



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

2012-2022



ARIZONA DEPARTMENT
OF HEALTH SERVICES

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**MORTALITY FROM
ALZHEIMER'S DISEASE
AMONG ARIZONA RESIDENTS,
2012-2022**

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MORTALITY FROM ALZHEIMER'S DISEASE AMONG ARIZONA RESIDENTS, 2012-2022

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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 remained as the 7th leading cause in 2021 and 2022. 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 2022 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/).

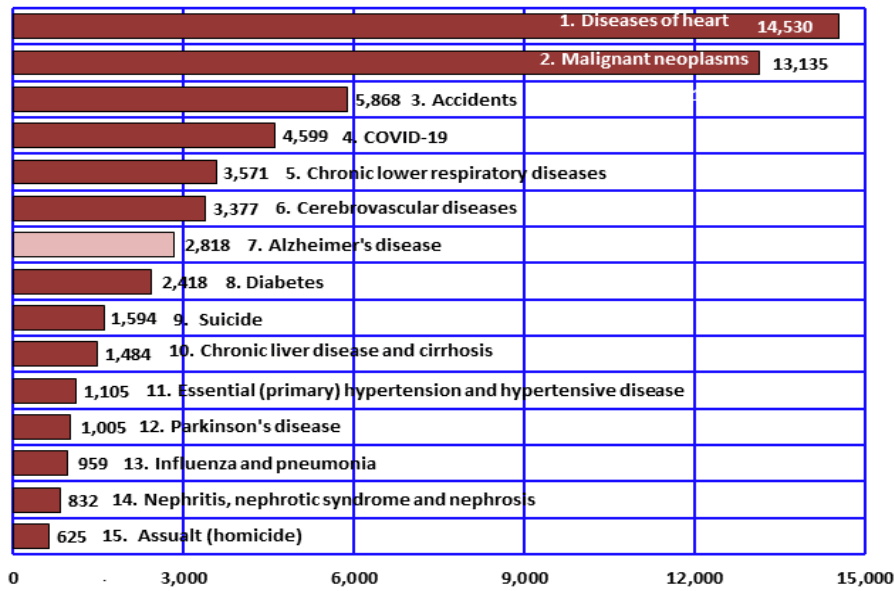
Beginning with the 2000 data year, two major changes have occurred in Arizona, affecting the computation of mortality rates, tabulation of leading causes of death and analyses of mortality data over time. First, a new revision of the International Classification of Diseases (ICD), used to classify causes 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 2000-2022 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.

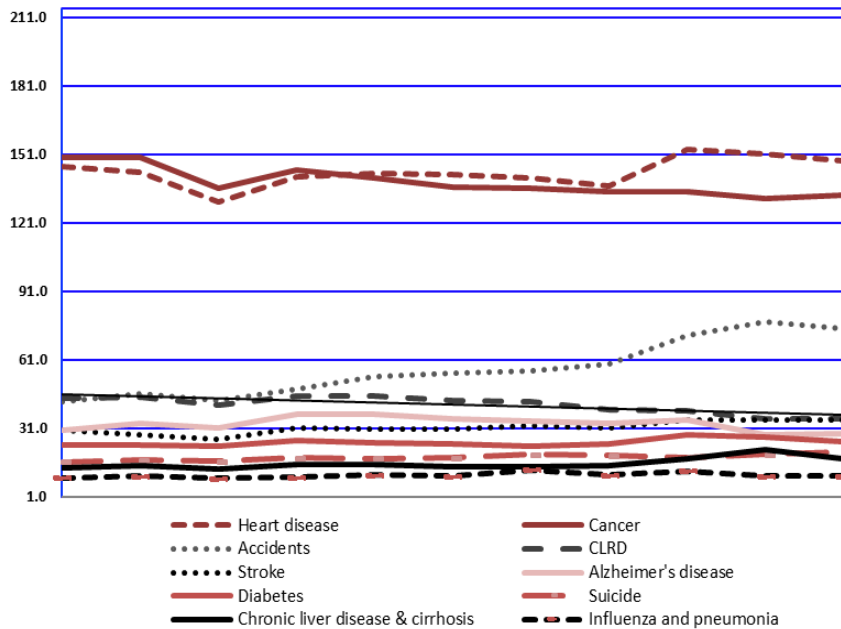
This report includes tables where small cells and related totals are suppressed. Using suppression rules similar to those used by the National Center for Health Statistics (NCHS), this report now attempts to maintain the anonymity of the individuals whose vital records are summarized herein. In cell 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, 2022



In 2022, Alzheimer's disease was the 7th leading cause of death for all ages, accounting for a total number of 2,818 deaths in Arizona (**Figure 1**). More Arizonans died in 2022 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, 2012-2022



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, 2012-2022

The age-adjusted mortality rate for Alzheimer’s disease decreased by 4.7 percent from 29.9/100,000 in 2012 to 28.5/100,000 in 2022 (**Figure 3**). The decrease in age-adjusted mortality rate for Alzheimer’s disease was reflected among females (36.2 percent) and males showed a decrease of (47.5 percent) during this time.

In 2012, the risk that a female would die from Alzheimer’s compared to a male was 27.2 percent greater. In 2022, however, the female-to-male mortality risk has increased to 54.6 percent.

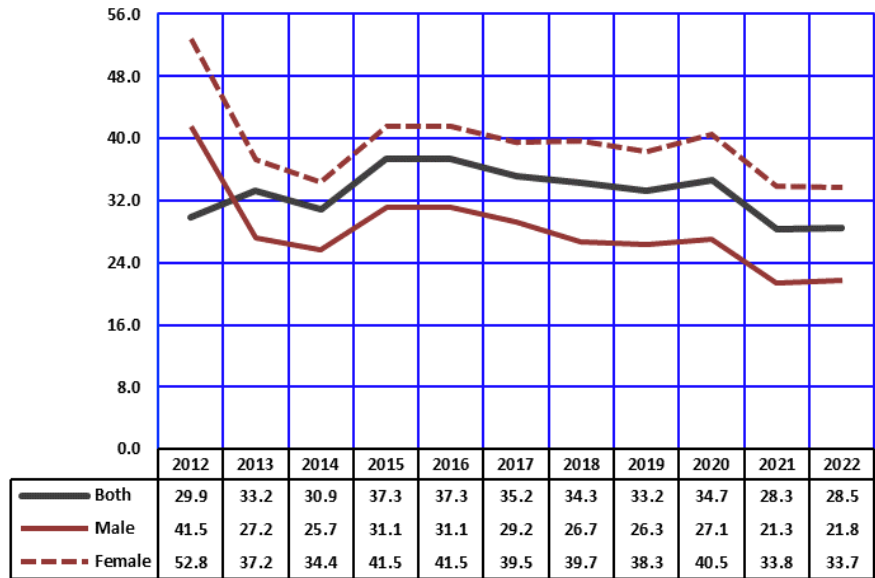


Figure 4
Age-Adjusted Mortality Rates for Alzheimer’s Disease
by Gender and Race/Ethnic Group, Arizona, 2022

The 2022 death rate for Alzheimer’s disease among Black or African American females was the highest among all race/gender groups in Arizona (**Figure 4**). Blacks and White non-Hispanics had the highest death rates for Alzheimer’s disease among males.

White non-Hispanic females accounted for 1,518 deaths from Alzheimer’s disease (or 81.3 percent of all Alzheimer’s deaths among Arizona females), while White non-Hispanic males accounted for 800 deaths (or 84.2 percent of all Alzheimer’s deaths).

