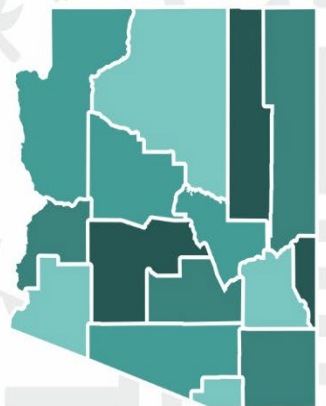




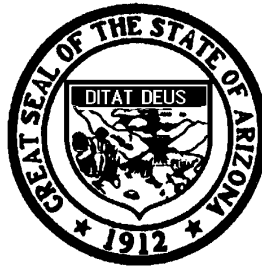
MORTALITY FROM ALZHEIMER'S DISEASE AMONG ARIZONA RESIDENTS

2013-2023





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MORTALITY FROM ALZHEIMER'S DISEASE AMONG ARIZONA RESIDENTS, 2013-2023

by

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January 2026



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PURPOSE

In 2000, Alzheimer's disease was the 7th leading cause of death for all ages, a ranking that changed as the 6th leading cause of death in 2020, rose to 7th in 2021 and 2022, then dropped again to 6th leading cause of death in 2023. Alzheimer's disease is a progressive degenerative and increasingly debilitating condition characterized by progressive loss of memory, difficulty in finding right words or understanding what people are saying, difficulty in performing previously routine tasks, and changes in personality. Alzheimer's disease gradually destroys vital nerve cells in the brain. At later stages of the disease, persons with Alzheimer's disease are bedridden and susceptible to developing other medical conditions, especially pneumonia. These secondary conditions may also result in death.

The purpose of this report is to provide information to individuals interested in Alzheimer's disease mortality among Arizona residents. The data for 2023 are placed in a temporal context by comparison with the data for the preceding years.

METHODS AND SOURCES

Data on the number and characteristics of Alzheimer's deaths were obtained from the death certificates filed with the Arizona Department of Health Services. Population denominators for Arizona residents, used to calculate rates, are the latest available estimates by the Arizona Office of Economic Opportunity and census enumerations from the U.S. Census Bureau (www.census.gov/).

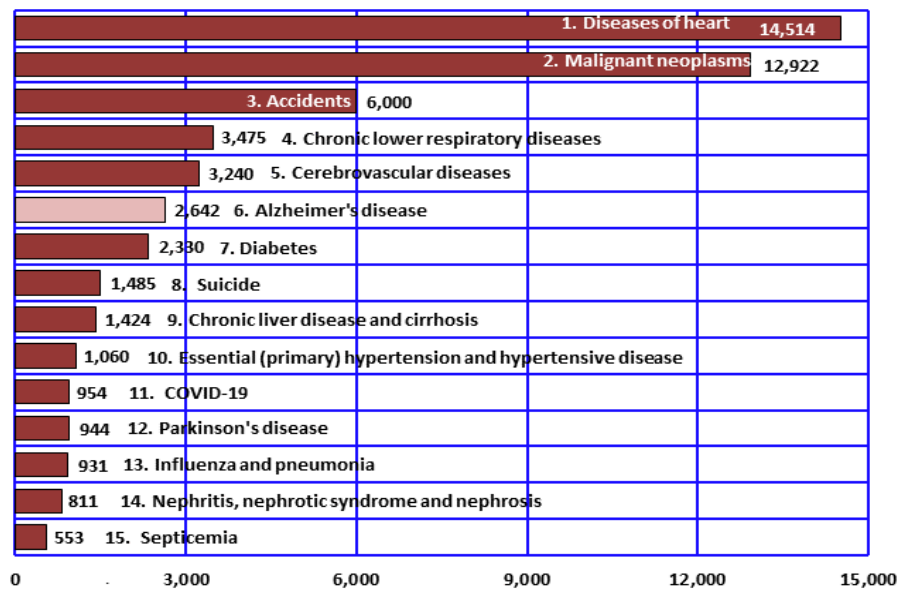
Beginning with the 2000 data year, two major changes have occurred in Arizona, affecting the computation of mortality rates, tabulation of leading causes of death and analyses of mortality data over time. First, a new revision of the International Classification of Diseases (ICD), used to classify causes of death, was implemented. The Tenth Revision (ICD-10) has replaced the Ninth Revision (ICD-9), which was in effect since 1979. Second, a new population standard for the age adjustment of mortality rates has replaced the standard based on the 1940 population and used since 1943.

Both changes have profound effects on the comparability of mortality data and continuity in statistical trends. Age-adjusted rates can only be compared to other age-adjusted rates that use the same population standard.

Breaks in comparability of mortality statistics effective with deaths occurring in 2000 also result from the implementation of ICD-10. Any comparison of causes of mortality in Arizona from the 2000-2023 period and prior years needs to take into account the changes in statistical trends that can be attributed to changes in the classification system alone.

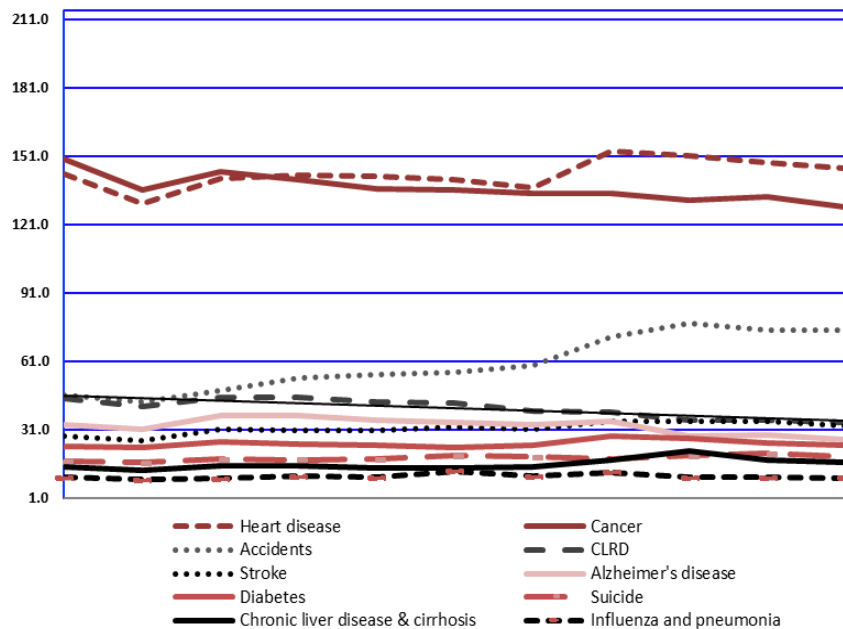
This report includes tables where small cells and related totals are suppressed. Using suppression rules similar to those used by the National Center for Health Statistics (NCHS), this report now attempts to maintain the anonymity of the individuals whose vital records are summarized herein. In cell suppression, the first task is primary suppression, or removing non-zero counts in the body of a table that fall below a certain number. Primary cells that were less than six but greater than zero were suppressed and identified with an asterisk (*). Next, secondary suppression is used to obfuscate the totals or sums with components, or addends that fall below the threshold for primary suppression. These totals are typically reported in the margins of table rows and columns. Column or row totals that contained a non-zero addend less than 6 were rounded to the nearest tens-unit and identified with a dagger (†). In certain cases where these rules would have dictated the rounding of a row or column total but the value of the information contained in the total was identified as important or attainable from other sources, these rules were relaxed and the original value was reported.

Figure 1
Alzheimer's Disease among the Leading Causes of Death
Arizona, 2023



In 2023, Alzheimer's disease was the 6th leading cause of death for all ages, accounting for a total number of 2,642 deaths in Arizona (**Figure 1**). More Arizonans died in 2023 from Alzheimer's disease than they did from other chronic diseases, such as diabetes, chronic liver disease and cirrhosis, or nephritis (kidney disease).

Figure 2
Trends in Age-Adjusted Mortality Rates for Alzheimer's
Disease and other Leading Causes of Death by Year,
Arizona, 2013-2023



The trend in mortality from Alzheimer's disease (**Figure 2**) reflects a number of factors such as 1) changes in attitudes of physicians and the public about attributing Alzheimer's disease as a cause of death, 2) availability of improved diagnostic procedures, 3) increase in the number of deaths attributed to Alzheimer's disease due to changes in coding and classification of causes of mortality.

