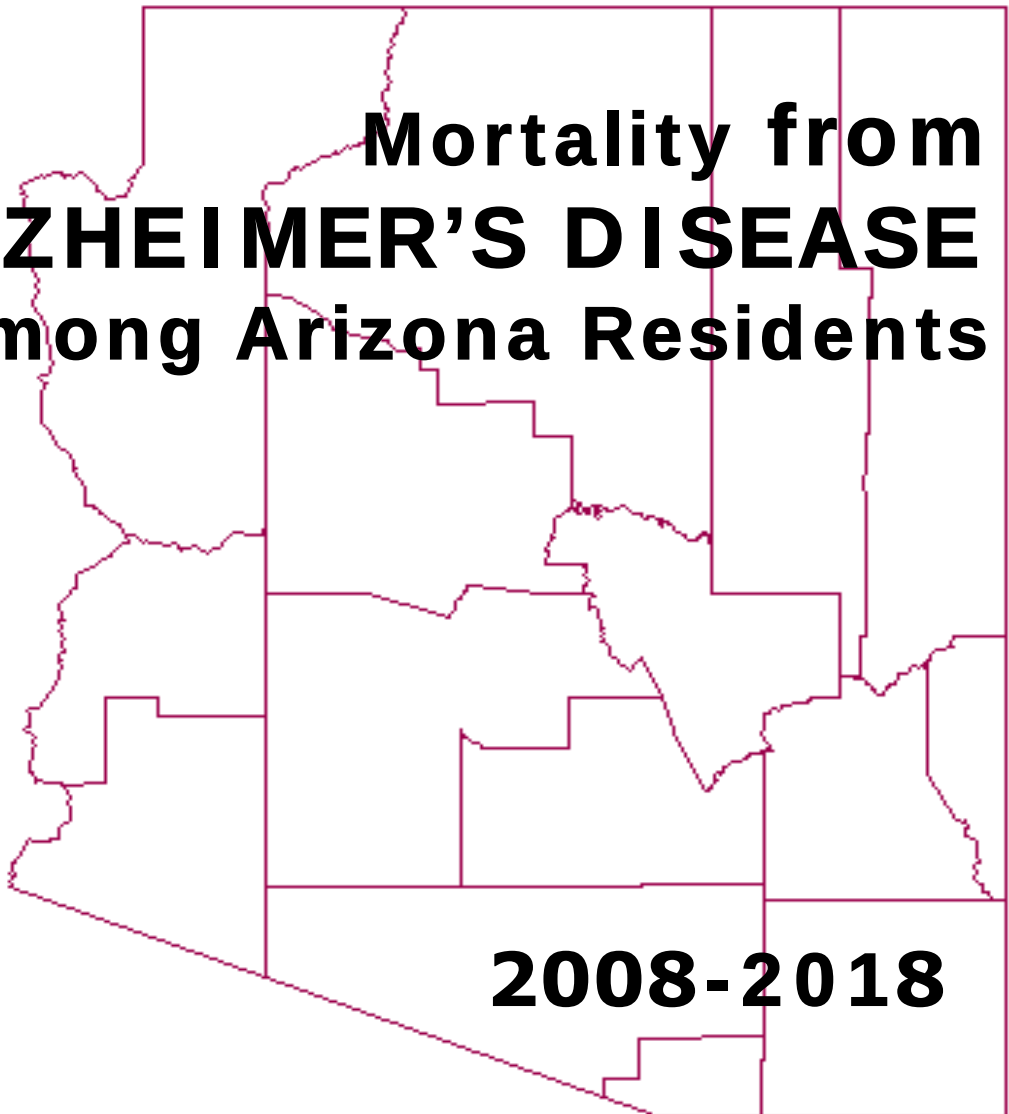




Mortality from ALZHEIMER'S DISEASE Among Arizona Residents

2008-2018



ARIZONA DEPARTMENT
OF HEALTH SERVICES

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MORTALITY FROM ALZHEIMER'S DISEASE AMONG ARIZONA RESIDENTS, 2008-2018

by

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May 2020

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MORTALITY FROM ALZHEIMER'S DISEASE AMONG ARIZONA RESIDENTS, 2008-2018