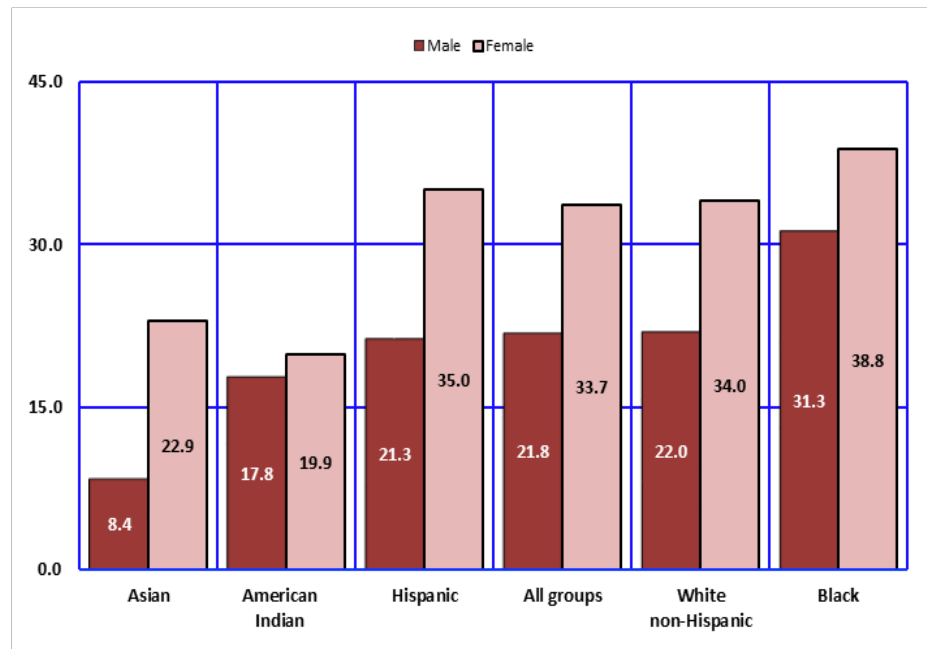
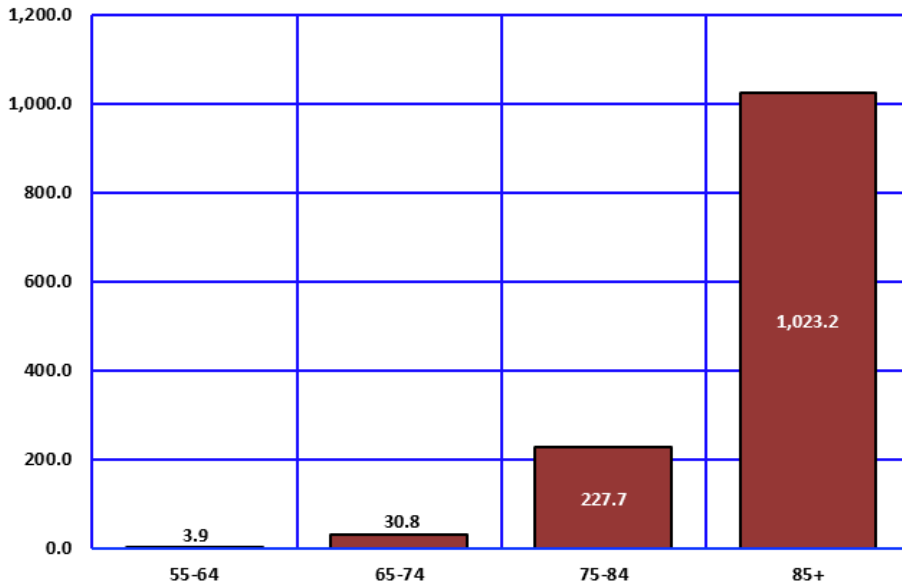
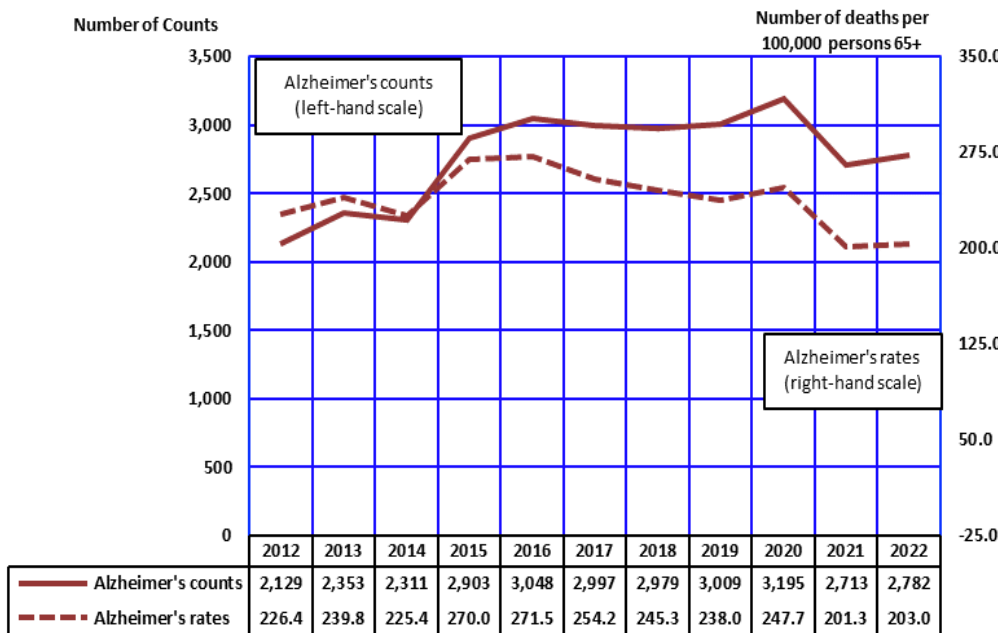


Figure 5
Age-Specific Mortality Rates for Alzheimer's Disease
among Arizonans Aged 55 Years and Older, 2022



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 2022 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, 2012-2022



The number of Alzheimer's deaths is higher than 2012, but has seen a decline from 2020. The mortality rate from Alzheimer's disease was marked by a 10.3 percent decrease from 2012 to 2022 (**Figure 6**).

Figure 7
Mortality Rates for Alzheimer’s Disease by Gender and Year
among Arizona Elderly Residents 65 Years and Older,
2012-2022

The death rate for Alzheimer’s disease, the third leading cause of elderly female mortality in Arizona had a large decrease from 2012 (272.5/100,000) to 2022 (248.8/100,000; **Figure 7**). For elderly males, the mortality rate for Alzheimer’s disease, the eighth leading cause of death among this group, decreased by 13.0 percent from 171.4/100,000 in 2012 to 149.1/100,000 in 2022. In 2012, the Alzheimer’s disease mortality risk of elderly females compared to males was 59.0 percent greater, while in 2022 the risk was 66.9 percent greater.

