



Mortality from **ALZHEIMER'S DISEASE** Among Arizona Residents

2011-2021



ARIZONA DEPARTMENT
OF HEALTH SERVICES

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**MORTALITY FROM
ALZHEIMER'S DISEASE
AMONG ARIZONA RESIDENTS,
2011-2021**

by

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MORTALITY FROM ALZHEIMER'S DISEASE AMONG ARIZONA RESIDENTS, 2011-2021

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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 and resumed as the 7th leading cause in 2021. 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 2021 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/).

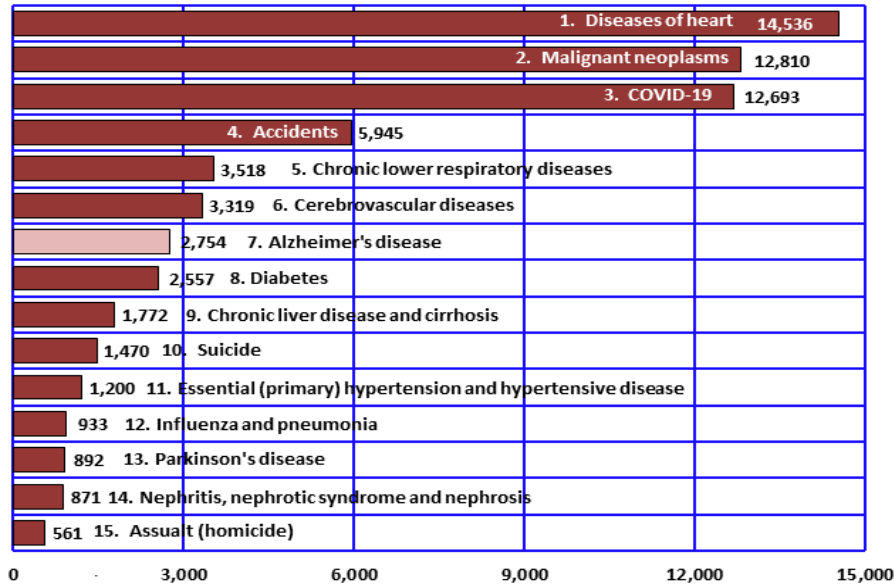
Beginning with the 2000 data year, two major changes have occurred in Arizona, affecting the computation of mortality rates, tabulation of leading causes of death and analyses of mortality data over time. First, a new revision of the International Classification of Diseases (ICD), used to classify causes 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 2000-2021 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.

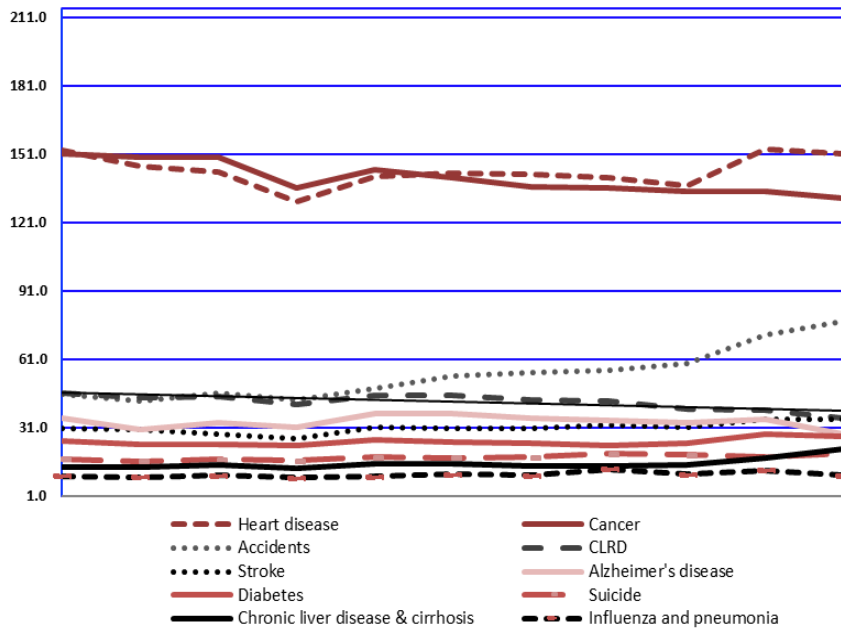
This report includes tables where small cells and related totals are suppressed. Using suppression rules similar to those used by the National Center for Health Statistics (NCHS), this report now attempts to maintain the anonymity of the individuals whose vital records are summarized herein. In cell 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, 2021



In 2021, Alzheimer's disease was the 7th leading cause of death for all ages, accounting for a total number of 2,754 deaths in Arizona (**Figure 1**). More Arizonans died in 2021 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, 2011-2021



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, 2011-2021

The age-adjusted mortality rate for Alzheimer’s disease decreased by 19.6 percent from 35.2/100,000 in 2011 to 28.3/100,000 in 2021 (**Figure 3**). The decrease in age-adjusted mortality rate for Alzheimer’s disease was reflected among females (13.3 percent) and males had a showed decrease (26.3 percent) during that time.

In 2011, the risk that a female would die from Alzheimer’s compared to a male was 34.9 percent greater. In 2021, however, the female-to-male mortality risk has increased to 58.7 percent.

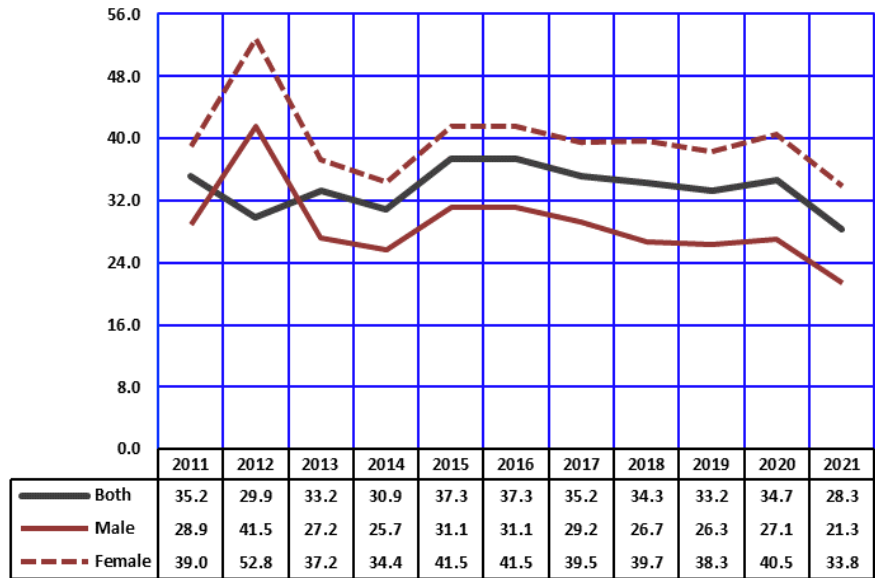


Figure 4
Age-Adjusted Mortality Rates for Alzheimer’s Disease
by Gender and Race/Ethnic Group, Arizona, 2021

The 2021 death rate for Alzheimer’s disease among Hispanic or Latino females was the highest among all race/gender groups in Arizona (**Figure 4**). Hispanics and White non-Hispanics had the highest death rates for Alzheimer’s disease among males.

White non-Hispanic females accounted for 1,510 deaths from Alzheimer’s disease (or 81.8 percent of all Alzheimer’s deaths among Arizona females), while White non-Hispanic males accounted for 758 deaths (or 83.4 percent of all Alzheimer’s deaths).