Table of Contents

PURPOSE	1
METHODS AND SOURCES	1
KEY FINDINGS	3
DATA TABLES	11

List of Figures

Figure 1	3
ALZHEIMER'S DISEASE AMONG THE LEADING CAUSES OF DEATH, ARIZONA, 2018	
Figure 2	3
TRENDS IN AGE-ADJUSTED MORTALITY RATES FOR ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH BY YEAR, ARIZONA, 2008-2018	
Figure 3	4
AGE-ADJUSTED MORTALITY RATES FOR ALZHEIMER'S DISEASE BY GENDER AND YEAR, ARIZONA, 2008-2018	
Figure 4	4
AGE-ADJUSTED MORTALITY RATES FOR ALZHEIMER'S DISEASE BY GENDER AND RACE/ETHNIC GROUP, ARIZONA, 2018	
Figure 5	5
AGE-SPECIFIC MORTALITY RATES FOR ALZHEIMER'S DISEASE AMONG ARIZONANS AGED 55 YEARS AND OLDER, 2018	
Figure 6	5
MORTALITY AND MORTALITY RATES FOR ALZHEIMER'S DISEASE AMONG ARIZONA ELDERLY RESIDENTS 65 YEARS AND OLDER, 2008-2018	
Figure 7	6
MORTALITY RATES FOR ALZHEIMER'S DISEASE BY GENDER AND YEAR AMONG ARIZONA ELDERLY RESIDENTS 65 YEARS AND OLDER, 2008-2018	
Figure 8	6
MORTALITY RATES FOR ALZHEIMER'S DISEASE BY GENDER AND YEAR AMONG ARIZONANS 75-84 YEARS OLD, 2008-2018	
Figure 9	7
MORTALITY RATES FOR ALZHEIMER'S DISEASE BY GENDER AND YEAR AMONG ARIZONANS 85 YEARS OLD AND OLDER, 2008-2018	
Figure 10	7
AVERAGE AGE AT DEATH FOR SELECTED LEADING CAUSES OF DEATH, ARIZONA, 2018	
Figure 11	8
PERCENT OF ELDERLY 65+ BY RACE/ETHNICITY AND PROPORTIONAL CONTRIBUTION TO MORTALITY FROM ALZHEIMER'S DISEASE, ARIZONA, 2018	
Figure 12	8
AGE-ADJUSTED MORTALITY RATES FOR ALZHEIMER'S DISEASE BY GENDER IN URBAN AND RURAL AREAS ARIZONA, 2018	
Figure 13	9
AGE-ADJUSTED MORTALITY RATES FOR ALZHEIMER'S DISEASE BY COUNTY OF RESIDENCE ARIZONA, 2018	

List of Tables

Table 1	13
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF MORTALITY BY YEAR, ARIZONA, 2008-2018	
Table 2	14
AGE-ADJUSTED MORTALITY RATES FOR ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH, ARIZONA, 2008-2018	
Table 3	15
AGE-ADJUSTED MORTALITY RATES FOR ALZHEIMER'S DISEASE BY GENDER AND YEAR, ARIZONA, 2008-2018	
Table 4	15
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY GENDER AND YEAR, ARIZONA, 2008-2018	
Table 5	16
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY RACE/ETHNICITY AND GENDER, ARIZONA, 2008-2018	
Table 6	17
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY URBAN/RURAL AREA AND GENDER, ARIZONA, 2008, 2010, AND 2018	
Table 7	18
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 2008-2018	
Table 8	19
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY AGE GROUP AND GENDER, ARIZONA, 2008, 2010, AND 2018	
Table 9	20
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65 YEARS AND OLDER, BY YEAR, ARIZONA, 2008-2018	
Table 10	21
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY MALES 65 YEARS AND OLDER, BY YEAR, ARIZONA, 2008-2018	
Table 11	21
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY FEMALES 65 YEARS AND OLDER, BY YEAR, ARIZONA, 2008-2018	
Table 12	22
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65 YEARS AND OLDER, BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2018	
Table 13	23
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65-74 YEARS OLD, BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2018	
Table 14	24
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 75-84 YEARS OLD, BY GENDER, AREA AND RACE/ETHNICITY, ARIZONA, 2018	
Table 15	25
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 85 YEARS AND OLDER, BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2018	
Table 16	26
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER, BY GENDER, AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2008, 2010, AND 2018	
Table 17	28
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER, BY GENDER, AGE GROUP, AND COUNTY OF RESIDENCE, ARIZONA, 2008, 2010, AND 2018	

PURPOSE

In 2000, Alzheimer's disease was the 7th leading cause of death for all ages, a ranking that changed since then, as the disease was 5th leading cause of death in 2018. 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 2018 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/).