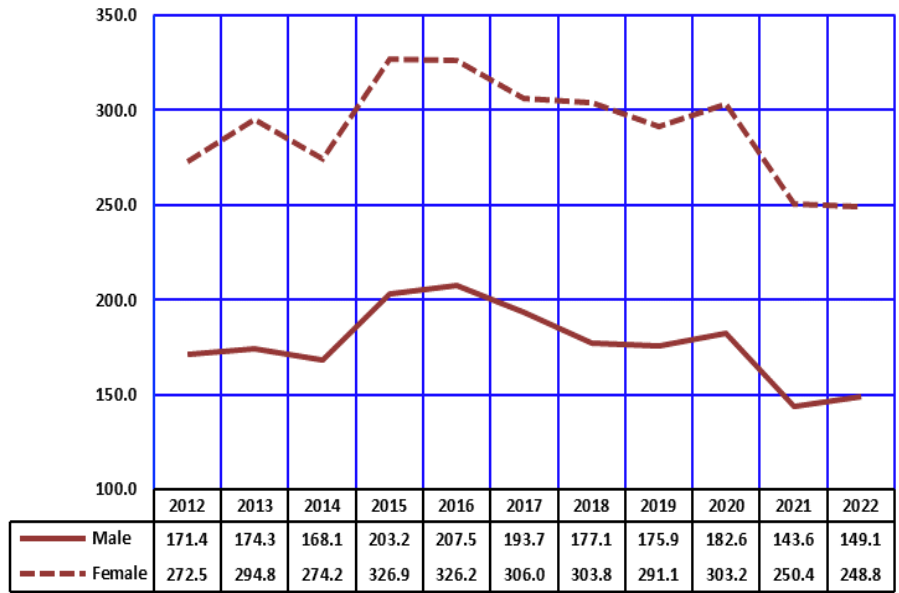


Figure 8
Mortality Rates for Alzheimer’s Disease by Gender and Year
among Arizonans 75-84 Years Old, 2012-2022

Mortality rates for Alzheimer’s disease among Arizonans 75-84 years old were higher among females than males from 2012 to 2022 (**Figure 8**). In 2012, the Alzheimer’s disease mortality risk of elderly females compared to males in this age group was 25.9 percent greater, while in 2022 the risk was 42.8 percent greater.

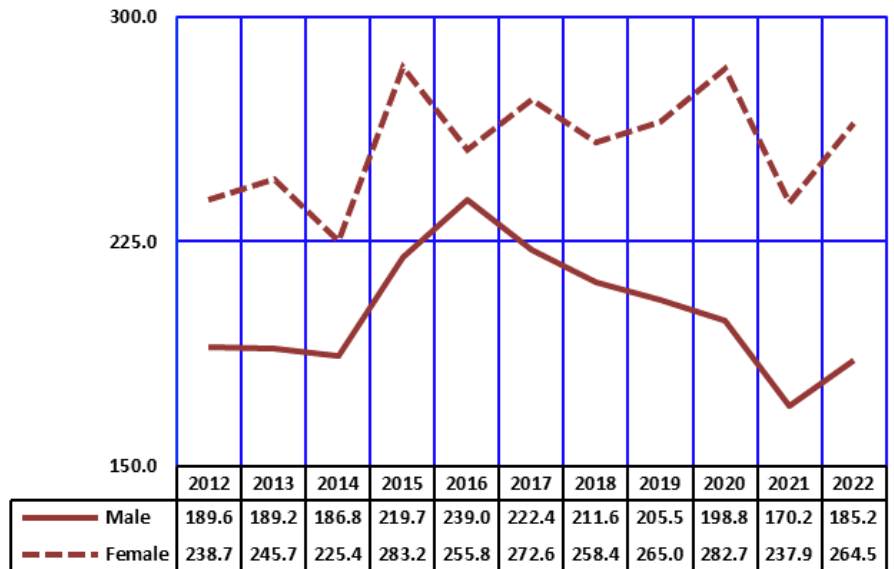
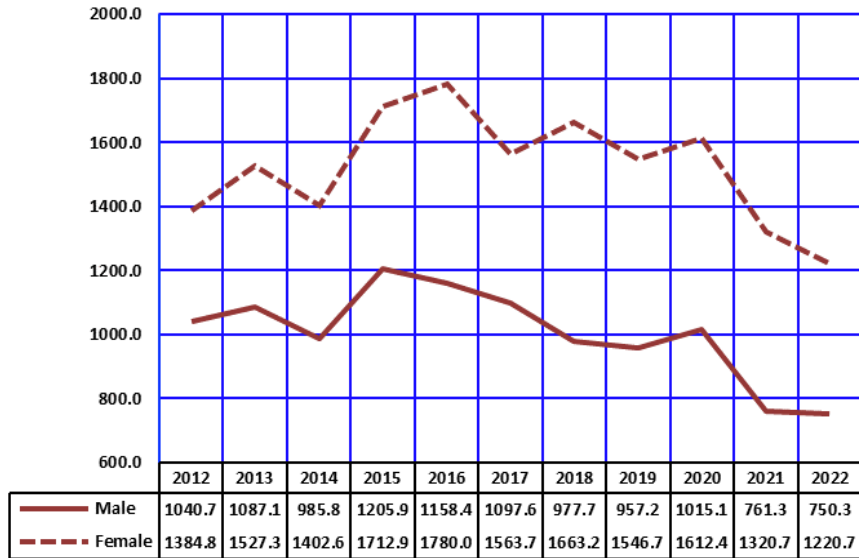
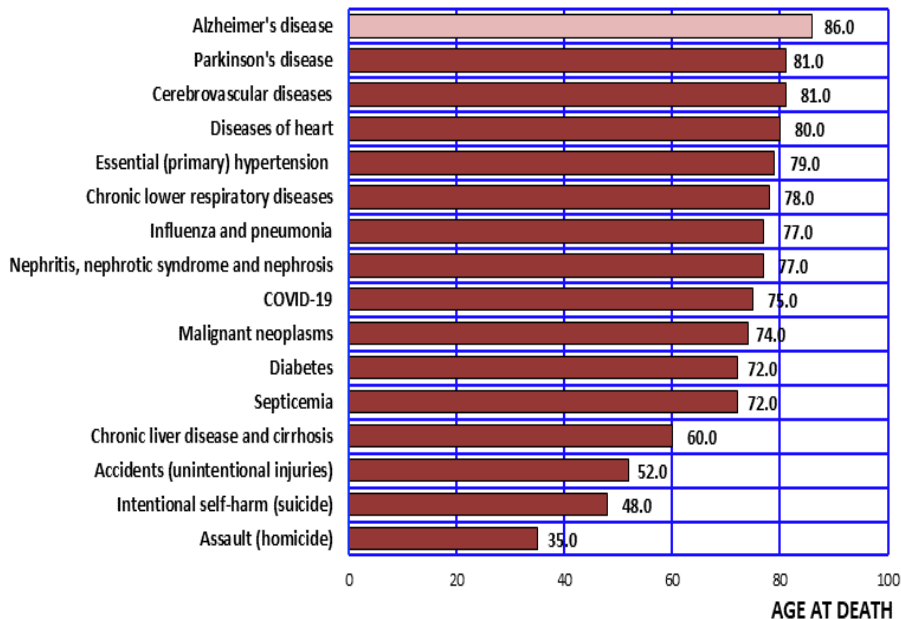


Figure 9
Mortality Rates for Alzheimer's Disease by Gender and Year
among Arizonans 85 Years and Older, 2012-2022



Among Arizonans 85 years and older, the mortality rates for Alzheimer's disease among females exceeded the male rates in every year from 2012 to 2022 (**Figure 9**). In 2012, the *Alzheimer's disease* mortality risk of elderly females compared to males in this age group was 33.1 percent greater, while in 2022 the risk was 62.7 percent greater.

Figure 10
Average Age at Death for Selected Leading Causes
of Death, Arizona, 2022



In 2022, Alzheimer's disease had the highest average age at death of 86.0 years, exceeding the average age at death for all causes by 13.9 years (**Figure 10**). Only 15.8 percent of deaths from Alzheimer's disease occurred before the age of 77.5 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, 2022

White non-Hispanic elderly residents of Arizona disproportionately contributed to total mortality from Alzheimer’s disease. In 2022, White non-Hispanics accounted for 79.4 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 2022, White non-Hispanics were the only group with less than 50 percent of all deaths occurring before the expected years of life were reached.