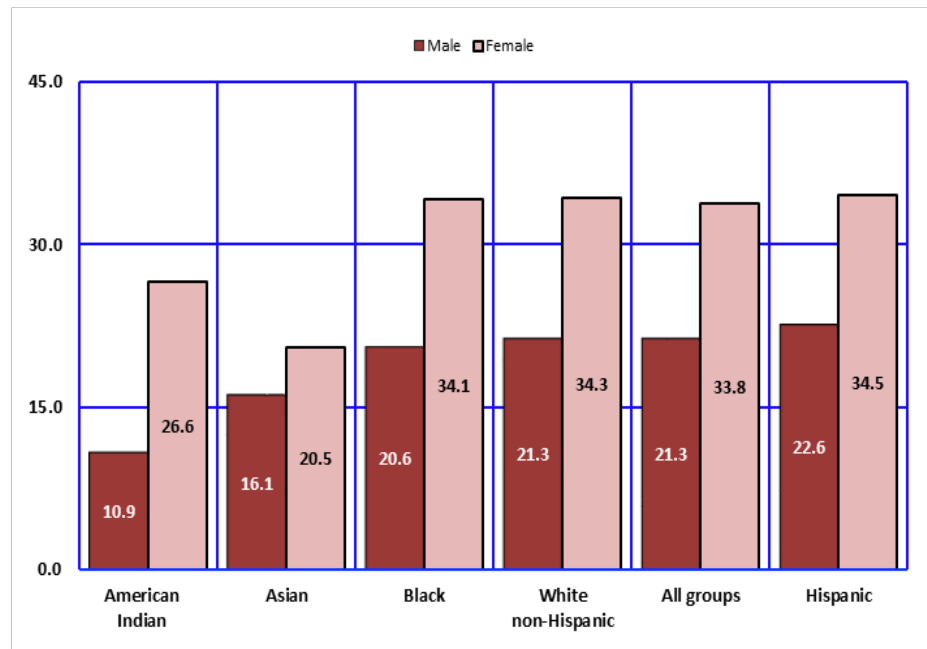
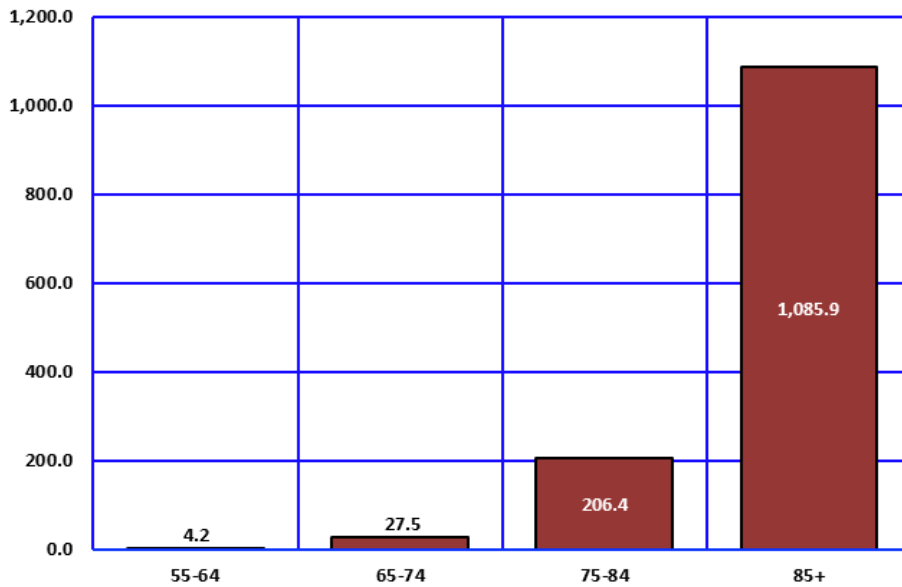
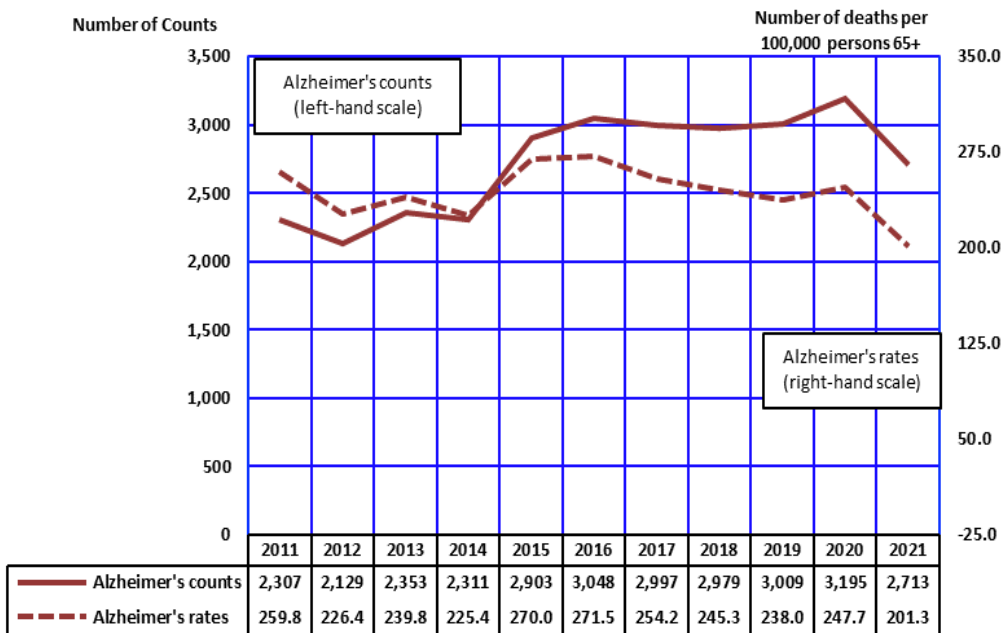


Figure 5
Age-Specific Mortality Rates for Alzheimer’s Disease
among Arizonans Aged 55 Years and Older, 2021



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 2021 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, 2011-2021



The number of Alzheimer’s deaths is higher than 2011, but has seen a decline from 2020. The mortality rate from Alzheimer’s disease was marked by a 22.5 percent decrease from 2011 to 2021 (**Figure 6**).

Figure 7
Mortality Rates for Alzheimer's Disease by Gender and Year
among Arizona Elderly Residents 65 Years and Older,
2011-2021

The death rate for Alzheimer's disease, the fourth leading cause of elderly female mortality in Arizona had a large decrease from 2011 (319.4/100,000) to 2021 (250.4/100,000; **Figure 7**). For elderly males, the mortality rate for Alzheimer's disease, the eighth leading cause of death among this group, decreased by 23.9 percent from 188.6/100,000 in 2011 to 143.6/100,000 in 2021. In 2011, the Alzheimer's disease mortality risk of elderly females compared to males was 69.4 percent greater, while in 2021 the risk was 74.4 percent greater.

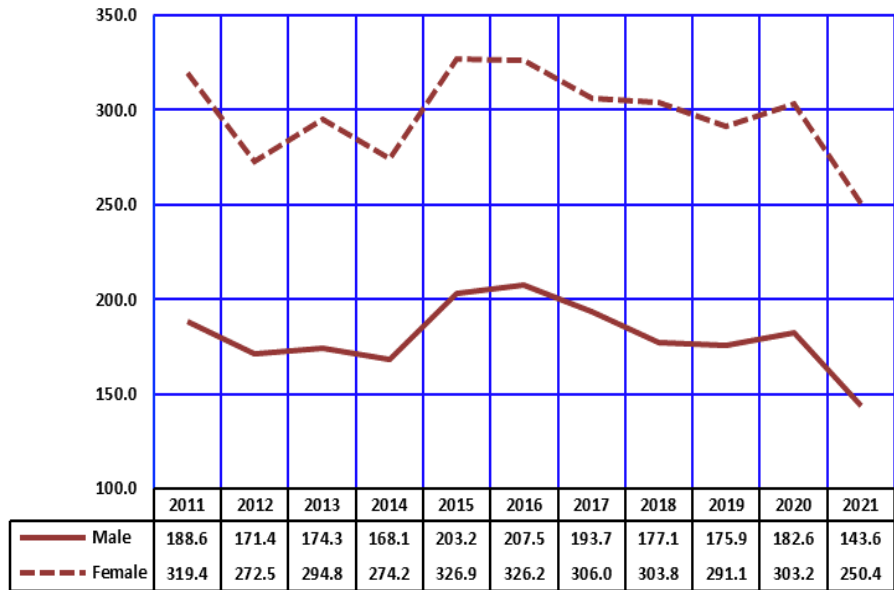


Figure 8
Mortality Rates for Alzheimer's Disease by Gender and Year
among Arizonans 75-84 Years Old, 2011-2021

Mortality rates for Alzheimer's disease among Arizonans 75-84 years old were higher among females than males from 2011 to 2021 (**Figure 8**). In 2011, the Alzheimer's disease mortality risk of elderly females compared to males in this age group was 22.5 percent greater, while in 2021 the risk was 39.8 percent greater.