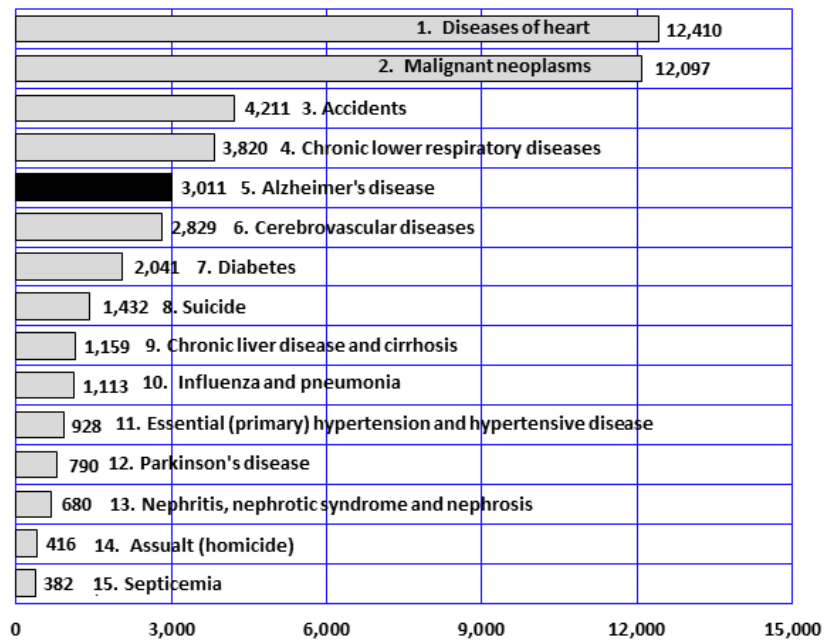
Beginning with the 2000 data year, two major changes have occurred in Arizona, affecting the computation of mortality rates, tabulation of leading causes of death and analyses of mortality data over time. First, a new revision of the International Classification of Diseases (ICD), used to classify causes 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 2000-2018 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.

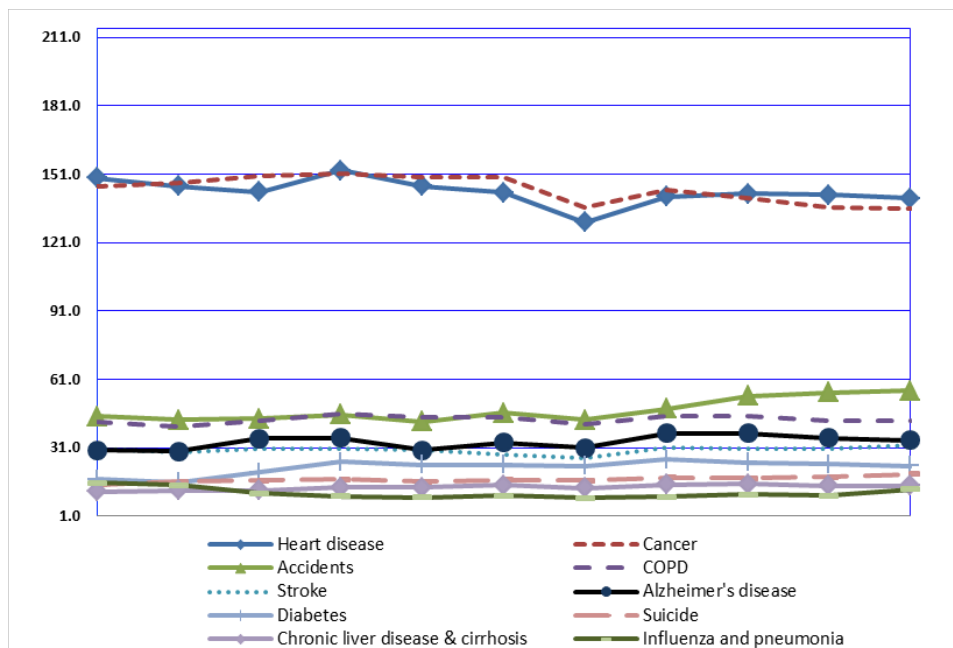
This report includes tables where small cells and related totals are suppressed. Using suppression rules similar to those used by the National Center for Health Statistics (NCHS), this report now attempts to maintain the anonymity of the individuals whose vital records are summarized herein. In cell 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, 2018



In 2018, Alzheimer's disease was the 5th leading cause of death for all ages, accounting for a total number of 3,011 deaths in Arizona (**Figure 1**). More Arizonans died in 2018 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, 2008-2018



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, 4) decreases in several other leading causes of death (homicide, diabetes, suicide, atherosclerosis).