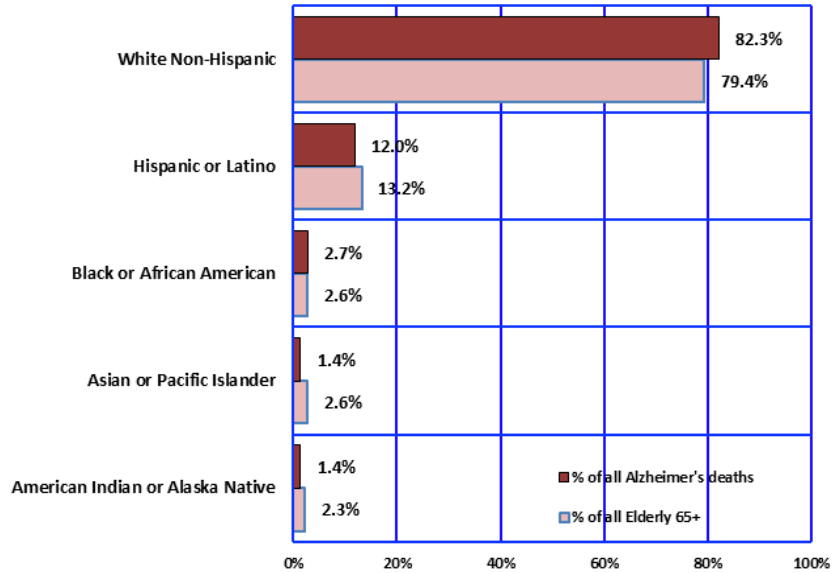


Figure 12
Age-Adjusted Mortality Rates for Alzheimer’s Disease by Gender in Urban and Rural Areas, Arizona, 2022

In 2022, the mortality rate for Alzheimer’s disease was 6.3 percent higher for urban (28.8/100,000) than rural (27.1/100,000) residents of the state (**Figure 12**). The mortality disadvantage of the urban compared to rural residents was particularly pronounced among males (16.7 percent) but there was no difference among females.

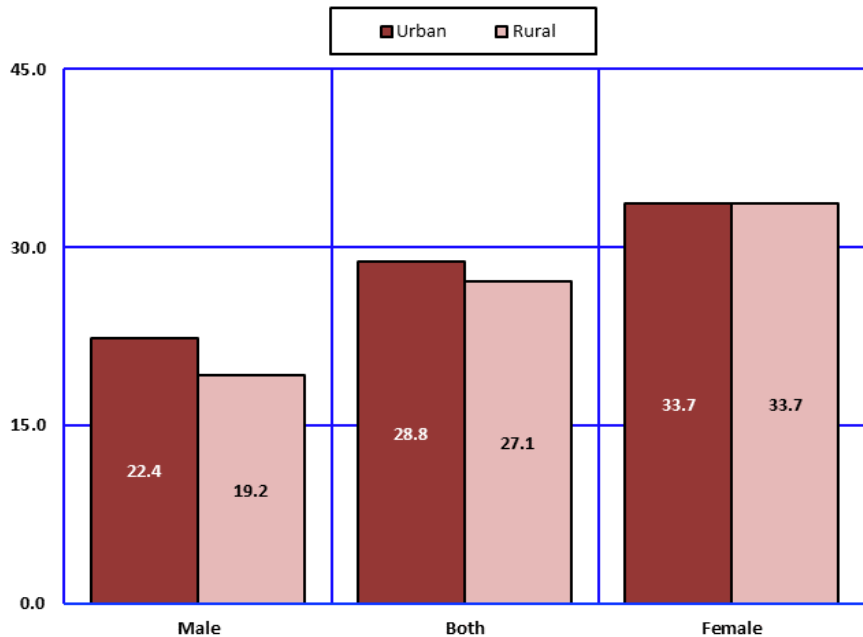
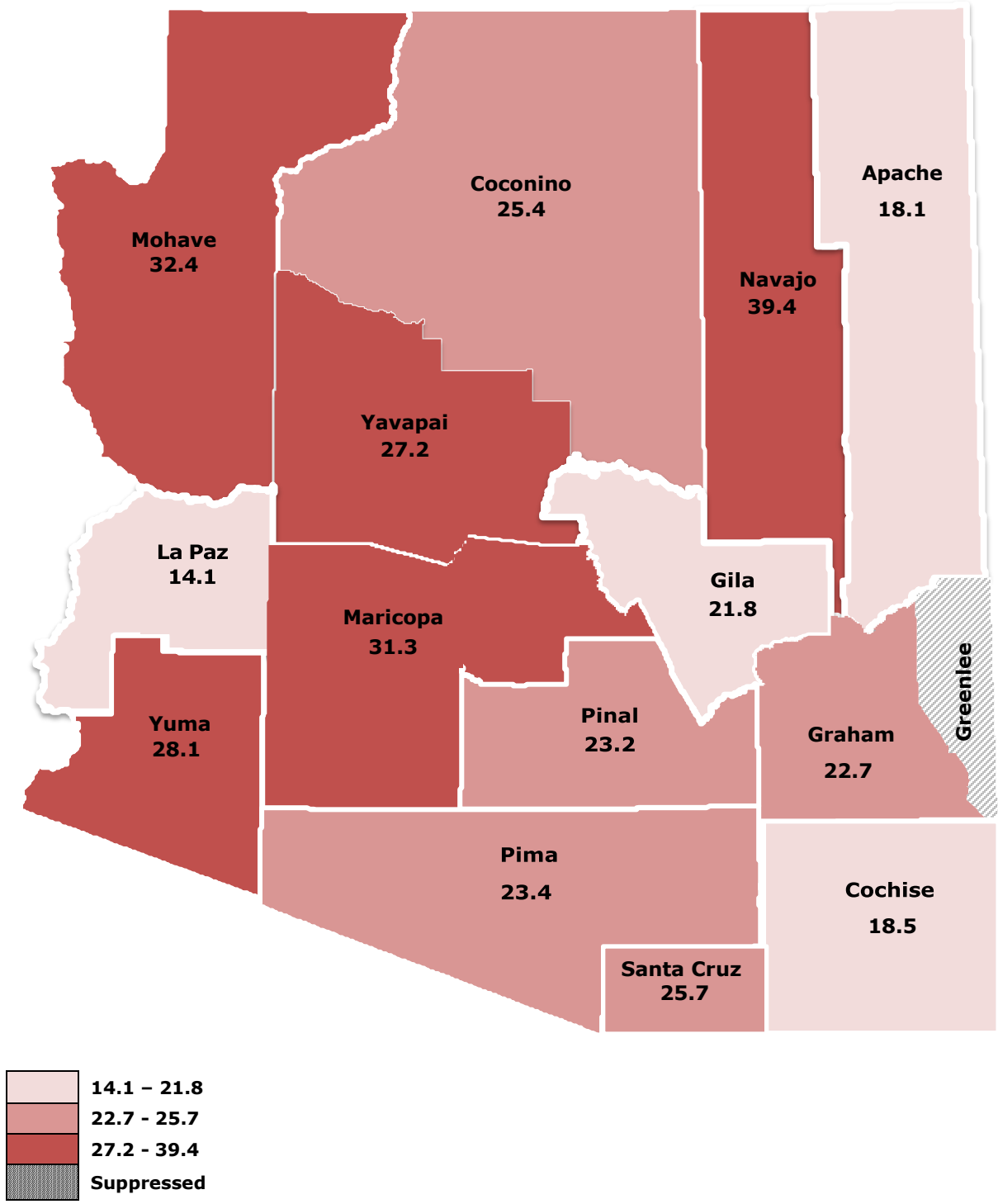


Figure 13
Age-Adjusted Mortality Rates* for Alzheimer’s Disease by County of Residence, Arizona, 2022



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

In 2022, mortality from Alzheimer’s disease among the fifteen Arizona counties ranged from a rate of 14.1 deaths per 100,000 persons in La Paz County to a rate of 39.4 deaths per 100,000 persons in Navajo County (Figure 13).