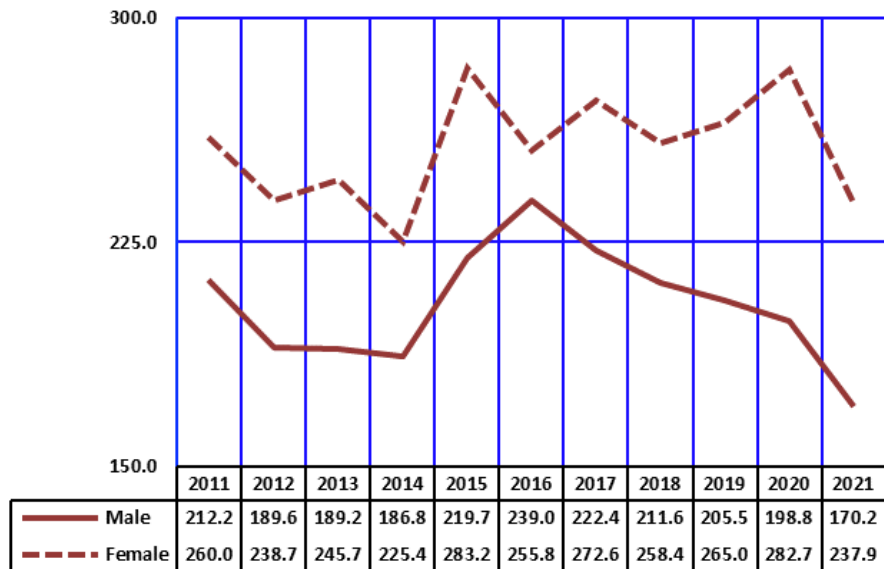
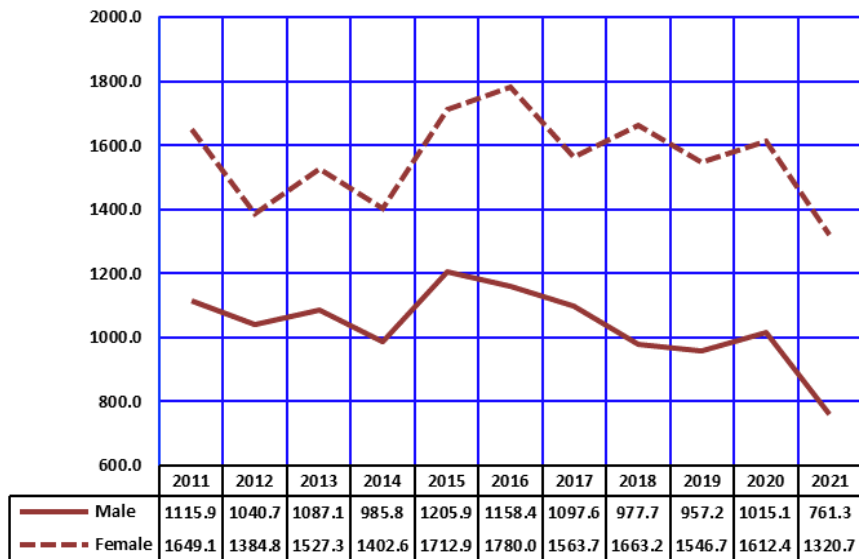
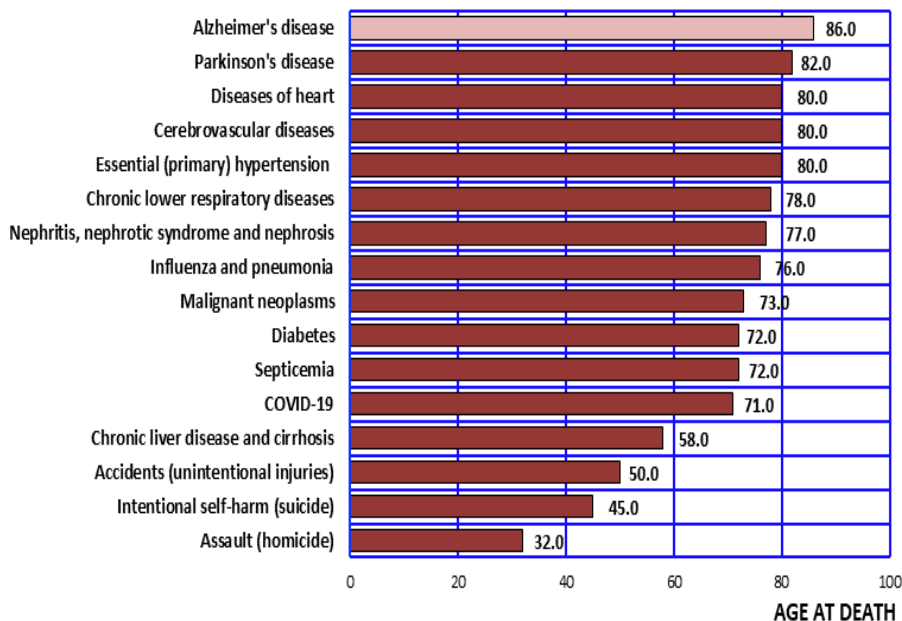


Figure 9
Mortality Rates for Alzheimer's Disease by Gender and Year
among Arizonans 85 Years and Older, 2011-2021



Among Arizonans 85 years and older, the mortality rates for Alzheimer's disease among females exceeded the male rates in every year from 2011 to 2021 (**Figure 9**). In 2011, the *Alzheimer's disease* mortality risk of elderly females compared to males in this age group was 47.8 percent greater, while in 2021 the risk was 73.5 percent greater.

Figure 10
Average Age at Death for Selected Leading Causes
of Death, Arizona, 2021



In 2021, Alzheimer's disease had the highest average age at death of 86.0 years, exceeding the average age at death for all causes by 14.8 years (**Figure 10**). Only 11.4 percent of deaths from Alzheimer's disease occurred before the age of 76.1 years, i.e., 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, 2021

White non-Hispanic elderly residents of Arizona disproportionately contributed to total mortality from Alzheimer’s disease. In 2021, White non-Hispanics accounted for 79.3 percent of all elderly 65 years and older, but 82.3 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 2021, White non-Hispanics were the only group with less than 50 percent of all deaths occurring before the expected years of life were reached.