Figure 3
Age-Adjusted Mortality Rates for Alzheimer's Disease
by Gender and Year, Arizona, 2008-2018

The age-adjusted mortality rate for Alzheimer's disease increased by 15.1 percent from 29.8/100,000 in 2008 to 34.3/100,000 in 2018 (**Figure 3**). Among males, the age-adjusted mortality rate for Alzheimer's disease increased by 11.7 percent during that time.

In 2008, the risk that a female will die from Alzheimer's was 40.6 percent greater than the male mortality risk. In 2018, however, the female-to-male mortality ratio has increased to 48.7 percent.

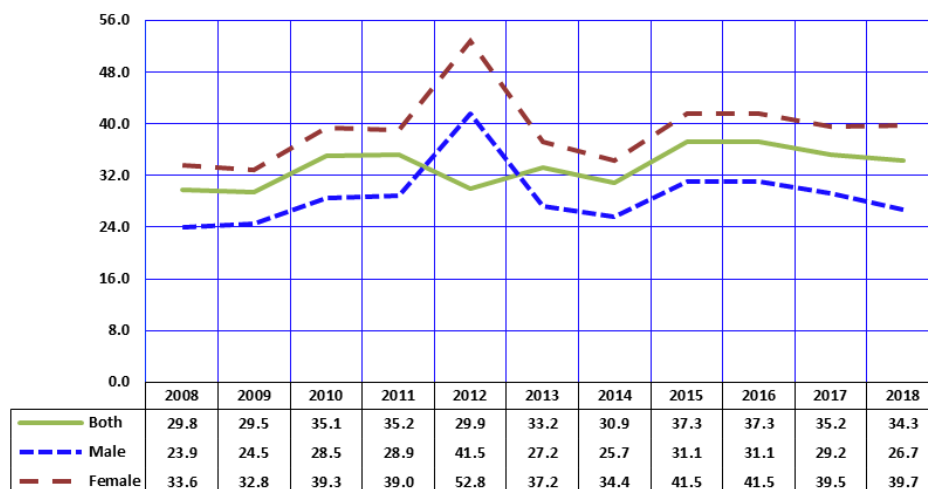


Figure 4
Age-Adjusted Mortality Rates for Alzheimer's Disease
by Gender and Race/Ethnic Group, Arizona, 2018

The 2018 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 Hispanics had the highest death rates for Alzheimer's disease among males.

White non-Hispanic females accounted for 1,703 deaths from Alzheimer's disease (or 85 percent of all Alzheimer's deaths among Arizona females), while White non-Hispanic males accounted for 845 deaths (or 83.7 percent of all Alzheimer's deaths).