Figure 3
Age-Adjusted Mortality Rates for Alzheimer's Disease
by Gender and Year, Arizona, 2013-2023

The age-adjusted mortality rate for Alzheimer's disease decreased by 20.8 percent from 33.2/100,000 in 2013 to 26.3/100,000 in 2023 (**Figure 3**). The decrease in age-adjusted mortality rate for Alzheimer's disease was reflected among females (18.3 percent) and males showed a decrease of (23.2 percent) during this time.

In 2013, the risk that a female would die from Alzheimer's compared to a male was 36.8 percent greater. In 2023, however, the female-to-male mortality risk has increased to 45.5 percent.

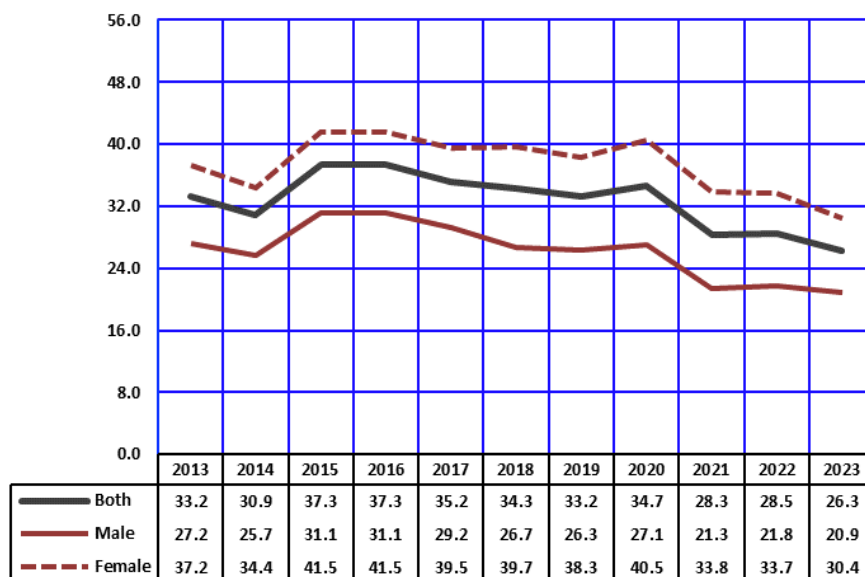


Figure 4
Age-Adjusted Mortality Rates for Alzheimer's Disease
by Gender and Race/Ethnic Group, Arizona, 2023

The 2023 death rate for Alzheimer's disease among Black or African American males and females was the highest among all race/gender groups in Arizona (**Figure 4**).

White non-Hispanic females accounted for 1,384 deaths from Alzheimer's disease (or 80.9 percent of all Alzheimer's deaths among Arizona females), while White non-Hispanic males accounted for 770 deaths (or 82.7 percent of all Alzheimer's deaths).

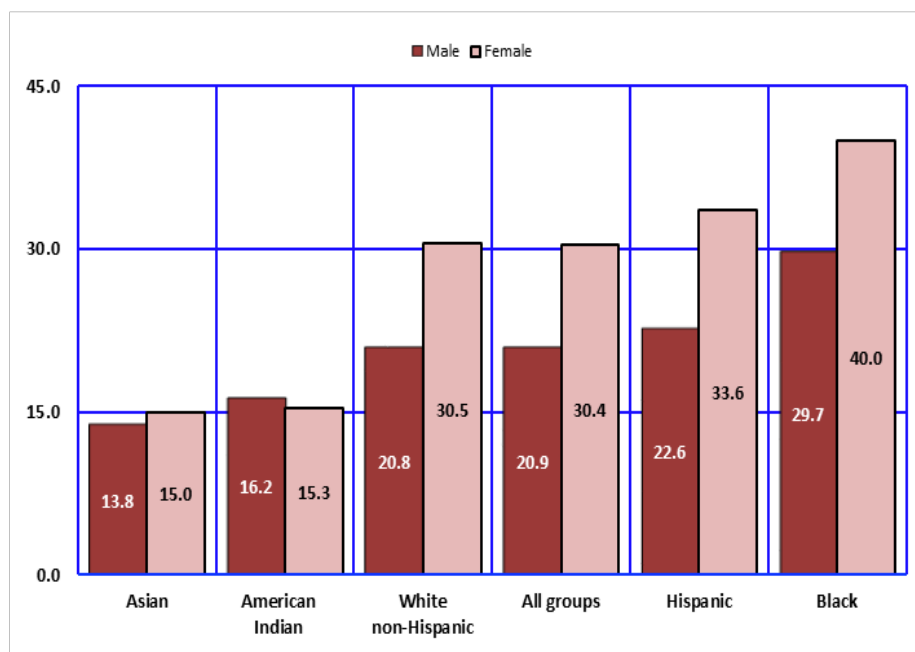
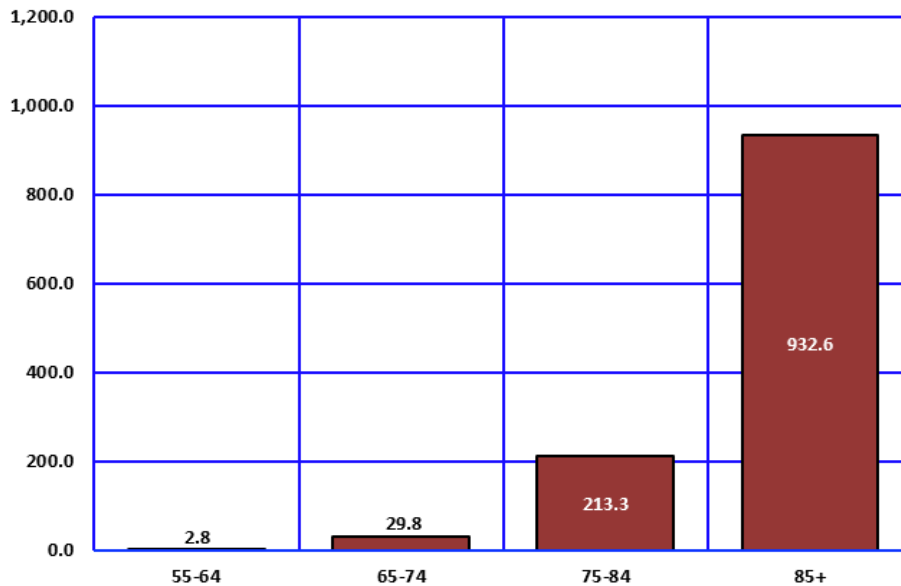
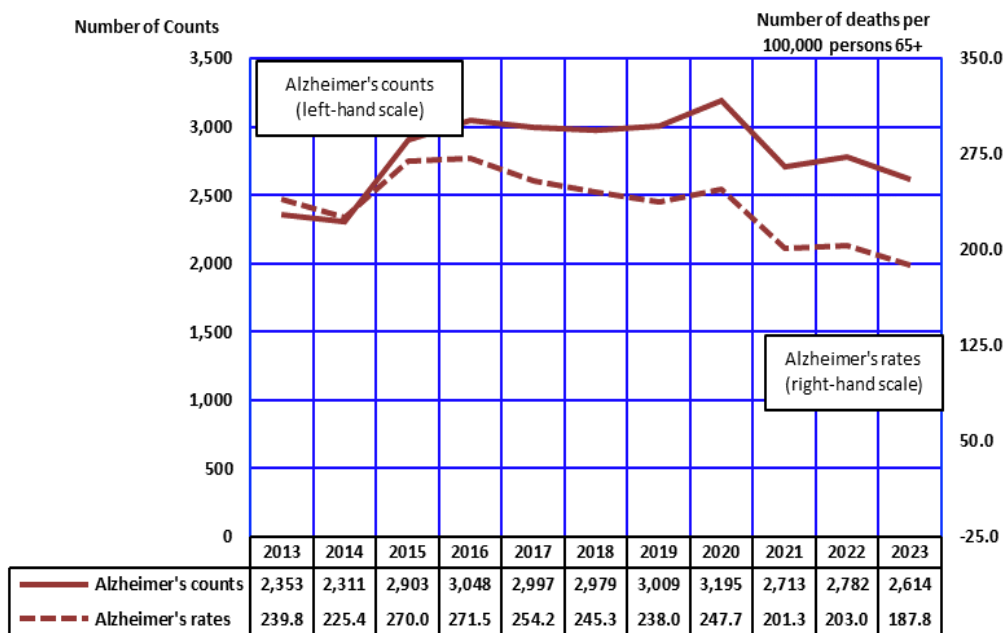


Figure 5
Age-Specific Mortality Rates for Alzheimer's Disease
among Arizonans Aged 55 Years and Older, 2023



The risk of mortality from Alzheimer's disease increases sharply with age (**Figure 5**). In 2000, nine out of every ten deaths from Alzheimer's disease were to persons aged 75 years and older. Similarly, in 2023 the risk of death from Alzheimer's was greater for Arizonans aged 75 years or older.

