6	12.8	15.3	10.5	9.2	9.1	9.4
2021	12.4	14.6	10.4	12.6	14.6	10.8	11.9	15.1	9.2	15.9	15.0	16.1	8.2	10.7	5.8	9.6	10.5	9.0
2022	12.6	15.4	10.2	12.6	15.1	10.3	11.5	15.9	7.8	18.1	19.0	18.1	20.1	28.3	13.3	10.5	11.4	9.7
2023	12.8	15.6	10.4	12.6	15.0	10.4	12.9	17.3	9.5	21.4	24.5	18.4	13.6	21.1	8.2	8.9	12.5	6.0
-----Female breast cancer																		
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
2012	NA	NA	19.2	NA	NA	20.0	NA	NA	14.8	NA	NA	30.3	NA	NA	8.6	NA	NA	15.3
2013	NA	NA	20.7	NA	NA	21.3	NA	NA	19.7	NA	NA	23.3	NA	NA	13.1	NA	NA	11.4
2014	NA	NA	17.9	NA	NA	18.5	NA	NA	16.5	NA	NA	29.4	NA	NA	9.2	NA	NA	6.3
2015	NA	NA	19.2	NA	NA	20.7	NA	NA	12.9	NA	NA	23.1	NA	NA	12.8	NA	NA	13.3
2016	NA	NA	19.4	NA	NA	20.8	NA	NA	13.9	NA	NA	23.0	NA	NA	11.8	NA	NA	13.4
2017	NA	NA	18.2	NA	NA	18.7	NA	NA	13.3	NA	NA	36.7	NA	NA	13.0	NA	NA	14.5
2018	NA	NA	17.6	NA	NA	18.7	NA	NA	13.8	NA	NA	24.9	NA	NA	9.1	NA	NA	17.6
2019	N/A	N/A	18.8	N/A	N/A	19.1	N/A	N/A	15.2	N/A	N/A	39.3	N/A	N/A	17.6	N/A	N/A	13.8
2020	N/A	N/A	18.5	N/A	N/A	19.5	N/A	N/A	15.9	N/A	N/A	28.2	N/A	N/A	6.5	N/A	N/A	13.5
2021	N/A	N/A	19.5	N/A	N/A	19.9	N/A	N/A	15.5	N/A	N/A	30.5	N/A	N/A	18.3	N/A	N/A	17.7
2022	N/A	N/A	18.8	N/A	N/A	19.8	N/A	N/A	13.4	N/A	N/A	33.9	N/A	N/A	11.2	N/A	N/A	12.6
2023	N/A	N/A	17.5	N/A	N/A	18.0	N/A	N/A	16.5	N/A	N/A	18.9	N/A	N/A	16.0	N/A	N/A	5.9

TABLE 2B-3 (continued)
AGE-ADJUSTED^a MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 2000-2023

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
-----Prostate cancer																		
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
2012	NA	18.9	NA	NA	18.8	NA	NA	22.0	NA	NA	26.7	NA	NA	12.4	NA	NA	9.8	NA
2013	NA	18.2	NA	NA	18.0	NA	NA	17.0	NA	NA	26.7	NA	NA	19.9	NA	NA	18.5	NA
2014	NA	17.0	NA	NA	17.0	NA	NA	15.5	NA	NA	24.0	NA	NA	23.0	NA	NA	7.4	NA
2015	NA	17.6	NA	NA	17.3	NA	NA	17.6	NA	NA	29.6	NA	NA	26.0	NA	NA	10.7	NA
2016	NA	18.8	NA	NA	18.6	NA	NA	19.4	NA	NA	39.5	NA	NA	15.9	NA	NA	6.4	NA
2017	NA	16.8	NA	NA	16.5	NA	NA	16.3	NA	NA	26.3	NA	NA	19.9	NA	NA	9.7	NA
2018	NA	17.4	NA	NA	17.1	NA	NA	15.8	NA	NA	30.5	NA	NA	23.7	NA	NA	12.1	NA
2019	N/A	17.4	N/A	N/A	17.0	N/A	N/A	16.9	N/A	N/A	41.9	N/A	N/A	19.0	N/A	N/A	9.9	N/A
2020	N/A	18.5	N/A	N/A	18.2	N/A	N/A	18.3	N/A	N/A	35.4	N/A	N/A	17.5	N/A	N/A	8.1	N/A
2021	N/A	17.2	N/A	N/A	16.6	N/A	N/A	18.2	N/A	N/A	37.0	N/A	N/A	13.0	N/A	N/A	9.3	N/A
2022	N/A	16.7	N/A	N/A	16.4	N/A	N/A	14.8	N/A	N/A	32.1	N/A	N/A	16.0	N/A	N/A	12.7	N/A
2023	N/A	17.2	N/A	N/A	16.4	N/A	N/A	19.7	N/A	N/A	38.7	N/A	N/A	21.5	N/A	N/A	6.4	N/A
Chronic lower respiratory diseases^b																		
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	42.1	46.5	38.9	46.7	50.8	43.7	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
2012	44.2	50.5	39.5	49.4	55.5	44.8	20.3	27.1	16.1	35.0	43.4	30.9	18.0	27.4	12.1	14.7	14.3	14.2
2013	44.5	48.1	41.8	49.3	52.5	47.0	20.9	24.6	18.2	46.7	56.4	37.5	15.5	11.7	18.4	19.4	32.0	12.4
2014	41.1	45.8	37.5	45.9	49.7	43.0	21.1	28.7	15.9	34.0	47.4	26.1	12.4	13.7	11.7	17.3	33.8	7.6
2015	45.1	48.9	41.7	50.8	53.7	48.0	21.5	27.9	16.8	34.0	51.8	20.6	14.8	16.5	13.0	18.1	17.5	18.4
2016	45.0	47.6	42.9	50.9	52.7	49.4	20.0	23.2	17.7	43.8	51.5	39.2	19.5	27.2	15.1	11.3	19.4	5.9
2017	43.0	45.3	41.0	48.0	49.7	46.5	19.9	23.7	17.1	28.8	21.3	34.3	22.9	27.4	19.9	20.1	29.6	14.3
2018	42.6	44.7	40.7	48.0	49.2	46.8	18.3	22.7	14.8	38.2	41.4	35.9	20.8	22.2	20.2	17.2	17.2	17.3
2019	39.2	41.9	37.0	43.7	45.1	42.5	20.1	25.9	16.1	34.2	49.7	23.4	18.1	21.5	15.6	11.6	13.2	10.6
2020	38.8	41.2	36.8	43.1	44.4	41.9	21.9	27.0	18.2	27.4	30.4	25.2	20.9	27.5	16.5	14.3	20.5	11.0
2021	35.3	36.4	34.3	39.8	40.0	39.5	17.2	21.4	14.1	25.7	23.9	27.9	15.2	19.4	12.4	13.7	22.1	8.4
2022	35.3	36.3	34.4	40.1	39.8	40.2	15.3	20.5	11.4	36.6	41.5	34.4	14.6	21.9	10.4	11.1	12.7	10.3
2023	33.9	33.5	34.2	38.5	36.9	39.8	14.9	18.9	11.9	25.9	29.1	23.7	18.2	14.4	20.7	8.3	12.1	5.8

TABLE 2B-3 (continued)
AGE-ADJUSTED^a MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 2000-2023

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
Chronic liver disease and cirrhosis																		
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
2012	13.6	18.7	9.0	11.4	15.9	7.2	16.9	25.7	9.2	10.9	14.8	8.5	59.2	63.3	55.5	2.6	6.1	0.0
2013	14.5	18.2	11.1	12.6	15.5	10.0	16.7	23.0	10.8	6.8	9.9	3.9	62.0	70.1	55.0	3.9	4.3	3.4
2014	13.2	16.5	10.1	10.9	14.1	7.9	18.0	22.4	13.6	8.3	10.7	5.5	52.7	48.0	55.5	3.8	4.0	3.6
2015	14.9	19.2	11.0	13.1	16.1	10.3	14.0	22.0	7.0	8.4	12.3	4.6	77.6	91.8	66.1	4.0	8.3	0.8
2016	15.1	19.8	10.8	12.5	16.0	9.2	16.8	24.2	10.3	7.7	12.7	2.9	85.9	107.3	67.2	2.0	5.2	0.0
2017	14.2	18.0	10.7	11.9	14.6	9.3	15.8	23.1	9.6	4.6	7.2	2.1	74.0	85.4	63.7	4.8	8.8	2.0
2018	14.2	17.9	10.9	11.3	13.7	9.1	15.1	22.9	8.3	6.8	8.5	5.5	88.8	101.9	77.1	3.4	5.7	1.8
2019	14.7	18.8	10.8	12.4	15.6	9.3	14.5	21.0	8.7	7.8	9.9	6.0	82.7	98.2	68.8	3.9	1.8	5.4
2020	17.4	21.6	13.4	14.9	18.6	11.5	16.7	23.3	10.7	4.3	6.2	2.5	103.2	110.6	95.5	3.1	2.9	3.3
2021	21.6	26.5	17.0	17.5	21.3	14.1	18.6	24.2	13.2	12.9	16.0	9.6	145.7	170.0	123.9	4.3	4.9	3.6
2022	17.4	21.6	13.4	13.4	17.3	9.7	19.9	25.6	14.8	8.2	10.5	6.0	106.0	112.5	99.0	4.9	8.4	2.3
2023	16.4	19.6	13.4	13.8	16.7	11.2	17.1	20.6	13.8	8.3	8.8	7.9	91.8	102.4	82.3	6.4	12.8	1.7
Diabetes																		
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
2012	23.5	29.2	18.6	18.3	23.9	13.5	40.8	47.4	35.4	49.4	59.0	40.6	80.2	94.1	69.7	27.6	27.8	26.6
2013	23.6	29.1	18.8	18.6	24.0	14.0	40.7	45.8	36.3	60.2	68.0	55.8	65.7	79.7	55.0	17.9	18.5	17.9
2014	23.0	28.9	17.8	18.8	24.6	13.6	39.1	46.8	32.6	39.7	41.8	37.1	63.2	74.7	54.5	18.3	30.1	10.9
2015	25.7	31.8	20.4	20.1	25.8	15.1	45.3	53.2	38.7	53.0	67.5	42.6	73.9	85.6	65.3	22.7	29.3	18.4
2016	24.5	31.5	18.4	19.3	25.8	13.5	40.5	51.4	32.1	50.1	55.9	44.9	79.9	100.4	63.5	20.8	14.9	24.0
2017	23.8	30.1	18.3	18.1	23.5	13.3	39.4	48.7	31.7	45.9	49.5	42.3	81.6	101.9	64.8	21.3	22.6	20.3
2018	23.0	29.8	17.1	18.0	24.0	12.6	35.0	44.0	27.4	48.9	54.7	44.5	73.6	92.4	59.1	17.0	25.9	11.4
2019	23.9	30.5	18.1	18.9	25.6	12.9	34.6	42.0	28.8	43.6	44.6	42.0	91.4	106.3	78.5	19.5	23.4	16.6
2020	27.9	36.0	20.7	21.4	28.2	15.2	43.1	56.0	32.6	51.7	61.9	42.1	106.4	137.7	82.1	22.1	24.9	19.8
2021	26.8	32.6	21.6	20.0	24.8	15.8	42.5	51.6	35.1	48.3	51.2	46.2	97.6	116.1	81.5	30.1	38.6	24.5
2022	25.1	32.0	19.0	19.7	25.8	14.2	39.5	52.5	29.7	42.4	53.9	31.9	88.0	97.6	77.5	19.4	25.9	14.8
2023	23.9	31.5	17.0	19.2	26.9	12.2	33.2	39.3	27.8	43.2	55.3	31.8	83.7	103.6	66.9	22.5	21.6	22.7

TABLE 2B-3 (continued)
AGE-ADJUSTED^a MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 2000-2023

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
Accidents (unintentional injuries)																		
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
2012	42.4	54.0	31.0	43.3	54.0	32.7	33.9	45.4	22.8	38.2	50.3	25.2	94.8	136.9	56.5	21.0	20.0	20.3
2013	46.3	60.1	32.8	47.9	61.2	34.7	38.5	51.4	26.3	43.3	68.7	23.5	104.5	150.5	62.9	13.4	12.7	13.2
2014	43.3	56.7	30.1	43.7	57.7	29.9	35.9	47.3	24.9	37.6	44.1	32.2	85.4	128.2	47.4	18.3	15.5	19.3
2015	48.1	62.7	34.1	49.3	62.4	36.7	36.7	48.4	24.9	50.5	59.5	40.6	139.0	203.9	82.7	21.7	23.7	20.2
2016	53.7	73.1	34.9	55.2	73.8	36.9	41.6	58.2	25.9	52.2	66.0	35.8	139.1	219.5	67.9	25.9	33.4	20.1
2017	55.3	73.7	37.0	54.5	71.5	37.3	45.9	61.4	30.4	60.3	89.3	31.1	142.0	206.1	88.1	24.3	31.2	19.3
2018	55.9	76.4	35.6	56.3	74.7	37.8	44.5	63.5	26.0	57.6	80.4	34.1	144.5	224.0	74.5	24.9	31.5	18.7
2019	59.2	82.6	36.0	60.5	83.0	38.0	48.3	70.8	26.1	60.4	80.0	40.3	129.4	183.3	81.6	22.9	31.5	15.0
2020	71.5	100.6	42.4	69.2	94.4	43.8	60.4	89.5	31.5	82.2	124.6	38.0	180.1	262.7	104.9	20.2	24.8	16.1
2021	77.8	108.3	47.4	74.8	102.0	47.3	66.6	99.0	34.9	101.3	138.0	63.3	206.9	296.9	123.8	30.5	42.0	20.5
2022	74.8	107.9	41.8	71.8	101.0	42.4	63.3	95.8	31.6	91.2	134.1	46.1	206.5	320.5	105.4	31.1	43.7	18.3
2023	74.6	107.0	42.5	71.1	99.9	42.3	63.7	96.5	31.7	98.7	143.3	52.4	203.3	299.8	115.4	27.8	43.2	15.4
-----Motor vehicle accidents																		
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
2012	11.4	16.8	6.3	10.0	14.8	5.3	10.6	16.3	5.4	10.1	15.2	5.1	37.8	53.1	22.8	4.9	5.4	4.5
2013	11.4	16.3	6.6	10.2	15.1	5.3	11.4	15.5	7.3	12.0	18.1	4.8	31.7	40.3	23.5	5.8	8.6	3.8
2014	10.3	14.5	6.0	8.3	12.5	4.1	10.3	14.2	6.5	7.9	11.1	4.4	35.6	49.2	23.1	2.5	2.8	2.2
2015	12.6	18.0	7.2	10.7	15.5	5.9	9.9	15.2	4.8	14.1	19.1	8.2	54.3	74.1	36.5	8.2	7.9	8.3
2016	13.9	20.1	7.8	11.5	17.3	5.9	13.3	19.9	7.2	19.1	22.6	14.7	52.2	77.6	29.5	7.2	9.0	6.2
2017	13.8	19.5	8.2	12.0	17.8	6.1	12.7	17.7	8.1	17.1	26.0	8.6	54.0	70.0	39.7	7.5	10.1	5.2
2018	14.1	20.0	8.3	12.3	17.3	7.4	12.1	18.7	6.0	13.9	17.0	10.7	60.7	91.1	33.1	6.2	7.9	4.8
2019	13.1	18.9	7.5	12.4	18.0	6.9	12.5	19.1	6.3	12.0	16.2	7.8	36.7	48.4	26.5	6.1	10.4	2.6
2020	14.0	20.2	7.8	12.0	17.9	6.2	13.7	19.7	7.6	12.2	19.3	4.6	44.7	59.4	30.8	6.8	6.0	7.4
2021	18.4	25.7	11.2	16.1	23.4	8.7	16.7	24.2	9.7	23.3	30.2	15.8	65.5	85.8	47.7	6.6	8.2	4.8
2022	17.5	25.4	9.6	15.4	22.7	8.1	16.7	23.4	10.1	21.3	28.5	13.2	59.7	86.8	35.1	8.8	14.3	3.3
2023	16.7	24.7	8.8	14.8	22.1	7.5	14.6	21.5	7.7	20.5	31.5	9.5	64.3	90.5	39.9	8.7	12.2	5.4

TABLE 2B-3 (continued)
AGE-ADJUSTED^a MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY
AND GENDER, ARIZONA, 2000-2023

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
Assault (homicide)																		
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
2012	5.9	8.6	3.1	4.3	6.0	2.4	6.1	9.7	2.5	14.5	20.2	8.2	17.3	26.3	8.8	2.0	3.0	0.9
2013	5.9	9.2	2.5	4.0	6.2	1.7	5.8	9.0	2.4	15.4	25.4	3.6	17.7	29.6	6.2	1.9	2.1	1.7
2014	4.6	7.1	2.1	3.0	4.2	1.8	6.0	9.8	2.1	11.1	17.5	4.0	7.3	12.0	2.6	0.4	0.8	0.0
2015	5.6	8.6	2.5	4.0	5.7	2.3	5.3	8.3	2.2	15.5	25.7	3.6	15.7	25.7	5.8	2.4	3.0	1.7
2016	6.3	9.9	2.5	3.7	5.3	2.1	6.8	11.7	1.8	20.4	33.4	5.6	17.6	25.7	9.9	4.0	7.1	1.6
2017	6.4	10.0	2.8	4.1	5.5	2.7	6.8	11.1	2.5	17.9	30.0	4.1	17.9	30.7	5.5	0.7	0.8	0.6
2018	6.1	9.8	2.4	3.6	4.9	2.3	6.6	11.4	1.6	19.3	30.0	6.9	17.9	29.1	6.9	2.6	3.9	1.4
2019	5.9	9.1	2.6	3.7	5.5	1.9	5.8	9.3	2.1	15.2	22.8	6.6	20.3	32.6	8.6	2.3	4.2	0.6
2020	7.7	12.1	3.2	4.3	6.0	2.6	6.9	11.5	2.1	27.3	45.4	7.2	28.4	46.0	11.7	2.3	2.7	1.8
2021	8.1	13.2	2.9	4.0	6.6	1.3	9.1	14.9	3.1	29.5	46.9	10.5	23.7	35.1	12.4	3.8	5.8	2.0
2022	9.0	14.2	3.6	4.7	7.2	2.2	9.4	14.9	3.9	27.4	43.6	9.6	34.5	59.5	10.9	2.6	4.7	0.5
2023	7.4	11.6	3.1	4.1	5.8	2.3	7.8	12.4	3.0	21.9	36.9	5.7	26.1	44.3	8.9	1.6	2.8	0.6
Intentional self-harm (suicide)																		
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	9.2	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
2012	16.2	25.9	7.0	20.2	32.2	8.7	6.8	11.1	2.9	10.0	15.5	4.0	17.9	27.9	8.1	5.7	10.2	1.8
2013	17.0	26.6	7.7	20.8	32.4	9.6	8.4	12.8	4.2	6.7	9.7	3.1	21.9	36.1	8.1	7.0	14.5	1.1
2014	16.5	25.6	7.7	21.0	31.9	10.4	8.3	13.4	3.4	9.0	13.6	4.2	13.9	24.3	3.7	7.0	12.0	2.7
2015	17.8	27.5	8.4	23.6	36.4	11.1	6.7	10.4	3.2	6.6	9.2	3.7	19.0	28.4	10.0	7.0	9.9	4.5
2016	17.7	28.0	7.9	21.7	33.6	10.2	8.8	15.0	2.9	9.0	13.1	5.2	24.2	36.7	11.9	9.3	14.0	4.7
2017	18.0	28.1	8.4	22.1	33.8	10.8	8.5	14.1	3.0	10.5	19.1	2.3	26.2	40.4	12.7	9.3	10.6	7.8
2018	19.5	31.5	7.8	23.7	37.5	10.2	8.7	15.2	2.4	16.0	24.6	6.6	36.5	61.8	12.3	7.3	11.0	4.1
2019	18.9	29.7	8.3	23.1	36.4	10.1	9.9	16.4	3.7	12.5	14.1	11.1	26.8	41.8	12.4	7.3	11.5	3.9
2020	18.2	28.8	8.0	22.5	35.0	10.3	9.2	14.9	3.6	13.7	22.1	4.5	28.0	43.9	12.9	6.8	12.4	1.9
2021	19.4	31.2	7.9	23.3	37.5	9.3	10.0	16.6	3.6	13.3	21.3	4.4	39.7	62.8	17.5	9.8	12.5	7.4
2022	20.5	33.6	7.7	24.3	39.8	9.0	12.2	20.7	4.2	14.3	22.3	5.4	35.1	54.7	16.9	9.4	14.8	4.4
2023	18.9	30.2	8.0	21.9	35.1	8.9	10.9	18.0	3.8	18.0	25.4	9.8	32.1	43.5	20.6	6.0	8.7	3.9

Notes: ^a Adjusted to the 2000 standard U.S. population; ^b Chronic obstructive pulmonary diseases in 1990; Age-adjusted rates by race/ethnicity for COVID-19 may be found in Table 2b-4; 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://pub.azdhs.gov/health-stats/>

**TABLE 2B-4
NUMBER OF DEATHS AND AGE-ADJUSTED MORTALITY RATES* FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY AND
GENDER, ARIZONA, 2023**

	NUMBER OF DEATHS																			
	All groups				White non-Hispanic				Hispanic or Latino				Black or African American				American Indian or Alaska Native			
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M
Total, all causes^b	69,005	37,561	31,444	51,183	27,420	23,763	10,268	5,792	4,476	2,864	1,664	1,200	3,121	1,813	1,308	1,129	562	567		
Major cardiovascular diseases	19,415	10,651	8,764	15,297	8,359	6,938	2,410	1,323	1,087	795	450	345	498	281	217	306	152	154		
Diseases of heart	14,514	8,331	6,183	11,642	6,646	4,996	1,638	961	677	559	322	237	381	219	162	204	108	96		
Coronary heart disease	10,165	6,102	4,063	8,183	4,907	3,276	1,143	682	461	385	219	166	249	154	95	137	79	58		
Malignant neoplasms	12,922	6,887	6,035	9,953	5,367	4,586	1,848	931	917	496	268	228	323	171	152	245	112	133		
Malignant neoplasm of trachea, bronchus and lung	2,408	1,255	1,153	2,029	1,039	990	215	117	98	86	53	33	20	10	10	45	28	17		
Malignant neoplasm of colon, rectum, and anus	1,254	708	546	923	509	414	206	124	82	65	36	29	34	23	11	25	15	10		
Malignant neoplasm of breast	910 ⁺	10 ⁺	906	700 ⁺	*	693	150 ⁺	*	146	32	0	32	20 ⁺	*	23	10	0	10		
Malignant neoplasm of prostate	795	795	0	615	615	0	108	108	0	43	43	0	19	19	0	6	6	0		
Malignant melanoma of skin	210 ⁺	140 ⁺	70 ⁺	189	124	65	10 ⁺	8	*	0 ⁺	*	*	0 ⁺	*	*	0	0	0		
Malignant neoplasm of cervix uteri	80	0	80 ⁺	54	0	54	12	0	12	0 ⁺	0	*	0 ⁺	0	*	9	0	9		
Accidents (unintentional injury)	6,000	4,152	1,848	3,588	2,364	1,224	1,320	1,003	317	374	279	95	573	402	171	81	57	24		
Accidental poisoning	2,483	1,882	601	1,287	943	344	661	543	118	219	163	56	257	187	70	24	18	6		
Motor vehicle accidents	1,299	954	345	667	496	171	332	245	87	80	61	19	186	126	60	25	17	8		
Falls	1,287	668	619	1,043	526	517	154	91	63	15	6	9	50	30	20	19	12	7		
Accidental drowning and submersion	120 ⁺	80 ⁺	40 ⁺	74	45	29	30 ⁺	21	*	10 ⁺	8	*	6	6	0	0 ⁺	*	*		
Chronic lower respiratory diseases	3,475	1,562	1,913	3,113	1,376	1,737	196	107	89	74	36	38	42	14	28	22	13	9		
Cerebrovascular diseases	3,240	1,468	1,772	2,429	1,076	1,353	523	245	278	136	71	65	72	41	31	68	28	40		
Alzheimer's disease	2,642	931	1,711	2,154	770	1,384	340	108	232	77	27	50	31	12	19	33	12	21		
Diabetes	2,330	1,433	897	1,398	915	483	508	282	226	136	84	52	219	122	97	59	24	35		
Intentional self-harm (suicide)	1,485	1,173	312	1,025	818	207	251	207	44	71	53	18	101	69	32	19	12	7		
Chronic liver disease and cirrhosis	1,420 ⁺	832	590 ⁺	808	479	329	313	184	129	26	14	12	253	134	119	20 ⁺	16	*		
Essential (primary) hypertension and hypertensive renal disease	1,060	515	545	757	376	381	171	70	101	69	39	30	31	14	17	27	14	13		
COVID-19	954	528	426	727	395	332	130	78	52	21	9	12	48	29	19	22	13	9		
Parkinson's disease	940 ⁺	613	330 ⁺	800	523	277	82	54	28	20 ⁺	12	*	18	10	8	24	13	11		
Influenza and pneumonia	931	503	428	645	345	300	154	86	68	37	24	13	68	33	35	19	9	10		
Nephritis, nephrotic syndrome and nephrosis	811	469	342	494	292	202	164	96	68	56	26	30	67	38	29	25	12	13		
Septicemia	550 ⁺	290 ⁺	270 ⁺	349	182	167	122	63	59	33	18	15	41	16	25	10 ⁺	*	*		
Assault (homicide)	530 ⁺	420 ⁺	110 ⁺	159	113	46	194	158	36	89	78	11	76	63	13	10 ⁺	*	*		
Human immunodeficiency virus (HIV) disease	80 ⁺	60 ⁺	10 ⁺	40 ⁺	33	*	20 ⁺	18	*	10 ⁺	6	*	10 ⁺	*	*	0 ⁺	*	0		
Injury by firearms	1,410 ⁺	1,214	190 ⁺	838	725	113	319	278	41	126	111	15	93	75	18	10 ⁺	12	*		
Drug-induced deaths	2,705	1,973	732	1,471	1,025	446	705	564	141	230	171	59	228	161	67	28	20	8		
Opioid-induced deaths	1,930 ⁺	1,453	480 ⁺	1,025	739	286	518	424	94	175	133	42	169	124	45	20 ⁺	14	*		
Alcohol-induced deaths	1,470 ⁺	967	500 ⁺	872	562	310	221	156	65	32	18	14	316	208	108	10 ⁺	13	*		

TABLE 2B-4 (continued)
NUMBER OF DEATHS AND AGE-ADJUSTED MORTALITY RATES^a FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY AND GENDER, ARIZONA, 2023

	AGE-ADJUSTED MORTALITY RATES ^a																	
	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
Total, all causes^b	720.5	852.7	597.3	706.9	828.4	592.1	663.9	791.6	549.7	956.4	1150.3	777.9	1210.0	1534.1	931.5	428.8	505.9	370.4
Major cardiovascular disease	194.5	234.7	158.8	195.3	234.4	159.8	173.7	208.9	144.1	284.1	342.0	233.7	205.2	265.7	159.5	118.9	142.2	102.5
Diseases of heart	145.4	183.6	111.9	148.9	186.7	115.0	117.7	152.2	89.5	195.9	237.7	158.9	157.0	209.0	118.2	79.6	102.2	64.3
Coronary heart disease	101.3	133.8	73.1	104.4	137.5	74.9	82.2	107.1	61.6	135.0	159.4	112.2	102.8	146.2	70.4	53.2	74.7	38.7
Malignant neoplasms	128.4	147.0	113.0	129.6	147.7	114.3	120.2	138.2	107.1	166.9	199.1	142.6	125.2	158.3	103.2	88.3	96.7	81.6
Malignant neoplasm of trachea, bronchus and lung	23.1	26.1	20.5	25.1	27.5	23.0	14.7	18.4	11.9	29.3	37.9	21.5	8.2	11.1	6.6	15.7	24.1	9.9
Malignant neoplasm of colon, rectum, and anus	12.8	15.6	10.4	12.6	15.0	10.4	12.9	17.3	9.5	21.4	24.5	18.4	13.6	21.1	8.2	8.9	12.5	6.0
Malignant neoplasm of breast	9.4	0.2	17.5	9.5	**	18.0	9.2	**	16.5	9.7	0.0	18.9	9.5	**	16.0	3.4	0.0	5.9
Malignant neoplasm of prostate	7.7	17.2	0.0	7.5	16.4	0.0	8.3	19.7	0.0	16.4	38.7	0.0	8.4	21.5	0.0	2.5	6.4	0.0
Malignant melanoma of skin	2.1	3.0	1.3	2.5	3.6	1.7	0.6	0.9	**	**	**	**	**	**	**	0.0	0.0	0.0
Malignant neoplasm of cervix uteri	1.0	0.0	2.0	1.1	0.0	2.2	0.6	0.0	1.2	**	0.0	**	**	0.0	**	3.0	0.0	5.2
Accidents (unintentional injury)	74.6	107.0	42.5	71.1	99.9	42.3	63.7	96.5	31.7	98.7	143.3	52.4	203.3	299.8	115.4	27.8	43.2	15.4
Accidental poisoning	34.1	51.7	16.4	32.3	47.8	16.5	29.0	47.4	10.6	55.7	79.8	30.1	89.5	137.3	46.0	7.2	12.2	3.3
Motor vehicle accidents	16.7	24.7	8.8	14.8	22.1	7.5	14.6	21.5	7.7	20.5	31.5	9.5	64.3	90.5	39.9	8.7	12.2	5.4
Falls	13.0	15.0	11.2	13.3	14.8	11.9	10.9	14.1	8.3	5.8	5.6	6.1	20.5	26.1	15.0	7.6	11.3	4.9
Accidental drowning and submersion	1.5	2.2	0.9	1.7	2.1	1.3	1.1	1.8	**	2.2	3.8	**	2.0	4.4	0.0	**	**	**
Chronic lower respiratory diseases	33.9	33.5	34.2	38.5	36.9	39.8	14.9	18.9	11.9	25.9	29.1	23.7	18.2	14.4	20.7	8.3	12.1	5.8
Cerebrovascular diseases	32.5	32.5	32.2	30.6	29.7	31.0	38.5	39.8	37.2	51.4	60.5	44.6	30.3	39.2	23.6	25.9	25.9	25.6
Alzheimer's disease	26.3	20.9	30.4	26.2	20.8	30.5	29.3	22.6	33.6	35.8	29.7	40.0	15.6	16.2	15.3	14.6	13.8	15.0
Diabetes	23.9	31.5	17.0	19.2	26.9	12.2	33.2	39.3	27.8	43.2	55.3	31.8	83.7	103.6	66.9	22.5	21.6	22.7
Intentional self-harm (suicide)	18.9	30.2	8.0	21.9	35.1	8.9	10.9	18.0	3.8	18.0	25.4	9.8	32.1	43.5	20.6	6.0	8.7	**
Chronic liver disease and cirrhosis	16.4	19.6	13.4	13.8	16.7	11.2	17.1	20.6	13.8	8.3	8.8	7.9	91.8	102.4	82.3	6.4	12.8	1.7
Essential (primary) hypertension and hypertensive renal disease	10.6	11.3	9.9	9.6	10.5	8.7	12.3	10.0	13.5	26.8	31.4	22.2	12.5	12.6	12.3	10.7	12.1	9.4
Influenza and pneumonia	9.6	11.2	8.3	8.9	10.1	7.9	10.1	12.8	8.0	12.3	18.1	7.7	28.0	31.3	24.9	7.6	9.4	6.4
COVID-19	9.5	11.7	7.8	9.3	10.9	7.9	9.7	13.8	6.7	7.8	8.1	7.6	20.3	26.9	14.6	9.3	14.0	6.1
Parkinson's disease	9.3	13.4	5.9	9.7	13.9	6.2	6.6	10.7	3.8	7.6	12.7	**	9.2	13.2	6.6	10.1	13.3	8.1
Nephritis, nephrotic syndrome and nephrosis	8.2	10.2	6.4	6.3	8.2	4.7	10.9	14.3	8.4	18.5	18.3	18.8	25.7	31.5	20.4	9.3	11.3	7.8
Assault (homicide)	7.4	11.6	3.1	4.1	5.8	2.3	7.8	12.4	3.0	21.9	36.9	5.7	26.1	44.3	8.9	1.6	**	**
Septicemia	5.7	6.4	5.1	4.7	5.3	4.2	8.1	9.1	7.1	10.3	11.0	9.3	16.5	15.3	17.6	**	**	**
Human immunodeficiency virus (HIV) disease	0.9	1.6	0.3	0.7	1.2	**	1.1	1.7	**	2.1	3.3	**	2.2	**	**	**	**	0.0
Injury by firearms	18.3	31.7	5.2	18.0	31.0	5.2	13.1	22.8	3.3	31.4	51.9	8.4	30.9	49.6	12.5	4.4	7.9	**
Drug-induced deaths	36.8	53.8	19.7	36.2	51.2	20.9	31.1	49.4	12.7	58.7	84.0	31.7	78.7	115.4	44.9	8.4	13.4	4.4
Opioid-induced deaths	26.8	40.4	12.9	26.4	38.6	13.7	22.2	36.0	8.2	44.4	64.7	22.3	57.9	89.7	28.2	5.4	9.2	**
Alcohol-induced deaths	17.9	23.8	12.3	16.6	21.4	12.0	11.2	16.8	6.2	8.9	10.1	8.0	115.6	161.3	75.3	4.5	9.8	**

Notes: * Cell suppressed due to count less than 6; ** Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; ^a The number of deaths per 100,000 resident population age-adjusted to the 2000 U.S. standard; The rates for cervical cancer are per 100,000 females; The rate for prostate cancer is per 100,000 males; ^b Includes records with unknown gender and race/ethnicity.