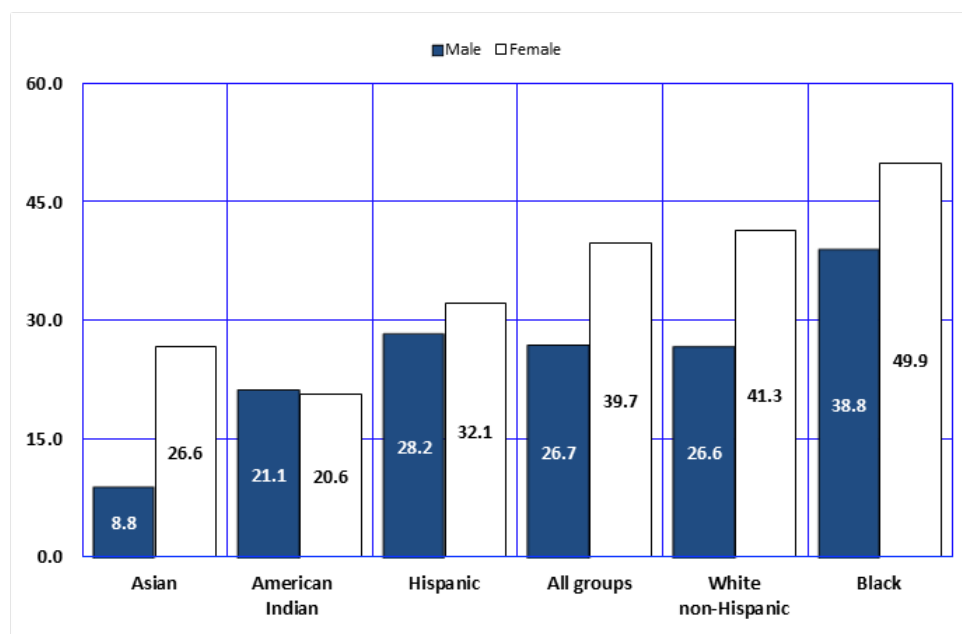
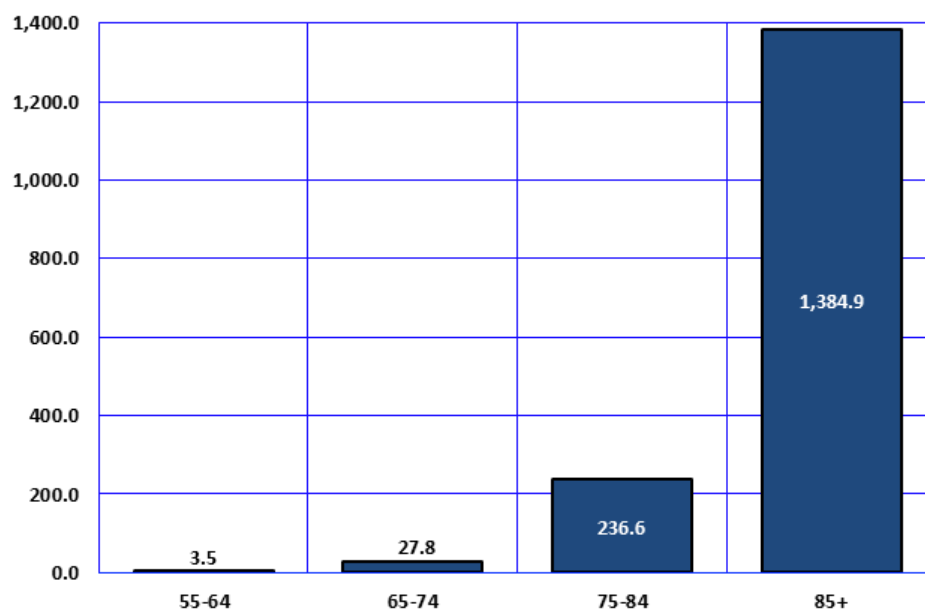
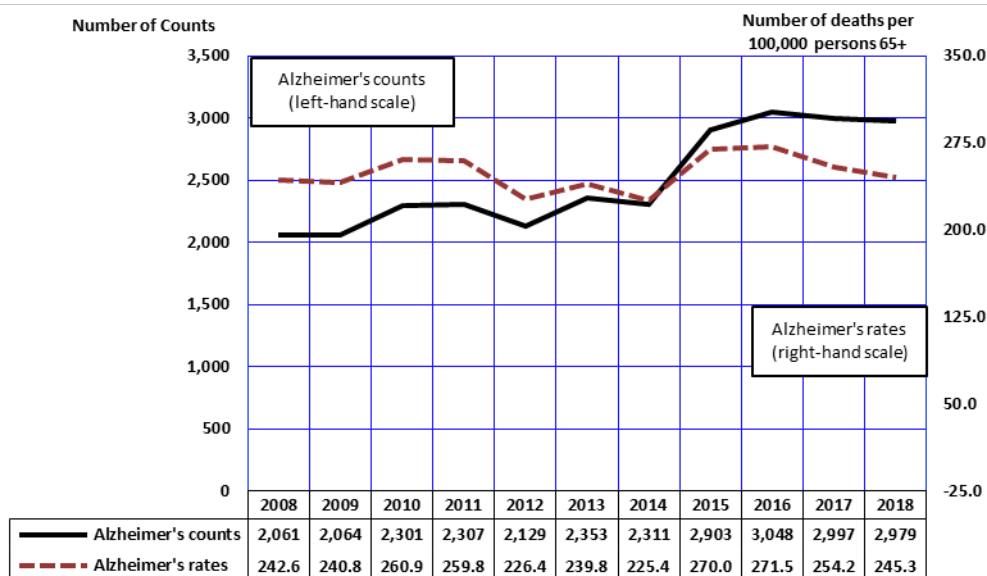