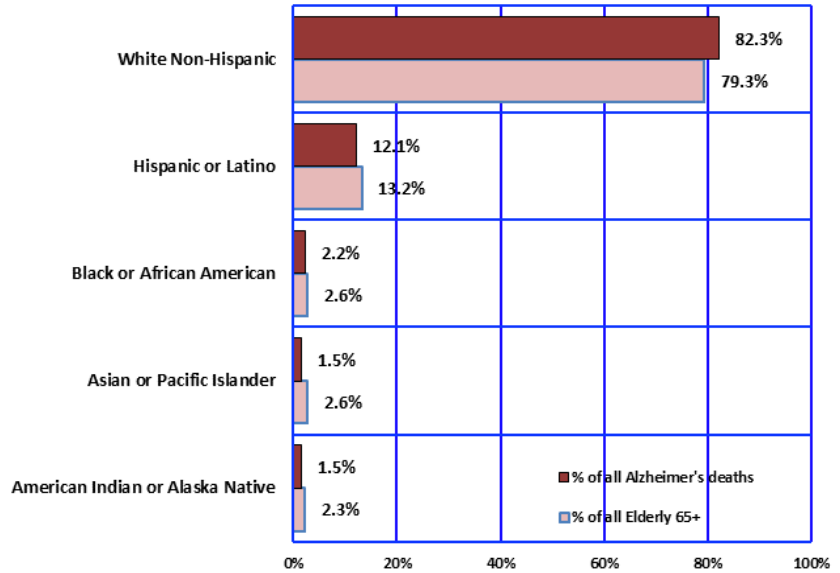


Figure 12
Age-Adjusted Mortality Rates for Alzheimer’s Disease by Gender in Urban and Rural Areas, Arizona, 2021

In 2021, the mortality rate for Alzheimer’s disease was 9.5 percent higher for urban (28.8/100,000) than rural (26.3/100,000) residents of the state (**Figure 12**). The mortality disadvantage of the urban compared to rural residents was particularly pronounced among males (20.2 percent) than females (2.4 percent).

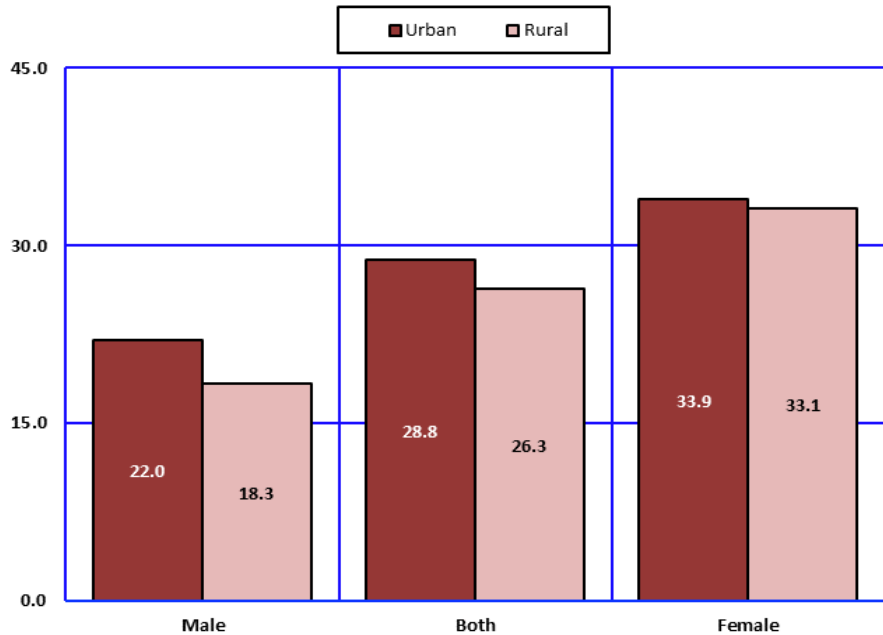
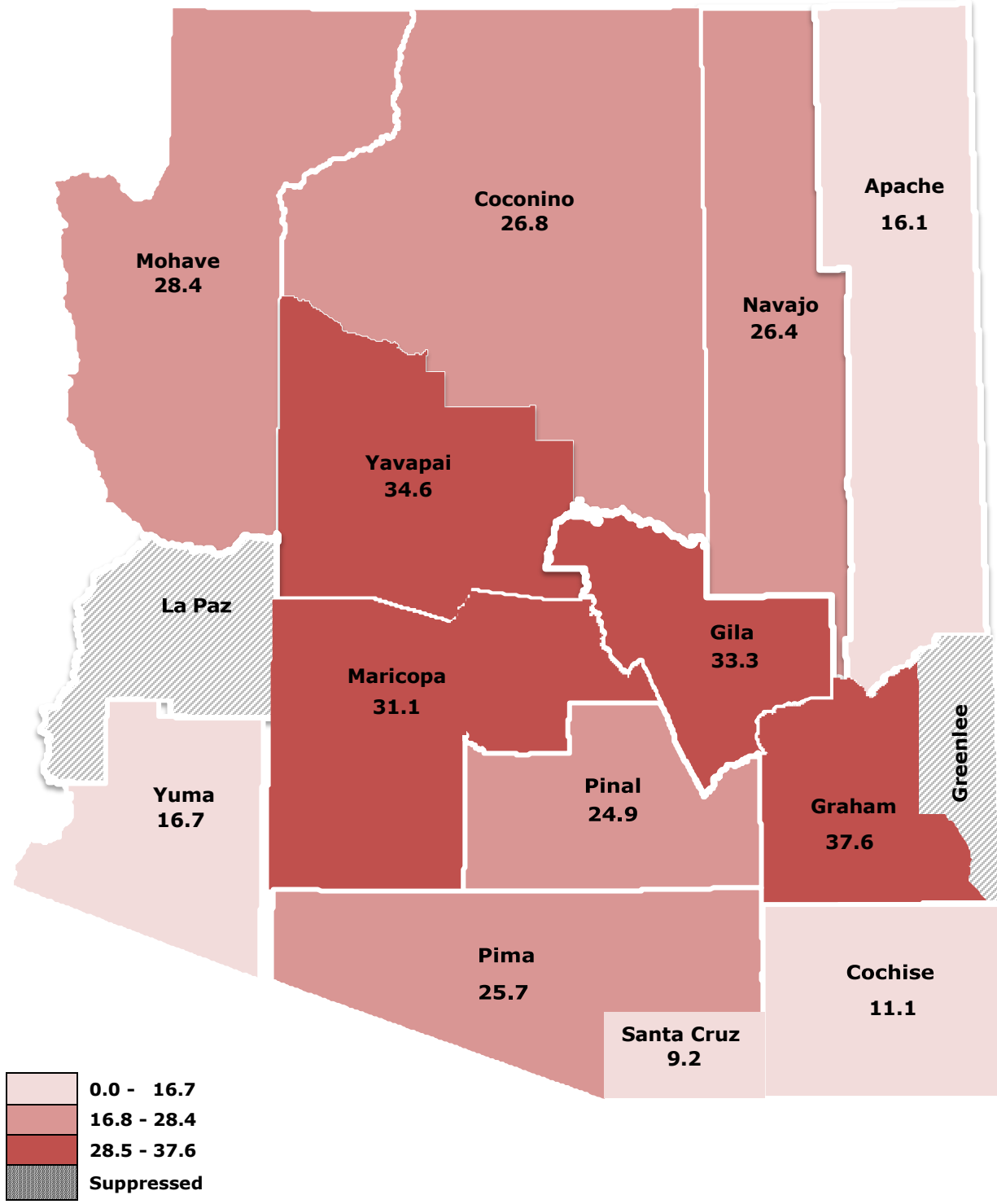


Figure 13
Age-Adjusted Mortality Rates* for Alzheimer’s Disease by County of Residence, Arizona, 2021



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

In 2021, mortality from Alzheimer’s disease among the fifteen Arizona counties ranged from a rate of 9.2 deaths per 100,000 persons in Santa Cruz County to a rate of 37.6 deaths per 100,000 persons in Graham County (Figure 13).