Figure 6
Mortality and Mortality Rates for Alzheimer's Disease among
Arizona Elderly Residents 65 Years and Older, 2013-2023



The number of Alzheimer's deaths is higher than 2013, but has seen a decline from 2020. The mortality rate from Alzheimer's disease was marked by a 21.7 percent decrease from 2013 to 2023 (**Figure 6**).

Figure 7
Mortality Rates for Alzheimer's Disease by Gender and Year
among Arizona Elderly Residents 65 Years and Older,
2013-2023

The death rate for Alzheimer's disease, the fourth leading cause of elderly female mortality in Arizona had a large decrease from 2013 (294.8/100,000) to 2023 (225.6/100,000; **Figure 7**). For elderly males, the mortality rate for Alzheimer's disease, the seventh leading cause of death among this group, decreased by 17.7 percent from 174.3/100,000 in 2013 to 143.4/100,000 in 2023. In 2013, the Alzheimer's disease mortality risk of elderly females compared to males was 69.1 percent greater, while in 2023 the risk was 57.3 percent greater.

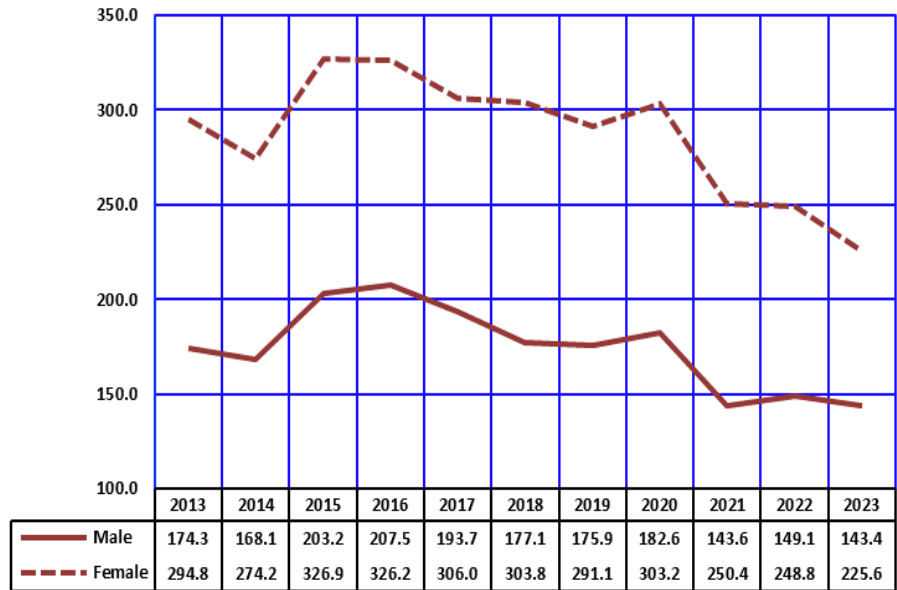


Figure 8
Mortality Rates for Alzheimer's Disease by Gender and Year
among Arizonans 75-84 Years Old, 2013-2023

Mortality rates for Alzheimer's disease among Arizonans 75-84 years old were higher among females than males from 2013 to 2023 (**Figure 8**). In 2013, the Alzheimer's disease mortality risk of elderly females compared to males in this age group was 29.9 percent greater, while in 2023 the risk was 27.1 percent greater.

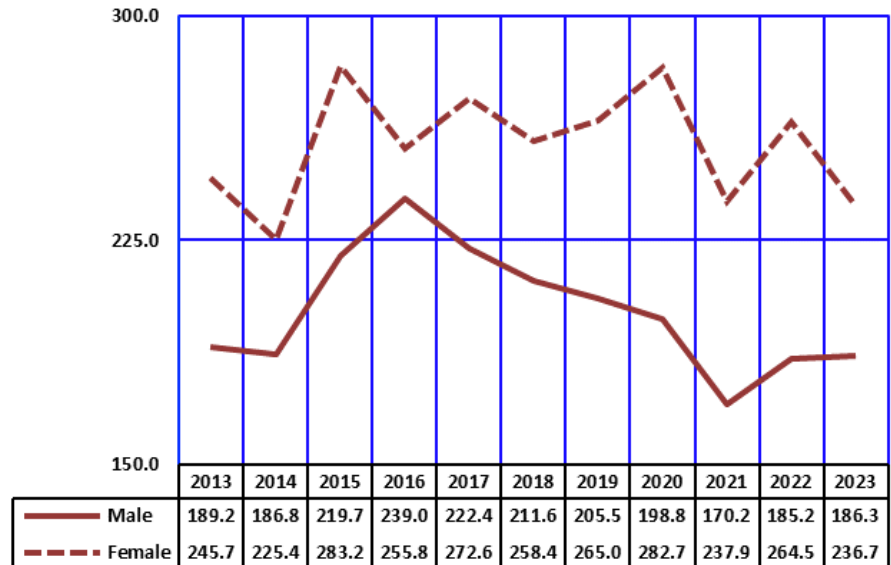
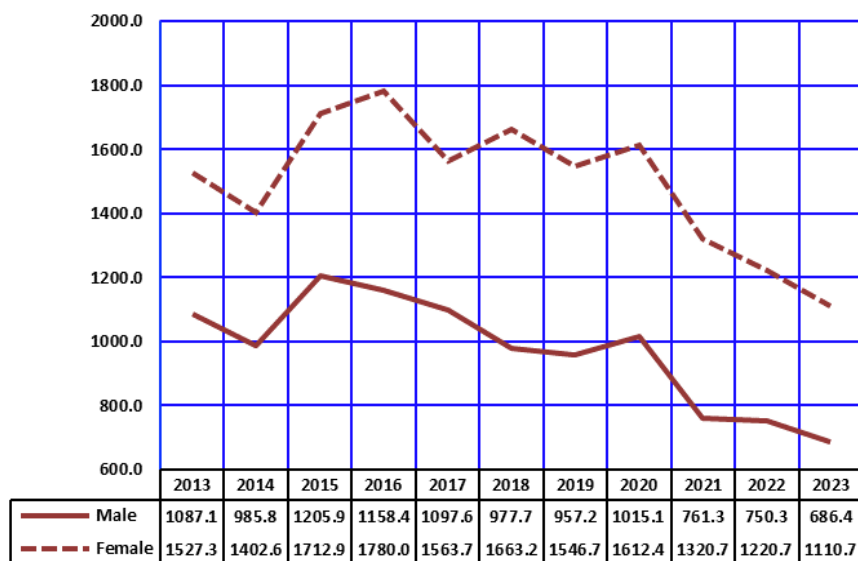
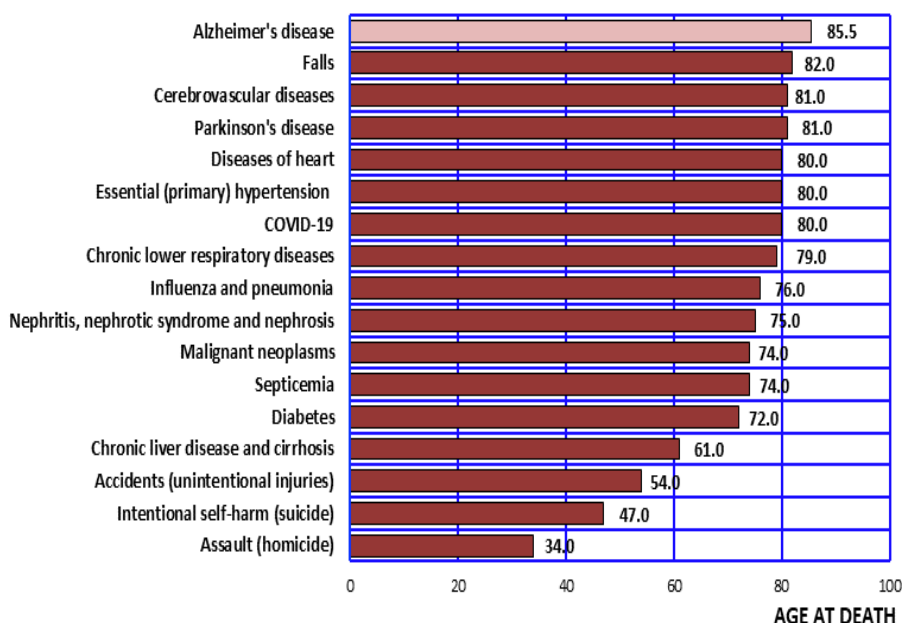


Figure 9
Mortality Rates for Alzheimer's Disease by Gender and Year
among Arizonans 85 Years and Older, 2013-2023



Among Arizonans 85 years and older, the mortality rates for Alzheimer's disease among females exceeded the male rates in every year from 2013 to 2023 (**Figure 9**). In 2013, the *Alzheimer's disease* mortality risk of elderly females compared to males in this age group was 40.5 percent greater, while in 2023 the risk was 61.8 percent greater.