Figure 5
Age-Specific Mortality Rates for Alzheimer's Disease
among Arizonans Aged 55 Years and Older, 2018



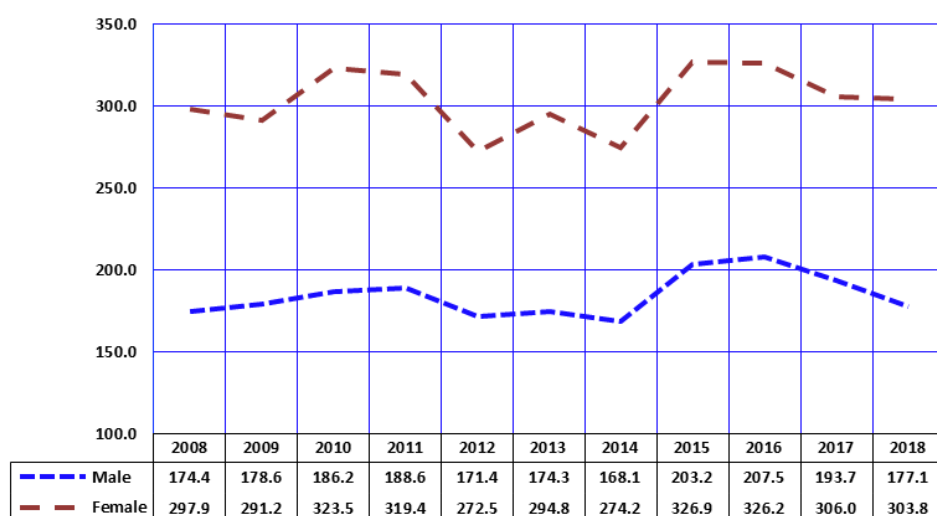
Risk of death from Alzheimer's disease increases sharply with age (**Figure 5**). In 2000, nine out of every ten deaths from Alzheimer's disease were to persons aged 75 years and older. Similarly in 2018, the risk of death from Alzheimer's was greater for Arizonans aged 75 years or older.

Figure 6
Mortality and Mortality Rates for Alzheimer's Disease among
Arizona Elderly Residents 65 Years and Older, 2008-2018



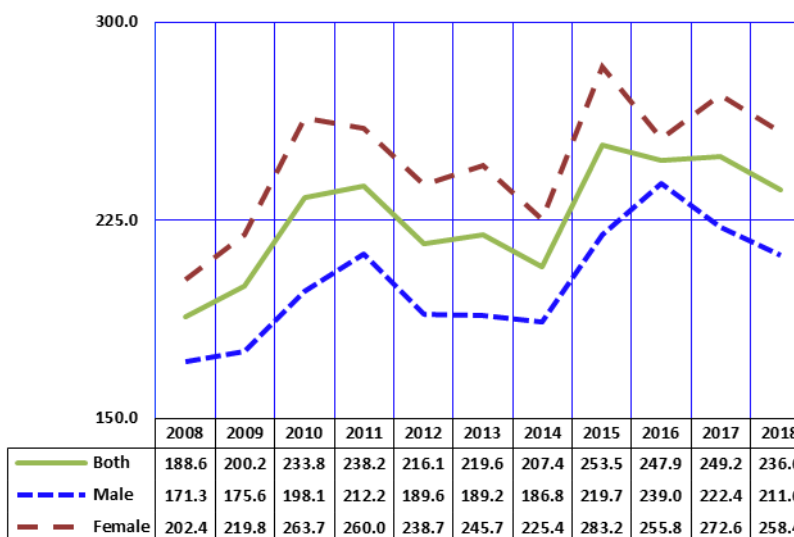
The number of Alzheimer's deaths has increased from 2008 to 2018, in part due to a growing population of older adults. Mortality rate from Alzheimer's disease follows the same trajectory, marked by a 1.1 percent increase from 2008 to 2018 (**Figure 6**).

Figure 7
Mortality Rates for Alzheimer's Disease by Gender and Year
among Arizona Elderly Residents 65 Years and Older,
2008-2018



The death rate for Alzheimer's disease, the third leading cause of elderly female mortality in Arizona in 2018, almost doubled from 297.9/100,000 in 2008 to 303.8/100,000 in 2018 (**Figure 7**). For elderly males, the mortality rate for Alzheimer's disease, their fifth leading cause of death, increased by 1.5 percent from 174.4/100,000 in 2008 to 177.1/100,000 in 2018. In 2008, the Alzheimer's disease mortality risk of elderly females compared to males was 70.8 percent greater, while in 2018 the risk was 71.5 percent greater.