MORTALITY FROM ALZHEIMER'S DISEASE AMONG ARIZONA RESIDENTS, 2011-2021

DATA TABLES

**TABLE 1
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF MORTALITY BY YEAR, ARIZONA, 2011-2021**

Cause of death	Rank (count) in 2011	Rank (count) in 2012	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
Diseases of heart	2 (10,424)	2 (10,366)	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)
Malignant neoplasms	1 (10,543)	1 (10,871)	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)
COVID-19	-	-	-	-	-	-	-	-	-	3 (8,430)	3 (12,693)
Accidents (unintentional injury)	4 (2,959)	4 (2,804)	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)
Chronic lower respiratory diseases	3 (3,143)	3 (3,167)	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)
Cerebrovascular diseases	6 (2,067)	6 (2,096)	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)
Alzheimer's disease	5 (2,336)	5 (2,154)	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)
Diabetes	7 (1,721)	7 (1,698)	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)
Chronic liver disease and cirrhosis	9 (933)	9 (971)	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)
Intentional self-harm (suicide)	8 (1,113)	8 (1,070)	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)
Essential primary hypertension/ hypertensive renal disease	10 (725)	10 (739)	11 (711)	10 (758)	10 (896)	10 (1,010)	10 (1,018)	11 (928)	10 (1,009)	11 (1,131)	11 (1,200)
Influenza and pneumonia	11 (649)	11 (635)	10 (724)	11 (669)	11 (739)	11 (859)	11 (852)	10 (1,113)	11 (947)	12 (1,109)	12 (933)
Total, all causes	47,547	48,459	49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700	81,482

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, 2011-2021

Cause of death	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Diseases of heart	152.7	145.8	143.0	129.9	141.3	142.5	141.9	140.5	137.3	152.9	151.2
COVID-19	-	-	-	-	-	-	-	-	-	92.1	136.9
Malignant neoplasms	151.3	149.8	149.6	136.3	144.0	140.7	136.6	135.9	134.7	134.7	131.8
Accidents (unintentional injury)	45.5	42.4	46.3	43.3	48.1	53.7	55.3	55.9	59.2	71.5	77.8
Chronic lower respiratory diseases	45.9	44.2	44.5	41.1	45.1	45.0	43.0	42.6	39.2	38.8	35.3
Cerebrovascular diseases	30.6	29.9	28.2	26.2	31.1	30.7	30.7	32.1	31.0	34.6	34.4
Alzheimer's disease	35.2	29.9	33.2	30.9	37.3	37.3	35.2	34.3	33.2	34.7	28.3
Diabetes	24.8	23.5	23.6	23.0	25.7	24.5	23.8	23.0	23.9	27.9	26.8
Chronic liver disease and cirrhosis	13.4	13.6	14.5	13.2	14.9	15.1	14.2	14.2	14.7	17.4	21.6
Intentional self-harm (suicide)	17.2	16.2	17.0	16.5	17.8	17.7	18.0	19.5	18.9	18.2	19.4
Essential primary hypertension/ hypertensive renal disease	10.8	10.4	9.7	9.9	11.1	12.2	11.8	10.5	11.0	12.2	12.4
Influenza and pneumonia	9.7	9.1	10.0	8.9	9.4	10.4	9.9	12.7	10.4	12.2	9.9
Total, all causes	699.6	687.2	687.8	676.0	691.3	696.6	679.3	688.6	676.6	842.2	882.6

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, 2011-2021

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total	35.2	29.9	33.2	30.9	37.3	37.3	35.2	34.3	33.2	34.7	28.3
Male	28.9	41.5	27.2	25.7	31.1	31.1	29.2	26.7	26.3	27.1	21.3
Female	39.0	52.8	37.2	34.4	41.5	41.5	39.5	39.7	38.3	40.5	33.8

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, 2011-2021

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total	2,336	2,154	2,384	2,345	2,942	3,081	3,050	3,011	3,045	3,235	2,754
Male	774	748	792	807	1,028	1,084	1,076	1,010	1,046	1,103	909
Female	1,562	1,406	1,592	1,538	1,914	1,997	1,974	2,001	1,999	2,132	1,845

**TABLE 5
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY RACE/ETHNICITY AND GENDER, ARIZONA, 2011-2021**

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
All groups											
Total	2,336	2,154	2,384	2,345	2,942	3,081	3,050	3,011	3,045	3,235	2,754
Male	774	748	792	807	1,028	1,084	1,076	1,010	1,046	1,103	909
Female	1,562	1,406	1,592	1,538	1,914	1,997	1,974	2,001	1,999	2,132	1,845
White non-Hispanic											
Total	2,038	1,869	2,042	1,993	2,515	2,617	2,604	2,548	2,535	2,650	2,268
Male	675	658	677	695	878	940	937	845	887	921	758
Female	1,363	1,211	1,365	1,298	1,637	1,677	1,667	1,703	1,648	1,729	1,510
Hispanic or Latino											
Total	182	199	252	253	302	313	321	305	351	385	332
Male	57	70	82	81	113	95	96	113	98	128	104
Female	125	129	170	172	189	218	225	192	253	257	228
Black or African American											
Total	58	41	47	49	65	72	64	77	80	87	63
Male	21	13	15	19	19	23	26	26	35	26	20
Female	37	28	32	30	46	49	38	51	45	61	43
American Indian or Alaska Native											
Total	26	20†	25	37	34	44	23	38	38	40	41
Male	8	*	11	11	13	14	6	15	10	7	8
Female	18	13	14	26	21	30	17	23	28	33	33
Asian or Pacific Islander											
Total	17	30†	18	10†	30†	35	30†	34	35	57	42
Male	7	*	7	*	*	12	*	6	11	14	14
Female	10	25	11	12	21	23	22	28	24	43	28
Refused/Unknown											
Total	0	0	0	0	0	0	0	10†	10†	16	10†
Male	0	0	0	0	0	0	0	*	*	7	*
Female	0	0	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, 2011, 2013, AND 2021**

		2011	2013	2021
All groups	Total	2,336	2,384	2,754
	Male	774	792	909
	Female	1,562	1,592	1,845
Urban	Total	2,056	2,139	2,271
	Male	677	700	755
	Female	1,379	1,431	1,516
Rural	Total	272	244	479
	Male	95	49	153
	Female	177	161	326

**TABLE 7
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 2011-2021**

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total State	2,336	2,150†	2,380†	2,350†	2,940†	3,080†	3,050	3,010†	3,050†	3,240†	2,750†
Apache	8	*	8	*	13	12	14	11	13	9	12
Cochise	36	27	31	19	42	41	33	25	34	46	24
Coconino	20	11	18	19	22	34	23	35	27	26	33
Gila	24	27	25	30	37	22	17	35	39	30	37
Graham	7	9	*	6	9	10	12	32	15	19	15
Greenlee	0	*	*	*	*	*	6	*	*	*	*
La Paz	3	*	0	*	*	9	7	*	11	11	*
Maricopa	1,732	1,523	1,555	1,467	1,772	1,835	1,796	1,819	1,836	1,917	1,636
Mohave	56	49	42	61	97	116	154	172	138	179	132
Navajo	18	16	19	34	27	27	35	42	37	52	34
Pima	215	290	477	489	537	576	529	480	492	479	426
Pinal	89	71	85	92	160	116	116	110	122	167	150
Santa Cruz	8	13	16	12	10	18	17	15	18	14	6
Yavapai	92	97	80	68	152	200	219	164	161	184	182
Yuma	20	9	22	36	53	55	64	59	93	97	59
Unknown	8	*	*	*	*	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, 2011, 2013, AND 2021**

		2011	2013	2021
Total, all ages	Total	2,336	2,384	2,754
	Male	774	792	909
	Female	1,562	1,592	1,845
45-54	Total	1	0†	0†
	Male	0	*	*
	Female	1	*	*
55-64	Total	28	27	37
	Male	11	9	17
	Female	17	18	20
65-74	Total	121	157	212
	Male	66	65	76
	Female	55	92	136
75-84	Total	673	663	880
	Male	273	264	337
	Female	400	399	543
85+	Total	1,514	1,533	1,621
	Male	424	452	477
	Female	1,090	1,081	1,144