MORTALITY FROM ALZHEIMER'S DISEASE AMONG ARIZONA RESIDENTS, 2012-2022

DATA TABLES

**TABLE 1
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF MORTALITY BY YEAR, ARIZONA, 2012-2022**

Cause of death	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	Rank (count) in 2022
Diseases of heart	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)	1 (14,530)
Malignant neoplasms	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)	2 (13,135)
Accidents (unintentional injury)	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)	3 (5,868)
COVID-19	-	-	-	-	-	-	-	-	3 (8,430)	3 (12,693)	4 (4,599)
Chronic lower respiratory diseases	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)	5 (3,571)
Cerebrovascular diseases	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)	6 (3,377)
Alzheimer's disease	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)	7 (2,818)
Diabetes	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)	8 (2,418)
Intentional self-harm (suicide)	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)	9 (1,594)
Chronic liver disease and cirrhosis	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)	10 (1,484)
Essential primary hypertension/hypertensive renal disease	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)	11 (1,105)
Parkinson's disease	12 (579)	12 (578)	12 (569)	12 (719)	12 (712)	12 (749)	12 (790)	12 (806)	13 (1,016)	13 (892)	12 (1,005)
Influenza and pneumonia	11 (635)	10 (724)	11 (669)	11 (739)	11 (859)	11 (852)	10 (1,113)	11 (947)	12 (1,109)	12 (933)	13 (959)
Total, all causes	48,459	49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700	81,482	73,861

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, 2012-2022

Cause of death	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Diseases of heart	145.8	143.0	129.9	141.3	142.5	141.9	140.5	137.3	152.9	151.2	148.2
Malignant neoplasms	149.8	149.6	136.3	144.0	140.7	136.6	135.9	134.7	134.7	131.8	133.1
Accidents (unintentional injury)	42.4	46.3	43.3	48.1	53.7	55.3	55.9	59.2	71.5	77.8	74.8
COVID-19	-	-	-	-	-	-	-	-	92.1	136.9	47.5
Chronic lower respiratory diseases	44.2	44.5	41.1	45.1	45.0	43.0	42.6	39.2	38.8	35.3	35.3
Cerebrovascular diseases	29.9	28.2	26.2	31.1	30.7	30.7	32.1	31.0	34.6	34.4	34.5
Alzheimer's disease	29.9	33.2	30.9	37.3	37.3	35.2	34.3	33.2	34.7	28.3	28.5
Diabetes	23.5	23.6	23.0	25.7	24.5	23.8	23.0	23.9	27.9	26.8	25.1
Intentional self-harm (suicide)	16.2	17.0	16.5	17.8	17.7	18.0	19.5	18.9	18.2	19.4	20.5
Chronic liver disease and cirrhosis	13.6	14.5	13.2	14.9	15.1	14.2	14.2	14.7	17.4	21.6	17.4
Essential primary hypertension/ hypertensive renal disease	10.4	9.7	9.9	11.1	12.2	11.8	10.5	11.0	12.2	12.4	11.3
Influenza and pneumonia	9.1	10.0	8.9	9.4	10.4	9.9	12.7	10.4	12.2	9.9	10.0
Total, all causes	687.2	687.8	676.0	691.3	696.6	679.3	688.6	676.6	842.2	882.6	784.3

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, 2012-2022**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total	29.9	33.2	30.9	37.3	37.3	35.2	34.3	33.2	34.7	28.3	28.5
Male	41.5	27.2	25.7	31.1	31.1	29.2	26.7	26.3	27.1	21.3	21.8
Female	52.8	37.2	34.4	41.5	41.5	39.5	39.7	38.3	40.5	33.8	33.7

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, 2012-2022**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total	2,154	2,384	2,345	2,942	3,081	3,050	3,011	3,045	3,235	2,754	2,818
Male	748	792	807	1,028	1,084	1,076	1,010	1,046	1,103	909	950
Female	1,406	1,592	1,538	1,914	1,997	1,974	2,001	1,999	2,132	1,845	1,868

**TABLE 5
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY RACE/ETHNICITY AND GENDER, ARIZONA, 2012-2022**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
All groups											
Total	2,154	2,384	2,345	2,942	3,081	3,050	3,011	3,045	3,235	2,754	2,818
Male	748	792	807	1,028	1,084	1,076	1,010	1,046	1,103	909	950
Female	1,406	1,592	1,538	1,914	1,997	1,974	2,001	1,999	2,132	1,845	1,868
White non-Hispanic											
Total	1,869	2,042	1,993	2,515	2,617	2,604	2,548	2,535	2,650	2,268	2,318
Male	658	677	695	878	940	937	845	887	921	758	800
Female	1,211	1,365	1,298	1,637	1,677	1,667	1,703	1,648	1,729	1,510	1,518
Hispanic or Latino											
Total	199	252	253	302	313	321	305	351	385	332	341
Male	70	82	81	113	95	96	113	98	128	104	100
Female	129	170	172	189	218	225	192	253	257	228	241
Black or African American											
Total	41	47	49	65	72	64	77	80	87	63	77
Male	13	15	19	19	23	26	26	35	26	20	28
Female	28	32	30	46	49	38	51	45	61	43	49
American Indian or Alaska Native											
Total	20†	25	37	34	44	23	38	38	40	41	38
Male	*	11	11	13	14	6	15	10	7	8	13
Female	13	14	26	21	30	17	23	28	33	33	25
Asian or Pacific Islander											
Total	30†	18	10†	30†	35	30†	34	35	57	42	39
Male	*	7	*	*	12	*	6	11	14	14	7
Female	25	11	12	21	23	22	28	24	43	28	32
Refused/Unknown											
Total	0	0	0	0	0	0	10†	10†	16	10†	10†
Male	0	0	0	0	0	0	*	*	7	*	*
Female	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, 2012, 2014, AND 2022**

		2012	2014	2022
All groups	Total	2,154	2,345	2,818
	Male	748	807	950
	Female	1,406	1,538	1,868
Urban	Total	1,893	2,084	2,309
	Male	659	709	781
	Female	1,234	1,375	1,528
Rural	Total	259	256	506
	Male	87	98	168
	Female	172	158	338

**TABLE 7
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 2012-2022**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total State	2,150†	2,380†	2,350†	2,940†	3,080†	3,050	3,010†	3,050†	3,240†	2,750†	2,820†
Apache	*	8	*	13	12	14	11	13	9	12	14
Cochise	27	31	19	42	41	33	25	34	46	24	39
Coconino	11	18	19	22	34	23	35	27	26	33	33
Gila	27	25	30	37	22	17	35	39	30	37	24
Graham	9	*	6	9	10	12	32	15	19	15	9
Greenlee	*	*	*	*	*	6	*	*	*	*	*
La Paz	*	0	*	*	9	7	*	11	11	*	9
Maricopa	1,523	1,555	1,467	1,772	1,835	1,796	1,819	1,836	1,917	1,636	1,670
Mohave	49	42	61	97	116	154	172	138	179	132	158
Navajo	16	19	34	27	27	35	42	37	52	34	53
Pima	290	477	489	537	576	529	480	492	479	426	394
Pinal	71	85	92	160	116	116	110	122	167	150	145
Santa Cruz	13	16	12	10	18	17	15	18	14	6	17
Yavapai	97	80	68	152	200	219	164	161	184	182	147
Yuma	9	22	36	53	55	64	59	93	97	59	100
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, 2012, 2014, AND 2022**

		2012	2014	2022
Total, all ages	Total	2,154	2,345	2,818
	Male	748	807	950
	Female	1,406	1,538	1,868
45-54	Total	4	10†	0†
	Male	2	*	0
	Female	2	*	*
55-64	Total	21	28	35
	Male	11	12	10
	Female	10	16	25
65-74	Total	126	173	242
	Male	61	71	89
	Female	65	102	153
75-84	Total	634	646	987
	Male	256	271	373
	Female	378	375	614
85+	Total	1,365	1,492	1,553
	Male	414	450	478
	Female	951	1,042	1,075