**TABLE 2B-5
AGE-ADJUSTED MORTALITY RATES^a FOR SELECTED CAUSES OF DEATH BY URBAN/RURAL AREA AND GENDER,
ARIZONA, 2023**

	Arizona		Urban			Rural		
	Total	Male	Female	Total	Male	Female	Total	Male
Total, all causes	720.5	852.7	597.3	693.6	816.1	580.6	853.6	1027.4
Major cardiovascular diseases	194.5	234.7	158.8	191.6	229.0	158.8	208.4	259.7
Diseases of heart	145.4	183.6	111.9	142.1	178.1	111.0	160.5	206.7
Coronary heart disease	101.3	133.8	73.1	98.9	129.7	72.5	111.8	150.5
Malignant neoplasms	128.4	147.0	113.0	124.7	142.4	110.4	143.8	165.4
Malignant neoplasm of trachea, bronchus and lung	23.1	26.1	20.5	22.3	24.9	20.1	26.9	31.2
Malignant neoplasm of colon, rectum, and anus	12.8	15.6	10.4	12.4	15.1	10.1	14.2	17.0
Malignant neoplasm of breast	9.4	0.2	17.5	9.2	0.2	17.0	10.2	0.1
Malignant neoplasm of prostate	7.7	17.2	0.0	6.9	15.5	0.0	11.1	23.7
Malignant melanoma of skin	2.1	3.0	1.3	2.0	3.0	1.2	2.6	3.0
Malignant neoplasm of cervix uteri	1.0	0.0	2.0	0.9	0.0	1.7	1.8	0.0
Accidents (unintentional injury)	74.6	107.0	42.5	70.5	100.8	40.6	95.6	137.4
Accidental poisoning	34.1	51.7	16.4	32.6	49.8	15.3	40.2	58.3
Motor vehicle accidents	16.7	24.7	8.8	14.8	21.9	7.8	28.5	41.2
Falls	13.0	15.0	11.2	13.3	15.1	11.6	12.2	15.4
Accidental drowning and submersion	1.5	2.2	0.9	1.5	2.1	0.9	1.4	2.2
Chronic lower respiratory diseases	33.9	33.5	34.2	30.8	30.0	31.2	47.8	47.8
Cerebrovascular diseases	32.5	32.5	32.2	32.5	31.9	32.6	32.8	35.7
Alzheimer's disease	26.3	20.9	30.4	26.8	21.7	30.6	24.0	17.8
Diabetes	23.9	31.5	17.0	23.2	30.8	16.5	26.9	34.9
Intentional self-harm (suicide)	18.9	30.2	8.0	16.6	26.4	7.1	33.4	52.5
Chronic liver disease and cirrhosis	16.4	19.6	13.4	13.9	16.7	11.3	31.4	36.3
Essential (primary) hypertension and hypertensive renal disease	10.6	11.3	9.9	11.1	11.7	10.3	8.6	9.2
Influenza and pneumonia	9.6	11.2	8.3	9.1	10.7	7.8	12.3	13.8
COVID-19	9.5	11.7	7.8	9.3	11.4	7.6	10.4	12.6
Parkinson's disease	9.3	13.4	5.9	9.7	14.1	6.2	7.6	10.8
Nephritis, nephrotic syndrome and nephrosis	8.2	10.2	6.4	7.5	9.4	5.8	11.4	13.9
Assault (homicide)	7.4	11.6	3.1	7.3	11.5	3.0	7.7	11.9
Septicemia	5.7	6.4	5.1	5.5	6.2	4.8	7.0	7.3
(HIV) disease	0.9	1.6	0.3	1.0	1.6	0.4	0.6	1.1
Injury by firearms	18.3	31.7	5.2	17.0	29.3	4.9	25.6	43.9
Drug-induced deaths	36.8	53.8	19.7	35.6	52.5	18.7	40.8	56.2
Opioid-induced deaths	26.8	40.4	12.9	26.4	40.1	12.5	27.0	38.9
Alcohol-induced deaths	17.9	23.8	12.3	14.4	19.0	10.1	39.9	53.2
								26.5

Notes: ^a The number of deaths per 100,000 population in specified group age-adjusted to the 2000 standard U.S.; The rates for cervical cancer are per 100,000 females; the rates for prostate cancer are per 100,000 males.

TABLE 2B-6
DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,
ARIZONA RESIDENTS, 2023

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^a	69,005	37,561	31,444	917.0	1005.2	830.0
Salmonella infections	0	0	0	0.0	0.0	0.0
Shigellosis and amebiasis	0	0	0	0.0	0.0	0.0
Certain other intestinal infections	194	82	112	2.6	2.2	3.0
Enterocolitis due to Clostridium difficile	106	47	59	1.4	1.3	1.6
Tuberculosis	10†	*	6	0.1	**	0.2
Respiratory tuberculosis	10†	*	*	0.1	**	**
Other tuberculosis	0†	*	*	**	**	**
Whooping cough	0	0	0	0.0	0.0	0.0
Scarlet fever and erysipelas	0	0	0	0.0	0.0	0.0
Meningococcal infection	0	0	0	0.0	0.0	0.0
Septicemia	553	286	267	7.3	7.7	7.0
Syphilis	10†	*	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	69	45	24	0.9	1.2	0.6
Human immunodeficiency virus (HIV) disease	77	64	13	1.0	1.7	0.3
Malaria	0	0	0	0.0	0.0	0.0
Other and unspecified infectious and parasitic diseases	386	236	150	5.1	6.3	4.0
Malignant neoplasms	12,922	6,887	6,035	171.7	184.3	159.3
Malignant neoplasm of lip, oral cavity and pharynx	244	175	69	3.2	4.7	1.8
Malignant neoplasm of esophagus	350	287	63	4.7	7.7	1.7
Malignant neoplasm of stomach	228	139	89	3.0	3.7	2.3
Malignant neoplasm of colon, rectum, and anus	1,254	708	546	16.7	18.9	14.4
Malignant neoplasm of liver and intrahepatic bile ducts	701	441	260	9.3	11.8	6.9
Malignant neoplasm of pancreas	1,052	541	511	14.0	14.5	13.5
Malignant neoplasm of larynx	80	62	18	1.1	1.7	0.5
Malignant neoplasm of trachea, bronchus and lung	2,408	1,255	1,153	32.0	33.6	30.4
Malignant melanoma of skin	208	137	71	2.8	3.7	1.9
Malignant neoplasm of breast	914	8	906	12.1	0.2	23.9
Malignant neoplasm of cervix uteri	80	0	80	1.1	0.0	2.1
Malignant neoplasm of corpus uteri and uterus, part unspecified	235	0	235	3.1	0.0	6.2
Malignant neoplasm of ovary	325	0	325	4.3	0.0	8.6
Malignant neoplasm of prostate	795	795	0	10.6	21.3	0.0
Malignant neoplasm of kidney and renal pelvis	323	205	118	4.3	5.5	3.1
Malignant neoplasm of bladder	366	258	108	4.9	6.9	2.9
Malignant neoplasm of meninges, brain and other parts of central nervous system	362	208	154	4.8	5.6	4.1
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,178	710	468	15.7	19.0	12.4
Hodgkin's disease	18	10	8	0.2	0.3	0.2
Non-Hodgkin's lymphoma	398	243	155	5.3	6.5	4.1
Leukemia	527	327	200	7.0	8.8	5.3
Multiple myeloma and immunoproliferative neoplasms	229	126	103	3.0	3.4	2.7
Other and unspecified malignant neoplasms of lymphoid tissue	10†	*	*	0.1	**	**
All other and unspecified malignant neoplasm	1,819	958	861	24.2	25.6	22.7
In situ neoplasms	388	207	181	5.2	5.5	4.8
Anemias	81	41	40	1.1	1.1	1.1
Diabetes	2,330	1,433	897	31.0	38.3	23.7

TABLE 2B-6 (continued)
DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,
ARIZONA RESIDENTS, 2023

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	751	298	453	10.0	8.0	12.0
Malnutrition	729	289	440	9.7	7.7	11.6
Other nutritional deficiencies	22	9	13	0.3	0.2	0.3
Obesity	226	132	94	3.0	3.5	2.5
Meningitis	20†	*	14	0.3	**	0.4
Parkinson's disease	944	613	331	12.5	16.4	8.7
Alzheimer's disease	2,642	931	1,711	35.1	24.9	45.2
Major cardiovascular diseases	19,415	10,651	8,764	258.0	285.0	231.3
Diseases of heart	14,514	8,331	6,183	192.9	223.0	163.2
Acute rheumatic fever and chronic rheumatic heart disease	96	38	58	1.3	1.0	1.5
Hypertensive heart disease	2,095	1,007	1,088	27.8	26.9	28.7
Hypertensive heart and renal disease	308	149	159	4.1	4.0	4.2
Ischemic heart disease	8,070	5,095	2,975	107.2	136.4	78.5
Acute myocardial infarction	1,649	1,024	625	21.9	27.4	16.5
Other acute ischemic heart disease	64	42	22	0.9	1.1	0.6
Other forms of chronic ischemic heart disease	6,357	4,029	2,328	84.5	107.8	61.4
Atherosclerotic cardiovascular disease	1,787	1,217	570	23.7	32.6	15.0
All other forms of chronic ischemic heart disease	4,570	2,812	1,758	60.7	75.3	46.4
Other heart diseases	3,945	2,042	1,903	52.4	54.6	50.2
Acute and subacute endocarditis	38	31	7	0.5	0.8	0.2
Diseases of pericardium and acute myocarditis	24	12	12	0.3	0.3	0.3
Heart failure	1,091	589	502	14.5	15.8	13.3
All other forms of heart disease	2,792	1,410	1,382	37.1	37.7	36.5
Essential (primary) hypertension and hypertensive renal disease	1,060	515	545	14.1	13.8	14.4
Cerebrovascular diseases	3,240	1,468	1,772	43.1	39.3	46.8
Atherosclerosis	100	53	47	1.3	1.4	1.2
Other diseases of circulatory system	499	284	215	6.6	7.6	5.7
Aortic aneurysm and dissection	264	170	94	3.5	4.5	2.5
Other disease of arteries, arterioles and capillaries	235	114	121	3.1	3.1	3.2
Other disorders of circulatory system	134	82	52	1.8	2.2	1.4
Influenza and pneumonia	931	503	428	12.4	13.5	11.3
Influenza	71	33	38	0.9	0.9	1.0
Pneumonia	860	470	390	11.4	12.6	10.3
COVID-19	954	528	426	12.7	14.1	11.2
Other acute lower respiratory infections	10†	*	*	**	**	**
Acute bronchiolitis	0†	0	*	**	0.0	**
Unspecified acute lower respiratory infection	0†	*	0	**	**	0.0
Chronic lower respiratory diseases	3,475	1,562	1,913	46.2	41.8	50.5
Bronchitis, chronic and unspecified	10†	*	*	0.1	**	**
Emphysema	198	99	99	2.6	2.6	2.6
Asthma	74	28	46	1.0	0.7	1.2
Other chronic lower respiratory diseases	3,195	1,432	1,763	42.5	38.3	46.5
Pneumoconioses and chemical effects	10†	6	*	0.1	0.2	**
Pneumonitis due to solids and liquids	246	160	86	3.3	4.3	2.3
Other disease of respiratory system	1,190	677	513	15.8	18.1	13.5
Peptic ulcer	101	54	47	1.3	1.4	1.2
Diseases of appendix	10†	*	6	0.1	**	0.2
Hernia	57	28	29	0.8	0.7	0.8

TABLE 2B-6 (continued)
DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,
ARIZONA RESIDENTS, 2023

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	1,424	832	592	18.9	22.3	15.6
Alcoholic liver disease	860	516	344	11.4	13.8	9.1
Other chronic liver disease and cirrhosis	564	316	248	7.5	8.5	6.5
Cholelithiasis and other disorders of gallbladder	92	51	41	1.2	1.4	1.1
Nephritis, nephrotic syndrome and nephrosis	811	469	342	10.8	12.6	9.0
Acute and rapidly progressive nephritic and nephrotic syndrome	10†	6	*	0.1	0.2	**
Chronic glomerulonephritis	15	9	6	0.2	0.2	0.2
Renal failure	785	454	331	10.4	12.1	8.7
Others disorders of kidney	0†	0	*	**	0.0	**
Infections of kidney	31	9	22	0.4	0.2	0.6
Hyperplasia of prostate	14	14	0	0.2	0.4	0.0
Inflammatory diseases of female pelvic organs	10†	0	*	**	0.0	**
Pregnancy, childbirth and the puerperium	25	0	25	0.3	0.0	0.7
Pregnancy with abortive outcome	0†	0	*	**	0.0	**
Other complications of pregnancy, childbirth and the puerperium	24	0	24	0.3	0.0	0.6
Perinatal conditions	214	118	94	2.8	3.2	2.5
Congenital malformations	225	117	108	3.0	3.1	2.9
Symptoms, signs, abnormal findings ^a	691	356	335	9.2	9.5	8.8
Total accidents	6,000	4,152	1,848	79.7	111.1	48.8
Transport accidents	1,400	1,035	365	18.6	27.7	9.6
Motor vehicle accidents	1,299	954	345	17.3	25.5	9.1
Other land transport accidents	44	37	7	0.6	1.0	0.2
Water, air, space	57	44	13	0.8	1.2	0.3
Nontransport accidents	4,600	3,117	1,483	61.1	83.4	39.1
Falls	1,287	668	619	17.1	17.9	16.3
Accidental discharge of firearms	10†	*	*	0.1	**	**
Accidental drowning and submersion	120	84	36	1.6	2.2	1.0
Accidental exposure to smoke, fire and flames	67	44	23	0.9	1.2	0.6
Accidental poisoning	2,483	1,882	601	33.0	50.4	15.9
Other and unspecified non-transport accidents	637	434	203	8.5	11.6	5.4
Intentional self-harm (suicide)	1,485	1,173	312	19.7	31.4	8.2
By discharge of firearms	940	838	102	12.5	22.4	2.7
By other means	545	335	210	7.2	9.0	5.5
Assault (homicide)	526	419	107	7.0	11.2	2.8
By discharge of firearms	406	323	83	5.4	8.6	2.2
By other means	120	96	24	1.6	2.6	0.6
Legal intervention	30†	32	*	0.4	0.9	**
Events of undetermined intent	158	100	58	2.1	2.7	1.5
Discharge of firearms	20†	18	*	0.3	0.5	**
Other and unspecified events of undetermined intent	136	82	54	1.8	2.2	1.4
Operations of war	0†	*	0	**	**	0.0
Complications of medical and surgical care	62	29	33	0.8	0.8	0.9
Injury by firearms	1,405	1,214	191	18.7	32.5	5.0
Drug-induced deaths	2,705	1,973	732	35.9	52.8	19.3
Opioid-induced deaths	1,928	1,453	475	25.6	38.9	12.5
Alcohol-induced deaths	1,467	967	500	19.5	25.9	13.2

Notes: * Cell suppressed due to count less than 6; ** Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; ^a Includes records with unknown gender; 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, 2013-2023**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
ALL FORMS OF HEART DISEASE	TOTAL	10,497	9,953	11,274	11,820	12,285	12,410	12,560	14,185	14,536	14,514
	Male	5,910	5,575	6,286	6,702	6,973	7,030	7,129	8,097	8,386	8,331
	Female	4,587	4,378	4,988	5,118	5,312	5,380	5,431	6,088	6,150	6,183
Acute rheumatic fever and chronic rheumatic heart disease	TOTAL	64	74	52	77	79	98	71	87	98	96
	Male	17	26	20	33	27	41	31	31	42	38
	Female	47	48	32	44	52	57	40	56	56	58
Hypertensive heart and renal disease	TOTAL	49	65	71	111	147	153	165	179	240	257
	Male	27	31	36	56	73	81	77	82	121	115
	Female	22	34	35	55	74	72	88	97	119	142
Ischemic heart disease	TOTAL	7,159	6,650	7,264	7,734	7,814	7,540	7,617	8,586	8,491	8,227
	Male	4,259	3,957	4,391	4,703	4,829	4,670	4,642	5,295	5,325	5,148
	Female	2,900	2,693	2,873	3,031	2,985	2,870	2,975	3,291	3,166	3,079
Hypertensive heart disease	TOTAL	943	991	1,118	1,114	1,122	1,400	1,409	1,619	1,943	2,029
	Male	462	491	517	554	526	711	735	779	987	1,019
	Female	481	500	601	560	596	689	674	840	956	1,010
Other heart diseases	TOTAL	2,282	2,173	2,769	2,784	3,123	3,219	3,298	3,714	3,764	3,917
	Male	1,145	1,070	1,322	1,356	1,518	1,527	1,644	1,910	1,911	2,033
	Female	1,137	1,103	1,447	1,428	1,605	1,692	1,654	1,804	1,853	1,903

TABLE 2B-8
NUMBER OF DEATHS FOR SELECTED SUBCATEGORIES OF MALIGNANT NEOPLASMS BY GENDER AND YEAR,
ARIZONA, 2013-2023

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
ALL CANCERS^a	TOTAL^b	11,193	10,600	11,624	11,801	11,917	12,097	12,485	12,671	12,810	12,922
	Male	5,950	5,731	6,263	6,429	6,493	6,675	6,740	6,821	6,825	6,887
	Female	5,243	4,869	5,361	5,372	5,424	5,422	5,745	5,850	5,985	6,035
ICD-9 140-149/ICD-10 C00-C14 - Malignant neoplasm of lip, oral cavity and pharynx (oropharyngeal cancer)	TOTAL	150	137	160	205	180	165	187	217	225	244
	Male	101	98	109	157	128	127	141	154	167	175
	Female	49	39	51	48	52	38	46	63	58	69
ICD-9 150/ICD-10 C15 - Malignant neoplasm of esophagus	TOTAL	320	286	303	310	333	332	332	313	361	350
	Male	257	230	249	246	273	271	270	263	301	287
	Female	63	56	54	64	60	61	62	50	60	63
ICD-9 151/ICD-10 C16 - Malignant neoplasm of stomach	TOTAL	202	186	211	226	203	236	226	215	233	228
	Male	122	109	121	128	124	134	134	125	142	139
	Female	80	77	90	98	79	102	92	90	91	89
ICD-9 153, 154/ICD-10 C18-C21 - Malignant neoplasm of colon, rectum, rectosigmoid junction and anus	TOTAL	997	953	1,022	1,069	1,118	1,126	1,117	1,173	1,159	1,254
	Male	510	510	568	591	639	641	621	602	638	708
	Female	487	443	454	478	479	485	496	571	521	546
ICD-9 157/ICD-10 C25 - Malignant neoplasm of pancreas	TOTAL	755	769	852	901	914	952	1,018	1,005	984	1,052
	Male	392	400	461	494	484	513	541	545	531	541
	Female	363	369	391	407	430	439	477	460	453	511
ICD-9 162/ICD-10 C33-C34 - Malignant neoplasm of trachea, bronchus and lung	TOTAL	2,763	2,543	2,885	2,689	2,754	2,640	2,510	2,592	2,595	2,408
	Male	1,485	1,385	1,533	1,452	1,487	1,436	1,315	1,336	1,348	1,255
	Female	1,278	1,158	1,352	1,237	1,267	1,204	1,195	1,256	1,247	1,153
ICD-9 172/ICD-10 C43 - Malignant melanoma of skin	TOTAL	222	215	213	191	190	209	206	212	218	208
	Male	137	147	142	131	129	150	133	151	137	137
	Female	85	68	71	60	61	59	73	61	81	71
ICD-9 174,175/ICD-10 C50 - Malignant neoplasm of breast	TOTAL	836	729	810 ⁺	853	834	815	911	894	972	914
	Male	9	6	*	9	8	10	12	11	16	8
	Female	827	723	809	844	826	805	899	883	956	906

TABLE 2B-8 (continued)
NUMBER OF DEATHS FOR SELECTED SUBCATEGORIES OF MALIGNANT NEOPLASMS BY GENDER AND YEAR,
ARIZONA, 2013-2023

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
ICD-9 180/ICD-10 C53 - Malignant neoplasm of cervix uteri	TOTAL	86	75	84	82	78	84	74	100	93	80
	Female	86	75	84	82	78	84	74	100	93	80
ICD-9 179, 182/ ICD-10 C54-C55 - Malignant neoplasm of body of uterus and of uterus, part unspecified	TOTAL	140	176	180	168	200	203	212	233	268	235
	Female	140	176	180	168	200	203	212	233	268	235
ICD-9 185/ICD-10 C61 - Malignant neoplasm of prostate	TOTAL	570	572	633	697	659	734	795	779	755	795
	Male	570	572	633	697	659	734	795	779	755	795
ICD-9 188/ICD-10 C67 - Malignant neoplasm of bladder	TOTAL	293	305	355	367	362	362	416	418	387	366
	Male	221	241	255	267	279	276	321	327	284	258
ICD-9 189/ICD-10 C64-C65 - Malignant neoplasm of kidney and other and unspecified urinary organs	Female	72	64	100	100	83	82	95	91	103	108
	TOTAL	274	254	309	308	323	351	308	317	322	323
ICD-9 191, 192/ICD-10 C70-C72 - Malignant neoplasm of brain	Male	179	177	224	205	208	250	202	215	210	205
	Female	95	77	85	103	115	101	106	102	112	118
ICD-9 201/ICD-10 81 - Hodgkin's disease	TOTAL	325	339	323	340	339	366	379	395	389	362
	Male	172	194	190	195	194	206	220	227	219	208
ICD-9 200, 202/ICD-10 C82-C85 - Malignant lymphoma other than Hodgkin's disease	Female	153	145	133	145	145	160	159	168	170	154
	TOTAL	26	10†	30	22	29	22	22	25	27	18
ICD-9 203/ICD-10 C88, C90 - Multiple myeloma and immunoproliferative neoplasms	Male	16	10	21	10	15	12	14	13	17	10
	Female	10	*	9	12	14	10	8	11	10	8
ICD-9 200, 202/ICD-10 C82-C85 - Malignant lymphoma other than Hodgkin's disease	TOTAL	416	371	397	399	388	398	409	433	475	398
	Male	251	196	216	221	240	235	252	246	281	243
ICD-9 203/ICD-10 C88, C90 - Multiple myeloma and immunoproliferative neoplasms	Female	165	175	181	178	148	163	157	187	194	155
	TOTAL	247	221	240	243	270	297	258	292	274	229
Other malignant neoplasms	Male	129	133	139	149	162	181	150	162	180	126
	Female	118	88	101	94	108	116	108	103	94	103
Other malignant neoplasms	TOTAL	2,571	2,455	2,613	2,731	2,743	2,877	3,219	1,564	1,806	1,819
	Male	1,400	1,323	1,397	1,477	1,464	1,538	1,734	840	998	958
	Female	1,171	1,132	1,216	1,254	1,279	1,339	1,485	724	808	861

Notes: * Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; ^a Includes other forms of cancer; ^b Total includes records with unknown gender.

TABLE 2B-9
NUMBER OF DEATHS FROM UNINTENTIONAL INJURIES IN ACCIDENTS BY CATEGORY AND YEAR AMONG
ARIZONA RESIDENTS, 2013-2023

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total unintentional injury deaths	3,137	3,011	3,403	3,899	4,085	4,211	4,522	5,377	5,945	5,868	6,000
Railway accident	7	8	6	11	9	7	10	9	12	9	18
Motor vehicle accident	767	702	855	967	979	1,032	970	1,035	1,359	1,344	1,299
Water transport accident	*	0	*	*	7	7	*	*	*	7	*
Accident involving aircraft	9	*	7	10	17	10	13	14	18	11	*
Poisoning by drugs/medicaments	853	885	955	1,095	1,269	1,425	1,679	2,309	2,508	2,388	2,370
Poisoning by gases and vapors	112	94	105	153	105	120	118	174	143	146	113
Falls	870	881	1,014	1,103	1,076	1,090	1,109	1,127	1,146	1,172	1,287
Fire, flames, smoke	68	30	25	40	51	23	43	48	57	41	67
Excessive natural heat	56	32	43	99	108	94	118	210	194	243	352
Excessive natural cold	28	19	20	21	24	15	37	27	24	29	33
Contact with venomous snakes and lizards	0	0	0	0	*	*	0	0	*	*	0
Contact with venomous spiders	*	0	0	0	*	0	0	0	0	0	0
Contact with scorpions	*	0	0	0	0	0	0	0	*	0	0
Contact with hornets, wasps, bees	*	0	*	*	*	*	*	*	*	0	*
Bitten or struck by dog	*	*	*	*	*	0	*	*	*	*	*
Lightning	*	0	*	*	*	0	0	0	0	0	0
Storms and floods	0	0	0	0	12	*	*	0	*	*	*
Accidental drowning and submersion	72	78	81	105	106	92	100	99	115	126	120
Choked on food	29	33	34	33	38	40	38	38	42	55	28
Choked on other objects	57	56	53	38	39	29	40	31	48	29	32
Mechanical suffocation	21	35	40	35	41	25	37	27	42	38	30
Accidental discharge of firearms	9	6	*	7	8	10	13	6	8	13	6
Exposure to electric current	6	*	*	10	*	*	*	8	*	8	7
Overexertion	0	0	0	0	*	0	0	0	0	0	0
Adverse effects of drugs in therapeutic use	10	10	12	*	*	11	7	14	13	11	13
Misadventures to patients during medical/surgical care	46	32	20	43	96	103	108	113	130	70	49

Notes: * Cell suppressed due to count less than 6; Beginning in 2000, the data are classified by the Tenth Revision of the International Classification of Diseases (ICD-10).

TABLE 2B-10
NUMBER OF DEATHS FROM MOTOR VEHICLE-RELATED INJURIES BY PERSON INJURED, GENDER, AND YEAR,
ARIZONA RESIDENTS, 2013-2023

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
TOTAL											
Total	767	702	855	967	979	1,032	970	1,035	1,359	1,344	1,299
Male	541	492	605	693	691	729	692	747	954	964	954
Female	226	210	250	274	288	303	278	288	405	380	345
Motorcyclist											
Total	111	100	121	126	137	130	130†	154	189	227	257
Male	98	93	106	118	122	114	130	139	172	202	239
Female	13	7	15	8	15	16	*	15	17	25	18
Pedestrian											
Total	152	138	160	218	245	251	227	235	307	325	278
Male	105	100	115	150	161	171	166	166	209	226	209
Female	47	38	45	68	84	80	61	69	98	99	69
Pedal cyclist											
Total	20†	20†	20†	20†	30†	20†	20†	30†	40†	41	30†
Male	19	15	15	18	24	18	18	23	34	34	30
Female	*	*	*	*	*	*	*	*	*	7	*
Other person											
Total	481	445	558	601	568	630	587	618	824	751	730
Male	319	284	369	407	384	426	378	419	539	502	476
Female	162	161	189	194	184	204	209	199	285	249	254

Notes: * Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; Beginning in 2000, the data are classified by the Tenth Revision of the International Classification of Diseases (ICD-10).

**TABLE 2B-11
LEADING CAUSES OF DEATH BY PLACE OF DEATH AND DECEDENT STATUS, ARIZONA, 2023**

Causes of death	TOTAL	IN HOSPITAL					NOT IN HOSPITAL			
		In-patient	Out-patient ^a	Died on arrival	Status Unknown	Subtotal	Nursing home ^b	Residence	Other ^c	Subtotal
TOTAL, ALL CAUSES	69,005	15,941	3,881	27	24,796	44,645	6,092	11,921	6,347	24,360
Diseases of heart	14,514	3,027	1,048	8	5,702	9,785	868	2,778	1,083	4,729
Coronary heart disease	10,165	1,683	805	6	4,328	6,822	547	1,977	819	3,343
Malignant neoplasms	12,920†	2,051	235	*	6,437	8,730†	2,080	1,434	682	4,196
Malignant neoplasm of trachea, bronchus and lung	2,410†	435	43	*	1,184	1,660†	355	258	132	745
Malignant neoplasm of colon, rectum, and anus	1,254	174	25	0	650	849	193	150	62	405
Malignant neoplasm of breast	914	112	20	0	473	605	153	115	41	309
Malignant neoplasm of prostate	795	73	13	0	444	530	101	127	37	265
Malignant neoplasm of cervix uteri	80†	6	*	0	46	60†	17	*	*	30†
Accidents (unintentional injury)	6,000†	1,238	867	*	1,397	3,500†	361	191	1,945	2,497
Accidental poisoning	2,480†	211	352	*	907	1,470†	13	*	995	1,010†
Motor vehicle accidents	1,300†	320	300	0	7	627	23	*	644	670†
Falls	1,287	495	74	0	179	748	303	154	82	539
Accidental drowning and submersion	120†	24	23	0	30	77	*	0	42	40†
Chronic lower respiratory diseases	3,480†	653	124	*	1,522	2,300†	266	711	198	1,175
Cerebrovascular diseases	3,240†	771	91	*	758	1,620†	516	902	201	1,619
Alzheimer's disease	2,642	29	19	0	780	828	152	1,410	252	1,814
Diabetes	2,330†	432	229	*	1,134	1,800†	175	236	122	533
Intentional self-harm (suicide)	1,490†	98	120	0	833	1,051	7	*	424	430†
Chronic liver disease and cirrhosis	1,424	626	44	0	388	1,058	191	130	45	366
Essential (primary) hypertension & hypertensive renal disease	1,060	151	68	0	489	708	83	195	74	352
COVID-19	950†	543	36	*	145	730†	87	119	23	229
Parkinson's disease	940†	39	*	0	395	440†	65	369	71	505
Influenza and pneumonia	931	684	49	0	72	805	46	62	18	126
Nephritis, nephrotic syndrome and nephrosis	811	361	40	0	222	623	38	123	27	188
Septicemia	550†	453	23	0	22	498	37	17	*	55
Assault (homicide)	530†	70	146	0	97	313	*	*	206	210†
Human immunodeficiency virus (HIV) disease	80†	35	*	0	12	50†	13	8	7	28
Injury by firearms	1,405	96	206	0	627	929	7	0	469	476
Drug-induced deaths	2,710†	284	377	0	1,001	1,662	27	*	1,011	1,040†
Opioid-induced deaths	1,930†	143	281	0	708	1,132	10	*	781	800†
Alcohol-induced deaths	1,470†	418	76	*	600	1,100†	158	78	136	372

Notes: * Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; ^a Includes Emergency Room; ^b Includes other long-term care facilities; ^c 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.

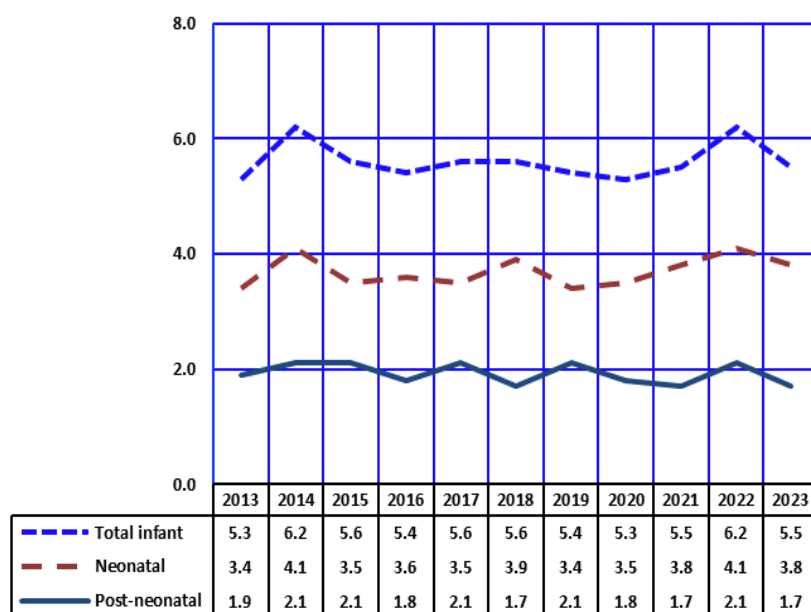
For each age group, cause-specific mortality is compared between urban (i.e., Maricopa, Pima, Pinal, and Yuma counties) and rural (all other counties) regions and between genders. Urban and rural regions also are compared in gender-specific total mortality.

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

2C.AGE-SPECIFIC MORTALITY

Infant mortality

Figure 2C-1
Infant Mortality Rates by Neonatal/Postneonatal Age and Year,
Arizona, 2013-2023



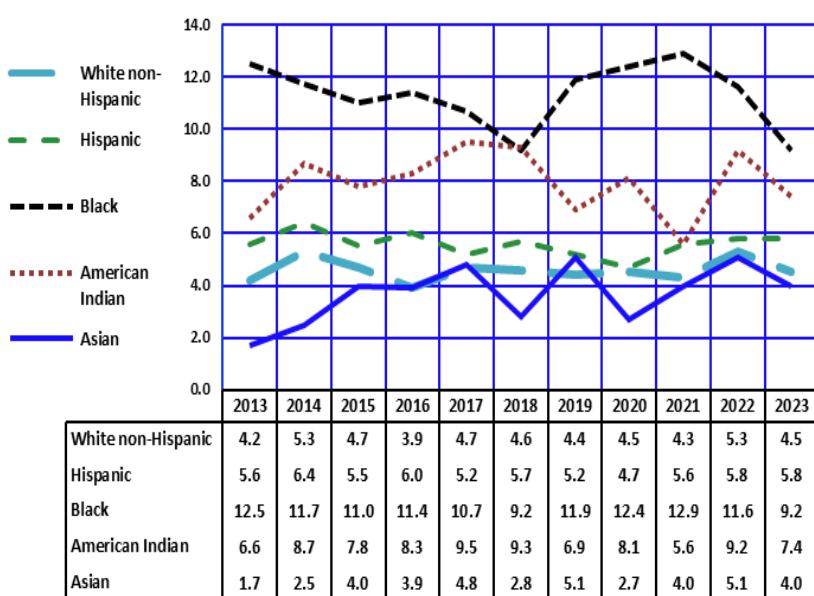
Notes: Neonatal deaths are those deaths affecting infants age 0-27 days; Post-neonatal deaths are deaths to infants aged 28 days-1 year.

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

In 2023, 430 Arizona infants died before reaching their first birthday, 105 fewer than the latest peak of 535 infant deaths in 2014, with a decrease of 53 deaths in comparison to 2022 (**Table 2C-2**).

Based on the actual number of infant deaths and live births in 2023, the infant mortality rate was slightly lower at 5.5 infant deaths per 1,000 live births in 2023 than in 2022 which had 6.2 infant deaths per 1,000 live births (**Figure 2C-1**).

Figure 2C-2
Infant Mortality Rates^a by Race/Ethnicity and Year,
Arizona, 2013-2023



Note: ^a Number of infant deaths per 1,000 live births in specified group.