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, 2011-2021**

Cause of death	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total, all causes	34,318	34,958	35,983	37,010	39,480	41,189	42,199	43,572	44,398	55,283	58,019
Diseases of heart	8,407	8,449	8,583	8,130	9,189	9,673	10,171	10,265	10,406	11,699	12,083
Malignant neoplasms	7,513	7,729	8,015	7,715	8,502	8,686	8,850	8,984	9,356	9,644	9,721
COVID-19	-	-	-	-	-	-	-	-	-	6,260	8,421
Chronic lower respiratory diseases	2,745	2,746	2,868	2,743	3,192	3,286	3,293	3,310	3,237	3,220	3,135
Cerebrovascular disease	1,782	1,774	1,736	1,739	2,127	2,236	2,292	2,456	2,473	2,780	2,847
Alzheimer's disease	2,307	2,129	2,353	2,311	2,903	3,048	2,997	2,979	3,009	3,195	2,713
Diabetes	1,193	1,148	1,162	1,188	1,345	1,362	1,411	1,408	1,491	1,716	1,767
Accidents (unintentional injury)	1,070	999	1,146	1,145	1,298	1,463	1,485	1,508	1,560	1,550	1,742
Essential primary hypertension/ hypertensive renal disease	636	613	601	614	735	831	850	793	853	931	1,015
Parkinson's disease	526	565	561	558	700	697	737	773	785	986	869
Influenza and pneumonia	533	542	608	512	626	670	697	871	741	839	692
Nephritis, nephrotic syndrome and nephrosis	340	373	328	288	430	403	445	533	612	603	684

**TABLE 10
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY MALES 65 YEARS AND OLDER,
BY YEAR, ARIZONA, 2011-2021**

Cause of death	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total, all causes	16,517	17,101	17,489	18,292	19,665	20,781	21,144	22,030	22,480	28,258	30,125
Diseases of heart	4,310	4,384	4,511	4,280	4,798	5,187	5,446	5,514	5,599	6,308	6,633
Malignant neoplasms	4,075	4,257	4,294	4,235	4,609	4,798	4,854	5,048	5,100	5,275	5,299
COVID-19	-	-	-	-	-	-	-	-	-	3,576	4,853
Chronic lower respiratory diseases	1,288	1,372	1,356	1,367	1,527	1,542	1,566	1,573	1,545	1,547	1,477
Cerebrovascular disease	665	710	680	680	905	914	970	1,048	1,057	1,218	1,235
Diabetes	626	624	633	655	737	783	795	814	859	1,003	970
Accidents (unintentional injury)	505	474	563	570	675	779	766	811	863	857	954
Alzheimer's disease	763	735	781	792	1,005	1,073	1,052	992	1,025	1,084	890
Parkinson's disease	310	359	358	336	442	455	470	517	517	638	563
Essential primary hypertension/ hypertensive renal disease	247	249	256	283	322	386	377	341	382	419	448
Influenza and pneumonia	262	263	285	252	312	331	339	446	398	452	403
Nephritis, nephrotic syndrome and nephrosis	173	178	157	135	228	204	236	270	342	316	364

**TABLE 11
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY FEMALES 65 YEARS AND OLDER,
BY YEAR, ARIZONA, 2011-2021**

Cause of death	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total, all causes	17,798	17,855	18,494	18,718	19,815	20,408	21,055	21,542	21,918	27,025	27,894
Diseases of heart	4,096	4,065	4,072	3,850	4,391	4,486	4,725	4,751	4,807	5,391	5,450
Malignant neoplasms	3,437	3,472	3,721	3,480	3,893	3,888	3,996	3,936	4,256	4,369	4,422
COVID-19	-	-	-	-	-	-	-	-	-	2,684	3,568
Alzheimer's disease	1,544	1,394	1,572	1,519	1,898	1,975	1,945	1,987	1,984	2,111	1,823
Chronic lower respiratory diseases	1,457	1,374	1,512	1,376	1,665	1,744	1,727	1,737	1,692	1,673	1,658
Cerebrovascular disease	1,117	1,064	1,056	1,059	1,222	1,322	1,322	1,408	1,416	1,562	1,612
Diabetes	567	524	529	533	608	579	616	594	632	713	797
Accidents (unintentional injury)	565	525	583	575	623	684	719	697	697	693	788
Essential primary hypertension/ hypertensive renal disease	389	364	345	331	413	445	473	452	471	512	567
Nephritis, nephrotic syndrome and nephrosis	167	195	171	153	202	199	209	263	270	287	320
Parkinson's disease	216	206	203	222	258	242	267	256	268	348	306
Influenza and pneumonia	271	279	323	260	314	339	358	425	343	387	289

TABLE 12
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65 YEARS AND OLDER,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2021

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	58,019	30,125	27,894	45,392	12,494	133	45,574	7,647	1,672	1,740	1,066	320	
Diseases of heart	12,083	6,633	5,450	9,519	2,531	33	10,066	1,225	317	209	195	71	
Malignant neoplasms	9,721	5,299	4,422	7,584	2,118	19	7,976	1,051	284	194	169	47	
COVID-19	8,421	4,853	3,568	6,360	2,034	27	5,601	1,860	261	459	203	37	
Chronic lower respiratory diseases	3,135	1,477	1,658	2,313	820	*	2,812	190	49	28	31	25	
Cerebrovascular disease	2,847	1,235	1,612	2,274	563	10	2,193	392	120	57	69	16	
Alzheimer's disease	2,713	890	1,823	2,235	474	*	2,234	328	61	41	41	8	
Diabetes	1,767	970	797	1,417	347	*	1,071	407	87	135	54	13	
Accidents (unintentional injury)	1,742	954	788	1,357	374	11	1,382	192	47	66	36	19	
Essential primary hypertension/hypertensive renal disease	1,015	448	567	846	169	0	742	170	46	29	26	*	
Parkinson's disease	869	563	306	725	144	0	746	70	12	19	20	*	
Influenza and pneumonia	692	403	289	535	155	*	523	93	24	37	13	*	
Nephritis, nephrotic syndrome and nephrosis	684	364	320	497	186	*	483	124	28	32	13	*	

Note: * cell suppressed due to non-zero count 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, 2021**

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	17,385	10,248	7,137	13,221	4,096	68	12,575	2,845	737	756	308	164
Malignant neoplasms	3,858	2,151	1,707	2,961	888	9	3,020	496	149	94	72	27
COVID-19[†]	3,280	1,946	1,334	2,427	837	16	1,942	895	122	223	77	21
Diseases of heart	2,808	1,895	913	2,159	631	18	2,170	372	129	70	37	30
Chronic lower respiratory diseases	900	472	428	651	249	0	796	59	16	9	8	12
Diabetes	733	438	295	585	147	*	418	177	45	70	13	10
Cerebrovascular disease	644	356	288	504	138	*	453	105	47	14	19	6
Accidents (unintentional injury)	570	385	185	411	152	7	407	74	25	35	14	15
Essential primary hypertension/hypertensive renal disease	238	139	99	184	54	0	161	40	17	12	6	*
Alzheimer's disease	210 [†]	76	136	175	36	*	166	23	13	8	*	0
Nephritis, nephrotic syndrome and nephrosis	210 [†]	112	93	141	64	0	126	46	11	19	*	0
Influenza and pneumonia	200 [†]	134	67	147	52	*	133	35	10	18	*	*
Parkinson's disease	160 [†]	111	47	132	26	0	137	10	*	*	*	*