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, 2012-2022**

Cause of death	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total, all causes	34,958	35,983	37,010	39,480	41,189	42,199	43,572	44,398	55,283	58,019	54,266
Diseases of heart	8,449	8,583	8,130	9,189	9,673	10,171	10,265	10,406	11,699	12,083	12,093
Malignant neoplasms	7,729	8,015	7,715	8,502	8,686	8,850	8,984	9,356	9,644	9,721	10,058
COVID-19	-	-	-	-	-	-	-	-	6,260	8,421	3,523
Chronic lower respiratory diseases	2,746	2,868	2,743	3,192	3,286	3,293	3,310	3,237	3,220	3,135	3,150
Cerebrovascular disease	1,774	1,736	1,739	2,127	2,236	2,292	2,456	2,473	2,780	2,847	2,916
Alzheimer's disease	2,129	2,353	2,311	2,903	3,048	2,997	2,979	3,009	3,195	2,713	2,782
Accidents (unintentional injury)	999	1,146	1,145	1,298	1,463	1,485	1,508	1,560	1,550	1,742	1,835
Diabetes	1,148	1,162	1,188	1,345	1,362	1,411	1,408	1,491	1,716	1,767	1,659
Parkinson's disease	565	561	558	700	697	737	773	785	986	869	979
Essential primary hypertension/ hypertensive renal disease	613	601	614	735	831	850	793	853	931	1,015	936
Influenza and pneumonia	542	608	512	626	670	697	871	741	839	692	730
Nephritis, nephrotic syndrome and nephrosis	373	328	288	430	403	445	533	612	603	684	664

**TABLE 10
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY MALES 65 YEARS AND OLDER,
BY YEAR, ARIZONA, 2012-2022**

Cause of death	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total, all causes	17,101	17,489	18,292	19,665	20,781	21,144	22,030	22,480	28,258	30,125	27,660
Diseases of heart	4,384	4,511	4,280	4,798	5,187	5,446	5,514	5,599	6,308	6,633	6,584
Malignant neoplasms	4,257	4,294	4,235	4,609	4,798	4,854	5,048	5,100	5,275	5,299	5,428
COVID-19	-	-	-	-	-	-	-	-	3,576	4,853	2,062
Chronic lower respiratory diseases	1,372	1,356	1,367	1,527	1,542	1,566	1,573	1,545	1,547	1,477	1,488
Cerebrovascular disease	710	680	680	905	914	970	1,048	1,057	1,218	1,235	1,248
Accidents (unintentional injury)	474	563	570	675	779	766	811	863	857	954	1,019
Diabetes	624	633	655	737	783	795	814	859	1,003	970	944
Alzheimer's disease	735	781	792	1,005	1,073	1,052	992	1,025	1,084	890	940
Parkinson's disease	359	358	336	442	455	470	517	517	638	563	620
Essential primary hypertension/ hypertensive renal disease	249	256	283	322	386	377	341	382	419	448	438
Influenza and pneumonia	263	285	252	312	331	339	446	398	452	403	389
Nephritis, nephrotic syndrome and nephrosis	178	157	135	228	204	236	270	342	316	364	353

**TABLE 11
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY FEMALES 65 YEARS AND OLDER,
BY YEAR, ARIZONA, 2012-2022**

Cause of death	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total, all causes	17,855	18,494	18,718	19,815	20,408	21,055	21,542	21,918	27,025	27,894	26,606
Diseases of heart	4,065	4,072	3,850	4,391	4,486	4,725	4,751	4,807	5,391	5,450	5,509
Malignant neoplasms	3,472	3,721	3,480	3,893	3,888	3,996	3,936	4,256	4,369	4,422	4,630
Alzheimer's disease	1,394	1,572	1,519	1,898	1,975	1,945	1,987	1,984	2,111	1,823	1,842
Cerebrovascular disease	1,064	1,056	1,059	1,222	1,322	1,322	1,408	1,416	1,562	1,612	1,668
Chronic lower respiratory diseases	1,374	1,512	1,376	1,665	1,744	1,727	1,737	1,692	1,673	1,658	1,662
COVID-19	-	-	-	-	-	-	-	-	2,684	3,568	1,461
Accidents (unintentional injury)	525	583	575	623	684	719	697	697	693	788	816
Diabetes	524	529	533	608	579	616	594	632	713	797	715
Essential primary hypertension/ hypertensive renal disease	364	345	331	413	445	473	452	471	512	567	498
Parkinson's disease	206	203	222	258	242	267	256	268	348	306	359
Influenza and pneumonia	279	323	260	314	339	358	425	343	387	289	341
Nephritis, nephrotic syndrome and nephrosis	195	171	153	202	199	209	263	270	287	320	311

**TABLE 12
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65 YEARS AND OLDER,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2022**

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	54,266	27,660	26,606	42,893	11,258	115	43,516	6,553	1,593	1,461	865	278
Diseases of heart	12,093	6,584	5,509	9,544	2,521	28	10,042	1,220	339	236	176	80
Malignant neoplasms	10,058	5,428	4,630	7,888	2,155	15	8,204	1,095	304	224	187	44
COVID-19	3,523	2,062	1,461	2,711	808	*	2,589	601	87	169	63	14
Chronic lower respiratory diseases	3,150	1,488	1,662	2,343	801	6	2,844	168	71	28	23	16
Cerebrovascular disease	2,916	1,248	1,668	2,359	549	8	2,305	393	99	54	58	7
Alzheimer's disease	2,782	940	1,842	2,279	500	*	2,290	335	75	38	39	*
Accidents (unintentional injury)	1,835	1,019	816	1,422	401	12	1,460	212	50	68	29	16
Diabetes	1,659	944	715	1,328	328	*	1,045	366	76	130	35	7
Parkinson's disease	979	620	359	806	173	0	843	86	19	18	11	*
Essential primary hypertension/hypertensive renal disease	936	438	498	784	151	*	685	158	53	18	15	7
Influenza and pneumonia	730	389	341	562	165	*	545	110	16	40	11	8
Nephritis, nephrotic syndrome and nephrosis	664	353	311	489	175	0	450	138	26	35	10	*

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, 2022**

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	15,158	8,763	6,395	11,586	3,518	54	11,406	2,164	662	550	232	144
Malignant neoplasms	3,804	2,089	1,715	2,918	880	6	2,993	458	159	89	82	23
Diseases of heart	2,844	1,866	978	2,134	695	15	2,178	356	144	79	40	47
COVID-19	1,140	670	470	862	276	*	773	233	46	58	24	6
Chronic lower respiratory diseases	890+	457	433	654	235	*	794	49	25	8	*	11
Diabetes	670	396	274	528	139	*	408	147	33	64	13	*
Accidents (unintentional injury)	647	420	227	468	172	7	456	104	30	41	7	9
Cerebrovascular disease	611	329	282	495	112	*	451	103	32	13	9	*
Alzheimer's disease	240+	89	153	183	58	*	187	36	11	*	*	*
Essential primary hypertension/hypertensive renal disease	230+	139	87	181	45	0	157	38	18	*	*	*
Influenza and pneumonia	210+	121	87	157	49	*	145	37	*	17	*	*
Nephritis, nephrotic syndrome and nephrosis	200+	116	83	139	60	0	112	57	9	15	*	*
Parkinson's disease	170+	106	62	132	36	0	140	17	*	*	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, 2022**