In 2023, 94.4 percent (406/430)* 100 of all infant death records were successfully matched to their corresponding birth records.

The mortality risk for infants varies by race/ethnicity. During the 11-year period (2013-2023), infants born to Asian or Pacific Islander mothers witnessed the lowest mortality rates among all racial/ethnic groups for the most part (**Figure 2C-2, Table 2C-2**). The exception being 2017 and 2019, as the infant mortality for Whites was the lowest of all racial/ethnic groups.

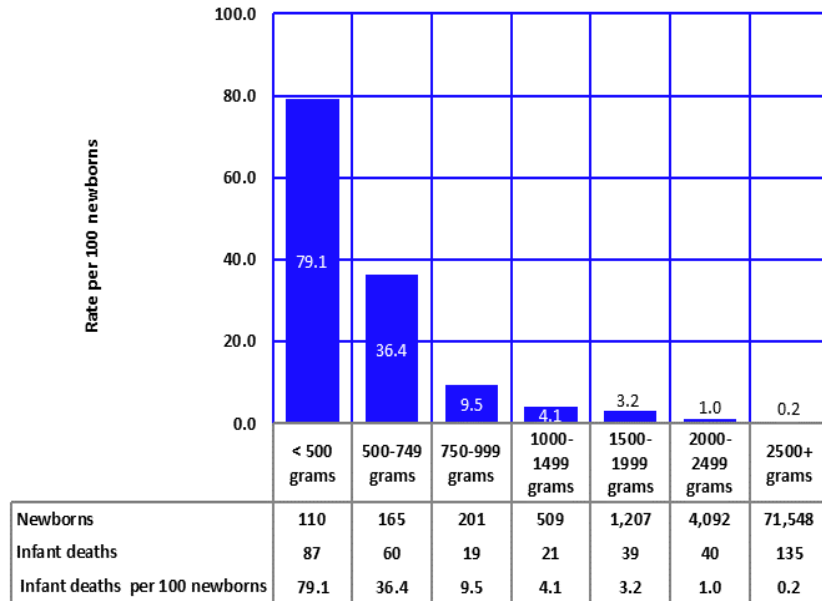
In parallel, in each year from 2013 to 2023, Black or African American and American Indian infants had the worst survival chances among the racial/ethnic groups (**Figure 2C-2**).

*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, 2023

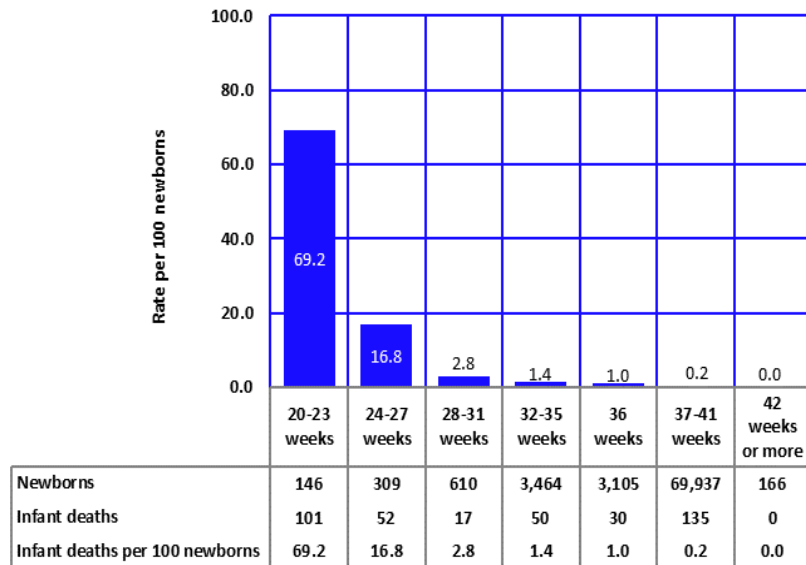


Newborn weight at birth is one of the most important predictors of an infant's survival chances. In 2023, the mortality rate of very low birth weight babies (birthweight less than 500 grams) was 79.1 per 100 live births (**Figure 2C-3**). The rate of infant deaths per 100 newborns increased as weight decreased. The infant death rate of babies born <500 grams was almost 400 times higher compared to the rate of babies born at 2,500 grams or more.

The absolute number of low birthweight births increased in 2023 to 6,284 from 6,113 in 2022, making it the highest since 2009 (n=6,573).

Note: 49 cases in the complete 2023 birth file had missing birthweight estimates.

Figure 2C-4.1
Proportion of Infant Deaths by Gestational Age, Arizona, 2023



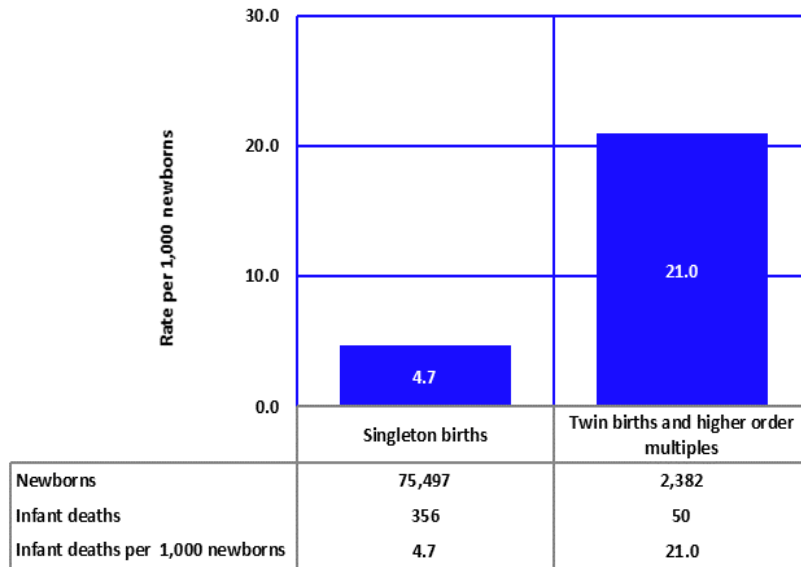
Similar to low birthweight infants, preterm and very preterm babies contribute greatly to the total infant mortality rate because of their higher risk of mortality. For example, in 2023 births occurring between 20-27 weeks of gestation accounted for only 0.6 percent of all births but 35.6 percent of infant deaths with a matching death record. Births at 20-23 weeks of gestation have a very high infant mortality rate of 69.2 per 100 live births (**Figure 2C-4**). Overall, in 2023 preterm infants (those born before 37 weeks of gestation) accounted for 9.9 percent of all births (**Table 1B-2**) and 61.6 percent of all infant deaths (only those with matching death records).

Note: 94 cases in the complete 2023 birth file had missing gestational age; one of which were missing in the linked infant death file.

2C.AGE-SPECIFIC MORTALITY

Infant mortality

Figure 2C-4.2
Infant Mortality Rates for Single and Multiple Births, Arizona, 2023

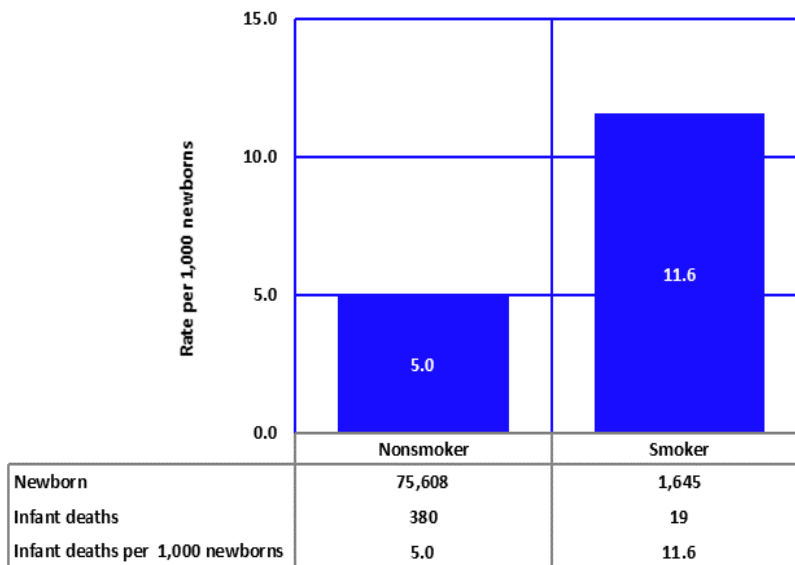


The infant mortality rate for single births was 4.7/1,000 live births in 2023 (**Figure 2C-4.2**). The infant mortality rate for twin births or higher order multiples (21.0/1,000 live births) was 4.5 times higher than the infant mortality for singleton births.

Babies born in multiple deliveries accounted for 3.1 percent of births (**Table 1B-16**), but 12.3 percent of all infant deaths in Arizona in 2023 (only those with matching birth and death records).

Note: 2 cases in the complete 2023 birth file was missing plurality.

Figure 2C-4.3
Infant Mortality Rates by Mother's Smoking Status during Pregnancy, Arizona, 2023



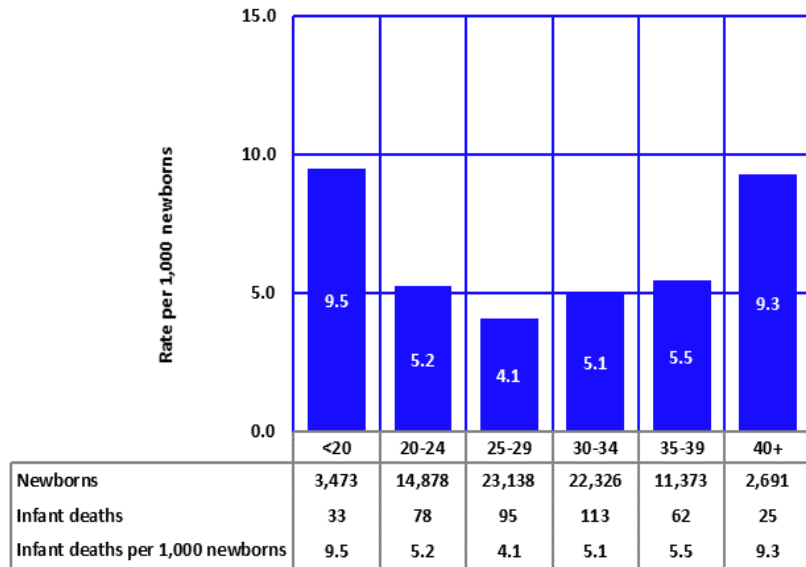
Smoking during pregnancy has been shown to increase the risk of preterm delivery, low birth weight and infant mortality. In 2023, among the 1,645 mothers who smoked during pregnancy, the risk of infant mortality was 2.3 times higher than among nonsmoker mothers (**Figure 2C-4.3**).

Note: 628 cases in the complete 2023 birth file were missing mothers' smoking status.

2C.AGE-SPECIFIC MORTALITY

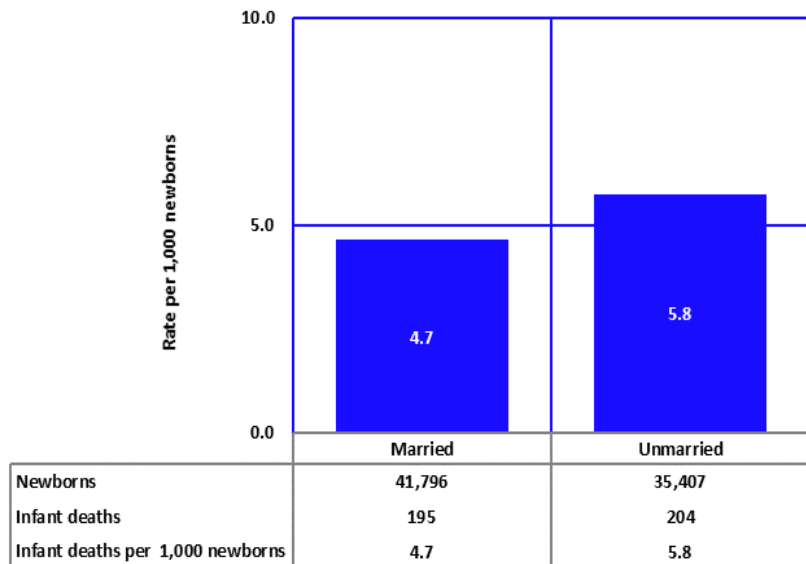
Infant mortality

Figure 2C-4.4
Infant Mortality Rates by Mother's Age Group, Arizona, 2023



Note: 2 cases in the complete 2023 birth file were missing mother's age.

Figure 2C-4.5
Infant Mortality Rates by Mother's Marital Status, Arizona, 2023



Note: 678 cases in the complete 2023 birth file were missing mother's marital status.

Infant mortality rates vary with maternal age. In 2023, infants born to younger mothers (less than 20 years), and older mothers (40+ years) had the highest infant mortality rates of all age groups, 9.5/1,000, and 9.3/1,000 respectively (**Figure 2C-4.4**). For mothers aged 20 through 39 years, the infant mortality rates were lower than 6 deaths/1,000.

Infants born to unmarried mothers accounted for the absolute majority of infant deaths in 2023 (204 infant deaths) compared to married mothers (195 infant deaths). In 2023, more children were born to married women (41,796) than their unmarried counterparts (35,407; **Table 1B-25**). Infants of unmarried mothers had an infant mortality rate of 5.8 deaths per 1,000 live births, 1.2 times higher than the rate for infants of married mothers (4.7 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 and 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 OF POSTNEONATAL DEATHS,
UNITED STATES, ARIZONA AND URBAN/RURAL COUNTIES OF ARIZONA, 2013-2023

UNITED STATES	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Infant mortality ^a	6.0	5.8	5.9	5.8	5.8	5.7	5.7	5.4	5.4	5.6	5.6
Neonatal mortality ^a	4.0	3.9	3.9	3.8	3.8	3.8	3.7	3.6	3.5	3.6	3.6
Postneonatal mortality ^a	2.0	1.8	1.9	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.1
Percent postneonatal mortality ^b	33.3	31.0	32.2	34.5	32.8	33.3	33.9	34.3	35.8	36.1	36.8
ARIZONA, STATEWIDE TOTAL											
Infant mortality ^a	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3	5.5	6.2	5.5
Neonatal mortality ^a	3.4	4.1	3.5	3.6	3.5	3.9	3.4	3.5	3.8	4.1	3.8
Postneonatal mortality ^a	1.9	2.1	2.1	1.8	2.1	1.7	2.1	1.8	1.7	2.1	1.7
Percent postneonatal mortality ^b	35.3	33.4	37.8	33.7	37.7	30.4	38.1	34.4	31.2	34.2	31.2
URBAN COUNTIES											
Infant mortality ^a	5.2	6.1	5.3	5.2	5.4	5.5	5.2	5.1	5.5	6.0	5.4
Neonatal mortality ^a	3.3	4.0	3.3	3.5	3.4	3.8	3.3	3.4	3.9	4.0	3.8
Postneonatal mortality ^a	1.8	2.1	2.0	1.7	2.0	1.6	2.0	1.7	1.6	2.0	1.7
Percent postneonatal mortality ^b	35.1	34.1	37.4	32.5	36.6	29.9	37.8	34.0	29.9	33.3	31.0
RURAL COUNTIES											
Infant mortality ^a	5.8	6.6	7.3	5.6	6.9	6.2	6.5	6.1	5.6	7.6	6.0
Neonatal mortality ^a	3.7	4.5	4.4	3.1	3.7	4.1	4.0	3.7	3.4	4.6	4.1
Postneonatal mortality ^a	2.2	2.1	3.0	2.4	3.2	2.1	2.5	2.3	2.2	3.0	1.9
Percent postneonatal mortality ^b	37.3	31.6	40.5	43.8	46.7	33.3	38.8	38.3	40.0	39.2	31.0

Notes: ^a Rates per 1,000 live births; the U.S. rates are from the National Center for Health Statistics; ^b Total infant mortality = 100 percent; 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.

<https://www.cdc.gov/nchs/data/vsrr/vsrr037.pdf>

TABLE 2C-2
NUMBER AND RATES^a OF INFANT DEATHS BY RACE/ETHNICITY AND GENDER, ARIZONA, 2013-2023
NUMBER OF INFANT DEATHS

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
White non-Hispanic											
Total	161	213	181	146	166	160	151	148	144	175	145
Male	93	122	99	87	93	94	81	88	68	102	80
Female	68	91	82	59	73	66	70	60	76	73	65
Hispanic or Latino											
Total	185	216	189	203	173	187	170	149	181	196	197
Male	97	108	94	111	98	110	99	84	102	108	103
Female	88	108	95	92	74	76	71	65	79	88	94
Black or African American											
Total	59	53	48	50	49	43	58	59	62	56	44
Male	30	35	24	23	30	18	33	29	28	33	21
Female	29	18	24	27	19	25	25	30	32	23	23
American Indian or Alaska Native											
Total	36	45	39	42	46	44	31	33	22	37	29
Male	19	24	21	22	23	20	19	16	13	23	13
Female	17	21	18	20	23	23	12	17	9	14	16
Asian or Pacific Islander											
Total	10†	10†	10†	13	16	10†	20†	10†	10†	20†	13
Male	*	6	*	7	10	*	13	7	9	11	6
Female	*	*	9	6	6	*	*	*	*	*	7
All groups^b											
Total	447	535	473	454	461	447	430	404	430	483	430
Male	242	295	243	250	262	250	247	228	224	279	223
Female	205	240	230	204	198	195	183	176	204	204	207

INFANT MORTALITY RATES

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
White non-Hispanic											
Total	4.2	5.3	4.7	3.9	4.7	4.6	4.4	4.5	4.3	5.3	4.5
Male	4.7	5.9	5.0	4.5	5.1	5.2	4.6	5.2	3.9	6.1	4.9
Female	3.7	4.7	4.4	3.2	4.2	3.9	4.2	3.7	4.6	4.5	4.1
Hispanic or Latino											
Total	5.6	6.4	5.5	6.0	5.2	5.7	5.2	4.7	5.6	5.8	5.8
Male	5.7	6.2	5.4	6.4	5.8	6.5	6.0	5.2	6.2	6.3	5.9
Female	5.5	6.6	5.6	5.5	4.5	4.7	4.4	4.2	5.0	5.4	5.7
Black or African American											
Total	12.5	11.7	11.0	11.4	10.7	9.2	11.9	12.4	12.9	11.6	9.2
Male	12.3	14.9	10.7	10.3	12.6	7.9	13.1	12.0	11.7	13.4	8.5
Female	12.7	8.3	11.3	12.5	8.6	10.5	10.6	12.8	13.4	9.7	10.0
American Indian or Alaska Native											
Total	6.6	8.7	7.8	8.3	9.5	9.3	6.9	8.1	5.6	9.2	7.4
Male	6.7	9.4	8.3	8.7	9.2	8.2	8.3	7.6	6.5	11.4	6.5
Female	6.4	8.1	7.3	8.0	9.8	10.2	5.5	8.6	4.7	7.0	8.5
Asian or Pacific Islander											
Total	1.7	2.5	4.0	3.9	4.8	2.8	5.1	2.7	4.0	5.1	4.0
Male	**	3.7	**	4.0	5.9	**	7.9	4.6	5.7	7.0	3.6
Female	**	**	5.7	3.7	3.7	**	**	**	**	**	4.3
All groups^b											
Total	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3	5.5	6.2	5.5
Male	5.5	6.6	5.6	5.8	6.3	6.1	6.1	5.8	5.6	7.0	5.6
Female	5.0	5.7	5.5	4.9	4.9	5.0	4.7	4.7	5.4	5.3	5.4

Notes: * Cell suppressed due to count less than 6; ** Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; ^a Number 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; ^b Includes records with other and unknown ethnic group.

TABLE 2C-3
NUMBER AND RATES^a OF INFANT DEATHS BY RACE/ETHNICITY AND AGE GROUP, 2013-2023
NUMBER OF INFANT DEATHS

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
White non-Hispanic											
Total	161	213	181	146	166	160	151	148	144	175	145
Neonatal	97	138	108	92	106	116	92	99	90	112	93
Postneonatal	64	75	73	54	60	44	59	49	54	63	52
Hispanic or Latino											
Total	185	216	189	203	173	187	170	149	181	196	197
Neonatal	131	149	130	142	115	136	109	108	134	138	145
Postneonatal	54	67	59	61	58	51	61	41	47	58	52
Black or African American											
Total	59	53	48	50	49	43	58	59	62	56	44
Neonatal	38	34	25	33	30	39	27	36	44	39	28
Postneonatal	21	19	23	17	19	18	21	23	18	17	16
American Indian or Alaska Native											
Total	36	45	39	42	46	44	31	33	22	37	29
Neonatal	20	26	16	21	20	25	14	13	12	18	20
Postneonatal	16	19	23	21	26	19	17	20	10	19	9
Asian or Pacific Islander											
Total	10†	10†	10†	13	16	10†	20†	10†	10†	16	10†
Neonatal	*	7	12	13	7	*	11	*	9	10	10
Postneonatal	*	*	*	0	9	*	*	*	*	6	*
All groups^b											
Total	447	535	473	454	461	447	430	404	430	483	430
Neonatal	289	354	294	301	287	311	266	265	296	318	296
Postneonatal	158	181	179	153	174	136	164	139	134	165	134

INFANT MORTALITY RATES

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
White non-Hispanic											
Total	4.2	5.3	4.7	3.9	4.7	4.6	4.4	4.5	4.3	5.3	4.5
Neonatal	2.5	3.4	2.8	2.4	3.0	3.3	2.7	3.0	2.7	3.4	2.9
Postneonatal	1.7	1.9	1.9	1.4	1.7	1.3	1.7	1.5	1.6	1.9	1.6
Hispanic or Latino											
Total	5.6	6.4	5.5	6.0	5.2	5.7	5.2	4.7	5.6	5.8	5.8
Neonatal	4.0	4.4	3.8	4.2	3.5	4.1	3.3	3.4	4.2	4.1	4.3
Postneonatal	1.6	2.0	1.7	1.8	1.7	1.5	1.9	1.3	1.5	1.7	1.5
Black or African American											
Total	12.5	11.7	11.0	11.4	10.7	9.2	11.9	12.4	12.9	11.6	9.2
Neonatal	8.0	7.5	5.7	7.5	6.5	5.4	7.6	7.6	9.2	8.0	5.9
Postneonatal	4.4	4.2	5.3	3.9	4.1	3.9	4.3	4.8	3.8	3.5	3.4
American Indian or Alaska Native											
Total	6.6	8.7	7.8	8.3	9.5	9.3	6.9	8.1	5.6	9.2	7.4
Neonatal	3.7	5.1	3.2	4.2	4.1	5.3	3.1	3.2	3.1	4.5	5.1
Postneonatal	2.9	3.7	4.6	4.2	5.3	4.0	3.8	4.9	2.6	4.7	2.3
Asian or Pacific Islander											
Total	1.7	2.5	4.0	3.9	4.8	2.8	5.1	2.7	4.0	5.1	4.0
Neonatal	**	2.2	3.7	3.9	2.1	**	3.5	**	3.0	3.2	3.1
Postneonatal	**	**	**	0.0	2.7	**	**	**	**	1.9	**
All groups^b											
Total	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3	5.5	6.2	5.5
Neonatal	3.4	4.1	3.5	3.6	3.5	3.9	3.4	3.5	3.8	4.1	3.8
Postneonatal	1.9	2.1	2.1	1.8	2.1	1.7	2.1	1.8	1.7	2.1	1.7

Notes: * Cell suppressed due to count less than 6; ** Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; ^a Number 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; ^b Includes 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, 2023**

	NUMBER OF DEATHS BY AGE			MORTALITY RATES ^a		
	Total	Neonatal	Postneonatal	Total	Neonatal	Postneonatal
TOTAL, ALL GROUPS	430	296	134	5.5	3.8	1.7
Male	223	153	70	5.6	3.8	1.8
Female	207	143	64	5.4	3.8	1.7
White non-Hispanic	145	93	52	4.5	2.9	1.6
Male	80	48	32	4.9	3.0	2.0
Female	65	45	20	4.1	2.9	1.3
Hispanic or Latino	197	145	52	5.8	4.3	1.5
Male	103	76	27	5.9	4.4	1.6
Female	94	69	25	5.7	4.2	1.5
Black or African American	44	28	16	9.2	5.9	3.4
Male	21	14	7	8.5	5.7	2.8
Female	23	14	9	10.0	6.1	3.9
American Indian or Alaska Native	29	20	9	7.4	5.1	2.3
Male	10†	11	*	6.5	5.5	**
Female	16	9	7	8.5	4.8	3.7
Asian or Pacific Islander	10†	10	*	4.0	3.1	**
Male	10†	*	*	3.6	**	**
Female	10†	6	*	4.3	3.7	**

Notes: * Cell suppressed due to count less than 6; ** Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; ^a Number of deaths per 1,000 live births in specified gender group by mother's race/ethnicity; denominators are from Table 5B-8.

**TABLE 2C-5
NUMBER OF DEATHS FOR SELECTED LEADING CAUSES OF INFANT MORTALITY^a BY YEAR, ARIZONA, 2013-2023**

Causes of death	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Congenital malformations, deformations and chromosomal abnormalities	101	121	117	105	92	122	103	87	94	112	96
of brain, spinal cord or nervous system	13	24	20	14	18	17	12	12	14	13	14
of respiratory system	*	*	8	7	*	13	13	6	*	7	6
Short gestation and low birth weight	56	63	53	55	64	73	54	73	88	90	65
Maternal complications	28	39	39	28	31	21	23	20	17	18	24
Accidents (unintentional injuries)	14	27	29	16	23	13	20	17	31	30	19
Sudden infant death syndrome	14	13	15	7	14	14	17	13	13	14	10
Intrauterine hypoxia or birth asphyxia	6	9	*	6	11	*	6	11	7	11	10
Respiratory distress syndrome	*	*	*	*	6	*	*	8	8	8	8
COVID-19	-	-	-	-	-	-	-	0	*	*	*
Assault (homicide)	*	6	*	*	10	*	8	*	*	*	*
Influenza and pneumonia	*	*	*	*	*	*	*	*	*	*	*
Total, all causes	447	535	473	454	461	447	430	404	430	483	430

Notes: * Cell suppressed due to count less than 6; ^a 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 RATES^a FOR SELECTED LEADING CAUSES OF DEATH BY YEAR, ARIZONA, 2013-2023

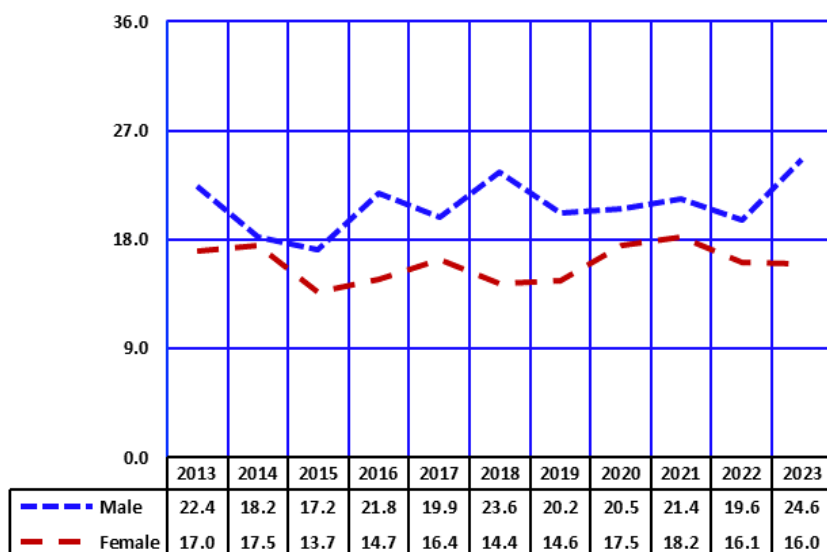
Causes of death	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Congenital malformations, deformations and chromosomal abnormalities	1.2	1.4	1.4	1.2	1.1	1.5	1.3	1.1	1.2	1.4	1.2
of brain, spinal cord or nervous system	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
of respiratory system	**	**	0.1	0.1	**	0.2	0.2	0.1	**	0.1	0.1
Short gestation and low birth weight	0.7	0.7	0.6	0.7	0.8	0.9	0.7	1.0	1.1	1.1	0.8
Maternal complications	0.3	0.5	0.5	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.3
Accidents (unintentional injuries)	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.4	0.4	0.2
Sudden infant death syndrome	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
Intrauterine hypoxia or birth asphyxia	0.1	0.1	**	0.1	0.1	**	0.1	0.1	0.1	0.1	0.1
Respiratory distress syndrome	**	**	**	**	0.1	**	**	0.1	0.1	0.1	0.1
COVID-19	-	-	-	-	-	-	-	0.0	**	**	**
Assault (homicide)	**	0.1	**	**	0.1	**	0.1	**	**	**	**
Influenza and pneumonia	**	**	**	**	**	**	**	**	**	**	**
Total, all causes	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3	5.5	6.2	5.5

Notes: ** Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; ^a Number of infant deaths per 1,000 live births; 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).

2C.AGE-SPECIFIC MORTALITY

Childhood mortality (ages 1-14 years)

Figure 2C-5
Mortality Rates^a by Gender and Year among Children 1-14 Years,
Arizona, 2013-2023

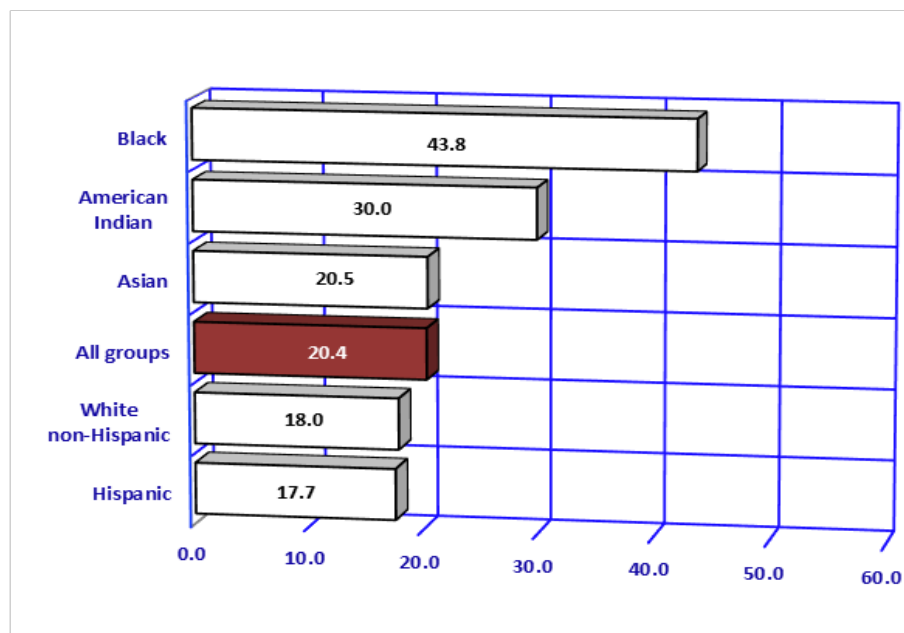


In 2023, a total of 265 deaths were recorded among 1,297,780 children aged 1-14 years residing in Arizona. The 2023 childhood mortality rate was 20.4 per 100,000, representing an increase from 17.9 in 2022 (**Table 2C-7**). Between 2022 and 2023 the mortality rate for male children increased and female children decreased minimally (**Figure 2C-5, Table 2C-7**).

The five causes with the greatest mortality rates in childhood from 2013-2023 were *accidents* (unintentional injuries), *malignant neoplasms*, *congenital malformations*, *homicide*, and *suicide* (**Table 2C-7**).

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

Figure 2C-6
Mortality Rates^a by Race/Ethnicity among Children 1-14 Years,
Arizona, 2023



Black or African American children had the highest total mortality rate (43.8 deaths per 100,000) in 2023, followed by American Indian or Alaska Native children (30.0/100,000), and Asian or Pacific Islander children (20.5/100,000 **Figure 2C-6**). The mortality rates of White non-Hispanic, and Hispanic or Latino children were lower than the average rate for all groups.

It is important to note that the mortality rate of Asians is based on a very low death count (n=10) (**Table 2C-10**) thus not statistically reliable.

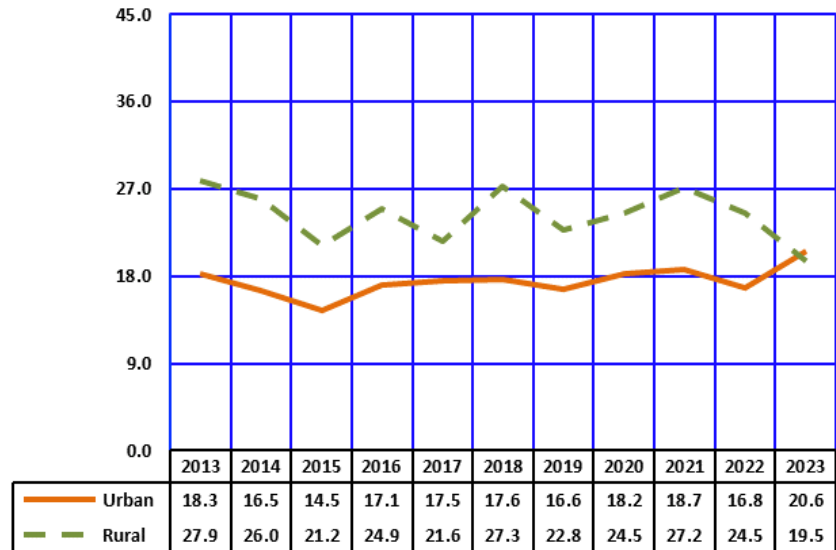
In 2023, there were 90 children who died from accidents (unintentional injuries) and 26 cancer (**Table 2C-10**).