Figure 8
Mortality Rates for Alzheimer's Disease by Gender and Year
among Arizonans 75-84 Years Old, 2008-2018



Mortality rates for Alzheimer's disease among Arizonans 75-84 years old were higher among females than males from 2008 to 2018 (**Figure 8**). In 2008, the Alzheimer's disease mortality risk of elderly females compared to males in this age group was 18.2 percent greater (202.4 deaths per 100,000 females vs. 171.3 deaths per 100,000 males). In 2018, the female-to-male difference was 22.1 percent, a ratio greater than that of 2010.

Figure 9
Mortality Rates for Alzheimer's Disease by Gender and Year
among Arizonans 85 Years and Older, 2008-2018

Among Arizonans 85 years and older, the mortality rates for Alzheimer's disease among females exceeded the male rates in every year from 2008 to 2018 (**Figure 9**). In 2008, the *Alzheimer's disease* mortality risk of elderly females compared to males in this age group was 52.6 percent greater, while in 2018 the risk was 70.1 percent greater.

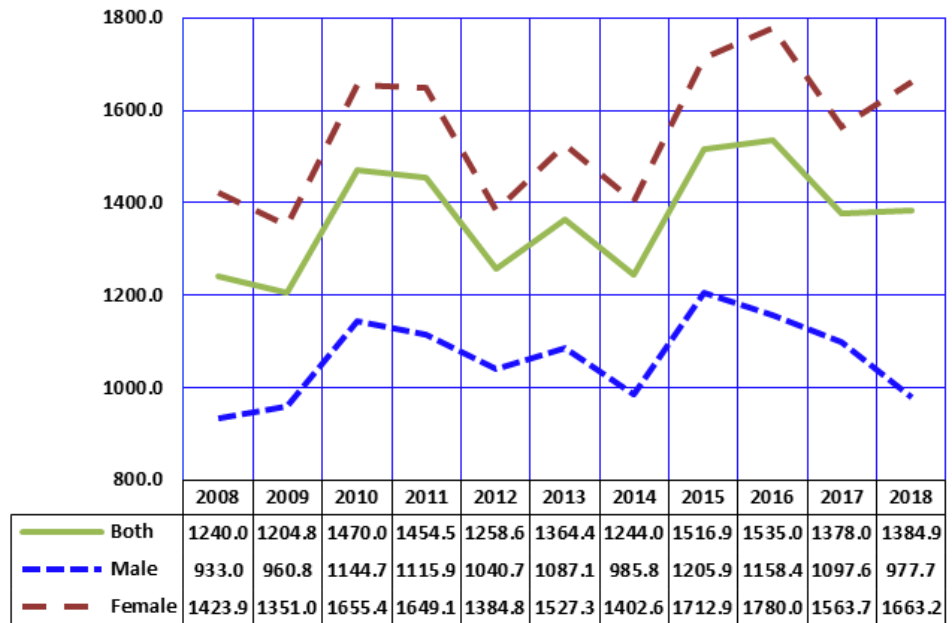


Figure 10
Average Age at Death for Selected Leading Causes
of Death, Arizona, 2018

In 2018, Alzheimer's disease had the highest average age at death of 87.0 years, exceeding the average age at death for all causes by 14.4 years (**Figure 10**). Only 14.8 percent of deaths from Alzheimer's disease occurred before the age of 78.8 years, i.e., before the expected years of life were reached.