Figure 10
Average Age at Death for Selected Leading Causes
of Death, Arizona, 2023



In 2023, Alzheimer's disease had the highest average age at death of 85.5 years, exceeding the average age at death for all causes by 13.1 years (**Figure 10**). 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.

White non-Hispanic elderly residents of Arizona disproportionately contributed to total mortality from Alzheimer's disease. In 2023, White non-Hispanics accounted for 79.4 percent of all elderly 65 years and older, but 81.7 percent of all deaths from Alzheimer's disease (**Figure 11**).

White non-Hispanic residents of the state may be at higher risk for Alzheimer's disease because they live longer than the other race/ethnic groups. In 2023, White non-Hispanics were the only group with less than 50 percent of all deaths occurring before the expected years of life were reached.

Figure 11
Percent of Elderly 65+ by Race/Ethnicity and Proportional Contribution to Mortality from Alzheimer's Disease, Arizona, 2023

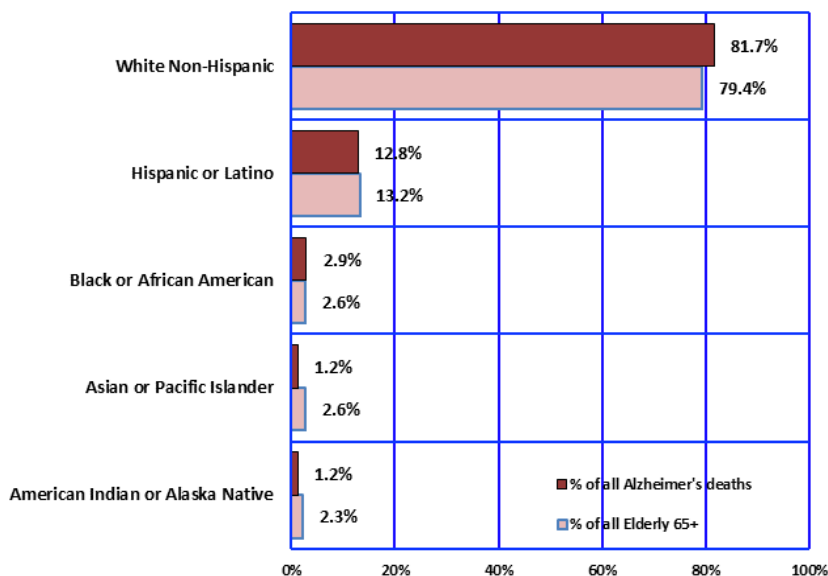
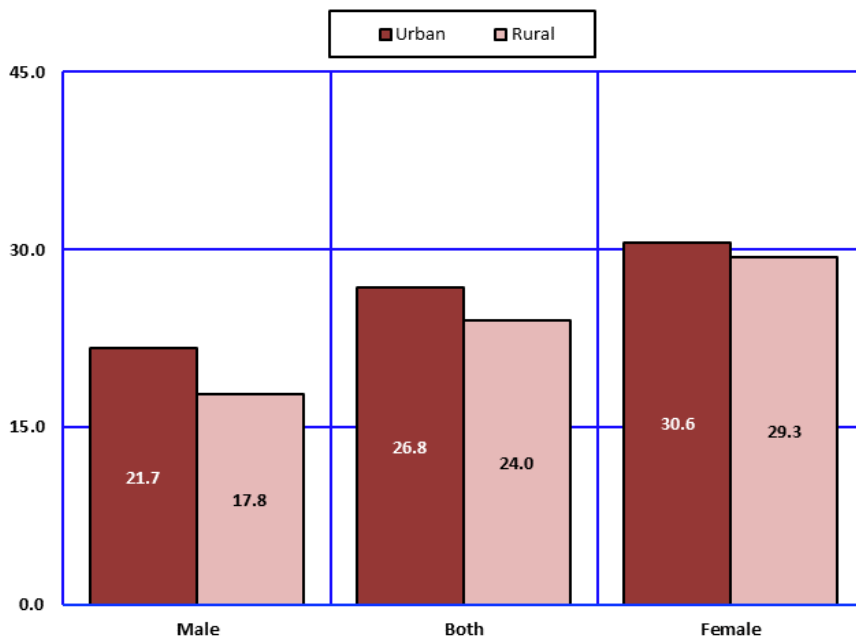
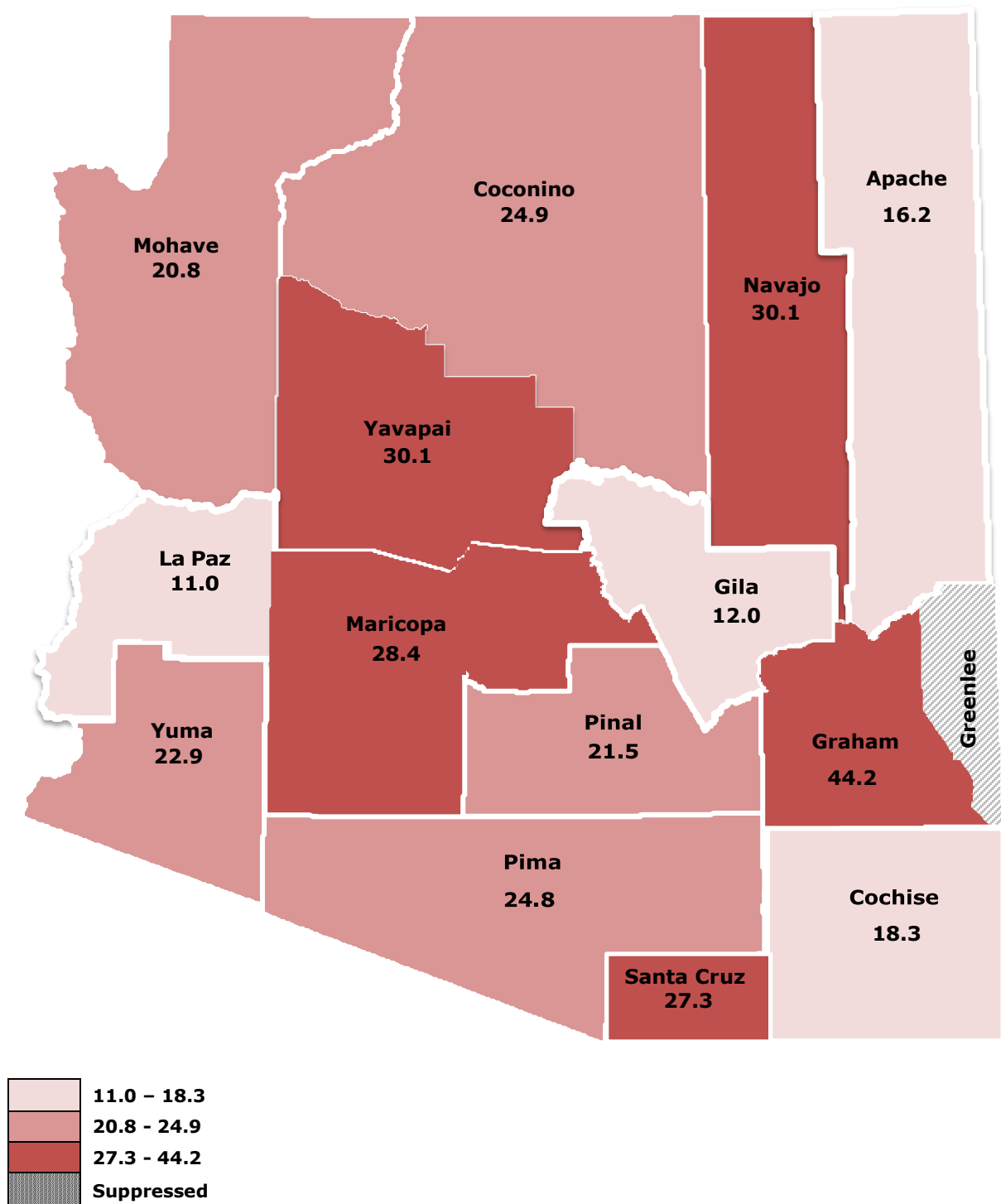


Figure 12
Age-Adjusted Mortality Rates for Alzheimer's Disease by Gender in Urban and Rural Areas, Arizona, 2023



In 2023, the mortality rate for Alzheimer's disease was 11.7 percent higher for urban (26.8/100,000) than rural (24.0/100,000) residents of the state (**Figure 12**). The mortality disadvantage of the urban compared to rural residents was particularly pronounced among males (21.9 percent). There was a small difference among females (4.4 percent).