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

2C.AGE-SPECIFIC MORTALITY

Childhood mortality (ages 1-14 years)

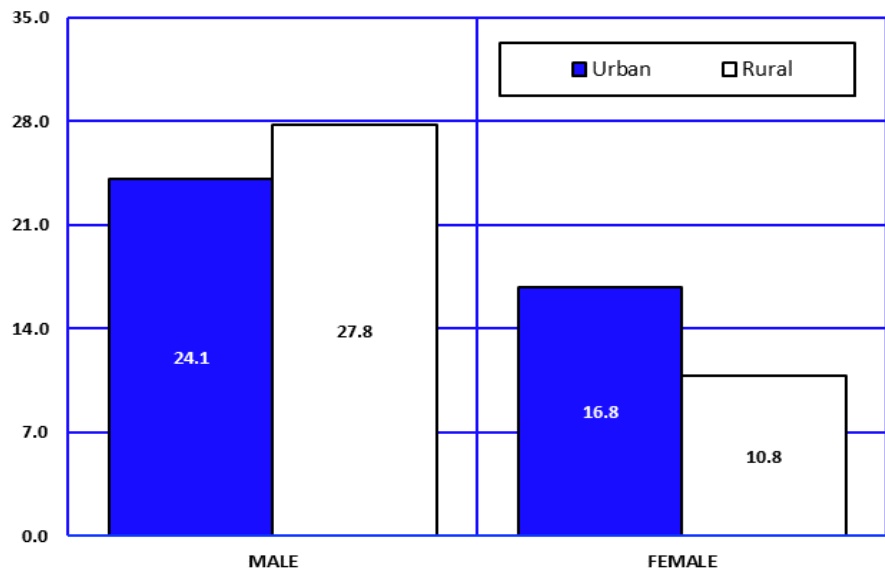
Figure 2C-7
Mortality Rates^a by Urban/Rural Area^b and Year among Children 1-14 Years, Arizona, 2013-2023



From 2022 to 2023, mortality rates decreased for rural children, but increased for urban children (**Figure 2C-7, Table 2C-8**). Between 2013 and 2023, urban childhood mortality rates have generally been lower than rural childhood mortality rates in each year except for 2023.

Notes: ^a Number of deaths per 100,000 persons, 1-14 years old in specified group; ^b Urban counties are Maricopa, Pima, Pinal, and Yuma Counties. Rural counties are those remaining.

Figure 2C-8
Mortality Rates^a by Gender in Urban/Rural^b Areas among Children 1-14 Years, Arizona, 2023



The overall mortality rate among children 1-14 years residing in Arizona was higher for males in rural areas compared to urban with 27.8 deaths per 100,000 persons aged 1-14 years in rural areas versus 24.1 deaths per 100,000 persons aged 1-14 years in urban areas. Contrastingly, the mortality rate for females 1-14 years was opposite with 10.8 deaths per 100,000 persons aged 1-14 years in rural areas compared to 16.8 deaths per 100,000 persons aged 1-14 years in urban areas.

Notes: ^a Number of deaths per 100,000 persons, 1-14 years old in specified group; ^b Urban counties include Maricopa, Pima, Pinal, and Yuma Counties. Rural counties are those remaining.

TABLE 2C-7
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES^b OF DEATH AMONG CHILDREN (1-14 YEARS)
BY GENDER, ARIZONA, 2013-2023

Gender/Cause	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
MALE												
Accidents (unintentional injuries)	8.6	6.5	5.7	7.0	6.8	8.4	5.0	6.7	7.5	7.5	8.8	2.3
Other	2.3	1.9	1.9	0.6	1.5	2.0	1.4	1.1	2.0	1.4	3.6	56.5
Motor vehicle accidents	4.5	2.5	2.0	4.0	2.9	3.2	2.9	3.4	3.0	3.5	3.0	-33.3
Drowning	1.8	2.2	1.9	2.3	2.3	3.2	0.8	2.2	2.5	2.6	2.1	16.7
Malignant neoplasms	2.5	1.7	1.7	1.6	2.3	2.3	3.1	2.0	1.9	1.4	2.0	-20.0
Congenital malformations	0.9	0.9	0.9	1.1	0.9	1.2	1.5	1.1	1.2	1.7	1.7	88.9
Assault (homicide)	1.4	0.9	1.2	0.9	0.6	0.5	1.8	1.7	1.4	1.1	1.4	0.0
Intentional self-harm (suicide)	0.6	1.1	1.1	0.8	1.7	2.0	1.4	1.7	1.2	1.1	0.9	50.0
ALL CAUSES	22.4	18.2	17.2	21.8	19.9	23.6	20.2	20.5	21.4	19.6	24.6	9.8
(Number of all deaths)	(146)	(118)	(111)	(140)	(129)	(154)	(132)	(132)	(137)	(128)	(163)	11.6
FEMALE												
Accidents (unintentional injuries)	4.5	3.7	4.3	4.5	5.1	3.3	4.1	5.3	7.0	4.8	5.0	11.1
Motor vehicle accidents	2.6	2.6	1.9	2.7	2.2	2.4	2.1	2.9	2.9	2.9	2.2	-15.4
Other	0.6	0.6	1.8	1.0	1.6	0.5	1.4	1.5	1.9	1.0	1.7	183.3
Drowning	1.3	0.5	0.6	0.8	1.3	0.5	0.6	1.0	2.1	1.0	1.1	-15.4
Malignant neoplasms	2.1	2.9	0.5	1.3	2.4	2.6	2.1	1.9	1.8	1.9	2.0	-4.8
Assault (homicide)	1.6	1.3	1.3	1.3	1.0	1.3	1.1	1.3	0.8	1.3	0.6	-62.5
Congenital malformations	2.4	1.3	2.1	0.6	1.1	1.3	1.0	1.8	1.5	1.1	0.5	-79.2
Influenza and pneumonia	0.2	0.2	0.2	0.2	0.3	0.3	0.0	0.2	0.2	0.6	0.3	50.0
ALL CAUSES	17.0	17.5	13.7	14.7	16.4	14.4	14.6	17.5	18.2	16.1	16.0	-5.9
(Number of all deaths)	(106)	(109)	(85)	(91)	(102)	(90)	(92)	(108)	(112)	(101)	(102)	(-3.8)
TOTAL												
Accidents (unintentional injuries)	6.6	5.1	5.0	5.8	6.0	5.9	4.6	6.0	7.2	6.2	6.9	4.5
Other	1.5	1.3	1.8	0.8	1.6	1.3	1.4	1.3	2.0	1.2	2.7	80.0
Motor vehicle accidents	3.5	2.5	2.0	3.4	2.6	2.8	2.5	3.2	2.9	3.2	2.6	-25.7
Drowning	1.6	1.3	1.3	1.6	1.8	1.9	0.7	1.6	2.3	1.8	1.6	0.0
Malignant neoplasms	2.3	2.3	1.1	1.4	2.4	2.4	2.6	2.0	1.8	1.6	2.0	-13.0
Congenital malformations	1.6	1.1	1.5	0.9	1.0	1.3	1.2	1.4	1.4	1.4	1.1	-31.3
Assault (homicide)	1.5	1.1	1.3	1.1	0.8	0.9	1.5	1.5	1.1	1.2	1.0	-33.3
Intentional self-harm (suicide)	0.6	0.9	0.9	0.7	1.3	1.3	1.2	1.3	1.3	0.7	0.9	50.0
ALL CAUSES	19.8	17.9	15.4	18.3	18.2	19.1	17.5	19.1	19.8	17.9	20.4	3.0
(Number of all deaths)	(252)	(227)	(196)	(231)	(231)	(244)	(224)	(240)	(249)	(229)	(265)	5.2

Notes: ^a Number of deaths per 100,000 children 1-14 years old; ^b The five causes with the greatest number of deaths over the 2013-2023 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2013-2023 are classified by ICD-10, replacing the Ninth Revision (ICD-9); 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**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2013-2019 and making it impossible to show a trend and a percent change.

TABLE 2C-8
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES^b OF DEATH AMONG CHILDREN (1-14 YEARS)
IN URBAN AND RURAL AREAS^c, ARIZONA, 2013-2023

Area/Cause	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
URBAN												
Accidents (unintentional injuries)	5.5	4.5	4.3	5.0	5.8	5.4	4.1	6.0	6.3	5.9	6.6	20.0
Motor vehicle accidents	2.6	2.0	1.7	2.6	2.1	2.1	2.1	2.7	2.2	2.8	2.4	-7.7
Other	1.1	1.1	1.4	0.6	1.6	1.4	1.3	1.5	1.8	1.1	2.4	118.2
Drowning	1.8	1.4	1.2	1.8	2.1	2.0	0.7	1.8	2.3	2.0	1.8	0.0
Malignant neoplasms	2.4	2.3	1.1	1.4	2.5	2.5	2.5	2.0	1.8	1.4	2.2	-8.3
Congenital malformations	1.8	1.0	1.5	0.9	1.0	1.4	1.3	1.6	1.3	1.4	1.0	-44.4
Diseases of heart	0.3	0.3	0.3	0.5	0.2	0.5	0.3	0.5	0.4	0.5	1.0	233.3
Assault (homicide)	1.5	1.0	1.2	1.1	0.6	0.7	1.6	1.3	1.3	1.1	0.9	-40.0
ALL CAUSES	18.3	16.5	14.5	17.1	17.5	17.6	16.6	18.2	18.7	16.8	20.6	12.6
(Number of all deaths)	(200)	(180)	(158)	(186)	(192)	(194)	(184)	(199)	(204)	(186)	(232)	16.0
RURAL												
Accidents (unintentional injuries)	12.6	8.9	9.5	10.8	6.8	8.5	8.0	6.0	13.3	7.2	9.5	-24.6
Other	3.8	2.2	4.5	2.3	1.7	0.0	2.3	0.0	3.0	1.8	4.7	23.7
Motor vehicle accidents	8.7	5.5	3.3	8.5	5.1	7.4	5.1	6.0	7.9	4.8	4.1	-52.9
Drowning	0.0	1.1	1.7	0.0	0.0	1.1	0.6	0.0	2.4	0.6	0.6	
Assault (homicide)	1.6	1.7	1.7	1.1	1.7	1.7	0.6	3.0	0.0	1.8	1.8	12.5
Congenital malformations	0.5	1.7	1.7	0.6	1.1	0.0	1.1	0.6	1.8	1.2	1.8	260.0
Malignant neoplasms	1.6	2.2	1.1	1.7	1.7	1.7	2.8	1.8	1.8	3.0	0.6	-62.5
Intentional self-harm (suicide)	1.6	2.2	2.8	1.7	4.0	3.4	2.3	3.0	3.0	1.2	0.0	-100.0
ALL CAUSES	27.9	26.0	21.2	24.9	21.6	27.3	22.8	24.5	27.2	24.5	19.5	-30.1
(Number of all deaths)	(51)	(47)	(38)	(44)	(38)	(48)	(40)	(41)	(45)	(41)	(33)	(-35.3)
TOTAL												
Accidents (unintentional injuries)	6.6	5.1	5.0	5.8	6.0	5.9	4.6	6.0	7.2	6.2	6.9	4.5
Other	1.5	1.3	1.8	0.8	1.6	1.3	1.4	1.3	2.0	1.2	2.7	80.0
Motor vehicle accidents	3.5	2.5	2.0	3.4	2.6	2.8	2.5	3.2	2.9	3.2	2.6	-25.7
Drowning	1.6	1.3	1.3	1.6	1.8	1.9	0.7	1.6	2.3	1.8	1.6	0.0
Malignant neoplasms	2.3	2.3	1.1	1.4	2.4	2.4	2.6	2.0	1.8	1.6	2.0	-13.0
Congenital malformations	1.6	1.1	1.5	0.9	1.0	1.3	1.2	1.4	1.4	1.4	1.1	-31.3
Assault (homicide)	1.5	1.1	1.3	1.1	0.8	0.9	1.5	1.5	1.1	1.2	1.0	-33.3
Intentional self-harm (suicide)	0.6	0.9	0.9	0.7	1.3	1.3	1.2	1.3	1.3	0.7	0.9	50.0
ALL CAUSES	19.8	17.9	15.4	18.3	18.2	19.1	17.5	19.1	19.8	17.9	20.4	3.0
(Number of all deaths)	(252)	(227)	(196)	(231)	(231)	(244)	(224)	(240)	(249)	(229)	(265)	5.2

Notes: ^a Number of deaths per 100,000 children 1-14 years old; ^b The five causes with the greatest number of deaths over the 2013-2023 period; ^c Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; 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 2013-2023 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**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2013-2019 and making it impossible to show a trend and a percent change.

TABLE 2C-9
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES OF DEATH AMONG CHILDREN (1-14 YEARS)
BY GENDER IN URBAN AND RURAL AREAS^b, ARIZONA, 2013-2023

Area/Gender	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
URBAN												
Male	21.3	16.2	16.2	19.9	18.4	22.2	19.6	19.4	19.6	18.2	24.1	13.1
Female	15.2	16.8	12.7	14.3	16.6	12.8	13.5	17.0	17.8	15.3	16.8	10.5
TOTAL	18.3	16.5	14.5	17.1	17.5	17.6	16.6	18.2	18.7	16.8	20.6	12.6
RURAL												
Male	29.0	30.5	23.1	33.5	27.9	32.5	23.5	28.2	33.2	28.1	27.8	-4.1
Female	26.6	21.3	19.3	16.1	15.0	21.9	22.1	20.7	20.9	20.7	10.8	-59.4
TOTAL	27.9	26.0	21.2	24.9	21.6	27.3	22.8	24.5	27.2	24.5	19.5	-30.1
TOTAL												
Male	22.4	18.2	17.2	21.8	19.9	23.6	20.2	20.5	21.4	19.6	24.6	9.8
Female	17.0	17.5	13.7	14.7	16.4	14.4	14.6	17.5	18.2	16.1	16.0	-5.9
TOTAL	19.8	17.9	15.4	18.3	18.2	19.1	17.5	19.1	19.8	17.9	20.4	3.0

Notes: ^a Rates are presented per 100,000 children 1-14 years old; ^b 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-10
LEADING CAUSES OF DEATH AMONG CHILDREN (1-14 YEARS) BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2023**

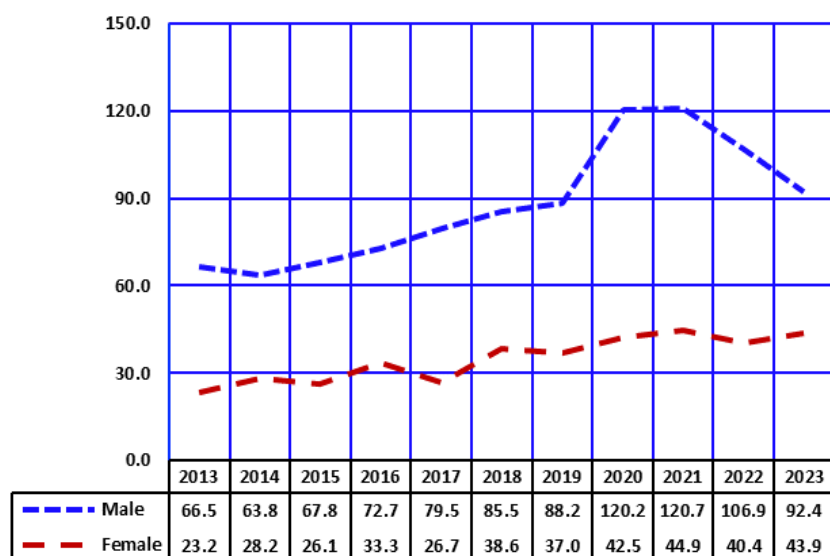
Cause of death	Total	Gender		Area ^a		Race/ethnicity					
		Male	Female	Urban	Rural	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or other Pacific Islander	Unknown
Accidents (unintentional injury)	90†	58	32	74	16	38	31	11	6	*	0
Motor vehicle accidents	30†	20	14	27	7	*	17	6	*	*	0
Accidental drowning and submersion	20†	14	7	20	*	13	*	*	*	0	0
Malignant neoplasms	30†	13	13	25	*	7	14	*	0	0	0
Leukemia	10†	*	*	6	0	*	*	*	0	0	0
Congenital malformations	10†	11	*	11	*	*	6	*	*	0	0
Assault (homicide)	10†	9	*	10	*	*	*	*	*	0	0
By discharge of firearms	10†	6	*	7	*	*	*	*	*	0	0
By other means	0†	*	*	*	*	*	*	*	*	0	0
Intentional self-harm (suicide)	10†	6	6	12	0	6	*	*	0	0	0
Influenza and pneumonia	0†	*	*	*	*	*	*	0	0	0	0
Chronic lower respiratory diseases	0†	*	0	*	0	*	*	*	0	0	0
Asthma	0†	*	0	*	0	*	0	*	0	0	0
COVID-19	0†	*	0	*	*	0	*	0	*	0	0
Total, all causes	265	163	102	232	33	93	103	37	19	10	3

Notes: * Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; ^a Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas.

2C.AGE-SPECIFIC MORTALITY

Adolescent mortality (ages 15-19 years)

Figure 2C-9
Mortality Rates^a by Gender and Year among Adolescents 15-19 Years, Arizona, 2013-2023

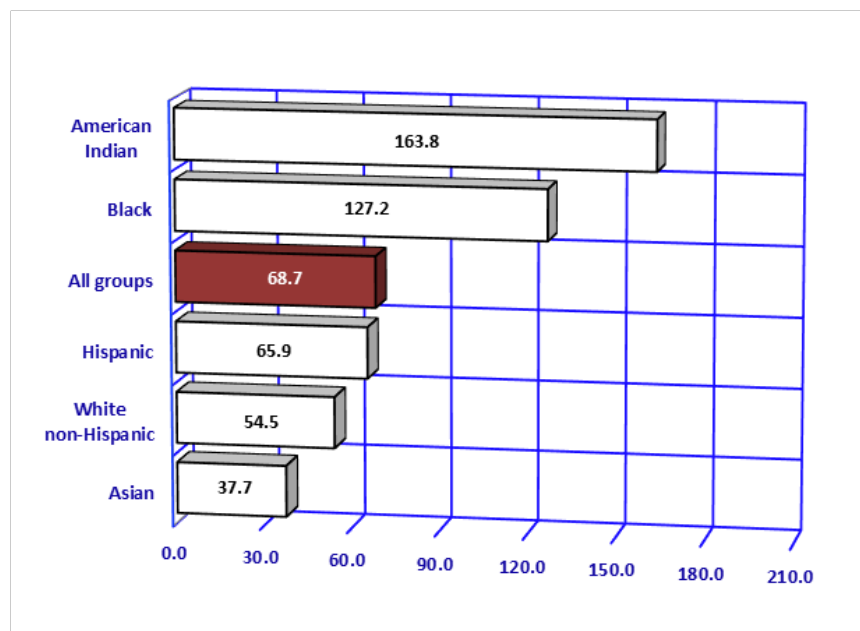


Adolescence refers to individuals between the ages of 15 and 19, an important developmental period marking the transition from childhood to adulthood. In 2023, an estimated 488,877 adolescents resided in Arizona, comprising 6.5 percent of the State's population (**Table 10A-1**). The lives of 336 resident adolescents prematurely ended in 2023, resulting in a total mortality rate of 68.7 deaths per 100,000 adolescents. This mortality rate was 51.0 percent higher than the 2013 rate (**Table 2C-11**).

The likelihood of dying was approximately 2.10 times higher for adolescent boys than for adolescent girls in 2023 (**Figure 2C-9, Table 2C-11**).

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

Figure 2C-10
Mortality Rates^a by Race/Ethnicity among Adolescents 15-19 Years, Arizona, 2023



Note: ^a 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 2013-2023 period were *accidents (unintentional injuries)*, *assault (homicide)*, *intentional self-harm (suicide)*, *malignant neoplasms*, and *diseases of heart* (**Table 2C-14**).

In 2023, adolescents who were Asian, White non-Hispanic, or Hispanic had greater survival chances than the state average for all adolescents. American Indian had the lowest survival chances of all racial/ethnic groups (**Figure 2C-10**).

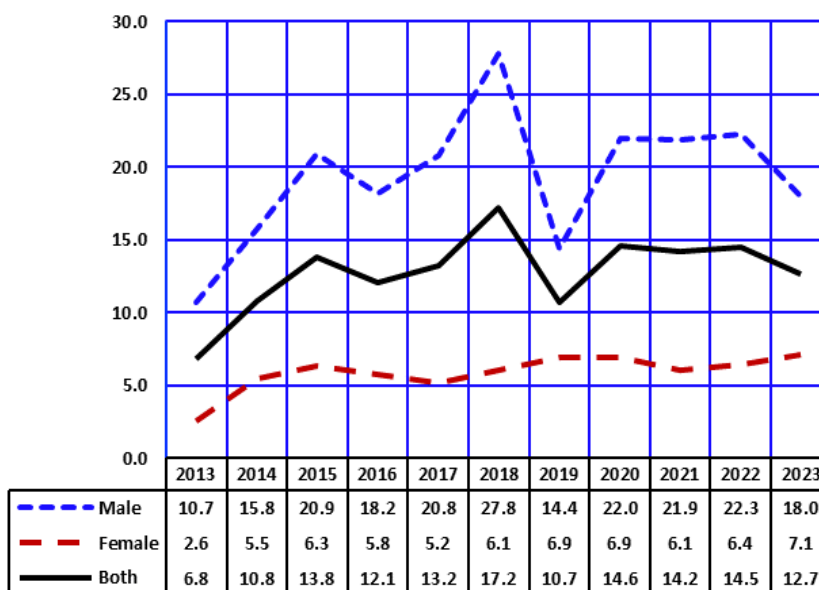
2C.AGE-SPECIFIC MORTALITY

Adolescent mortality (ages 15-19 years)

Figure 2C-11
Suicide Rates^a by Gender and Year among Adolescents 15-19 Years, Arizona, 2013-2023

In 2023, sixty-two suicide deaths were recorded among Arizonans age 15-19 years, a decrease from 70 recorded in 2022 (**Table 2C-14**). In 2023, as in prior years, male adolescents accounted for the absolute majority (72.6 percent) of completed suicides.

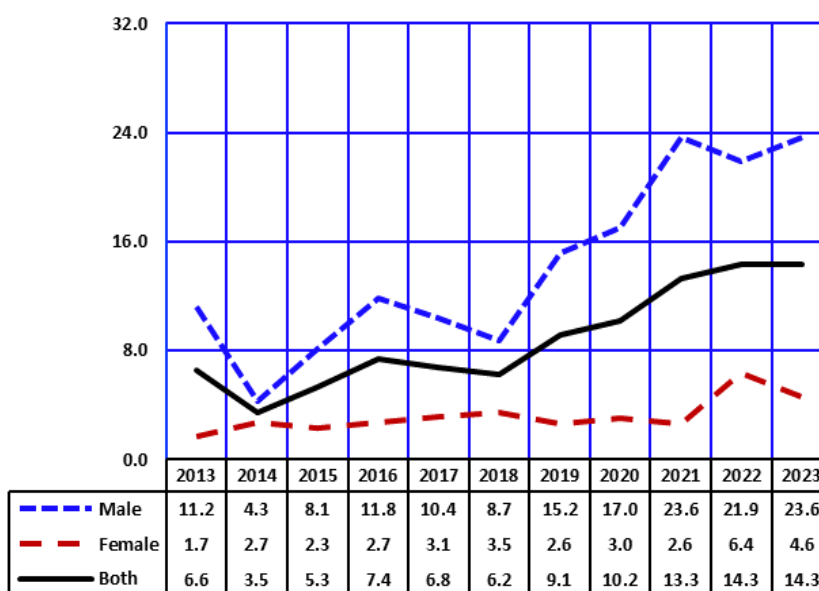
The suicide rate in 2013 was the lowest recorded since at least 1990 (**Figure 2C-11, Table 2C-11**). Between 2013 and 2023, the adolescent male suicide rate (18.0/100,000) increased 68.2 percent, and the adolescent female suicide rate (7.1/100,000) also increased by 173.1 percent. The male to female ratio in suicide mortality rates decreased from 4.1:1 in 2013 to 2.5:1 in 2023. In other words, male adolescents were almost 2.5 times more likely to kill themselves than female adolescents in 2023, compared to 4.1 times in 2013.



Note: ^a Number of suicide deaths per 100,000 persons, 15 - 19 years old in specified group.

Figure 2C-12
Homicide Rates^a by Gender and Year among Adolescents 15-19 Years, Arizona, 2013-2023

During the 11-year period, from 2013 to 2023, the overall adolescent mortality rate due to homicide increased by 116.7 percent. However, there were some gender differences in homicide rates, marked by an increase of 110.7 percent among adolescent males and 170.6 percent among their female counterparts (**Figure 2C-12, Table 2C-11**). From 2022 to 2023, the overall mortality rate of adolescent homicide deaths did not change. Looking at gender specific homicide mortality, there was an increase of 7.8 percent for males and a 28.1 percent decrease for females in the 2023-2022 period.



Note: ^a Number of homicide deaths per 100,000 persons, 15 - 19 years old in specified group.

**TABLE 2C-11
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES^b OF DEATH AMONG ADOLESCENTS (15-19 YEARS)
BY GENDER, ARIZONA, 2013-2023**

Gender/Cause	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
MALE												
Accidents (unintentional injuries)	28.1	22.3	20.9	27.9	33.3	32.4	42.0	58.0	55.4	41.9	33.2	18.1
Motor vehicle accidents	15.3	15.0	12.8	13.1	15.4	13.3	16.1	20.3	26.4	24.0	20.0	30.7
Other	12.8	7.3	8.1	14.8	17.9	19.1	26.0	37.7	28.9	17.9	13.2	3.1
Assault (homicide)	11.2	4.3	8.1	11.8	10.4	8.7	15.2	17.0	23.6	21.9	23.6	110.7
Intentional self-harm (suicide)	10.7	15.8	20.9	18.2	20.8	27.8	14.4	22.0	21.9	22.3	18.0	68.2
Malignant neoplasms	2.5	2.6	3.8	2.5	2.1	2.5	4.1	3.7	3.7	5.3	2.4	-4.0
Diseases of heart	0.4	1.3	0.4	0.0	0.8	1.7	0.4	2.1	0.8	1.6	1.2	200.0
ALL CAUSES	66.5	63.8	67.8	72.7	79.5	85.5	88.2	120.2	120.7	106.9	92.4	38.9
(Number of all deaths)	(161)	(149)	(159)	(172)	(191)	(206)	(214)	(290)	(292)	(263)	(231)	43.5
FEMALE												
Accidents (unintentional injuries)	7.9	7.7	9.0	15.5	11.8	20.8	18.1	19.1	19.9	16.6	20.5	159.5
Motor vehicle accidents	6.1	5.0	6.3	11.5	8.3	13.0	10.8	9.1	9.9	8.1	12.6	106.6
Other	1.7	2.7	2.7	4.0	3.5	7.8	7.3	10.0	9.9	8.5	8.0	370.6
Intentional self-harm (suicide)	2.6	5.5	6.3	5.8	5.2	6.1	6.9	6.9	6.1	6.4	7.1	173.1
Assault (homicide)	1.7	2.7	2.3	2.7	3.1	3.5	2.6	3.0	2.6	6.4	4.6	170.6
Malignant neoplasms	3.5	4.1	2.7	2.2	1.3	0.9	3.9	0.9	2.2	3.4	3.3	-5.7
Diseases of heart	0.9	0.9	0.9	1.8	0.9	0.9	0.4	1.7	0.9	0.9	0.0	-100.0
ALL CAUSES	23.2	28.2	26.1	33.3	26.7	38.6	37.0	42.5	44.9	40.4	43.9	89.2
(Number of all deaths)	(53)	(62)	(58)	(75)	(61)	(89)	(86)	(98)	(104)	(95)	(105)	98.1
TOTAL												
Accidents (unintentional injuries)	18.3	15.2	15.1	21.9	22.8	26.7	30.3	39.0	38.0	29.5	27.0	47.5
Motor vehicle accidents	10.8	10.1	9.6	12.3	11.9	13.2	13.5	14.8	18.4	16.2	16.4	51.9
Other	7.4	5.1	5.5	9.5	10.9	13.6	16.8	24.2	19.6	13.3	10.6	43.2
Assault (homicide)	6.6	3.5	5.3	7.4	6.8	6.2	9.1	10.2	13.3	14.3	14.3	116.7
Intentional self-harm (suicide)	6.8	10.8	13.8	12.1	13.2	17.2	10.7	14.6	14.2	14.5	12.7	86.8
Malignant neoplasms	3.0	3.3	3.3	2.4	1.7	1.7	4.0	2.3	3.0	4.4	2.9	-3.3
Diseases of heart	0.6	1.1	0.7	0.9	0.9	1.3	0.4	1.9	0.8	1.2	0.6	0.0
ALL CAUSES	45.5	46.5	47.5	53.5	53.7	62.6	63.2	82.3	83.7	74.4	68.7	51.0
(Number of all deaths)	(214)	(211)	(217)	(247)	(252)	(295)	(300)	(388)	(396)	(358)	(336)	57.0

Notes: ^a Number of deaths per 100,000 adolescents 15-19 years old; ^b The five causes with the greatest number of deaths over the 2013-2023 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2013-2023 are classified by ICD-10, replacing the Ninth Revision (ICD-9); 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**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2013-2019 and making it impossible to show a trend and a percent change.

TABLE 2C-12
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES^b OF DEATH AMONG ADOLESCENTS (15-19 YEARS)
IN URBAN AND RURAL AREAS^c, ARIZONA, 2013-2023

Area/Cause	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
URBAN												
Accidents (unintentional injuries)	15.8	12.5	13.4	20.4	19.6	25.9	31.1	39.0	37.8	29.7	25.4	60.8
Motor vehicle accidents	9.3	8.9	8.5	12.2	9.3	12.2	12.8	13.6	17.4	16.4	14.7	58.1
Other	6.5	3.7	4.9	8.2	10.3	13.7	18.2	25.4	20.4	13.3	10.7	64.6
Assault (homicide)	6.8	3.7	5.9	7.9	7.8	6.5	10.1	10.9	14.7	16.4	15.2	123.5
Intentional self-harm (suicide)	5.0	9.6	12.7	11.2	11.5	12.4	9.9	12.3	12.3	13.7	10.7	114.0
Malignant neoplasms	3.5	3.7	2.8	2.8	1.8	1.7	4.4	2.7	2.7	4.8	2.6	-25.7
Diseases of heart	0.5	1.3	0.5	0.8	1.0	1.0	0.5	2.2	0.7	1.2	0.7	40.0
ALL CAUSES	42.4	42.5	44.2	50.7	49.9	57.2	65.6	80.0	82.7	75.7	65.9	55.4
(Number of all deaths)	(169)	(163)	(171)	(199)	(199)	(230)	(266)	(324)	(337)	(314)	(278)	64.5
RURAL												
Accidents (unintentional injuries)	31.8	29.9	24.5	30.3	39.9	30.2	24.5	37.7	34.9	28.5	37.1	16.7
Motor vehicle accidents	19.3	17.1	15.8	13.0	25.6	18.7	17.3	22.6	21.3	15.0	26.7	38.3
Other	12.4	12.8	8.6	17.3	14.2	11.5	7.2	15.1	13.7	13.5	10.4	-16.1
Intentional self-harm (suicide)	16.6	17.1	20.2	17.3	22.8	44.5	15.9	28.6	25.8	19.5	25.3	52.4
Assault (homicide)	5.5	2.9	1.4	2.9	1.4	4.3	2.9	6.0	4.6	1.5	8.9	61.8
Malignant neoplasms	0.0	1.4	5.8	0.0	1.4	1.4	1.4	0.0	4.6	1.5	4.5	
Diseases of heart	0.0	0.0	1.4	1.4	0.0	2.9	0.0	0.0	0.0	1.5	0.0	
ALL CAUSES	62.1	68.4	66.2	66.4	74.1	91.9	47.6	93.5	82.0	66.0	84.7	36.4
(Number of all deaths)	(45)	(48)	(46)	(46)	(52)	(64)	(33)	(62)	(54)	(44)	(57)	26.7
TOTAL												
Accidents (unintentional injuries)	18.3	15.2	15.1	21.9	22.8	26.7	30.3	39.0	38.0	29.5	27.0	47.5
Motor vehicle accidents	10.8	10.1	9.6	12.3	11.9	13.2	13.5	14.8	18.4	16.2	16.4	51.9
Other	7.4	5.1	5.5	9.5	10.9	13.6	16.8	24.2	19.6	13.3	10.6	43.2
Assault (homicide)	6.6	3.5	5.3	7.4	6.8	6.2	9.1	10.2	13.3	14.3	14.3	116.7
Intentional self-harm (suicide)	6.8	10.8	13.8	12.1	13.2	17.2	10.7	14.6	14.2	14.5	12.7	86.8
Malignant neoplasms	3.0	3.3	3.3	2.4	1.7	1.7	4.0	2.3	3.0	4.4	2.9	-3.3
Diseases of heart	0.6	1.1	0.7	0.9	0.9	1.3	0.4	1.9	0.8	1.2	0.6	0.0
ALL CAUSES	45.5	46.5	47.5	53.5	53.7	62.6	63.2	82.3	83.7	74.4	68.7	51.0
(Number of all deaths)	(214)	(211)	(217)	(247)	(252)	(295)	(300)	(388)	(396)	(358)	(336)	57.0

Notes: ^a Number of deaths per 100,000 adolescents 15-19 years old; ^b The five causes with the greatest number of deaths over the 2013-2023 period; ^c Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; 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 2013-2023 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**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2013-2019 and making it impossible to show a trend and a percent change.