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, 2021**

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	20,707	11,204	9,503	16,007	4,661	39	16,505	2,593	557	569	383	100
Diseases of heart	3,957	2,344	1,613	3,026	923	8	3,294	395	103	69	70	26
Malignant neoplasms	3,809	2,059	1,750	2,993	806	10	3,197	368	99	64	67	14
COVID-19	3,192	1,909	1,283	2,359	826	7	2,216	635	87	162	81	11
Chronic lower respiratory diseases	1,301	619	682	955	344	*	1,171	74	21	13	12	10
Cerebrovascular disease	1,001	448	553	776	224	*	770	138	42	23	23	*
Alzheimer's disease	880	337	543	718	159	*	726	113	17	6	17	*
Diabetes	666	367	299	527	138	*	417	142	31	49	24	*
Accidents (unintentional injury)	550	295	255	428	120	*	436	69	12	20	10	*
Parkinson's disease	380†	254	129	320	63	0	330	33	*	9	7	*
Essential primary hypertension/hypertensive renal disease	332	148	184	275	57	0	239	62	15	9	7	0
Influenza and pneumonia	240†	139	102	192	49	0	186	32	7	10	*	*
Nephritis, nephrotic syndrome and nephrosis	240†	125	111	174	62	0	166	43	10	10	*	*

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, 2021**

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	19,927	8,673	11,254	16,164	3,737	26	16,494	2,209	378	415	375	56
Diseases of heart	5,318	2,394	2,924	4,334	977	7	4,602	458	85	70	88	15
Malignant neoplasms	2,054	1,089	965	1,630	424	0	1,759	187	36	36	30	6
COVID-19	1,949	998	951	1,574	371	*	1,443	330	52	74	45	*
Alzheimer's disease	1,621	477	1,144	1,342	279	0	1,342	192	31	27	22	7
Cerebrovascular disease	1,202	431	771	994	201	7	970	149	31	20	27	*
Chronic lower respiratory diseases	934	386	548	707	227	0	845	57	12	6	11	*
Accidents (unintentional injury)	622	274	348	518	102	*	539	49	10	11	12	*
Essential primary hypertension/hypertensive renal disease	445	161	284	387	58	0	342	68	14	8	13	0
Diabetes	368	165	203	305	62	*	236	88	11	16	17	0
Parkinson's disease	328	198	130	273	55	0	279	27	6	6	10	0
Influenza and pneumonia	250†	130	120	196	54	0	204	26	7	9	*	0
Nephritis, nephrotic syndrome and nephrosis	240†	127	116	182	60	*	191	35	7	*	*	*

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, 2011, 2013, AND 2021**

		Age group	2011	2013	2021
ALL GROUPS	Total	65-74	501,370	566,812	772,220
		75-84	282,492	301,956	426,299
		85+	104,091	112,360	149,281
		All 65+	887,953	981,128	1,347,800
	Male	65-74	237,874	266,833	359,216
		75-84	128,628	139,537	198,017
		85+	37,996	41,580	62,658
		All 65+	404,498	447,951	619,891
	Female	65-74	263,496	299,979	413,004
		75-84	153,864	162,418	228,282
		85+	66,095	70,780	86,623
		All 65+	483,455	533,178	727,909
WHITE NON-HISPANIC	Total	65-74	409,027	458,569	596,855
		75-84	238,263	251,656	349,008
		85+	91,143	96,999	123,602
		All 65+	738,433	807,224	1,069,465
	Male	65-74	196,316	217,849	280,009
		75-84	110,119	117,962	165,157
		85+	33,384	36,131	53,010
		All 65+	339,819	371,942	498,176
	Female	65-74	212,711	240,720	316,846
		75-84	128,144	133,695	183,851
		85+	57,759	60,868	70,592
		All 65+	398,614	435,282	571,289
HISPANIC	Total	65-74	57,504	69,838	111,578
		75-84	28,542	32,869	49,319
		85+	8,310	10,339	16,597
		All 65+	94,356	113,046	177,494
	Male	65-74	26,021	32,000	51,507
		75-84	12,048	14,224	21,290
		85+	3,033	3,764	6,304
		All 65+	41,102	49,989	79,101
	Female	65-74	31,483	37,837	60,071
		75-84	16,494	18,645	28,029
		85+	5,277	6,575	10,293
		All 65+	53,254	63,057	98,393

**TABLE 16 (continued)
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND RACE/ETHNICITY,
ARIZONA, 2011, 2013, AND 2021**

	Age group	2011	2013	2021
BLACK	Total	11,193	12,569	22,988
		5,006	5,539	9,396
		1,540	1,516	2,889
	All 65+	17,739	19,623	35,273
	Male	5,289	5,975	10,870
		2,142	2,472	4,137
		473	465	1,062
	All 65+	7,904	8,912	16,069
	Female	5,904	6,594	12,118
		2,864	3,068	5,259
		1,067	1,050	1,827
	AMERICAN INDIAN	Total	9,835	10,711
		13,871	14,290	19,428
		6,399	6,708	8,894
All 65+		2,036	2,210	2,812
Male		22,306	23,208	31,134
		6,136	6,388	8,528
		2,630	2,799	3,494
		735	767	1,022
All 65+		9,501	9,953	13,044
Female		7,735	7,902	10,900
		3,769	3,910	5,400
		1,301	1,443	1,790
ASIAN	Total	12,805	13,255	18,090
		9,775	11,548	21,371
		4,282	5,183	9,682
	All 65+	1,062	1,297	3,381
	Male	15,119	18,028	34,434
		4,112	4,621	8,302
		1,689	2,082	3,939
		371	453	1,260
	All 65+	6,172	7,156	13,501
	Female	5,663	6,926	13,069
		2,593	3,101	5,743
		691	844	2,121
All 65+	8,947	10,872	20,933	

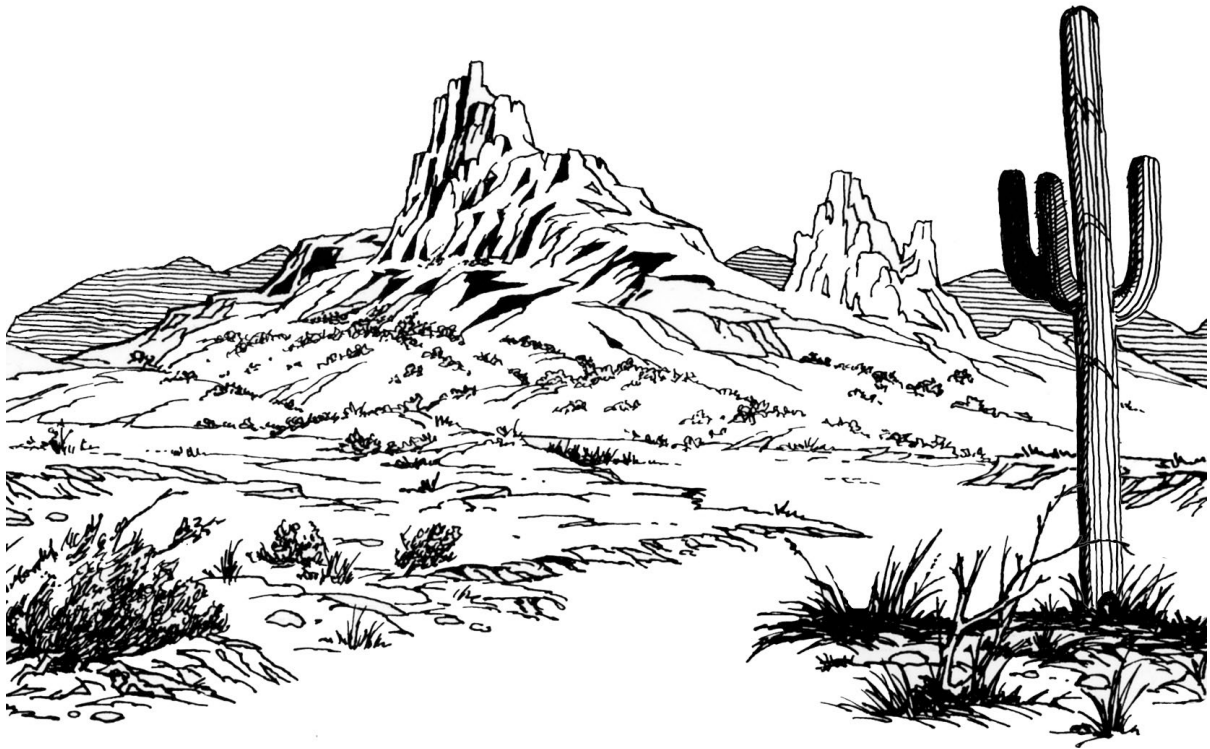
TABLE 17
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND COUNTY OF RESIDENCE,
ARIZONA, 2011, 2013, AND 2021