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	19,636	10,591	9,045	15,405	4,190	41	15,927	2,259	560	492	307	91
Diseases of heart	4,012	2,382	1,630	3,097	907	8	3,333	402	106	86	64	21
Malignant neoplasms	3,989	2,198	1,791	3,153	830	6	3,290	423	109	83	68	16
Chronic lower respiratory diseases	1,323	649	674	972	347	*	1,200	76	22	10	11	*
COVID-19	1,320	789	531	998	321	*	992	208	29	65	21	*
Cerebrovascular disease	996	457	539	789	204	*	786	130	36	18	23	*
Alzheimer's disease	987	373	614	820	166	*	830	103	29	16	7	*
Diabetes	658	378	280	535	123	0	425	139	33	44	15	*
Accidents (unintentional injury)	596	346	250	459	132	*	489	63	17	14	7	6
Parkinson's disease	470†	304	170	396	78	0	415	39	8	*	8	0
Essential primary hypertension/hypertensive renal disease	330†	160	166	272	53	*	241	52	21	6	*	*
Influenza and pneumonia	250†	127	125	190	62	0	192	35	8	11	*	*
Nephritis, nephrotic syndrome and nephrosis	240†	130	111	181	60	0	169	45	13	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, 2022**

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	19,472	8,306	11,166	15,902	3,550	20	16,183	2,130	371	419	326	43
Diseases of heart	5,237	2,336	2,901	4,313	919	*	4,531	462	89	71	72	12
Malignant neoplasms	2,265	1,141	1,124	1,817	445	*	1,921	214	36	52	37	*
Alzheimer's disease	1,553	478	1,075	1,276	276	*	1,273	196	35	17	30	*
Cerebrovascular disease	1,309	462	847	1,075	233	*	1,068	160	31	23	26	*
COVID-19	1,063	603	460	851	211	*	824	160	12	46	18	*
Chronic lower respiratory diseases	937	382	555	717	219	*	850	43	24	10	9	*
Accidents (unintentional injury)	590†	253	339	495	97	0	515	45	*	13	15	*
Essential primary hypertension/hypertensive renal disease	384	139	245	331	53	0	287	68	14	7	7	*
Parkinson's disease	340†	210	127	278	59	0	288	30	6	9	*	*
Diabetes	331	170	161	265	66	0	212	80	10	22	7	0
Influenza and pneumonia	270†	141	129	215	54	*	208	38	*	12	6	*
Nephritis, nephrotic syndrome and nephrosis	220†	107	117	169	55	0	169	36	*	10	*	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, 2012, 2014, AND 2022**

		Age group	2012	2014	2022
ALL GROUPS	Total	65-74	538,719	593,726	785,398
		75-84	293,328	311,439	433,546
		85+	108,457	119,940	151,777
		All 65+	940,504	1,025,105	1,370,721
	Male	65-74	254,107	280,316	365,338
		75-84	134,990	145,081	201,400
		85+	39,781	45,647	63,710
		All 65+	428,878	471,044	630,448
	Female	65-74	284,612	313,410	420,060
		75-84	158,338	166,358	232,146
		85+	68,676	74,293	88,067
	WHITE NON-HISPANIC	Total	All 65+	511,626	554,061
		65-74	437,814	480,402	607,183
		75-84	245,488	259,039	355,023
		85+	94,077	102,948	125,695
		All 65+	777,379	842,389	1,087,901
Male		65-74	208,573	229,169	284,843
		75-84	114,640	122,563	168,012
		85+	34,702	39,540	53,908
		All 65+	357,915	391,272	506,763
Female		65-74	229,241	251,233	322,340
		75-84	130,848	136,476	187,011
		85+	59,375	63,408	71,787
HISPANIC	Total	All 65+	419,464	451,117	581,138
		65-74	64,967	68,935	113,406
		75-84	31,321	32,475	50,108
		85+	9,605	10,922	16,860
		All 65+	105,892	112,332	180,374
	Male	65-74	29,640	31,570	52,353
		75-84	13,461	14,035	21,632
		85+	3,469	4,038	6,406
		All 65+	46,570	49,643	80,391
	Female	65-74	35,327	37,365	61,053
		75-84	17,860	18,440	28,476
		85+	6,135	6,884	10,454
	All 65+	59,323	62,689	99,983	

TABLE 16 (continued)
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND RACE/ETHNICITY,
ARIZONA, 2012, 2014, AND 2022

	Age group	2012	2014	2022
BLACK	Total	11,756	14,739	23,392
	65-74	5,318	6,403	9,558
	75-84	1,511	1,971	2,937
	85+	18,586	23,113	35,887
	All 65+	5,581	7,001	11,059
	Male	2,345	2,888	4,208
	65-74	463	640	1,080
	75-84	8,390	10,529	16,347
	85+	6,175	7,738	12,333
	All 65+	2,973	3,515	5,350
AMERICAN INDIAN	Total	10,196	12,584	19,540
	65-74	13,546	16,421	19,680
	75-84	6,421	7,495	9,009
	85+	2,066	2,482	2,848
	All 65+	22,034	26,398	31,537
	Male	6,005	7,313	8,638
	65-74	2,641	3,139	3,539
	75-84	733	865	1,035
	85+	9,379	11,317	13,212
	All 65+	7,541	9,108	11,042
ASIAN	Total	3,781	4,356	5,470
	65-74	1,334	1,617	1,813
	75-84	12,655	15,081	18,325
	85+	10,635	13,229	21,737
	All 65+	4,780	6,027	9,848
	Male	1,198	1,617	3,437
	65-74	16,613	20,873	35,022
	75-84	4,307	5,263	8,445
	85+	1,904	2,456	4,009
	All 65+	414	564	1,281
FEMALE	Total	6,625	8,283	13,735
	65-74	6,328	7,966	13,292
	75-84	2,876	3,571	5,839
	85+	784	1,053	2,156
	All 65+	9,989	12,590	21,287

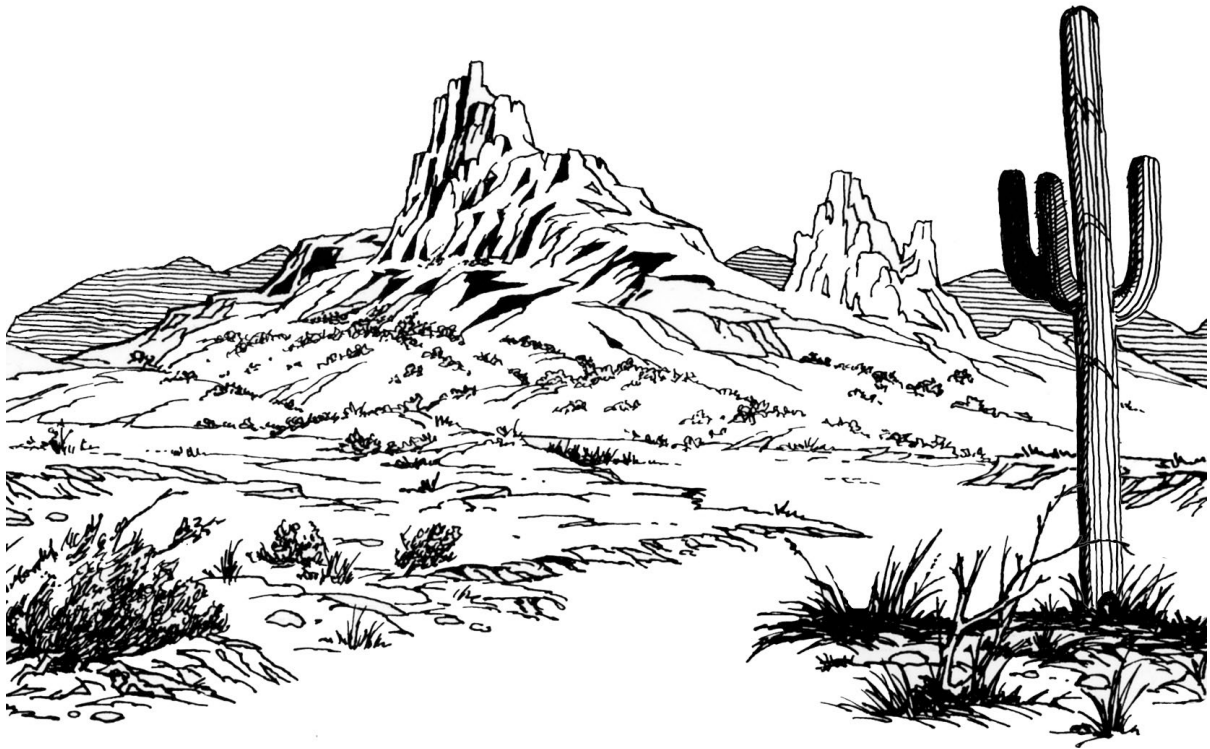
TABLE 17
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND COUNTY OF RESIDENCE,
ARIZONA, 2012, 2014, AND 2022