TABLE 2C-13
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES OF DEATH AMONG ADOLESCENTS (15-19 YEARS)
BY GENDER IN URBAN AND RURAL AREAS^b, ARIZONA, 2013-2023

Area/Gender	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
URBAN												
Male	62.0	59.8	60.8	69.6	73.9	78.3	93.0	118.1	120.9	109.4	90.9	46.6
Female	21.7	24.2	26.6	30.9	24.7	35.2	36.9	40.0	42.7	40.5	39.8	83.4
TOTAL	42.4	42.5	44.2	50.7	49.9	57.2	65.6	80.0	82.7	75.7	65.9	55.4
RURAL												
Male	91.4	85.8	106.8	84.9	111.6	124.4	56.9	130.8	110.2	91.3	99.1	8.4
Female	31.2	50.0	23.6	47.1	34.9	58.4	38.0	55.0	52.7	39.8	69.7	123.4
TOTAL	62.1	68.4	66.2	66.4	74.1	91.9	47.6	93.5	82.0	66.0	84.7	36.4
TOTAL												
Male	66.5	63.8	67.8	72.7	79.5	85.5	88.2	120.2	120.7	106.9	92.4	38.9
Female	23.2	28.2	26.1	33.3	26.7	38.6	37.0	42.5	44.9	40.4	43.9	89.2
TOTAL	45.5	46.5	47.5	53.5	53.7	62.6	63.2	82.3	83.7	74.4	68.7	51.0

Notes: ^a Rates are presented per 100,000 children 15-19 years old; ^b Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; 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, 2023**

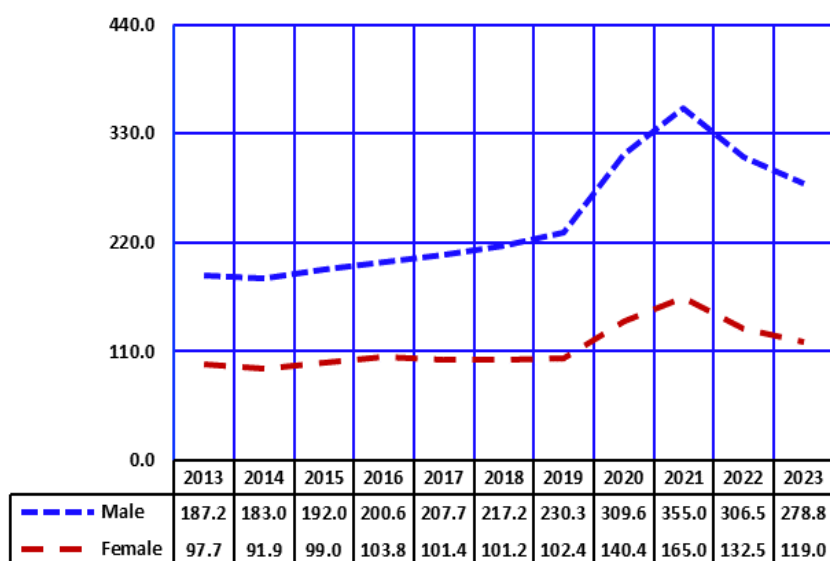
Cause of death	Total	Gender		Area ^a			Race/ethnicity					
		Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Unknown
Accidents (unintentional injury)	130 [†]	83	49	107	25	0	54	46	11	16	*	*
Motor vehicle accidents	80 [†]	50	30	62	18	0	37	27	*	7	*	*
Accidental poisoning	40 [†]	27	12	33	6	0	14	14	*	8	*	0
Accidental drowning and submersion	10 [†]	*	*	6	0	0	*	*	*	0	0	0
Assault (homicide)	70 [†]	59	11	64	6	0	8	42	14	*	*	0
By discharge of firearms	70 [†]	56	11	62	*	0	6	42	14	*	*	0
By other means	0 [†]	*	0	*	*	0	*	0	0	*	0	0
Intentional self-harm (suicide)	62	45	17	45	17	0	23	20	6	13	0	0
By other means	30 [†]	15	16	18	13	0	9	11	*	10	0	0
By discharge of firearms	30 [†]	30	*	27	*	0	14	9	*	*	0	0
Malignant neoplasms	10 [†]	6	8	11	*	0	6	7	0	*	0	0
Events of undetermined intent	10 [†]	7	*	7	*	0	*	*	*	0	0	0
Diseases of the heart	0 [†]	*	0	*	0	0	*	*	0	0	0	0
Total, all causes^b	336	231	105	278	57	1	112	140	37	38	7	2

Notes: * Cell suppressed due to count less than 6; [†] Sum rounded to nearest tens unit due to addend less than 6; ^a 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; ^b 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^a by Gender and Year among Young Adults 20-44 Years, Arizona, 2013-2023

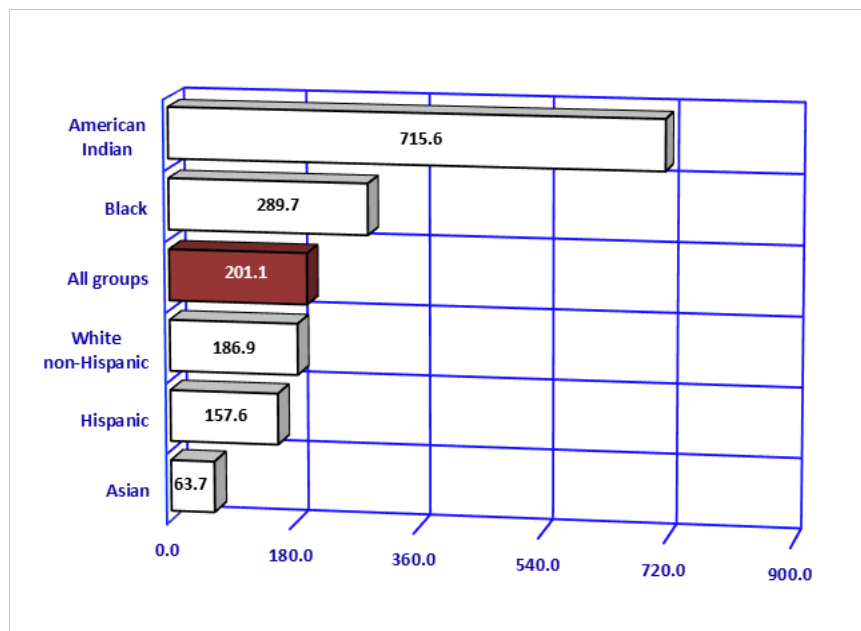


In 2023, 33.0 percent of Arizona residents were between 20 and 44 years of age. Among the six developmental periods examined in the life span, young adulthood, with an estimated 2.5 million individuals, easily represented the largest segment of the population. However, only 7.2 percent of all deaths occurred during young adulthood.

In each year from 2013 to 2023 period, males aged 20-44 years died at a higher rate than females. During the same period, the mortality rate for this age group increased by 48.9 percent for males and 21.8 percent for females. Compared to 2022, the young adult mortality rate decreased both for males (9.0 percent) and females (10.2 percent); **Figure 2C-13, Table 2C-15).**

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

Figure 2C-14
Mortality Rates^a by Race/Ethnicity among Young Adults 20-44 Years, Arizona, 2023



The 2023 mortality among young adults shows racial/ethnic disparities. American Indians aged 20-44 years had the highest mortality rates while Asians of the same age group recorded the lowest mortality rate across all groups.

American Indian young adults had a mortality rate 2.5 times greater than Black or African American adults, the racial/ethnic group with the second highest young adult mortality rate. The American Indian young adult mortality rate was 3.6 times higher than the state average for young adults and 11.2 times greater than Asian young adults.

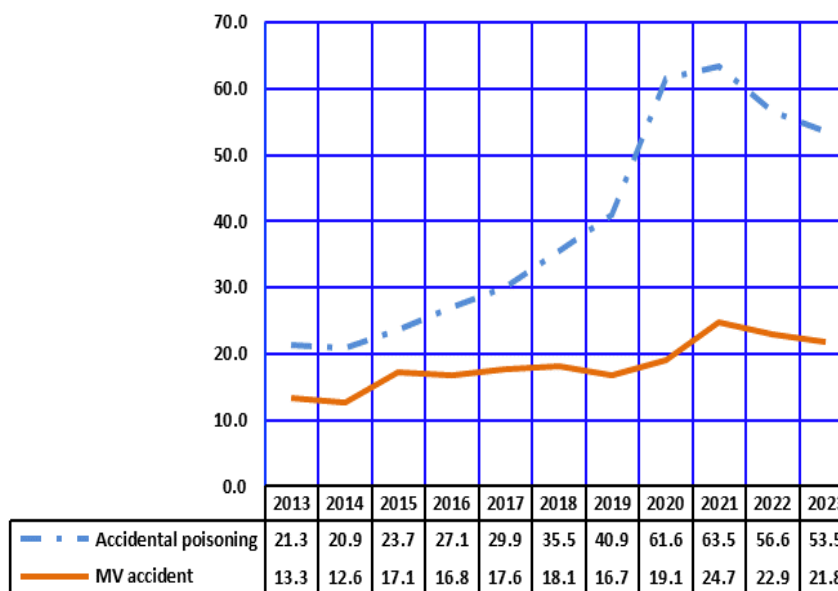
Note: ^a Number of deaths per 100,000 persons, 20-44 years old in specified group.

2C.AGE-SPECIFIC MORTALITY

Young adult mortality (ages 20-44 years)

Figure 2C-15
Mortality Rates^a for Motor Vehicle-Related Injuries and Accidental Poisoning
by Year among Young Adults 20-44 Years, Arizona, 2013-2023

In 2023, 1,328 deaths of young adults were attributed to accidental poisoning (**Table 2C-18**), a decrease of 4.0 percent from 2022. The mortality rate for accidental poisoning among young adults (53.5/100,000) exceeded the mortality rate for motor vehicle-related injuries. In the past decade, excess of mortality due to accidental poisoning has been consistently recorded in each year since 2013 (**Figure 2C-15**).

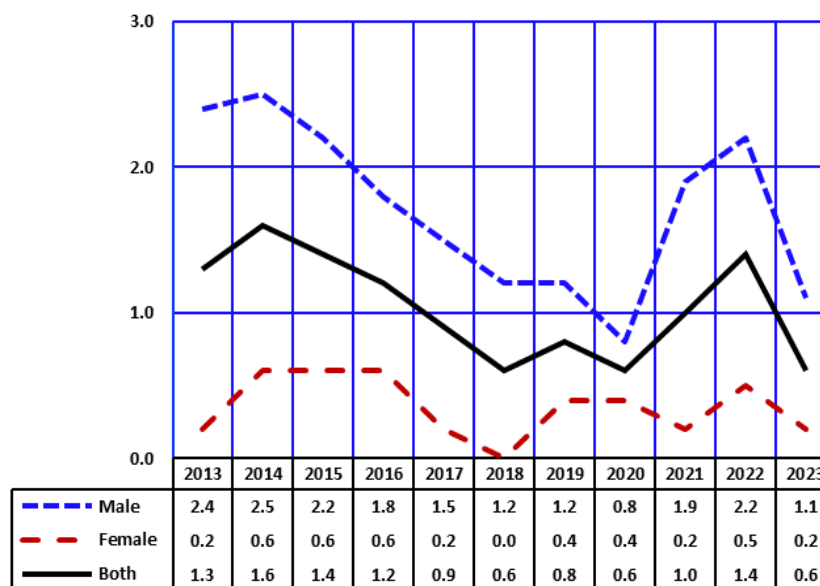


Note: ^a Number of motor vehicle and accidental poisoning deaths per 100,000 persons, 20-44 years old in specified group.

Figure 2C-16
Mortality Rates^a for HIV Disease by Gender and Year among
Young Adults 20-44 Years, Arizona, 2013-2023

In 2023, of the 77 deaths from *HIV disease* about 20.8 percent occurred among Arizonans 20-44 years old (**Table 2C-27**), a decrease from 33.0 percent of 103 deaths in 2022. Males accounted for the majority of the young adult deaths from *HIV disease* in 2023 (**Table 2C-18**).

An analysis of HIV mortality rates by gender for the 2013-2023 period revealed a decrease of 54.2 percent in mortality among young males and there was no change for their female counterparts.

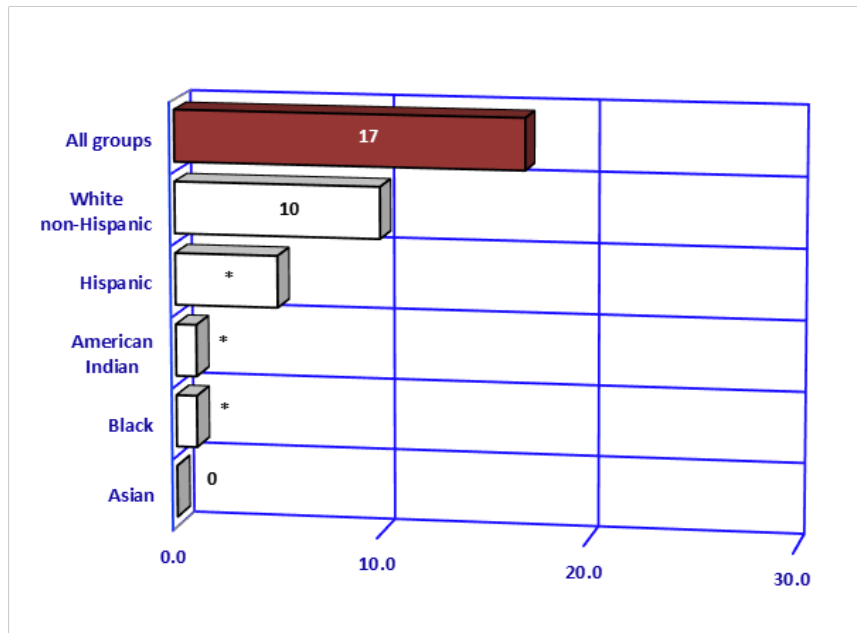


Note: ^a Number of HIV deaths per 100,000 persons, 20-44 years old in specified group.

2C.AGE-SPECIFIC MORTALITY

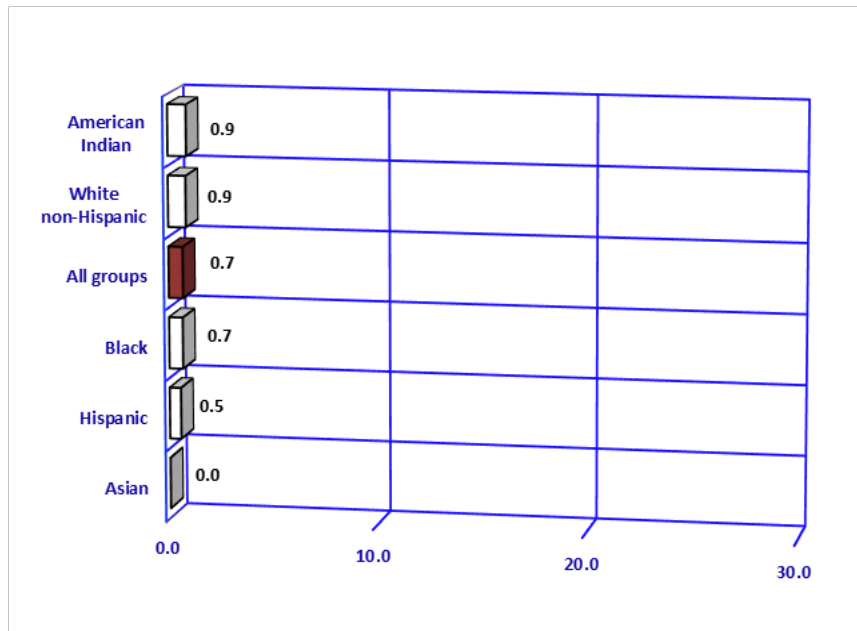
Young adult mortality (ages 20-44 years)

Figure 2C-17
Mortality for COVID-19 by Race/Ethnicity among Young Adults 20-44 Years, Arizona, 2023



In 2023, 17 Arizona resident young adults age 20-44 died from COVID-19. Young adult White non-Hispanics represented the largest amount of deaths compared to other race and ethnicities with 58.8% (n=10) of deaths in this age group. Since 2021, we have seen a decrease in deaths for COVID-19 within this age group with rates in 2021 (32.9), 2022 (7.7) and dropping to (0.7) in 2023 (**Figure 2C-17, Table 2C-18, Table 2c-28**).

Figure 2C-18
Mortality Rates^a for COVID-19 by Race/Ethnicity among Young Adults 20-44 Years, Arizona, 2023



The age-specific mortality rate of Arizona resident young adults aged 20-44 years found the highest risk among American Indians and White non-Hispanics with a rate of 0.9 deaths per 100,000 people aged 20-44. People who identified as Asian, Black or African American and Hispanic or Latino fell below the average of all groups (**Figure 2C-18**).

Note: ^a Number of deaths due to COVID-19 per 100,000 persons, 20-44 years old in specified group.

TABLE 2C-15
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES^b OF DEATH AMONG YOUNG ADULTS (20-44 YEARS)
BY GENDER, ARIZONA, 2013-2023

Gender/Cause	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
MALE												
Accidents (unintentional injuries)	56.7	54.3	63.3	71.2	76.7	86.0	94.3	128.5	138.4	128.9	126.5	123.1
Other	38.0	35.9	38.6	46.9	52.6	59.9	70.2	100.9	105.0	96.5	94.1	147.6
Motor vehicle accidents	18.7	18.4	24.7	24.3	24.1	26.1	24.1	27.6	33.4	32.5	32.4	73.3
Intentional self-harm (suicide)	30.8	28.7	30.8	30.9	33.5	36.9	37.2	35.1	41.5	41.1	38.9	26.3
Assault (homicide)	16.1	13.3	16.6	17.8	19.4	17.9	15.0	20.3	23.2	24.0	19.2	19.3
Diseases of heart	14.2	14.0	13.6	12.0	14.7	13.3	14.8	18.9	17.4	15.6	13.0	-8.5
Malignant neoplasms	13.4	11.2	13.0	11.3	12.0	10.9	12.0	12.6	14.1	14.6	11.4	-14.9
ALL CAUSES	187.2	183.0	192.0	200.6	207.7	217.2	230.3	309.6	355.0	306.5	278.8	48.9
(Number of all deaths)	(2,082)	(2,071)	(2,191)	(2,304)	(2,421)	(2,588)	(2,799)	(3,763)	(4,386)	(3,851)	(3,558)	70.9
FEMALE												
Accidents (unintentional injuries)	24.5	21.3	28.2	26.6	29.3	30.5	32.0	44.6	49.4	41.9	38.0	55.1
Other	16.9	14.7	19.1	17.5	18.6	20.8	23.1	34.5	33.9	29.1	27.4	62.1
Motor vehicle accidents	7.6	6.6	9.1	9.0	10.7	9.7	8.9	10.1	15.6	12.8	10.6	39.5
Malignant neoplasms	17.4	14.0	13.5	16.7	14.5	16.2	14.1	14.5	16.2	14.9	14.1	-19.0
Intentional self-harm (suicide)	9.6	9.0	10.5	9.9	11.2	9.6	8.1	10.9	10.3	10.0	10.3	7.3
Diseases of heart	5.6	6.6	7.2	5.1	7.0	6.3	6.1	7.6	7.4	6.1	7.0	25.0
Assault (homicide)	3.4	2.9	3.2	3.7	3.8	3.7	4.0	4.7	5.1	5.5	4.5	32.4
ALL CAUSES	97.7	91.9	99.0	103.8	101.4	101.2	102.4	140.4	165.0	132.5	119.0	21.8
(Number of all deaths)	(1,033)	(991)	(1,080)	(1,137)	(1,123)	(1,139)	(1,174)	(1,614)	(1,930)	(1,576)	(1,437)	39.1
TOTAL												
Accidents (unintentional injuries)	41.0	38.2	46.1	49.4	53.6	59.0	64.0	87.7	95.1	86.6	83.5	103.7
Other	27.7	25.6	29.0	32.6	36.0	40.9	47.3	68.7	70.4	63.7	61.7	122.7
Motor vehicle accidents	13.3	12.6	17.1	16.8	17.6	18.1	16.7	19.1	24.7	22.9	21.8	63.9
Intentional self-harm (suicide)	20.5	19.1	20.9	20.6	22.6	23.6	23.1	23.3	26.4	26.0	25.0	22.0
Malignant neoplasms	15.3	12.6	13.2	13.9	13.2	13.5	13.0	13.5	15.1	14.7	12.7	-17.0
Assault (homicide)	9.9	8.2	10.0	11.0	11.8	11.0	9.7	12.7	14.4	15.0	12.0	21.2
Diseases of heart	10.0	10.4	10.5	8.6	10.9	9.9	10.6	13.4	12.6	11.0	10.1	1.0
ALL CAUSES	143.5	138.6	146.6	153.3	155.9	160.9	168.2	227.3	262.6	221.9	201.1	40.1
(Number of all deaths)	(3,115)	(3,062)	(3,271)	(3,441)	(3,544)	(3,727)	(3,973)	(5,377)	(6,316)	(5,427)	(4,995)	60.4

Notes: ^a Rates are presented per 100,000 persons 20-44 years old; ^b The five causes with the greatest number of deaths over the 2013-2023 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2013-2023 are classified by ICD-10, replacing the Ninth Revision (ICD-9); 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**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2013-2019 and making it impossible to show a trend and a percent change.

TABLE 2C-16
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES^b OF DEATH AMONG YOUNG ADULTS (20-44 YEARS)
IN URBAN AND RURAL AREAS^c, ARIZONA, 2013-2023

Area/Cause	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
URBAN												
Accidents (unintentional injuries)	35.4	33.8	40.1	43.9	49.0	55.2	60.6	82.6	89.0	78.8	77.3	118.4
Other	23.9	22.7	25.4	28.9	34.3	39.5	46.1	65.9	67.7	59.0	58.2	143.5
Motor vehicle accidents	11.5	11.1	14.7	15.1	14.8	15.7	14.5	16.7	21.3	19.8	19.1	66.1
Intentional self-harm (suicide)	18.3	16.8	19.0	18.4	19.7	20.6	21.3	20.5	22.2	21.4	21.5	17.5
Malignant neoplasms	15.3	12.7	13.1	13.5	13.0	13.5	12.6	13.7	14.6	14.2	12.4	-19.0
Assault (homicide)	9.4	8.1	9.6	10.7	11.3	11.1	9.8	12.1	14.3	14.4	11.7	24.5
Diseases of heart	9.3	9.7	10.1	8.3	10.3	9.2	10.1	13.3	12.1	10.5	9.1	-2.2
ALL CAUSES	130.1	126.2	131.9	137.1	140.7	148.0	156.5	206.2	237.6	195.7	181.6	39.6
(Number of all deaths)	(2,451)	(2,422)	(2,557)	(2,676)	(2,783)	(2,986)	(3,224)	(4,270)	(5,007)	(4,198)	(3,959)	61.5
RURAL												
Accidents (unintentional injuries)	74.9	61.2	78.6	77.9	75.3	81.3	80.9	116.3	129.0	128.5	118.7	58.5
Other	50.8	39.6	47.9	51.3	39.4	48.5	52.8	81.6	83.0	85.0	79.2	55.9
Motor vehicle accidents	24.2	21.7	30.8	26.7	36.0	32.8	28.1	34.7	46.0	43.5	39.4	62.8
Intentional self-harm (suicide)	33.6	32.3	32.1	33.5	40.1	43.5	35.0	42.5	54.1	56.8	49.6	47.6
Diseases of heart	14.0	14.4	13.0	10.3	14.3	14.0	12.5	13.6	15.5	13.0	17.1	22.1
Malignant neoplasms	15.4	11.4	13.3	16.7	13.6	12.4	16.2	12.6	18.1	17.9	14.8	-3.9
Assault (homicide)	13.0	7.2	10.6	10.6	10.9	10.4	7.9	16.7	14.4	17.9	13.8	6.2
ALL CAUSES	226.5	207.1	224.7	240.9	236.6	238.1	237.7	361.3	422.1	378.9	326.1	44.0
(Number of all deaths)	(647)	(602)	(657)	(705)	(697)	(712)	(720)	(1,063)	(1,256)	(1,141)	(992)	53.3
TOTAL												
Accidents (unintentional injuries)	41.0	38.2	46.1	49.4	53.6	59.0	64.0	87.7	95.1	86.6	83.5	103.7
Other	27.7	25.6	29.0	32.6	36.0	40.9	47.3	68.7	70.4	63.7	61.7	122.7
Motor vehicle accidents	13.3	12.6	17.1	16.8	17.6	18.1	16.7	19.1	24.7	22.9	21.8	63.9
Intentional self-harm (suicide)	20.5	19.1	20.9	20.6	22.6	23.6	23.1	23.3	26.4	26.0	25.0	22.0
Malignant neoplasms	15.3	12.6	13.2	13.9	13.2	13.5	13.0	13.5	15.1	14.7	12.7	-17.0
Assault (homicide)	9.9	8.2	10.0	11.0	11.8	11.0	9.7	12.7	14.4	15.0	12.0	21.2
Diseases of heart	10.0	10.4	10.5	8.6	10.9	9.9	10.6	13.4	12.6	11.0	10.1	1.0
ALL CAUSES	143.5	138.6	146.6	153.3	155.9	160.9	168.2	227.3	262.6	221.9	201.1	40.1
(Number of all deaths)	(3,115)	(3,062)	(3,271)	(3,441)	(3,544)	(3,727)	(3,973)	(5,377)	(6,316)	(5,427)	(4,995)	60.4

Notes: ^a Rates are presented per 100,000 young adults 20-44 years old; ^b The five causes with the greatest number of deaths statewide over the 2013-2023 period; ^c Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; 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 2013-2023 are classified by ICD-10, replacing the Ninth Revision (ICD-9); 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**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2013-2019 and making it impossible to show a trend and a percent change.

TABLE 2C-17
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES OF DEATH AMONG YOUNG ADULTS (20-44 YEARS)
BY GENDER IN URBAN AND RURAL AREAS^b, ARIZONA, 2013-2023

Area/Gender	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
URBAN												
Male	169.0	165.6	171.9	178.4	187.7	198.0	216.0	282.9	322.9	272.2	251.7	48.9
Female	89.2	85.1	90.1	94.0	91.4	95.2	93.8	125.4	147.9	115.4	107.9	21.0
TOTAL	130.1	126.2	131.9	137.1	140.7	148.0	156.5	206.2	237.6	195.7	181.6	39.6
RURAL												
Male	296.4	278.8	294.2	315.6	307.7	332.7	309.8	475.6	553.3	506.7	446.8	50.7
Female	151.6	130.0	149.8	160.1	159.3	135.0	158.9	236.7	278.9	239.5	194.5	28.3
TOTAL	226.5	207.1	224.7	240.9	236.6	238.1	237.7	361.3	422.1	378.9	326.1	44.0
TOTAL												
Male	187.2	183.0	192.0	200.6	207.7	217.2	230.3	309.6	355.0	306.5	278.8	48.9
Female	97.7	91.9	99.0	103.8	101.4	101.2	102.4	140.4	165.0	132.5	119.0	21.8
TOTAL	143.5	138.6	146.6	153.3	155.9	160.9	168.2	227.3	262.6	221.9	201.1	40.1

Notes: ^a Rates are presented per 100,000 persons 20-44 years old; ^b Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; 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, 2023**

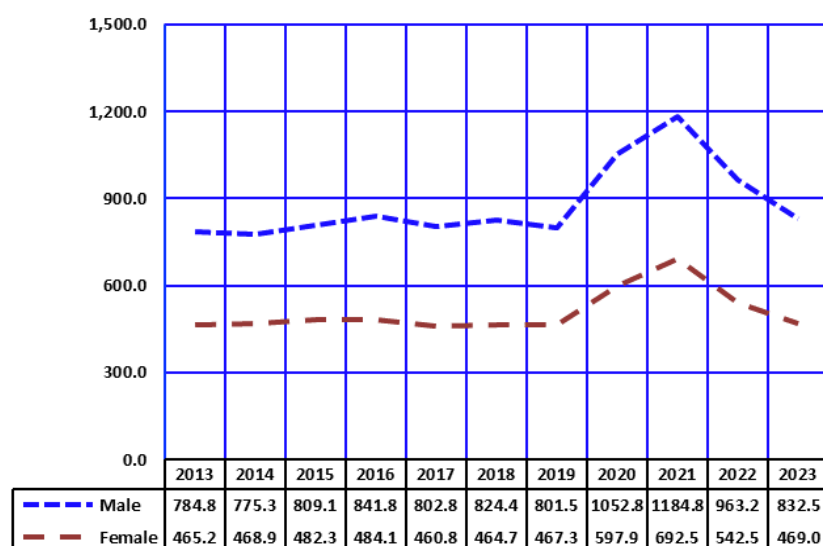
Cause of death	Total	Gender		Area ^a			Race/ethnicity					
		Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused/Unknown
Accidents (unintentional injury)	2,074	1,615	459	1,685	361	28	912	655	180	299	21	7
Accidental poisoning	1,328	1,033	295	1,105	202	21	591	428	132	162	10	*
Motor vehicle accidents	542	414	128	417	120	*	220	175	32	106	8	*
Intentional self-harm (suicide)	621	496	125	468	151	*	327	159	45	75	11	*
By discharge of firearms	345	307	38	276	68	*	197	95	27	19	6	*
By other means	280†	189	87	192	83	*	130	64	18	56	*	*
Malignant neoplasms	315	145	170	270	45	0	157	96	19	26	15	*
Malignant neoplasm of breast	40†	0	40	34	6	0	17	10	9	*	*	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	30†	25	6	29	*	0	12	14	0	*	*	*
Malignant neoplasm of meninges, brain and other parts of central nervous system	30†	14	12	24	*	0	17	8	*	0	0	0
Assault (homicide)	300†	245	54	256	42	*	71	110	54	60	*	*
By discharge of firearms	240†	196	45	211	29	*	63	86	45	43	*	*
By other means	58	49	9	45	13	0	8	24	9	17	0	0
Diseases of heart	250†	166	85	199	52	0	129	62	23	34	*	*
Chronic liver disease and cirrhosis	250†	145	104	164	83	*	97	50	6	95	*	0
Diabetes	100†	76	26	82	19	*	39	26	14	21	*	0
Influenza and pneumonia	59	30	29	44	14	*	25	17	6	10	0	*
Cerebrovascular diseases	50†	26	22	39	9	0	17	22	*	*	*	0
Obesity	50†	31	15	38	7	*	25	12	*	7	*	0
COVID-19	20†	12	*	15	*	*	10	*	*	*	0	0
Human immunodeficiency virus (HIV) disease	20†	14	*	13	*	*	*	7	0	*	*	*
Total, all causes	4,995	3,558	1,437	3,959	992	44	2,195	1,454	440	801	79	26

Notes: * Cell suppressed due to count less than 6; [†] Sum rounded to nearest tens unit due to addend less than 6; ^a Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas.

2C.AGE-SPECIFIC MORTALITY

Middle-aged adult mortality (ages 45-64 years)

Figure 2C-19
Mortality Rates^a by Gender and Year among Middle-Aged Adults 45-64 Years, Arizona, 2013-2023



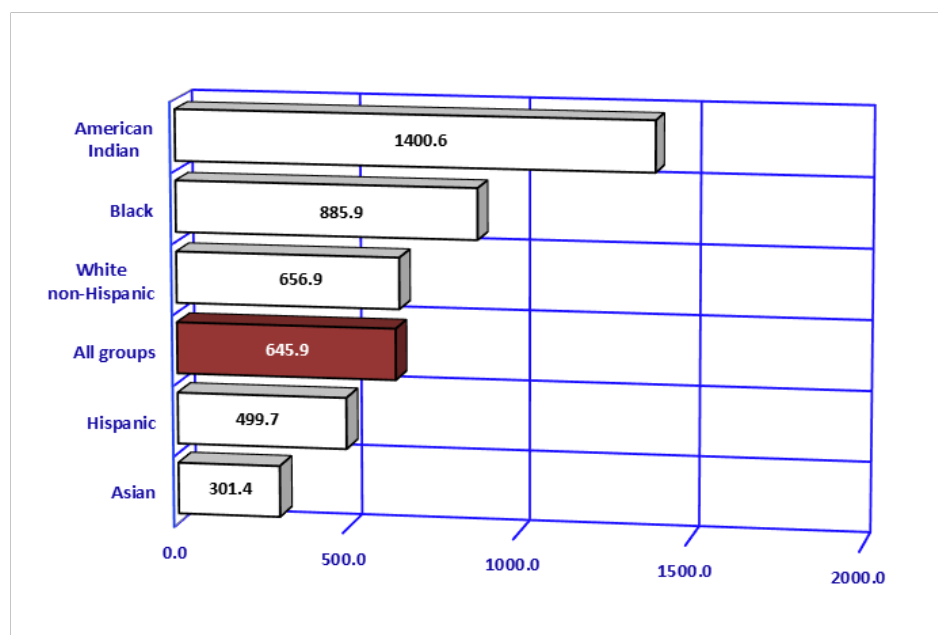
Note: ^a Number of deaths per 100,000 persons, 45-64 years old in specified group.

In 2023, the 1,779,815 middle-aged adult residents aged 45 to 64 experienced 11,496 deaths, or an average of 31 deaths per day. The total number of deaths among 45-64 years old Arizona residents in 2023 (11,496) was lower than both the 2022 count (13,095), and 2021 count (16,060). Overall, 2021 had the highest number of deaths for the age group of middle-aged adult residents 45-64 years recorded over the time period of 2013-2023 (**Table 2C-19**).

The 2023 total mortality rate among middle-age females was 0.8 percent higher, and among middle-aged males, 6.1 percent higher than their respective rates in 2013 (**Figure 2C-19, Table 2C-19**). In 2023, the mortality rate for males age 45 - 64 was 77.5 percent higher than the female mortality of the same age group.

The five causes with the greatest number of deaths in 2013-2023 were *malignant neoplasms, diseases of heart, accidents, chronic liver disease and cirrhosis, and chronic lower respiratory diseases* (**Table 2C-19**).

Figure 2C-20
Mortality Rates^a by Race/Ethnicity among Middle-Aged Adults 45-64 Years, Arizona, 2023



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

American Indian and Black or African American middle-aged adults had the two highest mortality rates (1400.6/100,000 and 885.9/100,000, respectively) among the racial/ethnic groups.

Asians had the lowest mortality rate among racial/ethnic groups 45-64 years old with a mortality rate of 301.4 deaths per 100,000 people.