Age group	2011			2013			2021		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
ARIZONA									
65-74	237,874	263,496	501,370	266,833	299,979	566,812	359,216	413,004	772,220
75-84	128,628	153,864	282,492	139,537	162,418	301,956	198,017	228,282	426,299
85+	37,996	66,095	104,091	41,580	70,780	112,360	62,658	86,623	149,281
Total	404,498	483,455	887,953	447,951	533,178	981,128	619,891	727,909	1,347,800
APACHE									
65-74	2,509	2,704	5,213	2,757	3,038	5,795	3,038	3,443	6,481
75-84	1,040	1,293	2,333	1,240	1,474	2,713	1,509	1,890	3,399
85+	296	477	773	312	515	826	405	649	1,054
Total	3,845	4,474	8,319	4,308	5,026	9,334	4,952	5,982	10,934
COCHISE									
65-74	6,491	6,716	13,207	6,865	7,415	14,280	8,211	8,857	17,068
75-84	3,412	3,622	7,034	3,727	3,837	7,563	4,746	5,095	9,841
85+	896	1,416	2,312	919	1,455	2,374	1,385	1,762	3,147
Total	10,799	11,754	22,553	11,511	12,707	24,217	14,342	15,714	30,056
COCONINO									
65-74	3,647	3,789	7,436	4,363	4,636	8,999	6,507	6,688	13,195
75-84	1,512	1,873	3,385	1,713	1,935	3,648	2,475	2,970	5,445
85+	369	722	1,091	393	771	1,164	722	1,067	1,789
Total	5,528	6,384	11,912	6,468	7,342	13,810	9,704	10,725	20,429
GILA									
65-74	3,618	3,637	7,255	3,919	4,153	8,072	4,600	4,710	9,310
75-84	1,907	2,097	4,004	2,043	2,170	4,213	2,565	2,632	5,197
85+	416	775	1,191	475	772	1,247	705	914	1,619
Total	5,941	6,509	12,450	6,438	7,095	13,533	7,870	8,256	16,126
GRAHAM									
65-74	1,158	1,250	2,408	1,241	1,354	2,595	1,538	1,713	3,251
75-84	669	776	1,445	708	834	1,542	760	930	1,690
85+	164	286	450	167	277	445	264	367	631
Total	1,991	2,312	4,303	2,116	2,466	4,581	2,562	3,010	5,572
GREENLEE									
65-74	264	263	527	401	379	780	413	350	763
75-84	165	218	383	221	263	484	169	198	367
85+	34	72	106	41	101	142	53	141	194
Total	463	553	1,016	663	743	1,406	635	689	1,324
LA PAZ									
65-74	2,223	2,027	4,250	2,289	2,213	4,503	1,518	1,561	3,079
75-84	1,199	918	2,117	1,322	1,077	2,399	1,597	1,372	2,969
85+	173	216	389	233	232	465	552	414	966
Total	3,595	3,161	6,756	3,843	3,522	7,366	3,667	3,347	7,014

**TABLE 17 (continued)
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND COUNTY OF RESIDENCE,
ARIZONA, 2011, 2013, AND 2021**

	Age group	2011			2013			2021		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
MARICOPA	65-74	119,807	137,330	257,137	137,352	157,966	295,317	189,724	223,382	413,106
	75-84	65,602	83,608	149,210	70,848	87,546	158,394	100,782	122,105	222,887
	85+	21,028	38,432	59,460	22,895	41,102	63,997	33,282	49,115	82,397
	Total	206,437	259,370	465,807	231,095	286,614	517,709	323,788	394,602	718,390
MOHAVE	65-74	14,335	14,005	28,340	15,228	15,386	30,614	19,205	20,002	39,207
	75-84	7,269	7,180	14,449	8,220	7,952	16,172	11,913	11,411	23,324
	85+	1,541	2,382	3,923	1,773	2,603	4,377	3,146	3,582	6,728
	Total	23,145	23,567	46,712	25,221	25,941	51,162	34,264	34,995	69,259
NAVAJO	65-74	4,324	4,527	8,851	4,805	5,179	9,984	6,147	6,703	12,850
	75-84	1,912	2,224	4,136	2,189	2,445	4,634	3,086	3,306	6,392
	85+	490	745	1,235	528	841	1,369	740	1,060	1,800
	Total	6,726	7,496	14,222	7,522	8,465	15,987	9,973	11,069	21,042
PIMA	65-74	38,392	43,873	82,265	43,048	49,593	92,641	57,607	66,975	124,582
	75-84	22,265	27,624	49,889	23,375	28,158	51,533	31,629	38,119	69,748
	85+	7,308	12,705	20,013	7,846	13,441	21,287	10,931	15,479	26,410
	Total	67,965	84,202	152,167	74,269	91,193	165,462	100,167	120,573	220,740
PINAL	65-74	16,789	17,209	33,998	18,191	19,587	37,778	25,932	29,662	55,594
	75-84	7,655	7,759	15,414	8,720	8,930	17,650	15,479	15,529	31,008
	85+	1,545	2,265	3,810	1,662	2,441	4,103	3,892	4,316	8,208
	Total	25,989	27,233	53,222	28,573	30,958	59,531	45,303	49,507	94,810
SANTA CRUZ	65-74	1,765	1,976	3,741	2,031	2,291	4,322	2,450	2,886	5,336
	75-84	845	1,061	1,906	990	1,160	2,150	1,403	1,573	2,976
	85+	233	432	665	268	477	745	392	568	960
	Total	2,843	3,469	6,312	3,289	3,928	7,217	4,245	5,027	9,272
YAVAPAI	65-74	14,031	14,920	28,951	15,691	17,054	32,746	22,770	25,516	48,286
	75-84	7,799	8,216	16,015	8,373	8,685	17,058	12,276	12,915	25,191
	85+	2,231	3,621	5,852	2,495	3,841	6,336	3,425	4,354	7,779
	Total	24,061	26,757	50,818	26,560	29,581	56,141	38,471	42,785	81,256
YUMA	65-74	8,521	9,270	17,791	8,652	9,735	18,387	9,556	10,556	20,112
	75-84	5,377	5,395	10,772	5,849	5,952	11,801	7,628	8,237	15,865
	85+	1,272	1,549	2,821	1,574	1,909	3,483	2,764	2,835	5,599
	Total	15,170	16,214	31,384	16,075	17,596	33,671	19,948	21,628	41,576

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, Health Status Profile of American Indians in Arizona, Mortality from Alzheimer's Disease, Heart Disease vs. Cancer: An Epidemiologic Transition in Mortality Risks, and Deaths from Exposure to Excessive Natural Heat Occurring in Arizona.



ARIZONA DEPARTMENT OF HEALTH SERVICES
Business Intelligence Office
Vital Statistics Program