Figure 13
Age-Adjusted Mortality Rates* for Alzheimer's Disease by County of Residence, Arizona, 2023



***Per 100,000 population age-adjusted to the 2000 U.S. standard.**

In 2023, mortality from Alzheimer's disease among the fifteen Arizona counties ranged from a rate of 11.0 deaths per 100,000 persons in La Paz County to a rate 44.2 deaths per 100,000 persons in Graham County (Figure 13).

MORTALITY FROM ALZHEIMER'S DISEASE AMONG ARIZONA RESIDENTS, 2013-2023

DATA TABLES

TABLE 1
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF MORTALITY BY YEAR, ARIZONA, 2013-2023

Cause of death	Rank (count) in 2013	Rank (count) in 2014	Rank (count) in 2015	Rank (count) in 2016	Rank (count) in 2017	Rank (count) in 2018	Rank (count) in 2019	Rank (count) in 2020	Rank (count) in 2021	Rank (count) in 2022	Rank (count) in 2023
Diseases of heart	2 (10,497)	2 (9,953)	2 (11,274)	1 (11,820)	1 (12,285)	1 (12,410)	1 (12,560)	1 (14,185)	1 (14,536)	1 (14,530)	1 (14,514)
Malignant neoplasms	1 (11,193)	1 (10,600)	1 (11,624)	2 (11,801)	2 (11,917)	2 (12,097)	2 (12,485)	2 (12,671)	2 (12,810)	2 (13,135)	2 (12,922)
Accidents (unintentional injury)	4 (3,137)	4 (3,011)	4 (3,403)	3 (3,899)	3 (4,085)	3 (4,211)	3 (4,522)	4 (5,377)	4 (5,945)	3 (5,868)	3 (6,000)
Chronic lower respiratory diseases	3 (3,295)	3 (3,185)	3 (3,648)	4 (3,788)	4 (3,779)	4 (3,820)	4 (3,678)	5 (3,698)	5 (3,518)	5 (3,571)	4 (3,475)
Cerebrovascular diseases	6 (2,047)	6 (1,995)	6 (2,463)	6 (2,536)	6 (2,647)	6 (2,829)	6 (2,848)	7 (3,225)	6 (3,319)	6 (3,377)	5 (3,240)
Alzheimer's disease	5 (2,384)	5 (2,345)	5 (2,942)	5 (3,081)	5 (3,050)	5 (3,011)	5 (3,045)	6 (3,235)	7 (2,754)	7 (2,818)	6 (2,642)
Diabetes	7 (1,744)	7 (1,776)	7 (2,050)	7 (2,013)	7 (2,037)	7 (2,041)	7 (2,170)	8 (2,563)	8 (2,557)	8 (2,418)	7 (2,330)
Intentional self-harm (suicide)	8 (1,116)	8 (1,124)	8 (1,233)	8 (1,256)	8 (1,304)	8 (1,432)	8 (1,411)	10 (1,359)	10 (1,470)	9 (1,594)	8 (1,485)
Chronic liver disease and cirrhosis	9 (1,040)	9 (984)	9 (1,120)	9 (1,169)	9 (1,122)	9 (1,159)	9 (1,211)	9 (1,426)	9 (1,772)	10 (1,484)	9 (1,424)
Essential primary hypertension/ hypertensive renal disease	11 (711)	10 (758)	10 (896)	10 (1,010)	10 (1,018)	11 (928)	10 (1,009)	11 (1,131)	11 (1,200)	11 (1,105)	10 (1,060)
COVID-19	-	-	-	-	-	-	-	3 (8,430)	3 (12,693)	4 (4,599)	11 (954)
Parkinson's disease	12 (578)	12 (569)	12 (719)	12 (712)	12 (749)	12 (790)	12 (806)	13 (1,016)	13 (892)	12 (1,005)	12 (944)
Influenza and pneumonia	10 (724)	11 (669)	11 (739)	11 (859)	11 (852)	10 (1,113)	11 (947)	12 (1,109)	12 (933)	13 (959)	13 (931)
Total, 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 cause of death for 2000 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 2
AGE-ADJUSTED MORTALITY RATES^a FOR ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH, ARIZONA, 2013-2023

Cause of death	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Diseases of heart	143.0	129.9	141.3	142.5	141.9	140.5	137.3	152.9	151.2	148.2	145.4
Malignant neoplasms	149.6	136.3	144.0	140.7	136.6	135.9	134.7	134.7	131.8	133.1	128.4
Accidents (unintentional injury)	46.3	43.3	48.1	53.7	55.3	55.9	59.2	71.5	77.8	74.8	74.6
Chronic lower respiratory diseases	44.5	41.1	45.1	45.0	43.0	42.6	39.2	38.8	35.3	35.3	33.9
Cerebrovascular diseases	28.2	26.2	31.1	30.7	30.7	32.1	31.0	34.6	34.4	34.5	32.5
Alzheimer's disease	33.2	30.9	37.3	37.3	35.2	34.3	33.2	34.7	28.3	28.5	26.3
Diabetes	23.6	23.0	25.7	24.5	23.8	23.0	23.9	27.9	26.8	25.1	23.9
Intentional self-harm (suicide)	17.0	16.5	17.8	17.7	18.0	19.5	18.9	18.2	19.4	20.5	18.9
Chronic liver disease and cirrhosis	14.5	13.2	14.9	15.1	14.2	14.2	14.7	17.4	21.6	17.4	16.4
Essential primary hypertension/ hypertensive renal disease	9.7	9.9	11.1	12.2	11.8	10.5	11.0	12.2	12.4	11.3	10.6
Influenza and pneumonia	10.0	8.9	9.4	10.4	9.9	12.7	10.4	12.2	9.9	10.0	9.6
COVID-19	-	-	-	-	-	-	-	92.1	136.9	47.5	9.5
Total, all causes	687.8	676.0	691.3	696.6	679.3	688.6	676.6	842.2	882.6	784.3	720.5

Notes: 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); the causes of death for 2000 are classified by ICD-10; the causes of death for 1998-1999 are classified by the Ninth Revision (ICD-9); ^a the rates are per 100,000 population.

TABLE 3
AGE-ADJUSTED MORTALITY RATES^a FOR ALZHEIMER'S DISEASE BY GENDER AND YEAR, ARIZONA, 2013-2023

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
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

Notes: The number of deaths per 100,000 population adjusted to the 2000 U.S. standard; ^a the rates are per 100,000 persons in specified group.