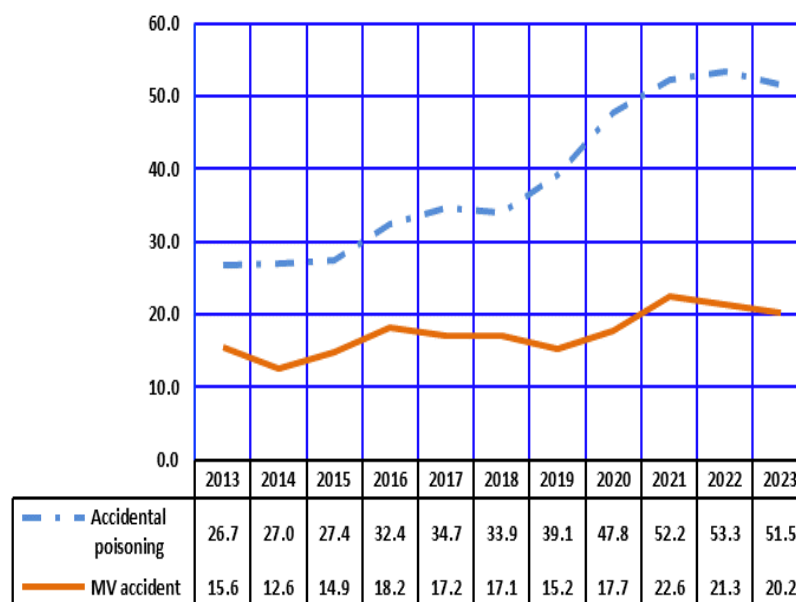
2C.AGE-SPECIFIC MORTALITY

Middle-aged adult mortality (ages 45-64 years)

The 2023 mortality rate due to accidental poisoning was 51.5 per 100,000 adults aged 45-64 years, a decrease of 3.4 percent from 2022. In 2023, about 916 deaths were attributed to accidental poisoning (**Table 2C-22**). Of the accidental poisoning deaths in this age group, 868 were drug overdoses (ICD-10 X40-X44) and 41 were alcohol poisoning (ICD-10 X45).

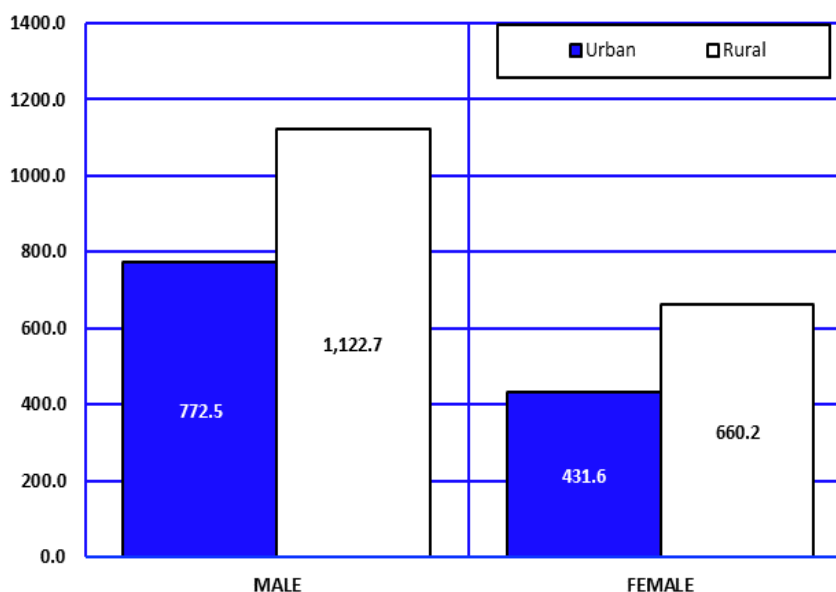
Since 2013, the mortality rate for accidental poisoning exceeded the mortality rate for motor vehicle-related injuries among the middle-aged (**Figure 2C-21**). In 2023, accidental poisoning mortality rate of 51.5 per 100,000 middle-aged adults was 2.5 times higher than the mortality rate of 20.2 per 100,000 for motor vehicle accidents. White non-Hispanics accounted for about 59.0 percent of all accidental poisoning deaths (**Table 2C-22**).

Figure 2C-21
Mortality Rates^a for Accidental Poisoning and Motor Vehicle-related Injuries by Year among Middle-Aged Adults 45-64 Years, Arizona, 2013-2023



Note: ^a Number of motor vehicle and accidental poisoning deaths per 100,000 persons, 45-64 years old in specified group.

Figure 2C-22
Mortality Rates by Gender in Urban^a and Rural Areas among Middle-Aged Adults 45-64 Years, Arizona, 2023



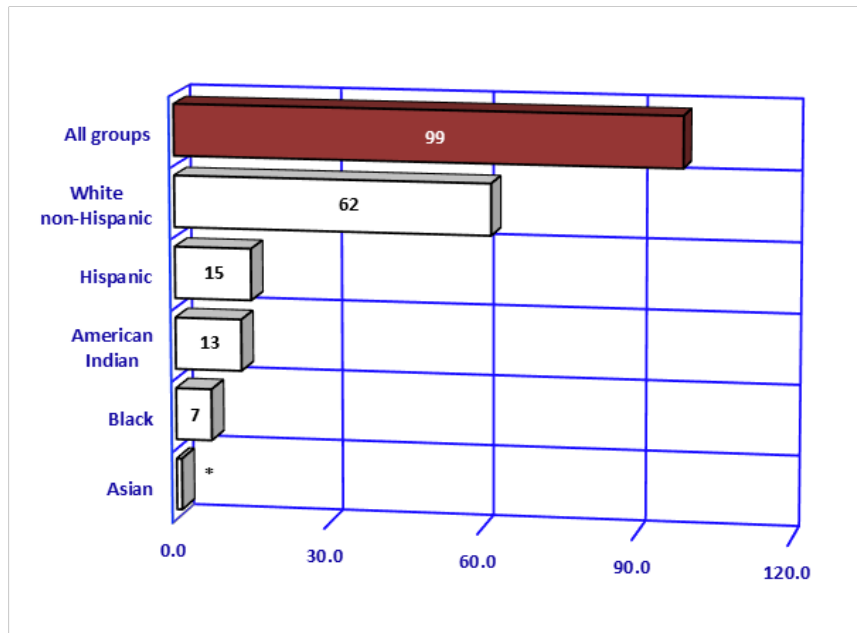
Note: ^a Urban counties include Maricopa, Pima, Pinal, and Yuma counties.

In 2023, as in the past, rural middle-aged males had the worse survival chances than the remaining of the sub-groups (**Figure 2C-22, Table 2C-21**). The mortality rate for rural middle-aged males in 2023 was 1.5 times greater than for urban males, 1.7-fold greater than rural females, and 2.6-fold greater than urban females.

2C.AGE-SPECIFIC MORTALITY

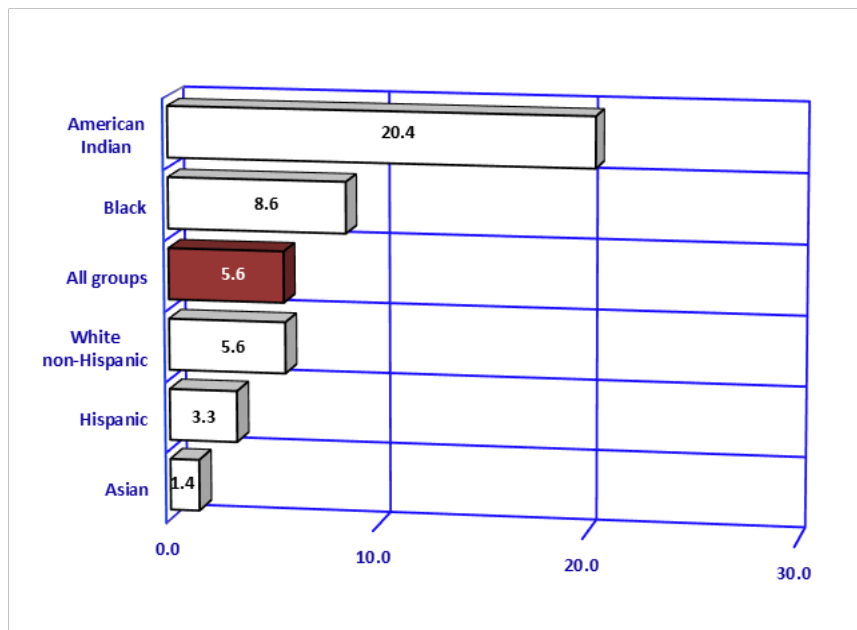
Middle-aged adult mortality (ages 45-64 years)

Figure 2C-23
Mortality for COVID-19 by Race/Ethnicity among Middle-Aged Adults 45-64 Years, Arizona, 2023



In 2023, 99 Arizona resident middle-aged adults age 45-64 died from COVID-19. Among the deaths, people who identified as White non-Hispanic represented the largest amount of deaths compared to other race and ethnicities with 62.6% (n=62) of deaths in this age group. In 2020, COVID-19 caused 1,778 deaths among middle-aged adult Arizona residents. Since a peak of COVID-19 deaths in 2021, there has been a significant decline in the number of COVID-19 deaths among Arizonans 45-64 years of age, with a high of 3,456 deaths in 2021, lowering to 871 in 2022, and most recently 99 in 2023 (Figure 2C-23, Table 2C-22).

Figure 2C-24
Mortality Rates^a for COVID-19 by Race/Ethnicity among Middle-Aged Adults 45-64 Years, Arizona, 2023



Note: ^a Number of deaths due to COVID-19 per 100,000 persons, 45-64 years old in specified group.

The age-specific mortality rate of Arizona resident middle aged adults 45-64 years found the highest risk among American Indians with a rate of 20.4 deaths per 100,000 people aged 45-64. This was almost four times the rate among all race/ethnicity groups (5.6 deaths per 100,000 people aged 45-64). Since 2021, there has been a significant decline in the rate of COVID-19 deaths among Arizonans 45-64 years of age, with a high of 200.6 deaths per 100,000 people in 2021, lowering to 49.7/100,000 in 2022, and most recently 5.6/100,000 in 2023.

TABLE 2C-19
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES^b OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)
BY GENDER, ARIZONA, 2013-2023

Gender/Cause	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
MALE												
Diseases of heart	159.3	143.2	166.6	170.1	164.7	162.5	160.8	186.3	182.9	182.4	161.5	1.4
Malignant neoplasms	191.4	171.5	186.4	184.1	180.7	177.8	175.1	164.9	158.7	156.3	143.8	-24.9
Accidents (unintentional injuries)	77.9	73.5	76.8	100.4	98.8	95.5	105.7	128.1	137.6	148.0	141.5	81.6
Other	54.5	54.0	54.5	71.5	72.1	70.5	82.6	101.0	103.6	116.1	109.7	101.3
Motor vehicle accidents	23.3	19.4	22.3	28.9	26.8	25.0	23.1	27.1	34.0	31.9	31.9	36.9
Chronic liver disease and cirrhosis	46.7	43.1	48.1	47.8	45.5	45.7	43.8	49.7	61.8	46.5	42.0	-10.1
Intentional self-harm (suicide)	38.3	37.7	40.3	41.2	37.4	43.3	39.7	38.7	38.0	44.1	36.2	-5.5
ALL CAUSES	784.8	775.3	809.1	841.8	802.8	824.4	801.5	1052.8	1184.8	963.2	832.5	6.1
(Number of all deaths)	(6,088)	(6,111)	(6,444)	(6,781)	(6,570)	(6,839)	(6,702)	(8,755)	(9,935)	(8,215)	(7,211)	18.4
FEMALE												
Malignant neoplasms	160.7	145.0	155.6	150.9	143.9	146.3	147.5	147.9	153.3	149.1	133.7	-16.8
Diseases of heart	54.6	54.0	60.8	66.7	58.2	62.7	61.9	68.0	68.5	65.8	61.1	11.9
Accidents (unintentional injuries)	38.0	33.7	35.8	38.4	42.2	37.3	38.7	46.7	51.8	44.7	46.6	22.6
Other	29.8	27.4	27.9	30.4	18.6	27.7	31.0	37.8	40.0	33.5	37.5	25.8
Motor vehicle accidents	8.2	6.2	7.9	8.1	8.2	9.7	7.7	8.9	11.8	11.2	9.1	11.0
Chronic liver disease and cirrhosis	23.3	24.7	27.9	25.4	25.2	22.9	24.0	30.8	38.2	27.3	28.9	24.0
Diabetes	23.6	22.8	27.4	24.6	22.6	22.1	23.4	30.2	29.6	24.7	22.0	-6.8
ALL CAUSES	465.2	468.9	482.3	484.1	460.8	464.7	467.3	597.9	692.5	542.5	469.0	0.8
(Number of all deaths)	(3,810)	(3,914)	(4,066)	(4,130)	(3,997)	(4,081)	(4,132)	(5,238)	(6,125)	(4,880)	(4,285)	12.5
TOTAL												
Malignant neoplasms	175.6	157.9	170.6	167.0	161.8	161.6	160.9	156.1	155.9	152.6	138.6	-21.1
Diseases of heart	105.5	97.4	112.2	116.9	109.9	111.2	110.0	125.5	124.2	122.6	110.0	4.3
Accidents (unintentional injuries)	57.4	53.0	55.7	68.5	69.7	65.6	71.3	86.3	93.6	95.0	92.8	61.7
Other	41.8	40.4	40.8	50.3	52.5	48.5	56.1	68.6	71.0	73.7	72.6	73.7
Motor vehicle accidents	15.6	12.6	14.9	18.2	17.2	17.1	15.2	17.7	22.6	21.3	20.2	29.5
Chronic liver disease and cirrhosis	34.7	33.6	37.7	36.3	35.1	34.0	33.6	40.0	49.7	36.7	35.3	1.7
Chronic lower respiratory diseases	24.7	25.4	26.6	28.2	27.3	28.4	23.5	25.8	20.8	22.8	19.2	-22.3
ALL CAUSES	620.7	617.7	641.0	657.8	626.8	639.4	629.7	819.2	932.1	747.3	645.9	4.1
(Number of all deaths)	(9,898)	(10,025)	(10,510)	(10,911)	(10,567)	(10,920)	(10,834)	(14,003)	(16,060)	(13,095)	(11,496)	16.1

Notes: ^a Rates are presented per 100,000 middle-aged adults 45-64 years old; ^b The five causes with the greatest number of deaths over the 2013-2023 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2013-2023 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**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2013-2019 and making it impossible to show a trend and a percent change.

TABLE 2C-20
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES^b OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)
IN URBAN AND RURAL AREAS^c, ARIZONA, 2013-2023

Area/Cause	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
URBAN												
Malignant neoplasms	169.1	153.8	164.8	162.1	156.3	156.4	153.7	150.9	151.6	147.1	132.6	-21.6
Diseases of heart	96.5	89.5	100.3	106.3	101.7	100.2	103.9	115.5	114.0	113.6	100.8	4.5
Accidents (unintentional injuries)	51.5	47.3	50.2	61.3	61.3	60.0	66.1	82.0	86.4	87.2	86.4	67.8
Other	38.5	36.7	37.8	45.3	46.6	46.0	52.4	65.7	67.0	68.7	68.6	78.2
Motor vehicle accidents	13.0	10.6	12.4	16.0	14.7	14.0	13.6	16.3	19.4	18.5	17.8	36.9
Chronic liver disease and cirrhosis	29.9	31.5	32.6	30.3	30.1	29.9	28.5	33.8	40.0	30.5	30.3	1.3
Chronic lower respiratory diseases	22.6	23.4	25.0	25.9	24.0	24.4	21.0	22.1	18.1	20.6	16.4	-27.4
ALL CAUSES	579.8	584.2	596.5	613.0	583.1	595.1	586.3	759.7	862.3	691.2	597.8	3.1
(Number of all deaths)	(7,631)	(7,855)	(8,128)	(8,485)	(8,223)	(8,527)	(8,485)	(10,988)	(12,602)	(10,282)	(9,039)	18.5
RURAL												
Malignant neoplasms	204.7	175.4	196.4	184.3	182.9	186.2	196.3	182.9	175.5	181.6	169.9	-17.0
Diseases of heart	142.2	133.3	163.5	159.6	140.1	162.6	139.1	176.9	175.9	165.7	158.7	11.6
Accidents (unintentional injuries)	75.8	73.3	72.6	83.8	91.5	86.9	94.1	100.0	122.7	123.4	115.0	51.7
Other	51.7	52.8	46.6	58.3	64.2	55.6	71.4	78.0	85.3	90.6	83.7	61.9
Motor vehicle accidents	24.1	20.5	26.0	25.5	27.2	31.3	22.7	22.1	37.5	32.8	31.4	30.3
Chronic liver disease and cirrhosis	57.1	41.7	59.2	61.9	56.6	53.5	59.7	71.9	102.5	69.8	62.4	9.3
Chronic lower respiratory diseases	32.3	34.1	33.9	37.9	41.7	49.1	35.5	44.5	35.6	34.0	34.4	6.5
ALL CAUSES	786.8	751.4	821.2	808.3	781.1	842.7	839.6	1111.4	1281.7	1025.3	883.0	12.2
(Number of all deaths)	(2,191)	(2,091)	(2,275)	(2,219)	(2,152)	(2,317)	(2,293)	(2,922)	(3,352)	(2,716)	(2,364)	7.9
TOTAL												
Malignant neoplasms	175.6	157.9	170.6	167.0	161.8	161.6	160.9	156.1	155.9	152.6	138.6	-21.1
Diseases of heart	105.5	97.4	112.2	116.9	109.9	111.2	110.0	125.5	124.2	122.6	110.0	4.3
Accidents (unintentional injuries)	57.4	53.0	55.7	68.5	69.7	65.6	71.3	86.3	93.6	95.0	92.8	61.7
Other	41.8	40.4	40.8	50.3	52.5	48.5	56.1	68.6	71.0	73.7	72.6	73.7
Motor vehicle accidents	15.6	12.6	14.9	18.2	17.2	17.1	15.2	17.7	22.6	21.3	20.2	29.5
Chronic liver disease and cirrhosis	34.7	33.6	37.7	36.3	35.1	34.0	33.6	40.0	49.7	36.7	35.3	1.7
Chronic lower respiratory diseases	24.7	25.4	26.6	28.2	27.3	28.4	23.5	25.8	20.8	22.8	19.2	-22.3
ALL CAUSES	620.7	617.7	641.0	657.8	626.8	639.4	629.7	819.2	932.1	747.3	645.9	4.1
(Number of all deaths)	(9,898)	(10,025)	(10,510)	(10,911)	(10,567)	(10,920)	(10,834)	(14,003)	(16,060)	(13,095)	(11,496)	16.1

Notes: ^a Rates are presented per 100,000 middle-aged adults 45-64 years old; ^b The five causes with the greatest number of deaths over the 2013-2023 period; ^c Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; 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 2013-2023 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**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2013-2019 and making it impossible to show a trend and a percent change.

TABLE 2C-21
MORTALITY RATES^a FOR THE SELECED FIVE LEADING CAUSES OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)
BY GENDER IN URBAN AND RURAL AREAS^b, ARIZONA, 2013-2023

Area/Gender	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
URBAN												
Male	726.0	728.1	746.1	769.7	736.7	762.1	743.8	974.4	1087.4	882.8	772.5	6.4
Female	441.0	448.0	454.8	464.5	437.4	436.6	436.6	555.5	648.1	509.0	431.6	-2.1
TOTAL	579.8	584.2	596.5	613.0	583.1	595.1	586.3	759.7	862.3	691.2	597.8	3.1
RURAL												
Male	1018.5	953.9	1054.9	1079.2	1025.4	1110.2	1080.1	1432.6	1679.4	1360.3	1122.7	10.2
Female	568.8	561.6	603.7	557.3	556.0	596.9	617.8	812.9	912.0	713.9	660.2	16.1
TOTAL	786.8	751.4	821.2	808.3	781.1	842.7	839.6	1111.4	1281.7	1025.3	883.0	12.2
TOTAL												
Male	784.8	775.3	809.1	841.8	802.8	824.4	801.5	1052.8	1184.8	963.2	832.5	6.1
Female	465.2	468.9	482.3	484.1	460.8	464.7	467.3	597.9	692.5	542.5	469.0	0.8
TOTAL	620.7	617.7	641.0	657.8	626.8	639.4	629.7	819.2	932.1	747.3	645.9	4.1

Notes: ^a Rates are presented per 100,000 persons 45-64 years old; ^b Urban = 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, 2023**

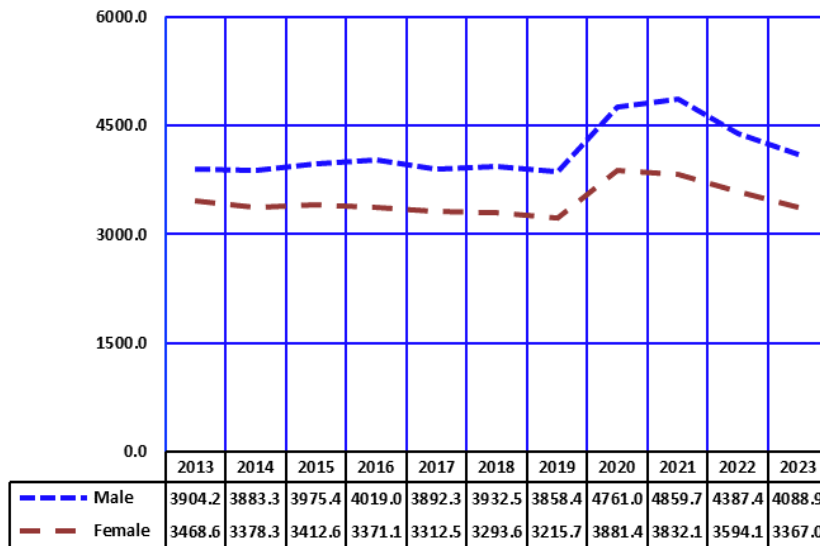
Cause of death	Total	Gender		Area ^a			Race/ethnicity					
		Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused/Unknown
Malignant neoplasms	2,467	1,246	1,221	2,005	455	7	1,634	534	127	92	66	14
Malignant neoplasm of trachea, bronchus and lung	390†	205	182	294	93	0	296	45	23	*	16	*
Malignant neoplasm of colon, rectum, and anus	317	199	118	272	45	0	191	81	23	10	11	*
Malignant neoplasm of breast	240†	*	233	194	40	*	153	59	9	10	*	0
Malignant neoplasm of pancreas	200†	112	87	175	24	0	138	42	10	*	*	*
Diseases of heart	1,957	1,399	558	1,524	425	8	1,308	334	150	110	36	19
Accidents (unintentional injury)	1,652	1,226	426	1,306	308	38	976	333	120	166	21	36
Accidental poisoning	916	669	247	751	138	27	540	193	71	78	9	25
Motor vehicle accidents	360†	276	83	269	84	6	205	68	24	52	*	*
Falls	120†	74	45	94	25	0	72	25	*	12	*	*
Chronic liver disease and cirrhosis	628	364	264	458	167	*	343	147	8	119	8	*
Diabetes	606	405	201	494	110	*	317	144	55	78	10	*
Intentional self-harm (suicide)	410†	314	93	314	93	0	322	49	16	10	*	*
By discharge of firearms	270†	230	38	201	67	0	217	28	11	6	*	*
By other means	140†	84	55	113	26	0	105	21	*	*	*	*
Cerebrovascular diseases	356	206	150	287	67	*	191	96	30	24	13	*
Chronic lower respiratory diseases	342	177	165	248	92	*	289	25	13	9	0	6
Influenza and pneumonia	170†	101	65	130	36	0	98	33	9	19	*	*
Essential (primary) hypertension and hypertensive renal disease	160†	102	55	129	26	*	91	37	14	9	*	*
Nephritis, nephrotic syndrome and nephrosis	150†	104	49	116	37	0	62	42	18	26	*	*
Septicemia	120†	71	48	103	16	0	59	35	11	10	*	*
Assault (homicide)	110†	86	26	95	16	*	55	32	16	7	*	*
By discharge of firearms	80†	57	18	68	6	*	36	24	13	*	0	0
By other means	40†	29	8	27	10	0	19	8	*	*	*	*
COVID-19	100†	51	48	77	22	0	62	15	7	13	*	*
Human immunodeficiency virus (HIV) disease	40†	37	7	40	*	*	21	12	*	*	*	*
Viral hepatitis	30†	17	11	21	6	*	19	7	*	*	0	0
Total, all causes ^b	11,496	7,211	4,285	9,039	2,364	93	7,241	2,301	724	891	216	123

Note: * Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; ^a Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; ^b May include other causes of death not shown above.

2C.AGE-SPECIFIC MORTALITY

Elderly mortality (ages 65 years and older)

Figure 2C-25
Mortality Rates^a by Gender and Year among Elderly 65 Years and Older, Arizona, 2013-2023



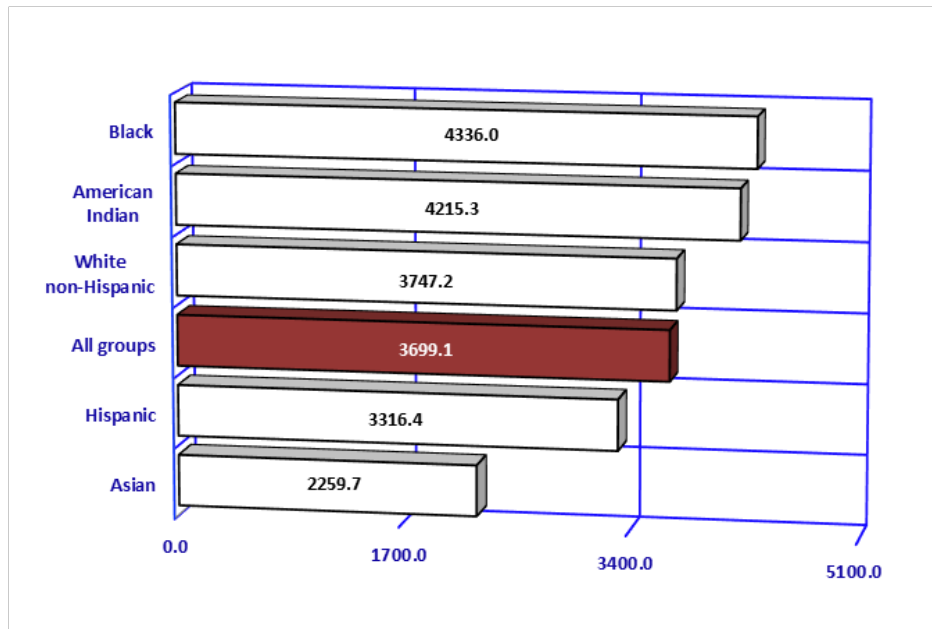
In 2023, an estimated 1,391,787 residents age 65 years and older resided in the state (**Table 10A-1**). No other age group has as great of a disproportionate gender distribution as the elderly. As a result of the higher total mortality rates for males at earlier ages, more elderly women than men were alive in 2023.

The 2023 elderly mortality rate of 3699.1 per 100,000 was 0.9 percent higher than the 2013 rate of 3,667.5 (**Table 2C-23**).

The 2023 total mortality rate among elderly females was 2.9 percent lower than their rate in 2013. The mortality rate among elderly males increased 4.7 percent during the same period (**Figure 2C-25, Table 2C-23**).

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

Figure 2C-26
Mortality Rates^a by Race/Ethnicity among Elderly 65 Years and Older, Arizona, 2023



In 2023 the mortality rate for Arizona's Black or African American elderly and American Indian elderly residents was 1.9 times that of the Asian elderly population. The mortality rate of 2,259.7/100,000 among elderly Asians was the lowest rate among the racial/ethnic groups (**Figure 2C-26**). Hispanic or Latino elderly had the second lowest mortality rate in 2023 at 3,316.4/100,000.

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

2C.AGE-SPECIFIC MORTALITY

Elderly mortality (ages 65 years and older)

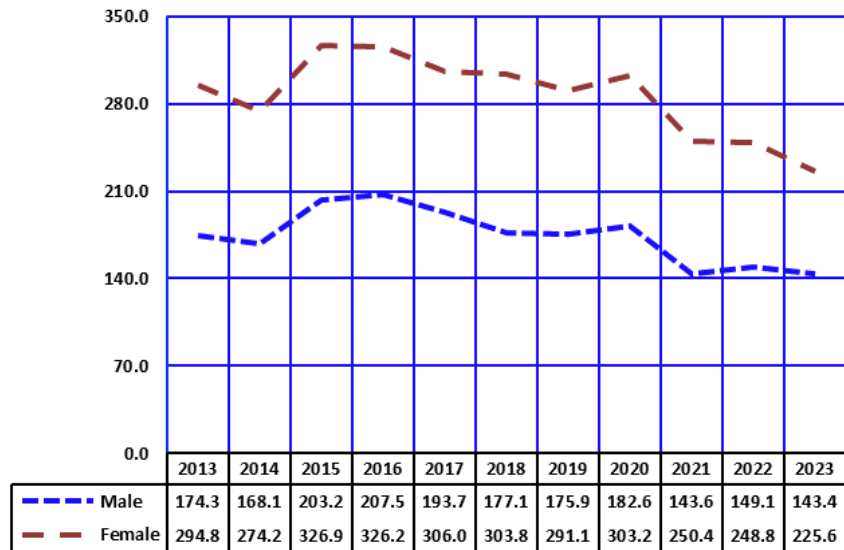
Tables 2C-23 and 2C-24 provide mortality rates for the five causes with the greatest number of deaths over the 2013-2023 period.

In 2023, Alzheimer's disease (2,614 deaths; **Table 2C-26**) accounted for 5.1 percent of elderly mortality. Compared to 2013, the mortality rate due to Alzheimer's disease has decreased for both males and females in 2023 (**Figure 2C-27**).

There were 1,696 deaths from Alzheimer's disease among elderly females in 2023, almost twice the number of deaths from this cause among males (918; **Table 2C-26**).

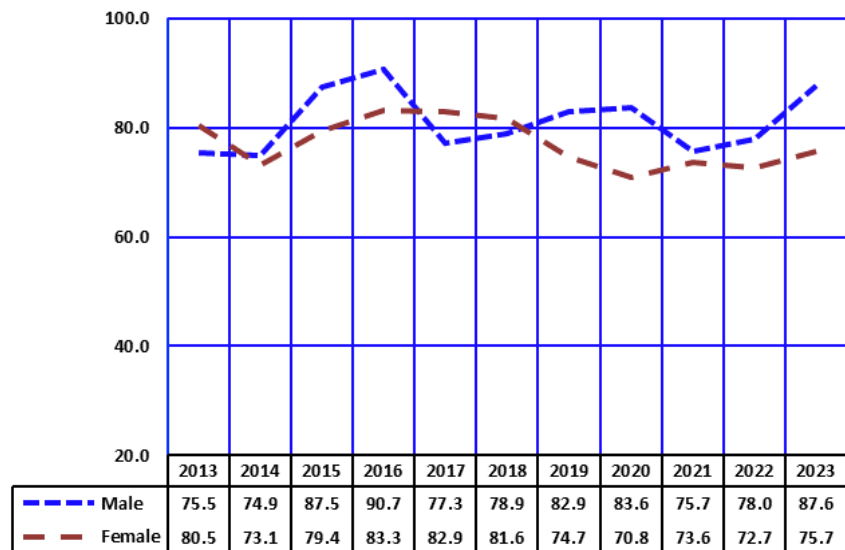
White non-Hispanic elderly accounted for 81.7 percent of the 2023 deaths from Alzheimer's disease (based on data in **Table 2C-26**).

Figure 2C-27
Trends in Mortality Rates for Alzheimer's Disease^a by Gender and Year among Elderly 65 Years and Older, Arizona, 2013-2023



Note: ^a Number of deaths due to Alzheimer's disease per 100,000 persons, 65+ years old in specified group.

Figure 2C-28
Trends in Mortality Rates for Falls and Fall-related Injuries^a by Gender and Year among Elderly 65 Years and Older, Arizona, 2013-2023



Note: ^a Number of deaths due to falls and fall-related injuries per 100,000 persons, 65+ years old in specified group.

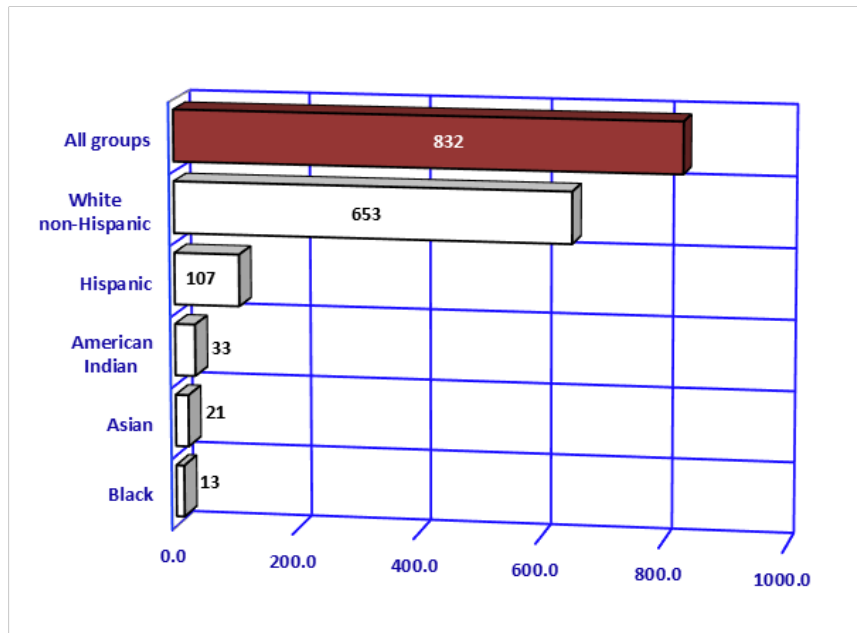
Among unintentional injury deaths unrelated to motor vehicles, Arizona's elderly experienced high mortality from *fall-related injuries* compared to other age groups (**Figure 2C-28**). In 2023, 1,130 elderly Arizonans 65 years or older died from *fall-related injuries*, compared to 1,030 in 2022, representing a 9.7 percent increase between these two years (**Table 2C-26**).

In 2023, Arizonans aged 85 years old or older experienced the largest number of *fall-related deaths* (541), followed by Arizonans 75-84 years old (385), and those aged 65-74 years old (204).