	Age group	2012			2014			2022		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
ARIZONA	65-74	254,107	284,612	538,719	280,316	313,410	593,726	365,338	420,060	785,398
	75-84	134,990	158,338	293,328	145,081	166,358	311,439	201,400	232,146	433,546
	85+	39,781	68,676	108,457	45,647	74,293	119,940	63,710	88,067	151,777
	Total	428,878	511,626	940,504	471,044	554,061	1,025,105	630,448	740,273	1,370,721
APACHE	65-74	2,646	2,918	5,564	2,623	2,983	5,606	3,059	3,466	6,525
	75-84	1,186	1,404	2,590	1,281	1,511	2,792	1,518	1,902	3,420
	85+	302	511	813	348	550	898	407	653	1,060
	Total	4,134	4,832	8,967	4,252	5,044	9,296	4,984	6,021	11,005
COCHISE	65-74	6,692	7,161	13,853	7,050	7,402	14,452	8,222	8,868	17,090
	75-84	3,633	3,707	7,341	3,809	3,874	7,683	4,751	5,103	9,854
	85+	897	1,430	2,326	1,053	1,514	2,567	1,388	1,764	3,152
	Total	11,222	12,299	23,520	11,912	12,790	24,702	14,361	15,735	30,096
COCONINO	65-74	4,027	4,289	8,316	4,457	4,674	9,131	6,603	6,787	13,390
	75-84	1,626	1,886	3,512	1,782	2,031	3,813	2,514	3,016	5,530
	85+	376	734	1,109	495	867	1,362	734	1,084	1,818
	Total	6,028	6,909	12,937	6,734	7,572	14,306	9,851	10,887	20,738
GILA	65-74	3,820	3,993	7,813	4,083	4,251	8,334	4,626	4,736	9,362
	75-84	2,010	2,111	4,121	2,094	2,185	4,279	2,581	2,647	5,228
	85+	440	775	1,215	509	855	1,364	710	920	1,630
	Total	6,270	6,880	13,149	6,686	7,291	13,977	7,917	8,303	16,220
GRAHAM	65-74	1,208	1,323	2,531	1,279	1,395	2,674	1,538	1,712	3,250
	75-84	673	793	1,466	696	887	1,583	759	930	1,689
	85+	162	277	439	179	247	426	264	368	632
	Total	2,042	2,393	4,435	2,154	2,529	4,683	2,561	3,010	5,571
GREENLEE	65-74	295	282	577	359	323	682	417	354	771
	75-84	176	221	396	184	232	416	169	198	367
	85+	33	73	106	35	100	135	54	141	195
	Total	504	576	1,079	578	655	1,233	640	693	1,333
LA PAZ	65-74	2,278	2,169	4,447	2,126	2,117	4,243	1,524	1,564	3,088
	75-84	1,275	999	2,274	1,502	1,228	2,730	1,600	1,376	2,976
	85+	217	234	451	280	280	560	554	415	969
	Total	3,770	3,402	7,172	3,908	3,625	7,533	3,678	3,355	7,033

**TABLE 17 (continued)
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND COUNTY OF RESIDENCE,
ARIZONA, 2012, 2014, AND 2022**

Age group	2012			2014			2022		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	MARICOPA								
65-74	129,498	148,881	278,379	143,778	164,997	308,775	193,050	227,299	420,349
75-84	68,565	85,672	154,237	72,701	88,773	161,474	102,549	124,244	226,793
85+	21,888	39,849	61,737	24,802	42,506	67,308	33,865	49,975	83,840
Total	219,951	274,402	494,353	241,281	296,276	537,557	329,464	401,518	730,982
MOHAVE									
65-74	14,857	14,873	29,730	15,812	15,653	31,465	19,609	20,426	40,035
75-84	7,895	7,598	15,493	8,437	8,206	16,643	12,165	11,653	23,818
85+	1,656	2,516	4,172	1,973	2,735	4,708	3,212	3,657	6,869
Total	24,409	24,987	49,396	26,222	26,594	52,816	34,986	35,736	70,722
NAVAJO									
65-74	4,601	4,969	9,569	4,835	5,268	10,103	6,196	6,755	12,951
75-84	2,078	2,344	4,422	2,280	2,514	4,794	3,111	3,332	6,443
85+	504	788	1,292	636	950	1,586	745	1,070	1,815
Total	7,183	8,100	15,283	7,751	8,732	16,483	10,052	11,157	21,209
PIMA									
65-74	41,009	47,255	88,265	44,997	51,732	96,729	58,367	67,860	126,227
75-84	22,975	27,853	50,828	24,400	28,895	53,295	32,049	38,621	70,670
85+	7,606	13,172	20,778	8,539	14,283	22,822	11,075	15,683	26,758
Total	71,590	88,281	159,871	77,936	94,910	172,846	101,491	122,164	223,655
PINAL									
65-74	17,735	18,702	36,437	21,058	22,045	43,103	26,807	30,661	57,468
75-84	8,250	8,424	16,673	9,771	9,573	19,344	16,000	16,054	32,054
85+	1,587	2,360	3,947	2,178	2,879	5,057	4,023	4,461	8,484
Total	27,571	29,485	57,057	33,007	34,497	67,504	46,830	51,176	98,006
SANTA CRUZ									
65-74	1,929	2,159	4,088	2,107	2,393	4,500	2,478	2,921	5,399
75-84	942	1,106	2,048	1,034	1,271	2,305	1,419	1,590	3,009
85+	256	467	722	271	490	761	397	575	972
Total	3,127	3,732	6,858	3,412	4,154	7,566	4,294	5,086	9,380
YAVAPAI									
65-74	14,985	16,158	31,143	16,713	17,959	34,672	23,166	25,962	49,128
75-84	8,055	8,527	16,582	8,667	8,860	17,527	12,492	13,142	25,634
85+	2,386	3,691	6,077	2,639	4,082	6,721	3,484	4,430	7,914
Total	25,426	28,376	53,803	28,019	30,901	58,920	39,142	43,534	82,676
YUMA									
65-74	8,527	9,481	18,008	9,039	10,218	19,257	9,676	10,689	20,365
75-84	5,653	5,692	11,345	6,443	6,318	12,761	7,723	8,338	16,061
85+	1,471	1,799	3,270	1,710	1,955	3,665	2,798	2,871	5,669
Total	15,651	16,972	32,623	17,192	18,491	35,683	20,197	21,898	42,095

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, and Deaths from Exposure to Excessive Natural Heat Occurring in Arizona.



ARIZONA DEPARTMENT OF HEALTH SERVICES
Business Intelligence Office
Vital Statistics Program