TABLE 4
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY GENDER AND YEAR, ARIZONA, 2013-2023

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total	2,384	2,345	2,942	3,081	3,050	3,011	3,045	3,235	2,754	2,818	2,642
Male	792	807	1,028	1,084	1,076	1,010	1,046	1,103	909	950	931
Female	1,592	1,538	1,914	1,997	1,974	2,001	1,999	2,132	1,845	1,868	1,711

TABLE 5
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY RACE/ETHNICITY AND GENDER, ARIZONA, 2013-2023

		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All groups	Total	2,384	2,345	2,942	3,081	3,050	3,011	3,045	3,235	2,754	2,818	2,642
	Male	792	807	1,028	1,084	1,076	1,010	1,046	1,103	909	950	931
	Female	1,592	1,538	1,914	1,997	1,974	2,001	1,999	2,132	1,845	1,868	1,711
White non-Hispanic	Total	2,042	1,993	2,515	2,617	2,604	2,548	2,535	2,650	2,268	2,318	2,154
	Male	677	695	878	940	937	845	887	921	758	800	770
	Female	1,365	1,298	1,637	1,677	1,667	1,703	1,648	1,729	1,510	1,518	1,384
Hispanic or Latino	Total	252	253	302	313	321	305	351	385	332	341	340
	Male	82	81	113	95	96	113	98	128	104	100	108
	Female	170	172	189	218	225	192	253	257	228	241	232
Black or African American	Total	47	49	65	72	64	77	80	87	63	77	77
	Male	15	19	19	23	26	26	35	26	20	28	27
	Female	32	30	46	49	38	51	45	61	43	49	50
American Indian or Alaska Native	Total	25	37	34	44	23	38	38	40	41	38	31
	Male	11	11	13	14	6	15	10	7	8	13	12
	Female	14	26	21	30	17	23	28	33	33	25	19
Asian or Pacific Islander	Total	18	10†	30†	35	30†	34	35	57	42	39	33
	Male	7	*	*	12	*	6	11	14	14	7	12
	Female	11	12	21	23	22	28	24	43	28	32	21
Refused/Unknown	Total	0	0	0	0	0	10†	10†	16	10†	10†	10†
	Male	0	0	0	0	0	*	*	7	*	*	*
	Female	0	0	0	0	0	*	*	9	*	*	*

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.

TABLE 6
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY URBAN/RURAL AREA AND GENDER,
ARIZONA, 2013, 2018, AND 2023

		2013	2018	2023
All groups	Total	2,384	3,011	2,642
	Male	792	1,010	931
	Female	1,592	2,001	1,711
Urban	Total	2,139	2,468	2,189
	Male	708	831	775
	Female	1,431	1,637	1,414
Rural	Total	244	536	452
	Male	83	174	156
	Female	161	362	296

TABLE 7
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 2013-2023

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total State	2,380†	2,350†	2,940†	3,080†	3,050	3,010†	3,050†	3,240†	2,750†	2,820†	2,640†
Apache	8	*	13	12	14	11	13	9	12	14	12
Cochise	31	19	42	41	33	25	34	46	24	39	39
Coconino	18	19	22	34	23	35	27	26	33	33	32
Gila	25	30	37	22	17	35	39	30	37	24	13
Graham	*	6	9	10	12	32	15	19	15	9	18
Greenlee	*	*	*	*	6	*	*	*	*	*	*
La Paz	0	*	*	9	7	*	11	11	*	9	7
Maricopa	1,555	1,467	1,772	1,835	1,796	1,819	1,836	1,917	1,636	1,670	1,544
Mohave	42	61	97	116	154	172	138	179	132	158	103
Navajo	19	34	27	27	35	42	37	52	34	53	41
Pima	477	489	537	576	529	480	492	479	426	394	419
Pinal	85	92	160	116	116	110	122	167	150	145	143
Santa Cruz	16	12	10	18	17	15	18	14	6	17	18
Yavapai	80	68	152	200	219	164	161	184	182	147	166
Yuma	22	36	53	55	64	59	93	97	59	100	83
Unknown	*	*	*	8	8	7	6	*	*	*	*

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.

TABLE 8
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY AGE GROUP AND GENDER,
ARIZONA, 2013, 2018, AND 2023

		2013	2018	2023
Total, all ages	Total	2,384	3,011	2,642
	Male	792	1,010	931
	Female	1,592	2,001	1,711
45-54	Total	3	0†	0†
	Male	1	0	0
	Female	2	*	*
55-64	Total	27	30	25
	Male	9	17	13
	Female	18	13	12
65-74	Total	157	197	238
	Male	65	81	93
	Female	92	116	145
75-84	Total	663	870	939
	Male	264	363	381
	Female	399	507	558
85+	Total	1,533	1,912	1,437
	Male	452	548	444
	Female	1,081	1,364	993

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.

TABLE 9
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65 YEARS AND OLDER, BY YEAR,
ARIZONA, 2013-2023

Cause of death	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total, all causes	35,983	37,010	39,480	41,189	42,199	43,572	44,398	55,283	58,019	54,266	51,483
Diseases of heart	8,583	8,130	9,189	9,673	10,171	10,265	10,406	11,699	12,083	12,093	12,280
Malignant neoplasms	8,015	7,715	8,502	8,686	8,850	8,984	9,356	9,644	9,721	10,058	10,097
Chronic lower respiratory diseases	2,868	2,743	3,192	3,286	3,293	3,310	3,237	3,220	3,135	3,150	3,107
Cerebrovascular disease	1,736	1,739	2,127	2,236	2,292	2,456	2,473	2,780	2,847	2,916	2,829
Alzheimer's disease	2,353	2,311	2,903	3,048	2,997	2,979	3,009	3,195	2,713	2,782	2,614
Accidents (unintentional injury)	1,146	1,145	1,298	1,463	1,485	1,508	1,560	1,550	1,742	1,835	2,033
Diabetes	1,162	1,188	1,345	1,362	1,411	1,408	1,491	1,716	1,767	1,659	1,618
Parkinson's disease	561	558	700	697	737	773	785	986	869	979	932
Essential primary hypertension/ hypertensive renal disease	601	614	735	831	850	793	853	931	1,015	936	884
COVID-19	-	-	-	-	-	-	-	6,260	8,421	3,523	832
Influenza and pneumonia	608	512	626	670	697	871	741	839	692	730	698
Nephritis, nephrotic syndrome and nephrosis	328	288	430	403	445	533	612	603	684	664	628

TABLE 10
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY MALES 65 YEARS AND OLDER,
BY YEAR, ARIZONA, 2013-2023

Cause of death	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total, all causes	17,489	18,292	19,665	20,781	21,144	22,030	22,480	28,258	30,125	27,660	26,175
Diseases of heart	4,511	4,280	4,798	5,187	5,446	5,514	5,599	6,308	6,633	6,584	6,751
Malignant neoplasms	4,294	4,235	4,609	4,798	4,854	5,048	5,100	5,275	5,299	5,428	5,475
Chronic lower respiratory diseases	1,356	1,367	1,527	1,542	1,566	1,573	1,545	1,547	1,477	1,488	1,373
Cerebrovascular disease	680	680	905	914	970	1,048	1,057	1,218	1,235	1,248	1,230
Accidents (unintentional injury)	563	570	675	779	766	811	863	857	954	1,019	1,162
Diabetes	633	655	737	783	795	814	859	1,003	970	944	950
Alzheimer's disease	781	792	1,005	1,073	1,052	992	1,025	1,084	890	940	918
Parkinson's disease	358	336	442	455	470	517	517	638	563	620	604
COVID-19	-	-	-	-	-	-	-	3,576	4,853	2,062	463
Essential primary hypertension/hypertensive renal disease	256	283	322	386	377	341	382	419	448	438	400
Influenza and pneumonia	285	252	312	331	339	446	398	452	403	389	368
Nephritis, nephrotic syndrome and nephrosis	157	135	228	204	236	270	342	316	364	353	348

TABLE 11
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY FEMALES 65 YEARS AND OLDER,
BY YEAR, ARIZONA, 2013-2023

Cause of death	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total, all causes	18,494	18,718	19,815	20,408	21,055	21,542	21,918	27,025	27,894	26,606	25,308
Diseases of heart	4,072	3,850	4,391	4,486	4,725	4,751	4,807	5,391	5,450	5,509	5,529
Malignant neoplasms	3,721	3,480	3,893	3,888	3,996	3,936	4,256	4,369	4,422	4,630	4,622
Chronic lower respiratory diseases	1,512	1,376	1,665	1,744	1,727	1,737	1,692	1,673	1,658	1,662	1,734
Alzheimer's disease	1,572	1,519	1,898	1,975	1,945	1,987	1,984	2,111	1,823	1,842	1,696
Cerebrovascular disease	1,056	1,059	1,222	1,322	1,322	1,408	1,416	1,562	1,612	1,668	1,599
Accidents (unintentional injury)	583	575	623	684	719	697	697	693	788	816	871
Diabetes	529	533	608	579	616	594	632	713	797	715	668
Essential primary hypertension/hypertensive renal disease	345	331	413	445	473	452	471	512	567	498	484
COVID-19	-	-	-	-	-	-	-	2,684	3,568	1,461	369
Influenza and pneumonia	323	260	314	339	358	425	343	387	289	341	330
Parkinson's disease	203	222	258	242	267	256	268	348	306	359	328
Nephritis, nephrotic syndrome and nephrosis	171	153	202	199	209	263	270	287	320	311	280

TABLE 12
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65 YEARS AND OLDER,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2023

Cause of death	Total	Gender		Area			Race/Ethnicity					
		Male	Female	Urban	Rural	Un-known	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Other/Unknown
Total, all causes	51,483	26,175	25,308	40,652	10,720	111	41,397	6,073	1,582	1,343	804	284
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
Chronic lower respiratory diseases	3,107	1,373	1,734	2,276	830	*	2,809	165	58	31	22	22
Cerebrovascular disease	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
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/hypertensive renal 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	*	*

Note: * cell suppressed due to non-zero count less than 6; † sum rounded to nearest tens unit due to non-zero addend less than 6.