2C.AGE-SPECIFIC MORTALITY

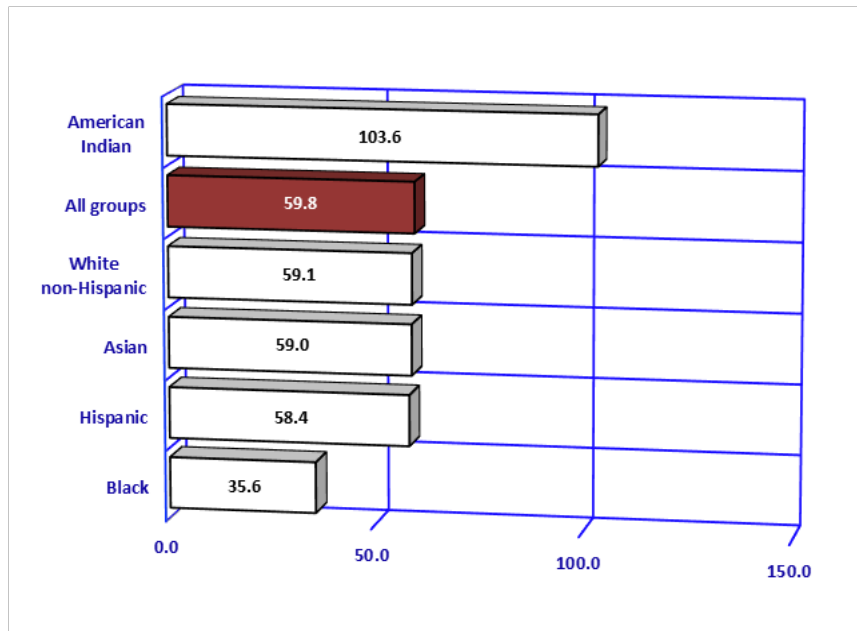
Elderly mortality (ages 65 years and older)

Figure 2C-29
Mortality for COVID-19 by Race/Ethnicity among Elderly 65 Years and Older, Arizona, 2023



In 2023, 832 Arizona resident elderly adults 65 years of age and older died from COVID-19. Among the deaths, people who identified as White, non-Hispanic represented the largest amount of deaths compared to other race and ethnicities with 78.5% (n=653) of deaths in this age group. In 2020, COVID-19 caused 6,260 deaths among elderly adult Arizona residents, the highest among all age groups. Since a peak of COVID-19 deaths in 2021, there has been a significant decline in the number of COVID-19 deaths among Arizonans 65+ years of age, with a high of 8,421 deaths in 2021, lowering to 3,523 in 2022, and most recently 832 in 2023 (**Figure 2C-29, Table 2C-26**).

Figure 2C-30
Mortality Rates^a for COVID-19 by Race/Ethnicity among Elderly 65 Years and Older, Arizona, 2023



The age-specific mortality rate of Arizona resident elderly adults 65 years of age and older had the highest risk among American Indians with a rate of 103.6 deaths per 100,000 people aged 65 years and older. Since 2021, there has been a significant decline in the rate of COVID-19 deaths among Arizonans 65+ years of age, with a high of 624.8 deaths per 100,000 residents in 2021, lowering to 257.0/100,000 in 2022, and most recently 59.8/100,000 in 2023. (**Figure 2C-30**).

Note: ^a Number of deaths due to COVID-19 per 100,000 persons, 65 years and older in specified group.

TABLE 2C-23
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES^b OF DEATH AMONG ELDERLY (65 YEARS AND OLDER)
BY GENDER, ARIZONA, 2013-2023

Gender/Cause	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
MALE												
Diseases of heart	1007.0	908.6	970.0	1003.2	1002.5	984.3	961.0	1062.8	1070.0	1044.3	1054.6	4.7
Malignant neoplasms	958.6	899.1	931.7	927.9	893.5	901.1	875.4	888.7	854.8	861.0	855.3	-10.8
Chronic lower respiratory diseases	302.7	290.2	308.7	298.2	288.3	280.8	265.2	260.6	238.3	236.0	214.5	-29.1
Cerebrovascular diseases	151.8	144.4	182.3	176.8	178.6	187.1	181.4	205.2	199.2	198.0	192.1	26.5
Alzheimer's disease	174.3	168.1	203.2	207.5	193.7	177.1	175.9	182.6	143.6	149.1	143.4	-17.7
ALL CAUSES	3904.2	3883.3	3975.4	4019.0	3892.3	3932.5	3858.4	4761.0	4859.7	4387.4	4088.9	4.7
(Number of all deaths)	(17,489)	(18,292)	(19,665)	(20,781)	(21,144)	(22,030)	(22,480)	(28,258)	(30,125)	(27,660)	(26,175)	49.7
FEMALE												
Diseases of heart	763.7	694.9	756.2	741.0	743.4	726.4	705.3	774.3	748.7	744.2	735.6	-3.7
Malignant neoplasms	697.9	628.1	670.5	642.2	628.7	601.8	624.4	627.5	607.5	625.4	614.9	-11.9
Chronic lower respiratory diseases	283.6	248.3	286.8	288.1	271.7	265.6	248.2	240.3	227.8	224.5	230.7	-18.7
Alzheimer's disease	294.8	274.2	326.9	326.2	306.0	303.8	291.1	303.2	250.4	248.8	225.6	-23.5
Cerebrovascular diseases	198.1	191.1	210.5	218.4	208.0	215.3	207.8	224.3	221.5	225.3	212.7	7.4
ALL CAUSES	3468.6	3378.3	3412.6	3371.1	3312.5	3293.6	3215.7	3881.4	3832.1	3594.1	3367.0	-2.9
(Number of all deaths)	(18,494)	(18,718)	(19,815)	(20,408)	(21,055)	(21,542)	(21,918)	(27,025)	(27,894)	(26,606)	(25,308)	36.8
TOTAL												
Diseases of heart	874.8	793.1	854.5	861.8	862.8	845.4	823.1	907.0	896.5	882.2	882.3	0.9
Malignant neoplasms	816.9	752.6	790.7	773.8	750.7	739.9	740.1	747.7	721.2	733.8	725.5	-11.2
Chronic lower respiratory diseases	292.3	267.6	296.8	292.8	279.3	272.6	256.0	249.6	232.6	229.8	223.2	-23.6
Cerebrovascular diseases	176.9	169.6	197.8	199.2	194.4	202.3	195.6	215.5	211.2	212.7	203.3	14.9
Alzheimer's disease	239.8	225.4	270.0	271.5	254.2	245.3	238.0	247.7	201.3	203.0	187.8	-21.7
ALL CAUSES	3667.5	3610.4	3671.5	3669.5	3579.6	3588.4	3511.9	4286.1	4304.7	3958.9	3699.1	0.9
(Number of all deaths)	(35,983)	(37,010)	(39,480)	(41,189)	(42,199)	(43,572)	(44,398)	(55,283)	(58,019)	(54,266)	(51,483)	43.1

Notes: ^a Rates are presented per 100,000 elderly persons 65 years and older; ^b The five causes with the greatest number of deaths over the 2013-2023 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2013-2023 are classified by ICD-10, replacing the Ninth Revision (ICD-9); although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2013-2019 and making it impossible to show a trend and a percent change.

TABLE 2C-24
MORTALITY RATES^a FOR THE SELECTED FIVE LEADING CAUSES^b OF DEATH AMONG ELDERLY (65 YEARS AND OLDER)
IN URBAN AND RURAL AREAS^c, ARIZONA, 2013-2023

Area/Cause	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
URBAN												
Diseases of heart	862.3	781.0	830.2	835.5	839.1	829.2	822.4	893.4	885.1	871.8	881.3	2.2
Malignant neoplasms	807.6	748.7	783.6	756.6	737.1	724.0	726.2	732.2	705.1	720.5	707.4	-12.4
Cerebrovascular diseases	180.1	172.6	198.1	197.5	193.8	203.2	197.2	218.6	211.4	215.5	207.4	15.2
Chronic lower respiratory diseases	286.3	267.8	292.0	285.8	265.3	257.5	238.0	235.6	215.1	214.0	204.5	-28.6
Alzheimer's disease	272.0	252.6	291.9	286.0	262.6	253.4	249.6	254.7	207.8	208.2	194.3	-28.6
ALL CAUSES	3663.4	3615.6	3650.2	3624.7	3531.0	3568.4	3488.5	4238.3	4220.5	3918.1	3653.3	-0.3
(Number of all deaths)	(28,442)	(29,416)	(31,179)	(32,370)	(33,146)	(34,397)	(35,062)	(43,652)	(45,392)	(42,893)	(40,652)	42.9
RURAL												
Diseases of heart	919.1	834.0	935.2	947.2	940.3	900.8	819.6	950.5	929.5	913.5	879.1	-4.4
Malignant neoplasms	847.8	764.5	810.8	828.2	792.5	794.6	788.7	803.9	777.9	780.8	792.3	-6.5
Chronic lower respiratory diseases	314.0	264.3	311.1	311.2	328.6	327.6	323.4	304.0	301.2	290.2	297.4	-5.3
Cerebrovascular diseases	164.1	157.9	195.8	204.0	193.6	196.1	187.2	202.0	206.8	198.9	186.0	13.3
Alzheimer's disease	117.2	118.7	184.1	211.9	218.2	211.3	190.6	218.6	174.1	181.2	161.6	37.9
ALL CAUSES	3665.4	3558.1	3706.3	3771.9	3708.2	3634.9	3566.0	4435.0	4588.6	4079.2	3841.6	4.8
(Number of all deaths)	(7,505)	(7,526)	(8,196)	(8,653)	(8,905)	(9,099)	(9,241)	(11,525)	(12,494)	(11,258)	(10,720)	42.8
TOTAL												
Diseases of heart	874.8	793.1	854.5	861.8	862.8	845.4	823.1	907.0	896.5	882.2	882.3	0.9
Malignant neoplasms	816.9	752.6	790.7	773.8	750.7	739.9	740.1	747.7	721.2	733.8	725.5	-11.2
Chronic lower respiratory diseases	292.3	267.6	296.8	292.8	279.3	272.6	256.0	249.6	232.6	229.8	223.2	-23.6
Cerebrovascular diseases	176.9	169.6	197.8	199.2	194.4	202.3	195.6	215.5	211.2	212.7	203.3	14.9
Alzheimer's disease	239.8	225.4	270.0	271.5	254.2	245.3	238.0	247.7	201.3	203.0	187.8	-21.7
ALL CAUSES	3667.5	3610.4	3671.5	3669.5	3579.6	3588.4	3511.9	4286.1	4304.7	3958.9	3699.1	0.9
(Number of all deaths)	(35,983)	(37,010)	(39,480)	(41,189)	(42,199)	(43,572)	(44,398)	(55,283)	(58,019)	(54,266)	(51,483)	43.1

Notes: ^a Rates are presented per 100,000 elderly persons 65 years and older; ^b The five causes with the greatest number of deaths over the 2013-2023 period; ^c Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; 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 2013-2023 are classified by ICD-10, replacing the Ninth Revision (ICD-9); 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**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2013-2019 and making it impossible to show a trend and a percent change.

TABLE 2C-25
MORTALITY RATES^a FOR THE FIVE LEADING CAUSES OF DEATH AMONG ELDERLY (65 YEARS AND OLDER)
BY GENDER IN URBAN AND RURAL AREAS^b, ARIZONA, 2013-2023

Area/Gender	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	% change from 2013
URBAN												
Male	3898.2	3888.6	3944.3	3960.2	3799.2	3891.3	3816.2	4695.5	4733.8	4322.2	4003.5	2.7
Female	3470.8	3388.5	3405.1	3344.3	3306.7	3297.9	3214.4	3856.4	3792.2	3580.9	3361.1	-3.2
TOTAL	3663.4	3615.6	3650.2	3624.7	3531.0	3568.4	3488.5	4238.3	4220.5	3918.1	3653.3	-0.3
RURAL												
Male	3895.3	3826.7	4027.0	4133.9	4142.9	4043.4	3971.6	4952.7	5262.3	4575.5	4367.0	12.1
Female	3454.5	3309.8	3409.1	3435.2	3304.1	3253.6	3188.9	3956.9	3966.8	3621.2	3356.6	-2.8
TOTAL	3665.4	3558.1	3706.3	3771.9	3708.2	3634.9	3566.0	4435.0	4588.6	4079.2	3841.6	4.8
TOTAL												
Male	3904.2	3883.3	3975.4	4019.0	3892.3	3932.5	3858.4	4761.0	4859.7	4387.4	4088.9	4.7
Female	3468.6	3378.3	3412.6	3371.1	3312.5	3293.6	3215.7	3881.4	3832.1	3594.1	3367.0	-2.9
TOTAL	3667.5	3610.4	3671.5	3669.5	3579.6	3588.4	3511.9	4286.1	4304.7	3958.9	3699.1	0.9

Notes: ^a Rates are presented per 100,000 persons 65 years and older; ^b Urban = 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, 2023**

Cause of death	Total	Gender		Area ^a			Race/ethnicity					
		Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused/Unknown
Diseases of heart	12,280	6,751	5,529	9,806	2,453	21	10,198	1,234	380	235	163	70
Malignant neoplasms	10,097	5,475	4,622	7,871	2,211	15	8,148	1,196	345	204	164	40
Malignant neoplasm of trachea, bronchus and lung	2,015	1,049	966	1,575	438	*	1,729	170	62	16	28	10
Malignant neoplasm of lymphoid, hematopoietic and related tissue	969	578	391	795	173	*	771	141	28	12	14	*
Malignant neoplasm of colon, rectum, and anus	896	484	412	678	218	0	711	111	41	21	12	0
Malignant neoplasm of pancreas	845	424	421	685	158	*	671	99	33	19	18	*
Malignant neoplasm of prostate	738	738	0	532	205	*	576	97	38	17	6	*
Malignant neoplasm of breast	640†	6	633	498	139	*	528	79	14	11	*	*
Chronic lower respiratory diseases	3,107	1,373	1,734	2,276	830	*	2,809	165	58	31	22	22
Cerebrovascular diseases	2,829	1,230	1,599	2,308	519	*	2,219	400	102	44	54	10
Alzheimer's disease	2,614	918	1,696	2,162	451	*	2,135	334	75	31	32	7
Accidents (unintentional injury)	2,033	1,162	871	1,633	394	6	1,604	246	49	84	30	20
Falls	1,130	561	569	950	178	*	953	119	9	30	14	*
Motor vehicle accidents	280†	193	88	206	75	0	200	45	12	17	*	*
Diabetes	1,618	950	668	1,276	336	6	1,040	336	67	120	47	8
Parkinson's disease	932	604	328	785	146	*	792	79	17	18	24	*
Essential (primary) hypertension and hypertensive disease	884	400	484	751	133	0	660	128	51	20	21	*
COVID-19	832	463	369	662	167	*	653	107	13	33	21	*
Influenza and pneumonia	698	368	330	540	156	*	519	99	22	39	15	*
Nephritis, nephrotic syndrome and nephrosis	628	348	280	467	160	*	425	108	35	38	18	*
Septicemia	400†	196	203	309	86	*	277	76	19	23	*	*
Total, all causes ^b	51,483	26,175	25,308	40,652	10,720	111	41,397	6,073	1,582	1,343	804	284

Notes: * Cell suppressed due to count less than 6; [†] Sum rounded to nearest tens unit due to addend less than 6; ^a Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; ^b May include other causes of death not shown above.

COMPARATIVE CAUSE-SPECIFIC MORTALITY BY AGE GROUP

TABLE 2C-27
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2023

	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	69,005	430	265	336	4,995	11,496	51,483
Salmonella infections	0	0	0	0	0	0	0
Shigellosis and amebiasis	0	0	0	0	0	0	0
Certain other intestinal infections	190†	*	0	*	6	26	159
Enterocolitis due to Clostridium difficile	110†	0	0	0	*	14	87
Tuberculosis	10†	0	0	0	*	*	8
Respiratory tuberculosis	10†	0	0	0	*	*	*
Other tuberculosis	0†	0	0	0	0	0	*
Whooping cough	0	0	0	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0	0	0	0
Meningococcal infection	0	0	0	0	0	0	0
Septicemia	550†	*	6	*	27	119	399
Syphilis	10†	0	0	0	*	0	*
Acute poliomyelitis	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0
Viral hepatitis	70†	0	0	0	*	28	36
Human immunodeficiency virus (HIV) disease	77	0	0	0	16	44	17
Malaria	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	390†	6	10	*	17	96	255
Malignant neoplasms	12,920†	*	26	14	315	2,467	10,097
Malignant neoplasm of lip, oral cavity and pharynx	244	0	0	0	8	57	179
Malignant neoplasm of esophagus	350†	0	0	0	*	60	285
Malignant neoplasm of stomach	228	0	0	0	15	72	141
Malignant neoplasm of colon, rectum, and anus	1,254	0	0	0	41	317	896
Malignant neoplasm of liver and intrahepatic bile ducts	701	0	0	0	15	146	540
Malignant neoplasm of pancreas	1,052	0	0	0	8	199	845
Malignant neoplasm of larynx	80†	0	0	0	*	23	56
Malignant neoplasm of trachea, bronchus and lung	2,408	0	0	0	6	387	2,015
Malignant melanoma of skin	210†	0	*	0	8	54	145
Malignant neoplasm of breast	914	0	0	0	40	235	639
Malignant neoplasm of cervix uteri	80	0	0	0	14	39	27
Malignant neoplasm of corpus uteri and uterus, part unspecified	235	0	0	0	12	55	168
Malignant neoplasm of ovary	330†	0	0	*	12	90	221
Malignant neoplasm of prostate	795	0	0	0	0	57	738
Malignant neoplasm of kidney and renal pelvis	320†	0	*	0	*	64	255
Malignant neoplasm of bladder	370†	0	0	0	*	32	333

TABLE 2C-27 (continued)
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2023

	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 central nervous system	360†	*	*	*	26	91	238
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,180†	*	6	*	31	168	969
Hodgkin's disease	20†	0	0	0	*	*	11
Non-Hodgkin's lymphoma	400†	0	0	*	6	48	343
Leukemia	530†	*	6	*	22	74	422
Multiple myeloma and immunoproliferative neoplasms	230†	0	0	0	*	40	188
Other and unspecified malignant neoplasms of lymphoid tissue	10†	0	0	0	0	*	*
All other and unspecified malignant neoplasm	1,819	0	14	8	69	321	1,407
In situ neoplasms	390†	*	0	0	9	41	335
Anemias	81	0	0	0	7	8	66
Diabetes	2,330†	0	*	*	102	606	1,618
Nutritional deficiencies	750†	0	*	0	*	38	711
Malnutrition	730†	0	*	0	*	35	692
Other nutritional deficiencies	20†	0	0	0	0	*	19
Obesity	226	0	0	0	46	82	98
Meningitis	20†	0	*	0	*	7	9
Parkinson's disease	944	0	0	0	0	12	932
Alzheimer's disease	2,642	0	0	0	0	28	2,614
Major cardiovascular diseases	19,415	12	16	7	341	2,582	16,457
Diseases of heart	14,510†	10	13	*	251	1,957	12,280
Acute rheumatic fever and chronic rheumatic heart disease	100†	0	0	0	*	11	82
Hypertensive heart disease	2,095	0	0	0	52	266	1,777
Hypertensive heart and renal disease	310†	0	0	0	*	20	287
Ischemic heart disease	8,070†	0	0	*	86	1,175	6,808
Acute myocardial infarction	1,649	0	0	0	14	321	1,314
Other acute ischemic heart disease	60†	0	0	0	*	11	50
Other forms of chronic ischemic heart disease	6,360†	0	0	*	69	843	5,444
Atherosclerotic cardiovascular disease	1,790†	0	0	*	40	454	1,292
All other forms of chronic ischemic heart disease	4,570	0	0	0	29	389	4,152
Other heart diseases	3,950†	10	13	*	109	485	3,326
Acute and subacute endocarditis	40†	*	0	0	*	8	24
Diseases of pericardium and acute myocarditis	20†	0	*	0	0	*	10
Heart failure	1,090†	*	0	0	13	91	984
All other forms of heart disease	2,790†	6	10	*	85	381	2,308
Essential (primary) hypertension and hypertensive renal disease	1,060†	0	*	0	18	157	884
Cerebrovascular diseases	3,240†	*	*	*	48	356	2,829
Atherosclerosis	100	0	0	0	0	9	91

TABLE 2C-27 (continued)
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2023

	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	500†	0	0	*	24	103	371
Aortic aneurysm and dissection	264	0	0	0	15	71	178
Other disease of arteries, arterioles and capillaries	240†	0	0	*	9	32	193
Other disorders of circulatory system	130†	*	0	0	16	37	80
Influenza and pneumonia	930†	*	*	*	59	166	698
Influenza	70†	0	*	*	11	15	42
Pneumonia	860†	*	*	*	48	151	656
COVID-19	950†	*	*	*	17	99	832
Other acute lower respiratory infections	10†	0	0	0	0	*	*
Acute bronchiolitis	0†	0	0	0	0	*	*
Unspecified acute lower respiratory infection	0†	0	0	0	0	0	*
Chronic lower respiratory diseases	3,480†	0	*	0	23	342	3,107
Bronchitis, chronic and unspecified	8	0	0	0	0	0	8
Emphysema	200†	0	0	0	*	25	172
Asthma	70†	0	*	0	16	19	37
Other chronic lower respiratory diseases	3,200†	0	*	0	6	298	2,890
Pneumoconioses and chemical effects	8	0	0	0	0	0	8
Pneumonitis due to solids and liquids	250†	0	0	*	7	45	193
Other disease of respiratory system	1,190†	*	*	0	23	168	994
Peptic ulcer	100†	0	*	0	6	21	73
Diseases of appendix	10†	0	*	0	0	*	9
Hernia	60†	0	0	0	*	7	49
Chronic liver disease and cirrhosis	1,424	0	0	0	249	628	547
Alcoholic liver disease	860	0	0	0	195	423	242
Other chronic liver disease and cirrhosis	564	0	0	0	54	205	305
Cholelithiasis and other disorders of gallbladder	90†	0	0	0	*	12	77
Nephritis, nephrotic syndrome and nephrosis	810†	0	0	*	29	153	628
Acute and rapidly progressive nephritic and nephrotic syndrome	10†	0	0	0	0	*	7
Chronic glomerulonephritis	20†	0	0	*	*	*	9
Renal failure	785	0	0	0	26	149	610
Others disorders of kidney	0†	0	0	0	0	0	*
Infections of kidney	30†	0	0	0	*	6	23
Hyperplasia of prostate	14	0	0	0	0	0	14
Inflammatory diseases of female pelvic organs	10†	0	0	0	0	*	*
Pregnancy, childbirth and the puerperium	30†	0	0	*	23	*	0
Pregnancy with abortive outcome	0†	0	0	0	*	0	0
Other complications of pregnancy, childbirth and the puerperium	20†	0	0	*	22	*	0

TABLE 2C-27 (continued)
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2023

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Perinatal conditions	212	212	0	0	0	0	0
Congenital anomalies, deformations and chromosomal abnormalities	230†	96	14	*	27	41	42
Symptoms, signs, abnormal findings	690†	43	6	*	68	114	455
Total accidents	6,000	19	90	132	2,074	1,652	2,033
Transport accidents	1,300†	*	34	80	542	359	281
Motor vehicle accidents	1,400†	*	37	81	578	389	312
Other land transport accidents	40†	0	*	0	20	11	12
Water, air, space	60†	0	*	*	16	19	19
Nontransport accidents	4,600	16	53	51	1,496	1,263	1,721
Falls	1,290†	0	*	0	36	119	1,130
Accidental discharge of firearms	10†	0	0	0	*	*	0
Accidental drowning and submersion	120†	*	21	6	31	27	33
Accidental exposure to smoke, fire and flames	70†	*	11	*	11	12	31
Accidental poisoning	2,483	0	7	39	1,328	916	193
Other and unspecified nontransport accidents	640†	13	12	*	85	188	334
Intentional self-harm (suicide)	1,485	0	12	62	621	407	383
By discharge of firearms	940†	0	*	31	345	268	292
By other means	545	0	8	31	276	139	91
Assault (homicide)	530†	*	13	70	299	112	31
By discharge of firearms	406	0	9	67	241	75	14
By other means	120†	*	*	*	58	37	17
Legal intervention	30†	0	0	*	24	6	*
Events of undetermined intent	158	6	13	9	68	42	20
Discharge of firearms	20†	0	*	*	14	0	*
Other and unspecified events of undetermined intent	140†	6	10	*	54	42	19
Operations of war	0†	0	0	0	0	0	*
Complications of medical and surgical care	60†	0	*	0	6	8	47
Injury by firearms	1,405	0	16	104	627	350	308
Drug-induced deaths	2,710†	*	14	41	1,397	989	262
Opioid-induced deaths	1,930†	*	13	34	1,142	602	136
Alcohol-induced deaths	1,470†	0	0	*	372	694	399

Notes: * Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; 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 RATES^a BY AGE GROUP, ARIZONA, 2023

	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	917.0	552.1	20.4	68.7	201.1	645.9	3699.1
Salmonella infections	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shigellosis and amebiasis	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Certain other intestinal infections	2.6	**	0.0	**	0.2	1.5	11.4
Enterocolitis due to Clostridium difficile	1.4	0.0	0.0	0.0	**	0.8	6.3
Tuberculosis	0.1	0.0	0.0	0.0	**	**	0.6
Respiratory tuberculosis	0.1	0.0	0.0	0.0	**	**	**
Other tuberculosis	0.1	0.0	0.0	0.0	0.0	0.0	**
Whooping cough	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scarlet fever and erysipelas	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meningococcal infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Septicemia	7.3	**	0.5	**	1.1	6.7	28.7
Syphilis	0.1	0.0	0.0	0.0	**	0.0	**
Acute poliomyelitis	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Arthropod-borne encephalitis	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Measles	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Viral hepatitis	0.9	0.0	0.0	0.0	**	1.6	2.6
Human immunodeficiency virus (HIV) disease	1.0	0.0	0.0	0.0	0.6	2.5	1.2
Malaria	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other and unspecified infectious and parasitic diseases	5.1	7.7	0.8	**	0.7	5.4	18.3
Malignant neoplasms	171.7	**	2.0	2.9	12.7	138.6	725.5
Malignant neoplasm of lip, oral cavity and pharynx	3.2	0.0	0.0	0.0	0.3	3.2	12.9
Malignant neoplasm of esophagus	4.7	0.0	0.0	0.0	**	3.4	20.5
Malignant neoplasm of stomach	3.0	0.0	0.0	0.0	0.6	4.0	10.1
Malignant neoplasm of colon, rectum, and anus	16.7	0.0	0.0	0.0	1.7	17.8	64.4
Malignant neoplasm of liver and intrahepatic bile ducts	9.3	0.0	0.0	0.0	0.6	8.2	38.8
Malignant neoplasm of pancreas	14.0	0.0	0.0	0.0	0.3	11.2	60.7
Malignant neoplasm of larynx	1.1	0.0	0.0	0.0	**	1.3	4.0
Malignant neoplasm of trachea, bronchus and lung	32.0	0.0	0.0	0.0	0.2	21.7	144.8
Malignant melanoma of skin	2.8	0.0	**	0.0	0.0	3.0	10.4
Malignant neoplasm of breast	12.1	0.0	0.0	0.0	1.6	13.2	45.9
Malignant neoplasm of cervix uteri	2.1	0.0	0.0	0.0	1.2	4.3	3.6
Malignant neoplasm of corpus uteri and uterus, part unspecified	6.2	0.0	0.0	0.0	1.0	6.0	22.4
Malignant neoplasm of ovary	8.6	0.0	0.0	**	1.0	9.9	29.4
Malignant neoplasm of prostate	21.3	0.0	0.0	0.0	0.0	6.6	115.3
Malignant neoplasm of kidney and renal pelvis	4.3	0.0	**	0.0	**	3.6	18.3
Malignant neoplasm of bladder	4.9	0.0	0.0	0.0	**	1.8	23.9

TABLE 2C-28 (continued)
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES^a BY AGE GROUP, ARIZONA, 2023

	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 central nervous system	4.8	**	**	**	1.0	5.1	17.1
Malignant neoplasm of lymphoid, hematopoietic and related tissue	15.7	**	0.5	**	1.2	9.4	69.6
Hodgkin's disease	0.2	0.0	0.0	0.0	**	**	0.8
Non-Hodgkin's lymphoma	5.3	0.0	0.0	**	0.2	2.7	24.6
Leukemia	7.0	**	0.5	**	0.9	4.2	30.3
Multiple myeloma and immunoproliferative neoplasms	3.0	0.0	0.0	0.0	**	2.2	13.5
Other and unspecified malignant neoplasms of lymphoid tissue	0.1	0.0	0.0	0.0	0.0	**	**
All other and unspecified malignant neoplasm	24.2	0.0	1.1	1.6	2.8	18.0	101.1
In situ neoplasms	5.2	**	0.0	0.0	0.4	2.3	24.1
Anemias	1.1	0.0	0.0	0.0	0.3	0.4	4.7
Diabetes	31.0	0.0	**	**	4.1	34.0	116.3
Nutritional deficiencies	10.0	0.0	**	0.0	**	2.1	51.1
Malnutrition	9.7	0.0	**	0.0	**	2.0	49.7
Other nutritional deficiencies	0.3	0.0	0.0	0.0	0.0	**	1.4
Obesity	3.0	0.0	0.0	0.0	1.9	4.6	7.0
Meningitis	0.3	0.0	**	0.0	**	0.4	0.7
Parkinson's disease	12.5	0.0	0.0	0.0	0.0	0.7	67.0
Alzheimer's disease	35.1	0.0	0.0	0.0	0.0	1.6	187.8
Major cardiovascular diseases	258.0	15.4	1.2	1.4	13.7	145.1	1182.4
Diseases of heart	192.9	12.8	1.0	**	10.1	110.0	882.3
Acute rheumatic fever and chronic rheumatic heart disease	1.3	0.0	0.0	0.0	**	0.6	5.9
Hypertensive heart disease	27.8	0.0	0.0	0.0	2.1	14.9	127.7
Hypertensive heart and renal disease	4.1	0.0	0.0	0.0	**	1.1	20.6
Ischemic heart disease	107.2	0.0	0.0	**	3.5	66.0	489.2
Acute myocardial infarction	21.9	0.0	0.0	0.0	0.6	18.0	94.4
Other acute ischemic heart disease	0.9	0.0	0.0	0.0	**	0.6	3.6
Other forms of chronic ischemic heart disease	84.5	0.0	0.0	**	2.8	47.4	391.2
Atherosclerotic cardiovascular disease	23.7	0.0	0.0	**	1.6	25.5	92.8
All other forms of chronic ischemic heart disease	60.7	0.0	0.0	0.0	1.2	21.9	298.3
Other heart diseases	52.4	12.8	1.0	**	4.4	27.3	239.0
Acute and subacute endocarditis	0.5	**	0.0	0.0	**	0.4	1.7
Diseases of pericardium and acute myocarditis	0.3	0.0	**	0.0	0.2	**	0.7
Heart failure	14.5	**	0.0	0.0	0.5	5.1	70.7
All other forms of heart disease	37.1	7.7	0.8	**	3.4	21.4	165.8
Essential (primary) hypertension and hypertensive renal disease	14.1	0.0	**	0.0	0.7	8.8	63.5
Cerebrovascular diseases	43.1	**	**	**	1.9	20.0	203.3
Atherosclerosis	1.3	0.0	0.0	0.0	0.0	0.5	6.5

TABLE 2C-28 (continued)
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES^a BY AGE GROUP, ARIZONA, 2023

	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	6.6	0.0	0.0	**	1.0	5.8	26.7
Aortic aneurysm and dissection	3.5	0.0	0.0	0.0	0.6	4.0	12.8
Other disease of arteries, arterioles and capillaries	3.1	0.0	0.0	**	0.4	1.8	13.9
Other disorders of circulatory system	1.8	**	0.0	0.0	0.6	2.1	5.8
Influenza and pneumonia	12.4	**	**	**	2.4	9.3	50.2
Influenza	0.9	0.0	**	**	0.4	0.8	3.0
Pneumonia	11.4	**	**	**	1.9	8.5	47.1
COVID-19	12.7	**	**	**	0.7	5.6	59.8
Other acute lower respiratory infections	0.1	0.0	0.0	0.0	0.0	**	**
Acute bronchiolitis	0.0	0.0	0.0	0.0	0.0	**	**
Unspecified acute lower respiratory infection	0.0	0.0	0.0	0.0	0.0	0.0	**
Chronic lower respiratory diseases	46.2	0.0	**	0.0	0.9	19.2	223.2
Bronchitis, chronic and unspecified	0.1	0.0	0.0	0.0	0.0	0.0	0.6
Emphysema	2.6	0.0	0.0	0.0	**	1.4	12.4
Asthma	1.0	0.0	**	0.0	0.6	1.1	2.7
Other chronic lower respiratory diseases	42.5	0.0	**	0.0	0.2	16.7	207.7
Pneumoconioses and chemical effects	0.1	0.0	0.0	0.0	0.0	0.0	0.6
Pneumonitis due to solids and liquids	3.3	0.0	0.0	**	0.3	2.5	13.9
Other disease of respiratory system	15.8	**	**	0.0	0.9	9.4	71.4
Peptic ulcer	1.3	0.0	**	0.0	0.2	1.2	5.2
Diseases of appendix	0.1	0.0	**	0.0	0.0	**	0.7
Hernia	0.8	0.0	0.0	0.0	**	0.4	3.5
Chronic liver disease and cirrhosis	18.9	0.0	0.0	0.0	10.0	35.3	39.3
Alcoholic liver disease	11.4	0.0	0.0	0.0	7.8	23.8	17.4
Other chronic liver disease and cirrhosis	7.5	0.0	0.0	0.0	2.2	11.5	21.9
Cholelithiasis and other disorders of gallbladder	1.2	0.0	0.0	0.0	**	0.7	5.5
Nephritis, nephrotic syndrome and nephrosis	10.8	0.0	0.0	**	1.2	8.6	45.1
Acute and rapidly progressive nephritic and nephrotic syndrome	0.1	0.0	0.0	0.0	0.0	**	0.5
Chronic glomerulonephritis	0.2	0.0	0.0	**	**	**	0.7
Renal failure	10.4	0.0	0.0	0.0	1.0	8.4	43.8
Others disorders of kidney	0.0	0.0	0.0	0.0	0.0	0.0	**
Infections of kidney	0.4	0.0	0.0	0.0	**	0.3	1.7
Hyperplasia of prostate	0.4	0.0	0.0	0.0	0.0	0.0	2.2
Inflammatory diseases of female pelvic organs	0.1	0.0	0.0	0.0	0.0	**	**
Pregnancy, childbirth and the puerperium	0.7	0.0	0.0	**	1.9	**	0.0
Pregnancy with abortive outcome	0.0	0.0	0.0	0.0	**	0.0	0.0
Other complications of pregnancy, childbirth and the puerperium	0.6	0.0	0.0	**	1.8	**	0.0

TABLE 2C-28 (continued)
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES^a BY AGE GROUP, ARIZONA, 2023

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Perinatal conditions	2.8	272.2	0.0	0.0	0.0	0.0	0.0
Congenital anomalies, deformations and chromosomal abnormalities	3.0	123.3	1.1	**	1.1	2.3	3.0
Symptoms, signs, abnormal findings	9.2	55.2	0.5	**	2.7	6.4	32.7
Total accidents	79.7	24.4	**	27.0	83.5	92.8	146.1
Transport accidents	18.6	**	2.9	16.6	23.3	21.9	22.4
Motor vehicle accidents	17.3	**	2.6	16.4	21.8	20.2	20.2
Other land transport accidents	0.6	0.0	**	0.0	0.8	0.6	0.9
Water, air, space	0.8	0.0	**	**	0.6	1.1	1.4
Nontransport accidents	61.1	20.5	4.1	10.4	60.2	71.0	123.7
Falls	17.1	0.0	**	0.0	1.4	6.7	81.2
Accidental discharge of firearms	0.1	0.0	0.0	0.0	**	**	0.0
Accidental drowning and submersion	1.6	**	1.6	1.2	1.2	1.5	2.4
Accidental exposure to smoke, fire and flames	0.9	**	0.8	**	0.4	0.7	2.2
Accidental poisoning	33.0	0.0	0.5	8.0	53.5	51.5	13.9
Other and unspecified nontransport accidents	8.5	16.7	0.9	**	3.4	10.6	24.0
Intentional self-harm (suicide)	19.7	0.0	0.9	12.7	25.0	22.9	27.5
By discharge of firearms	12.5	0.0	**	6.3	13.9	15.1	21.0
By other means	7.2	0.0	0.6	6.3	11.1	7.8	6.5
Assault (homicide)	7.0	**	1.0	14.3	12.0	6.3	2.2
By discharge of firearms	5.4	0.0	0.7	13.7	9.7	4.2	1.0
By other means	1.6	**	**	**	2.3	2.1	1.2
Legal intervention	0.4	0.0	0.0	**	1.0	0.3	**
Events of undetermined intent	2.1	7.7	1.0	1.8	2.7	2.4	1.4
Discharge of firearms	0.3	0.0	**	**	0.6	0.0	**
Other and unspecified events of undetermined intent	1.8	7.7	0.8	**	2.2	2.4	1.4
Operations of war	0.0	0.0	0.0	0.0	0.0	0.0	**
Complications of medical and surgical care	0.8	0.0	**	0.0	0.2	0.4	3.4
Injury by firearms ^b	18.7	0.0	1.2	21.3	25.2	19.7	22.1
Drug-induced deaths ^b	35.9	**	1.1	8.4	56.2	55.6	18.8
Opioid-induced deaths	25.6	**	1.0	7.0	46.0	33.8	9.8
Alcohol-induced deaths ^b	19.5	0.0	0.0	**	15.0	39.0	28.7

Notes: ** Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; ^a The rates for infants <1 year of age are per 100,000 births; all other rates are per 100,000 population in specified group; the rates for malignant neoplasm of cervix uteri, corpus uteri, ovary, inflammatory disease of female pelvic organs and complications of pregnancy are per 100,000 females; the rates for prostate cancer and hyperplasia of prostate are per 100,000 males; ^b Included in selected categories above.



2D.

PATTERNS OF PREMATURE MORTALITY

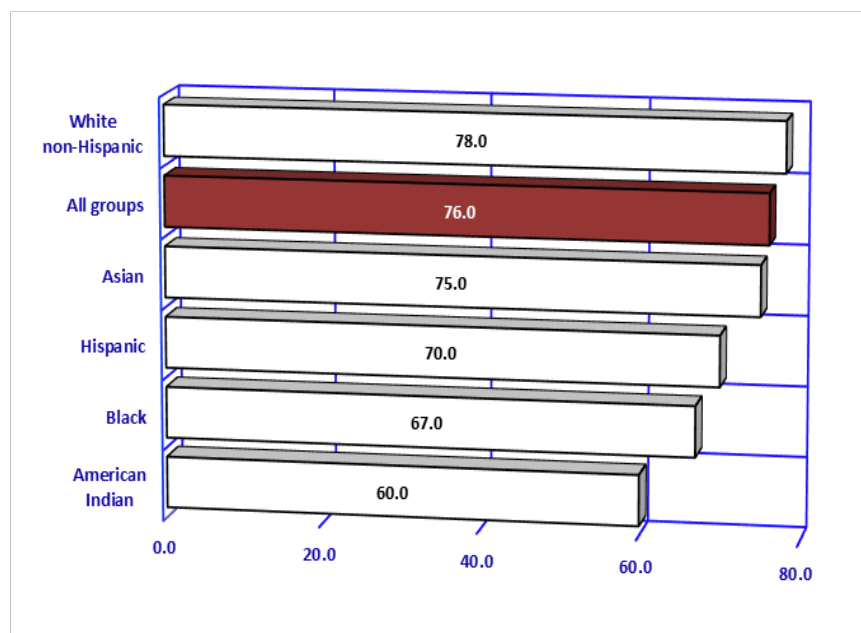
In 2023, among the race/ethnic minority groups (Hispanic or Latino, Black or African American, American Indian or Alaska Native, Asian or Pacific Islander), people younger than 25 years represented 41.4 percent of the group total (n= 3,387,843), while among White non-Hispanics the same age demographic accounted for 23.6 percent of the group total (n= 4,137,270). In contrast, people aged 65 years and older accounted for 26.7 percent of White non-Hispanics, but only 8.5 percent of all ethnic minority groups combined (percentages based on race-and-age-specific population denominators in **Table 10C-1**).

Arizona's population distribution by age and race/ethnicity is related to patterns of mortality among these subgroups. In 2023, of all deaths among the elderly (65 years and older), 80.4 percent were White non-Hispanics, 11.8 percent were Hispanic or Latino, with the remaining three racial/ethnic groups comprising only 7.2 percent of all deaths in this age group (**Table 2C-26**). Looking at younger ages, Native American children comprised only 4.9 percent of Arizona's population age 1–14, but accounted for 7.2 percent of all childhood deaths. Native American adolescents (ages 15–19) represented only 4.7 percent of all adolescents, but accounted for 11.3 percent of all adolescent deaths. Finally, Native American young adults (ages 20–44) represented 4.5 percent of all young adults but comprised 16.0 percent of all young adult deaths. In summary, Arizona's racial/ethnic minority groups tend to experience mortality earlier in life than Arizona's White non-Hispanics.

Beginning with the 2005 edition of the report, information about the arithmetic mean age at death was supplemented with information about the median age, or the age in the center of the distribution when sorted by age (see **Table 2D-1**). The median age is higher than the arithmetic mean age in negatively skewed distributions.

2D. PATTERNS OF PREMATURE MORTALITY

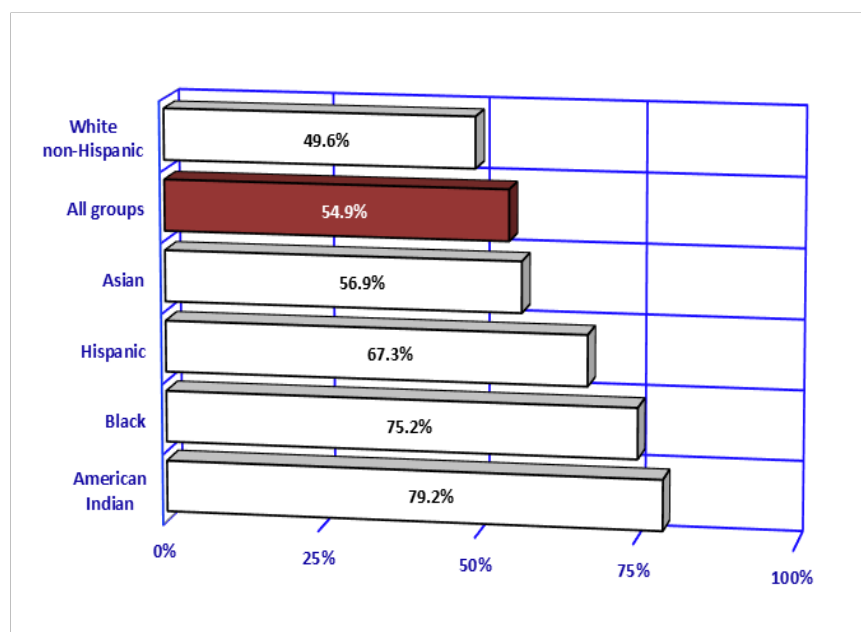
Figure 2D-1
Median Age at Death by Race/Ethnicity, Arizona, 2023



The median age at death was 77 years in 2013, and lowered to 74 in 2021, but increased to 76 years in 2022 and 2023 (**Table 2D-1**). In other words, one of every two Arizonans who died in 2023 was older than 76 years of age. Among Arizona females, the median age at death was 79 years old when they died in 2023. Among males, the median age at death was 74 years in 2023. **Table 2D-1** shows both the median age at death by race/ethnicity and gender from 2013-2023.

In 2023, compared to White non-Hispanics, Asians were 3 years younger at time of death, Hispanics were 8 years younger, Blacks were 11 years younger, and American Indian residents of Arizona were 18 years younger (based on the median age at death).

Figure 2D-2
Percent of Deaths before Expected^a Years of Life Reached by Race/Ethnicity, Arizona, 2023



Note: ^a Expected years of life at birth for all U.S. residents (78.4 years).

In 2023, the percent of deaths before expected years of life reached (a premature death ratio) was 54.9 percent. This is similar to 2013 when it was 54.6 percent. (**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**).

Among American Indians, nearly eight out of ten deaths (79.2 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, 2023

In 2023, *Alzheimer's disease* had the highest median age of death at 86 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 34 years.

From 2010-2015, *cancer* 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* (74 years) is substantially lower than the median age at death from *diseases of the heart* (80 years).

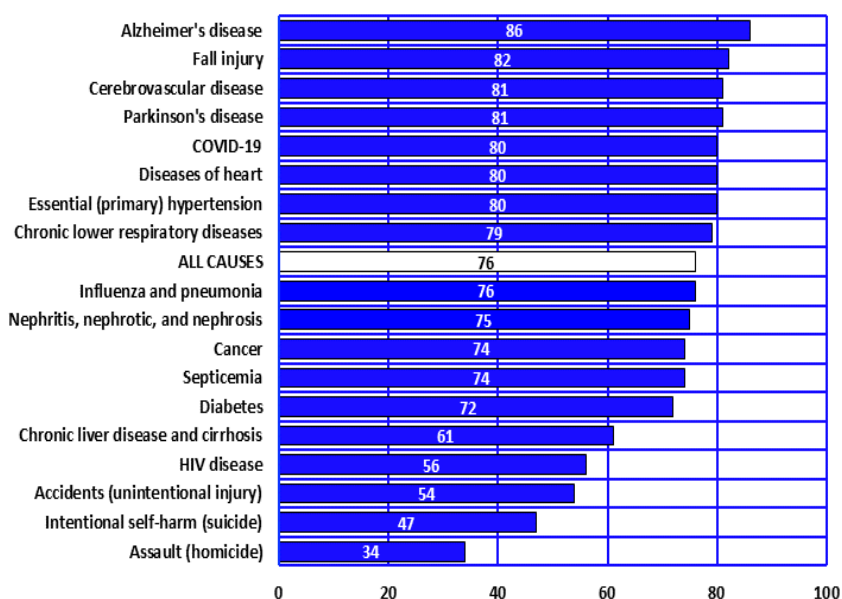
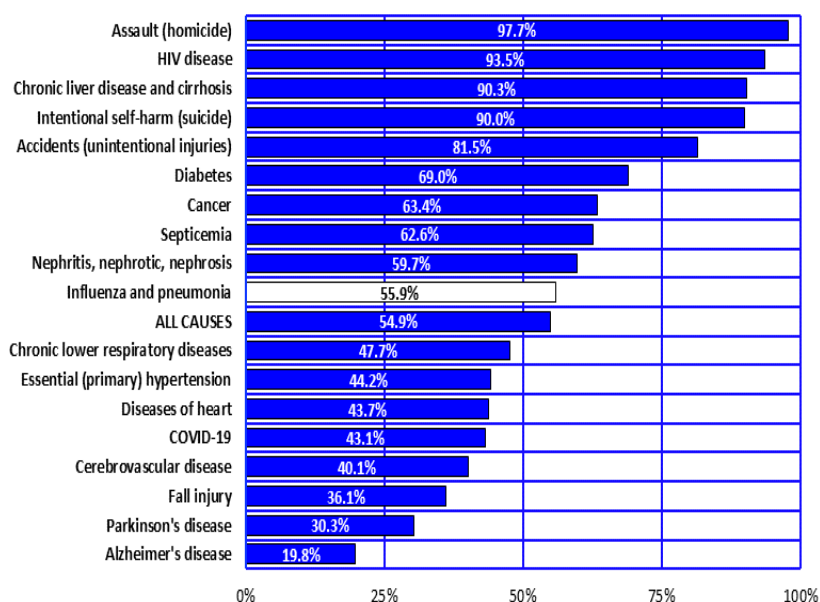


Figure 2D-4
Percent of Deaths before Expected Years of Life^a Reached for Selected Leading Causes of Death, Arizona, 2023

Only 19.8 percent of deaths from *Alzheimer's disease* occurred before the age of 78.4 years, i.e., before the expected years of life were reached. In contrast, almost all deaths from *homicide* were premature (97.7 percent; **Figure 2D-4, Table 2D-4**). The median age at death from *homicide* was 34 years in 2023, showing a decrease from 35 years recorded in 2022 (**Figure 2D-3, Table 2D-3**).

A minority of deaths from *diseases of heart* were premature (43.7 percent). In contrast 63.4 percent of deaths from *cancer* occurred before the expected years of life were reached.



Note: ^a Expected years of life at birth for all U.S. residents (78.4 years).

**TABLE 2D-1
AVERAGE AND MEDIAN AGE AT DEATH FROM ALL CAUSES BY GENDER AND RACE/ETHNICITY, ARIZONA, 2013-2023**

Year	Gender	All ethnic groups		Race/ethnicity											
		Mean	Median	White non-Hispanic		Hispanic or Latino		Black or African American		American Indian or Alaska Native		Asian or Pacific Islander			
				Mean	Median	Mean	Median	Mean	Median	Mean	Median	Mean	Median		
2013	Total	72.5	77.0	75.2	79.0	64.3	69.0	63.1	66.0	58.3	60.0	70.9	76.0		
	Male	69.6	74.0	72.6	76.0	60.6	64.0	59.5	63.0	54.7	55.0	68.4	73.0		
	Female	75.8	81.0	78.0	82.0	68.6	75.0	67.7	73.0	63.1	67.0	73.3	78.0		
2014	Total	72.7	76.0	75.1	78.0	64.7	69.0	62.7	65.0	59.3	61.0	70.3	74.0		
	Male	70.0	73.0	72.6	75.0	61.7	65.0	60.5	63.0	55.7	57.0	66.2	71.0		
	Female	75.8	80.0	77.9	81.0	68.4	74.0	65.3	67.0	63.8	66.0	74.1	79.0		
2015	Total	72.5	76.0	74.9	78.0	64.8	69.0	62.8	66.0	58.5	60.0	70.0	75.0		
	Male	69.9	73.0	72.5	75.0	61.7	66.0	60.4	64.0	55.0	56.0	67.3	71.0		
	Female	75.5	79.0	77.5	81.0	68.7	74.0	65.9	69.0	62.9	66.0	72.6	77.0		
2016	Total	72.9	76.0	75.4	78.0	65.0	69.0	63.4	66.0	58.9	60.0	69.2	74.0		
	Male	70.3	73.0	73.2	75.0	61.9	65.0	60.3	63.0	55.8	56.0	65.1	69.5		
	Female	75.9	79.0	78.0	81.0	69.1	75.0	67.6	71.0	63.3	66.0	72.9	78.0		
2017	Total	72.6	76.0	75.2	78.0	64.9	69.0	62.7	65.0	58.9	61.0	70.3	75.0		
	Male	69.9	73.0	72.8	76.0	61.5	65.0	58.7	62.0	55.7	57.0	67.6	72.0		
	Female	75.8	79.0	77.9	81.0	69.3	75.0	67.8	69.0	63.1	67.0	72.7	77.0		
2018	Total	72.5	76.0	75.2	78.0	65.2	70.0	63.5	67.0	58.2	60.0	71.2	75.0		
	Male	69.7	73.0	72.8	76.0	61.4	65.0	60.2	63.0	54.7	56.0	68.3	72.0		
	Female	75.9	80.0	77.9	81.0	70.2	76.0	67.3	70.0	62.9	66.0	73.8	78.0		
2019	Total	72.5	76.0	75.3	78.0	65.0	70.0	62.3	66.0	59.7	62.0	69.9	74.0		
	Male	69.8	74.0	72.9	76.0	61.1	65.0	59.9	65.0	56.5	58.0	66.5	71.0		
	Female	75.7	79.0	78.0	81.0	70.0	75.0	65.1	68.0	63.8	67.0	73.5	77.0		
2020	Total	72.1	76.0	75.3	78.0	65.4	69.0	62.1	65.0	60.2	62.0	72.0	76.0		
	Male	69.5	73.0	73.0	76.0	62.1	66.0	59.3	63.0	57.4	59.0	68.0	72.0		
	Female	75.4	79.0	77.8	80.0	70.0	74.0	66.2	69.0	63.7	66.0	75.9	79.0		
2021	Total	71.2	74.0	74.5	77.0	64.0	67.0	61.2	65.0	57.8	59.0	70.5	74.0		
	Male	68.8	72.0	72.5	75.0	60.9	64.0	58.6	62.0	54.9	56.0	67.4	71.0		
	Female	74.2	77.0	77.0	79.0	68.3	72.0	64.6	68.0	61.6	63.0	73.7	77.0		
2022	Total	72.1	76.0	75.1	78.0	64.9	69.0	62.4	66.0	57.9	59.0	70.4	75.0		
	Male	69.4	73.0	72.8	76.0	61.3	65.0	59.4	63.0	54.5	55.0	65.7	71.0		
	Female	75.3	79.0	77.7	80.0	69.7	74.0	66.3	70.0	62.6	66.0	74.9	78.0		
2023	Total	72.4	76.0	75.4	78.0	64.8	70.0	62.7	67.0	58.5	60.0	70.8	75.0		
	Male	69.7	74.0	73.2	76.0	61.1	65.0	59.9	64.0	55.0	56.0	67.3	71.0		
	Female	75.6	79.0	77.8	80.0	69.7	75.0	66.6	70.0	63.3	67.0	74.3	78.0		

Notes: 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 REACHED
BY GENDER AND RACE/ETHNICITY, ARIZONA, 2013-2023

Year/gender	All racial/ethnic groups	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
2013 Total	54.6	50.1	67.1	72.8	76.7	58.9
Male	62.0	57.5	75.0	80.8	82.7	65.0
Female	46.2	42.1	57.7	62.4	68.9	53.2
2014^a Total	54.8	50.9	66.7	75.2	77.8	58.9
Male	62.0	58.0	74.1	79.7	84.1	68.9
Female	46.7	43.1	57.7	69.8	69.8	49.7
2015^a Total	54.9	50.9	67.4	74.1	77.4	59.9
Male	61.6	57.6	73.9	78.5	83.2	66.8
Female	47.2	43.4	59.1	68.6	70.2	53.1
2016 Total	55.3	51.4	66.7	73.5	77.1	58.5
Male	62.1	57.9	73.4	79.9	82.4	67.3
Female	47.5	44.1	57.9	64.9	69.7	50.6
2017 Total	55.1	50.6	67.0	75.1	77.9	58.7
Male	61.8	57.0	74.1	82.0	84.0	63.1
Female	47.3	43.3	58.0	66.1	69.9	54.7
2018 Total	55.1	50.8	65.6	73.3	78.8	57.7
Male	62.1	57.4	73.4	80.3	83.9	64.9
Female	46.9	43.2	55.1	65.2	71.9	51.2
2019 Total	55.6	50.8	67.3	75.3	77.8	60.2
Male	61.9	56.9	74.7	78.8	82.8	67.7
Female	48.2	43.9	57.9	71.0	71.5	52.3
2020 Total	52.2	46.1	65.0	72.9	75.6	51.0
Male	58.6	52.0	72.1	78.1	80.7	58.2
Female	44.5	39.3	55.0	65.3	69.1	44.2
2021 Total	52.7	45.9	67.2	74.0	79.1	52.8
Male	58.6	51.4	73.8	79.0	84.3	59.2
Female	45.4	39.3	58.1	67.5	72.5	46.4
2022 Total	53.6	48.1	66.0	74.3	77.8	54.6
Male	59.9	53.9	73.4	79.6	83.8	62.5
Female	45.9	41.3	56.1	67.2	69.7	47.1
2023 Total	54.9	49.6	67.3	75.2	79.2	56.9
Male	61.2	55.2	74.9	81.2	86.2	63.7
Female	47.4	43.1	57.6	66.8	69.6	50.1

Note: ^a Based on updated expected years of life at birth for all U.S. residents (78.4 years in 2023).

**TABLE 2D-3
MEDIAN AGE AT DEATH FOR LEADING CAUSES OF MORTALITY BY GENDER, RACE/ETHNICITY, AND
URBAN/RURAL AREAS^a, ARIZONA, 2023**

	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 Pacific Islander
Total, all causes	76.0	74.0	79.0	76.0	74.0	79.0	75.0	74.0	78.0	78.0	70.0	67.0	60.0	75.0
Major cardiovascular diseases	80.0	77.0	83.0	81.0	78.0	83.0	78.0	76.0	82.0	81.0	76.0	71.0	69.0	79.5
Diseases of heart	80.0	78.0	83.0	81.0	78.0	84.0	78.0	76.0	81.0	81.0	76.0	70.0	69.0	79.0
Coronary heart disease	80.0	77.0	84.0	80.0	78.0	84.0	77.0	75.0	80.0	81.0	76.0	71.0	70.0	80.0
Malignant neoplasms	74.0	74.0	74.0	74.0	74.0	74.0	74.0	75.0	74.0	75.0	70.0	69.0	69.0	71.0
Lung cancer	75.0	74.0	75.0	75.0	75.0	75.0	73.0	74.0	73.0	75.0	73.0	71.0	73.5	68.0
Prostate cancer	80.0	80.0	0.0	80.0	80.0	0.0	81.0	81.0	0.0	80.0	80.0	75.0	77.0	79.0
Breast cancer	72.0	76.5	72.0	72.0	77.0	72.0	73.0	57.0	73.0	73.5	66.5	62.0	63.0	61.5
Colorectal cancer	73.0	71.0	74.0	72.0	71.0	74.0	75.0	74.0	75.0	74.0	67.0	68.0	69.0	62.0
Malignant melanoma of skin	73.0	73.0	73.0	73.0	72.5	73.5	73.0	73.0	63.0	74.0	55.0	61.0	57.0	0.0
Cerebrovascular diseases	81.0	79.0	83.0	81.0	79.0	83.0	80.0	78.0	82.0	82.0	78.0	75.0	74.0	78.0
Chronic lower respiratory diseases	79.0	78.0	79.0	79.0	78.0	79.0	79.0	78.0	79.0	79.0	78.5	71.5	75.0	75.0
Accidents (unintentional injuries)	54.0	50.0	62.0	53.0	50.0	63.0	55.0	53.0	61.0	61.0	41.0	41.5	41.0	54.0
Motor vehicle accidents	44.0	44.0	44.0	43.0	43.0	43.0	46.0	45.0	49.0	53.0	33.0	37.5	39.0	35.0
Falls	82.0	81.0	84.0	83.0	81.0	84.0	80.0	80.0	83.0	84.0	75.5	73.0	70.5	80.0
Accidental poisoning	42.0	42.0	44.0	42.0	42.0	44.0	42.0	41.0	44.0	46.0	38.0	39.0	37.0	45.5
Accidental drowning	42.0	38.5	54.0	37.0	38.0	33.5	61.0	59.0	69.5	56.0	30.0	18.0	48.0	69.0
Influenza and pneumonia	76.0	74.0	76.0	76.0	75.0	76.0	74.0	73.0	79.0	77.0	71.0	71.0	70.0	81.0
COVID-19	80.0	79.5	81.0	80.0	80.0	81.0	79.0	78.0	80.0	80.0	78.0	73.0	74.0	81.0
Alzheimer's disease	85.5	84.0	87.0	85.0	84.0	87.0	86.0	84.0	87.0	85.0	86.0	84.0	83.0	85.0
Diabetes	72.0	71.0	74.0	71.0	70.0	74.0	74.0	73.0	74.0	74.0	70.0	64.0	66.0	76.0
Intentional self-harm (suicide)	47.0	47.0	46.0	47.0	46.5	47.0	47.0	52.0	41.5	55.0	34.0	34.0	30.0	38.0
Chronic liver disease and cirrhosis	61.0	61.0	60.0	61.0	61.0	61.0	60.0	61.0	58.0	63.0	60.0	62.0	49.0	67.0
Nephritis, nephrotic syndrome and nephrosis	75.0	73.0	76.5	74.0	73.0	76.0	76.0	74.0	77.0	77.5	71.0	71.0	68.0	73.0
Septicemia	74.0	73.0	75.0	74.0	73.0	75.0	75.0	74.0	76.5	76.0	69.0	66.0	67.0	69.5
Assault (homicide)	34.0	33.0	37.0	33.0	32.0	36.0	37.0	35.0	43.5	44.0	30.5	31.0	33.0	43.0
Parkinson's disease	81.0	81.0	81.0	81.0	81.0	81.0	82.0	82.0	82.0	82.0	79.5	81.0	82.0	80.0
Essential (primary) hypertension and hypertensive renal disease	80.0	76.0	83.0	80.0	77.0	83.0	77.0	73.5	82.0	81.0	76.0	75.0	73.0	82.0
Human immunodeficiency virus (HIV) disease	56.0	56.0	52.0	56.0	57.0	52.0	53.0	52.0	85.0	58.0	51.0	61.5	52.0	47.5
Injury by firearms	42.0	42.0	42.0	41.0	41.0	41.0	53.0	55.0	48.0	55.0	31.0	31.0	31.0	39.0
Drug-induced deaths	43.0	42.0	45.0	43.0	42.0	45.0	42.0	40.0	45.0	47.0	38.0	40.0	36.0	44.0
Opioid-induced deaths	40.0	39.0	42.0	40.0	39.0	42.0	38.0	37.0	43.0	44.0	36.0	36.0	35.0	41.0
Alcohol-induced deaths	56.0	57.0	55.0	57.0	58.0	55.0	54.0	55.0	53.0	59.0	57.0	40.0	46.0	54.5

Notes: ^a 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^a YEARS OF LIFE REACHED FOR THE LEADING CAUSES OF MORTALITY BY
GENDER, RACE/ETHNICITY, AND URBAN/RURAL AREAS^b, ARIZONA, 2023

	ARIZONA			Area/gender						Race/ethnicity				
	Total	Male	Female	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 Pacific Islander
Total, all causes	54.9%	61.2%	47.4%	54.2%	60.7%	46.6%	57.1%	62.4%	50.1%	49.6%	67.3%	75.2%	79.2%	56.9%
Major cardiovascular diseases	43.6%	51.1%	34.4%	42.2%	49.7%	33.4%	49.0%	56.0%	38.8%	39.5%	53.9%	69.6%	68.1%	47.7%
Diseases of heart	43.7%	50.9%	34.0%	42.0%	49.3%	32.6%	50.1%	56.3%	40.1%	39.8%	54.5%	71.7%	67.5%	49.0%
Coronary heart disease	45.0%	52.3%	33.9%	42.9%	50.4%	32.2%	52.6%	58.8%	41.5%	41.3%	55.5%	70.9%	67.9%	48.2%
Malignant neoplasms	63.4%	63.2%	63.7%	63.2%	63.2%	63.2%	64.1%	63.0%	65.5%	60.6%	72.3%	75.2%	76.5%	69.8%
Lung cancer	62.6%	64.0%	61.1%	61.7%	63.4%	60.0%	65.6%	65.6%	65.5%	61.2%	67.9%	72.1%	65.0%	75.6%
Colorectal cancer	65.6%	69.8%	60.1%	66.2%	70.9%	60.1%	63.3%	65.8%	59.8%	62.6%	71.4%	78.5%	79.4%	72.0%
Breast cancer	68.8%	62.5%	68.9%	68.6%	57.1%	68.7%	69.2%	100.0%	69.0%	65.6%	76.4%	87.5%	79.2%	90.0%
Prostate cancer	43.0%	43.0%	0.0%	43.9%	43.9%	0.0%	40.4%	40.4%	0.0%	41.6%	43.5%	60.5%	52.6%	33.3%
Malignant melanoma of skin	65.9%	64.2%	69.0%	64.8%	64.5%	65.4%	69.6%	63.0%	78.9%	63.5%	91.7%	100.0%	66.7%	0.0%
Accidents (unintentional injuries)	81.5%	86.7%	70.0%	81.1%	86.8%	68.7%	82.1%	85.3%	74.5%	73.6%	92.1%	96.3%	95.6%	82.7%
Accidental poisoning	99.6%	99.6%	99.7%	99.8%	99.7%	99.8%	98.9%	98.9%	99.0%	99.3%	100.0%	100.0%	100.0%	100.0%
Falls	36.1%	41.6%	30.2%	35.1%	41.1%	29.1%	41.0%	43.9%	37.1%	30.7%	57.1%	53.3%	72.0%	47.4%
Motor vehicle accidents	91.8%	93.5%	87.2%	91.7%	93.6%	86.2%	92.1%	92.8%	90.4%	87.4%	95.5%	97.5%	98.4%	92.0%
Accidental drowning	89.2%	89.3%	88.9%	89.1%	88.4%	90.6%	88.9%	92.9%	75.0%	87.8%	92.3%	100.0%	83.3%	75.0%
Chronic lower respiratory diseases	47.7%	50.8%	45.3%	48.0%	51.5%	45.2%	46.9%	48.7%	45.3%	46.8%	48.0%	66.2%	57.1%	63.6%
Alzheimer's disease	19.8%	21.8%	18.6%	20.5%	22.7%	19.2%	16.4%	17.3%	15.9%	19.9%	19.1%	23.4%	19.4%	12.1%
Cerebrovascular diseases	40.1%	48.0%	33.6%	39.3%	47.4%	33.0%	43.4%	50.0%	36.5%	35.3%	50.9%	65.4%	63.9%	48.5%
Diabetes	69.0%	71.9%	64.4%	69.5%	72.5%	64.6%	67.3%	69.5%	63.9%	64.2%	72.8%	85.3%	82.6%	59.3%
Intentional self-harm (suicide)	90.0%	89.1%	93.6%	90.9%	90.2%	93.4%	87.6%	86.0%	94.3%	86.2%	98.4%	100.0%	100.0%	100.0%
Chronic liver disease and cirrhosis	90.3%	91.5%	88.7%	88.8%	90.2%	86.8%	94.0%	94.4%	93.3%	88.4%	91.7%	80.8%	96.4%	78.9%
Essential (primary) hypertension and hypertensive renal disease	44.2%	55.3%	33.8%	43.0%	53.5%	33.4%	50.3%	64.3%	35.1%	39.6%	53.2%	56.5%	77.4%	37.0%
Influenza and pneumonia	55.9%	57.7%	53.7%	56.0%	57.0%	55.0%	55.1%	60.2%	48.9%	51.6%	65.6%	78.4%	63.2%	42.1%
COVID-19	43.1%	44.5%	41.3%	42.0%	43.0%	40.7%	46.9%	49.5%	43.2%	40.6%	50.0%	57.1%	62.5%	31.8%
Parkinson's disease	30.3%	31.0%	29.0%	30.6%	31.3%	29.2%	29.1%	29.3%	28.6%	29.4%	35.4%	35.3%	33.3%	33.3%
Nephritis, nephrotic syndrome and nephrosis	59.7%	64.0%	53.8%	59.8%	63.8%	54.3%	59.6%	65.0%	52.3%	51.0%	70.7%	76.8%	80.6%	56.0%
Septicemia	62.6%	67.8%	56.9%	63.8%	69.9%	57.2%	58.3%	61.0%	55.4%	54.4%	75.4%	84.8%	73.2%	66.7%
Assault (homicide)	97.7%	99.0%	92.5%	97.6%	99.2%	91.2%	98.6%	98.2%	100.0%	94.3%	99.5%	98.9%	98.7%	100.0%
Human immunodeficiency virus (HIV) disease	93.5%	95.3%	84.6%	94.2%	94.7%	91.7%	83.3%	100.0%	0.0%	94.6%	86.4%	100.0%	100.0%	100.0%
Injury by firearms	90.7%	90.3%	93.2%	92.0%	91.9%	92.9%	85.8%	84.6%	94.6%	85.2%	98.7%	100.0%	100.0%	100.0%
Drug-induced deaths	98.9%	99.4%	97.5%	99.0%	99.5%	97.7%	98.2%	98.9%	96.6%	98.0%	100.0%	100.0%	100.0%	100.0%
Opioid-induced deaths	99.5%	99.9%	98.3%	99.5%	99.8%	98.3%	99.6%	100.0%	98.5%	99.0%	100.0%	100.0%	100.0%	100.0%
Alcohol-induced deaths	95.8%	95.6%	96.4%	95.5%	95.3%	95.8%	96.7%	96.1%	97.9%	94.6%	97.3%	100.0%	98.1%	92.9%

Notes: ^a Expected years of life at birth for all U.S. residents (78.4 years in 2023); ^b Urban = Maricopa, Pima, Pinal, and Yuma counties.