TABLE 13
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65-74 YEARS OLD,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2023

Cause of death	Total	Gender		Area			Race/Ethnicity					
		Male	Female	Urban	Rural	Un- known	White non- Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Other/ Unknown
Total, all causes	14,048	8,195	5,853	10,748	3,241	59	10,537	1,965	670	527	215	134
Malignant neoplasms	3,843	2,096	1,747	2,954	880	9	2,963	510	180	103	67	20
Diseases of heart	2,829	1,873	956	2,117	702	10	2,150	357	169	83	40	30
Chronic lower respiratory diseases	850	408	442	615	234	*	750	41	29	9	10	11
Accidents (unintentional injury)	717	497	220	553	160	*	495	115	33	50	13	11
Diabetes	639	390	249	515	121	*	373	147	36	64	15	*
Cerebrovascular disease	578	311	267	461	117	0	422	93	33	10	15	*
Alzheimer's disease	240†	93	145	203	35	0	198	30	8	*	0	0
Nephritis, nephrotic syndrome and nephrosis	213	131	82	164	49	0	128	40	18	18	6	*
Influenza and pneumonia	210†	118	90	154	53	*	145	36	10	13	*	*
Essential primary hypertension/hypertensive renal disease	190†	115	78	153	40	0	131	37	13	7	*	*
COVID-19	190†	109	81	147	42	*	143	29	*	10	*	*
Parkinson's disease	150†	101	46	127	20	0	122	18	*	0	*	0
Septicemia	129	67	62	100	27	*	82	26	12	8	0	*

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.

TABLE 14
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 75-84 YEARS OLD,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2023

Cause of death	Total	Gender		Area			Race/Ethnicity					
		Male	Female	Urban	Rural	Un- known	White non- Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Other/ Unknown
Total, all causes	19,008	10,107	8,901	14,896	4,075	37	15,502	2,145	521	447	287	106
Malignant neoplasms	4,088	2,257	1,831	3,180	902	6	3,367	461	114	69	64	13
Diseases of heart	4,066	2,395	1,671	3,207	854	*	3,402	400	114	75	46	29
Chronic lower respiratory diseases	1,326	602	724	968	358	0	1,218	64	21	10	6	7
Cerebrovascular disease	997	471	526	803	193	*	773	138	40	24	17	*
Alzheimer's disease	939	381	558	768	170	*	765	113	29	16	13	*
Accidents (unintentional injury)	666	369	297	537	128	*	546	73	8	21	10	8
Diabetes	660	393	267	503	154	*	439	136	21	37	23	*
Parkinson's disease	475	308	167	401	74	0	399	40	9	12	13	*
Essential primary hypertension/hypertensive renal disease	317	156	161	269	48	0	241	40	20	7	7	*
COVID-19	310 ⁺	189	123	247	63	*	252	34	*	12	10	*
Influenza and pneumonia	271	138	133	215	55	*	211	32	10	10	7	*
Nephritis, nephrotic syndrome and nephrosis	240 ⁺	137	99	171	64	*	163	42	10	15	*	*
Septicemia	150 ⁺	81	68	118	29	*	101	32	*	9	*	0

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.

TABLE 15
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 85 YEARS AND OLDER,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2023

Cause of death	Total	Gender		Area			Race/Ethnicity					
		Male	Female	Urban	Rural	Un- known	White non- Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Other/ Unknown
Total, all causes	18,427	7,873	10,554	15,008	3,404	15	15,358	1,963	391	369	302	44
Diseases of heart	5,385	2,483	2,902	4,482	897	6	4,646	477	97	77	77	11
Malignant neoplasms	2,166	1,122	1,044	1,737	429	0	1,818	225	51	32	33	7
Alzheimer's disease	1,437	444	993	1,191	246	0	1,172	191	38	13	19	*
Cerebrovascular disease	1,254	448	806	1,044	209	*	1,024	169	29	10	22	0
Chronic lower respiratory diseases	931	363	568	693	238	0	841	60	8	12	6	*
Accidents (unintentional injury)	650	296	354	543	106	*	563	58	8	13	7	*
Essential primary hypertension/hypertensive renal disease	374	129	245	329	45	0	288	51	18	6	11	0
COVID-19	330	165	165	268	62	0	258	44	6	11	8	*
Diabetes	319	167	152	258	61	0	228	53	10	19	9	0
Parkinson's disease	310 [†]	195	115	257	52	*	271	21	*	6	7	0
Influenza and pneumonia	220 [†]	112	107	171	48	0	163	31	*	16	6	*
Nephritis, nephrotic syndrome and nephrosis	180 [†]	80	99	132	47	0	134	26	7	*	7	0
Septicemia	120 [†]	48	73	91	30	0	94	18	*	6	0	0

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.

TABLE 16
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND RACE/ETHNICITY,
ARIZONA, 2013, 2018, AND 2023

		Age group	2013	2018	2023
ALL GROUPS	Total	65-74	566,813	708,474	797,484
		75-84	301,956	367,723	440,216
		85+	112,360	138,064	154,087
		All 65+	981,129	1,214,261	1,391,787
	Male	65-74	266,834	332,612	370,944
		75-84	139,538	171,534	204,509
		85+	41,580	56,052	64,687
		All 65+	447,952	560,198	640,140
	Female	65-74	299,979	375,862	426,540
		75-84	162,419	196,189	235,707
		85+	70,780	82,012	89,400
		All 65+	533,178	654,063	751,647
WHITE NON-HISPANIC	Total	65-74	458,569	558,540	616,577
		75-84	251,656	302,374	360,541
		85+	96,999	115,096	127,624
		All 65+	807,224	976,010	1,104,742
	Male	65-74	217,849	264,715	289,233
		75-84	117,962	143,666	170,629
		85+	36,131	47,435	54,738
		All 65+	371,942	455,816	514,600
	Female	65-74	240,720	293,825	327,344
		75-84	133,695	158,708	189,912
		85+	60,868	67,661	72,886
		All 65+	435,283	520,194	590,142
HISPANIC	Total	65-74	69,838	95,839	115,143
		75-84	32,869	41,738	50,865
		85+	10,339	15,377	17,112
		All 65+	113,046	152,954	183,120
	Male	65-74	32,001	44,417	53,157
		75-84	14,223	18,017	21,958
		85+	3,764	5,890	6,504
		All 65+	49,988	68,324	81,619
	Female	65-74	37,837	51,422	61,986
		75-84	18,645	23,721	28,907
		85+	6,575	9,487	10,608
		All 65+	63,057	84,630	101,501

TABLE 16 (continued)
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND RACE/ETHNICITY,
ARIZONA, 2013, 2018, AND 2023

	Age group	2013	2018	2023
BLACK	Total	12,569	19,044	23,786
	65-74			
	75-84	5,540	7,692	9,714
	85+	1,516	2,452	2,985
	All 65+	19,625	29,188	36,485
	Male			
	65-74	5,975	8,974	11,243
	75-84	2,472	3,358	4,278
	85+	465	869	1,097
	All 65+	8,912	13,201	16,618
	Female			
	65-74	6,594	10,070	12,543
	75-84	3,068	4,334	5,436
	85+	1,050	1,583	1,888
	All 65+	10,712	15,987	19,867
AMERICAN INDIAN	Total	14,290	17,450	19,893
	65-74			
	75-84	6,708	8,067	9,094
	85+	2,210	2,662	2,873
	All 65+	23,208	28,179	31,860
	Male			
	65-74	6,388	7,701	8,731
	75-84	2,798	3,239	3,573
	85+	767	973	1,045
	All 65+	9,953	11,913	13,349
	Female			
	65-74	7,902	9,749	11,162
	75-84	3,909	4,828	5,521
	85+	1,443	1,689	1,828
	All 65+	13,254	16,266	18,511
ASIAN	Total	11,548	17,601	22,085
	65-74			
	75-84	5,184	7,852	10,002
	85+	1,297	2,477	3,493
	All 65+	18,029	27,930	35,580
	Male			
	65-74	4,621	6,805	8,580
	75-84	2,082	3,254	4,071
	85+	453	885	1,303
	All 65+	7,156	10,944	13,954
	Female			
	65-74	6,927	10,796	13,505
	75-84	3,102	4,598	5,931
	85+	844	1,592	2,190
	All 65+	10,873	16,986	21,626

TABLE 17
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND COUNTY OF RESIDENCE,
ARIZONA, 2013, 2018, AND 2023

	Age group	2013			2018			2023		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
ARIZONA	65-74	266,834	299,979	566,813	332,612	375,862	708,474	370,944	426,540	797,484
	75-84	139,538	162,419	301,956	171,534	196,189	367,723	204,509	235,707	440,216
	85+	41,580	70,780	112,360	56,052	82,012	138,064	64,687	89,400	154,087
	Total	447,952	533,178	981,129	560,198	654,063	1,214,261	640,140	751,647	1,391,787
APACHE	65-74	2,757	3,038	5,795	3,078	3,407	6,485	3,062	3,472	6,534
	75-84	1,240	1,474	2,713	1,500	1,843	3,343	1,521	1,904	3,425
	85+	312	515	826	422	653	1,075	408	653	1,061
	Total	4,309	5,027	9,334	5,000	5,903	10,903	4,991	6,029	11,020
COCHISE	65-74	6,865	7,415	14,280	8,056	8,493	16,549	8,264	8,915	17,179
	75-84	3,727	3,837	7,564	4,377	4,660	9,037	4,775	5,127	9,902
	85+	919	1,455	2,374	1,323	1,707	3,030	1,395	1,773	3,168
	Total	11,511	12,707	24,218	13,756	14,860	28,616	14,434	15,815	30,249
COCONINO	65-74	4,363	4,636	8,998	5,625	5,670	11,295	6,652	6,835	13,487
	75-84	1,713	1,935	3,648	2,175	2,566	4,741	2,532	3,037	5,569
	85+	393	771	1,164	620	923	1,543	739	1,092	1,831
	Total	6,469	7,342	13,810	8,420	9,159	17,579	9,923	10,964	20,887
GILA	65-74	3,919	4,154	8,072	4,449	4,568	9,017	4,622	4,733	9,355
	75-84	2,044	2,170	4,213	2,426	2,437	4,863	2,579	2,646	5,225
	85+	475	772	1,247	645	952	1,597	709	920	1,629
	Total	6,438	7,096	13,532	7,520	7,957	15,477	7,910	8,299	16,209
GRAHAM	65-74	1,240	1,354	2,595	1,448	1,585	3,033	1,563	1,740	3,303
	75-84	707	834	1,542	720	895	1,615	771	945	1,716
	85+	167	277	445	263	350	613	268	373	641
	Total	2,114	2,465	4,582	2,431	2,830	5,261	2,602	3,058	5,660
GREENLEE	65-74	401	378	780	397	369	766	416	354	770
	75-84	221	263	484	171	211	382	169	200	369
	85+	41	101	142	72	138	210	54	142	196
	Total	663	742	1,406	640	718	1,358	639	696	1,335
LA PAZ	65-74	2,289	2,213	4,503	2,101	2,074	4,175	1,525	1,568	3,093
	75-84	1,322	1,077	2,398	1,895	1,589	3,484	1,603	1,378	2,981
	85+	233	232	465	520	431	951	554	416	970
	Total	3,844	3,522	7,366	4,516	4,094	8,610	3,682	3,362	7,044

TABLE 17 (continued)
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND COUNTY OF RESIDENCE,
ARIZONA, 2013, 2018, AND 2023

	Age group	2013			2018			2023		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
MARICOPA	65-74	137,352	157,966	295,317	172,389	200,417	372,806	196,358	231,193	427,551
	75-84	70,848	87,546	158,395	85,232	102,887	188,119	104,305	126,373	230,678
	85+	22,895	41,102	63,997	29,422	46,106	75,528	34,447	50,833	85,280
	Total	231,095	286,614	517,709	287,043	349,410	636,453	335,110	408,399	743,509
MOHAVE	65-74	15,228	15,386	30,614	18,205	18,209	36,414	19,900	20,727	40,627
	75-84	8,220	7,952	16,172	10,487	10,179	20,666	12,342	11,823	24,165
	85+	1,773	2,603	4,377	2,766	3,306	6,072	3,261	3,712	6,973
	Total	25,221	25,941	51,163	31,458	31,694	63,152	35,503	36,262	71,765
NAVAJO	65-74	4,805	5,179	9,985	5,817	6,274	12,091	6,267	6,836	13,103
	75-84	2,189	2,445	4,634	2,793	3,110	5,903	3,147	3,370	6,517
	85+	528	841	1,369	773	1,085	1,858	754	1,081	1,835
	Total	7,522	8,465	15,988	9,383	10,469	19,852	10,168	11,287	21,455
PIMA	65-74	43,049	49,593	92,642	52,947	60,814	113,761	58,803	68,367	127,170
	75-84	23,376	28,159	51,533	27,363	32,678	60,041	32,289	38,909	71,198
	85+	7,846	13,441	21,287	9,908	15,122	25,030	11,160	15,802	26,962
	Total	74,271	91,193	165,462	90,218	108,614	198,832	102,252	123,078	225,330
PINAL	65-74	18,191	19,586	37,777	25,696	28,134	53,830	27,607	31,576	59,183
	75-84	8,720	8,930	17,650	13,322	13,184	26,506	16,477	16,532	33,009
	85+	1,662	2,441	4,103	3,281	3,799	7,080	4,143	4,593	8,736
	Total	28,573	30,957	59,530	42,299	45,117	87,416	48,227	52,701	100,928
SANTA CRUZ	65-74	2,031	2,291	4,321	2,508	2,832	5,340	2,529	2,977	5,506
	75-84	990	1,160	2,150	1,253	1,527	2,780	1,446	1,622	3,068
	85+	268	477	745	397	583	980	404	586	990
	Total	3,289	3,928	7,216	4,158	4,942	9,100	4,379	5,185	9,564
YAVAPAI	65-74	15,691	17,054	32,746	20,206	22,014	42,220	23,500	26,335	49,835
	75-84	8,374	8,685	17,059	10,270	10,693	20,963	12,670	13,330	26,000
	85+	2,495	3,841	6,336	3,105	4,125	7,230	3,534	4,493	8,027
	Total	26,560	29,580	56,141	33,581	36,832	70,413	39,704	44,158	83,862
YUMA	65-74	8,652	9,735	18,387	9,690	11,002	20,692	9,876	10,912	20,788
	75-84	5,849	5,953	11,802	7,550	7,730	15,280	7,883	8,511	16,394
	85+	1,574	1,909	3,483	2,535	2,732	5,267	2,857	2,931	5,788
	Total	16,075	17,597	33,672	19,775	21,464	41,239	20,616	22,354	42,970



Our Web site at <http://pub.azdhs.gov/health-stats> provides access to a wide range of statistical information about the health status of Arizonans. The Arizona Health Status and Vital Statistics annual report examines trends in natality, mortality, and morbidity towards established health objectives. Additional reports and studies include Advance Vital Statistics by County of Residence, Injury Mortality among Arizona Residents (all injury, accidents, suicides, homicides, legal intervention, undetermined, firearm-related fatalities, drug-related deaths, drowning deaths, falls among Arizonans 65 years or older), Hospital Inpatient and Emergency Room Statistics (first-listed diagnosis, procedures, alcohol abuse, asthma, diabetes, substance abuse, falls, influenza and pneumonia, injury, and mental disorders), Abortions in Arizona, Community Vital Statistics, Teenage Pregnancy, Differences in Health Status Among Racial/Ethnic Groups, Mortality from Alzheimer's Disease, Heart Disease vs. Cancer: An Epidemiologic Transition in Mortality Risks, Health Status Profile of American Indians in Arizona, Suicide and Self-Inflicted Injury, and Deaths from Exposure to Excessive Natural Heat Occurring in Arizona.