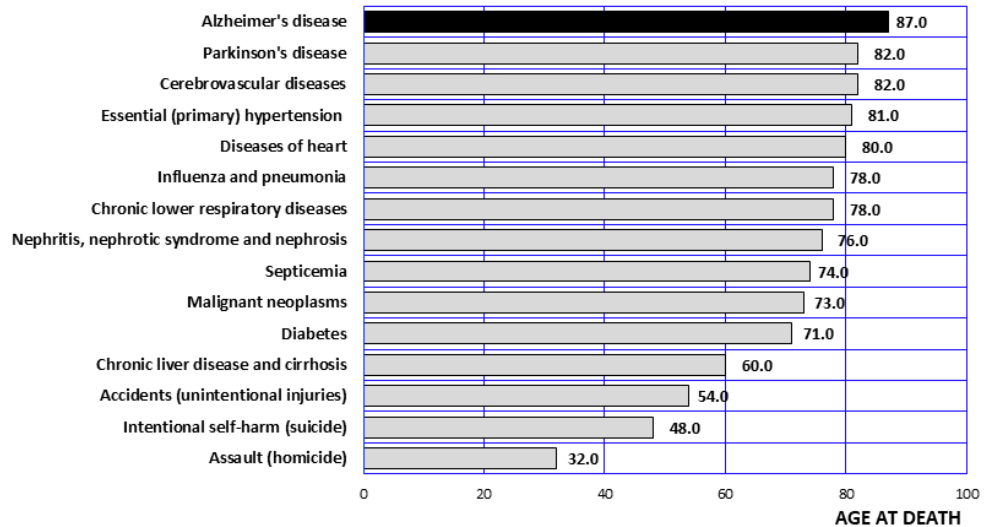
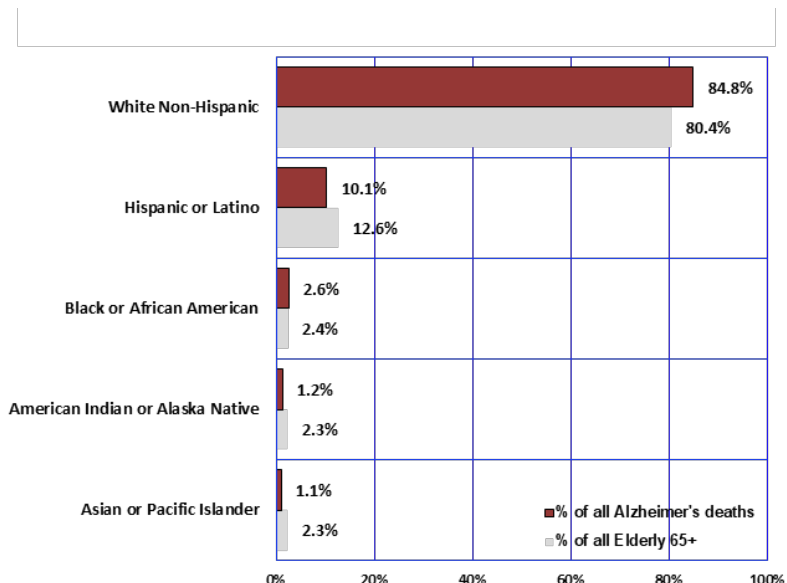


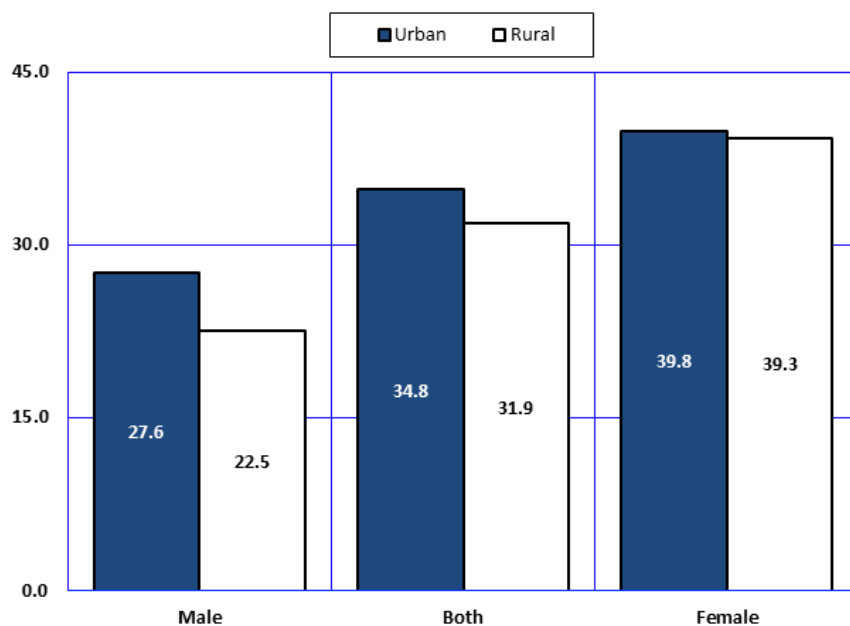
Figure 11
Percent of Elderly 65+ by Race/Ethnicity and Proportional
Contribution to Mortality from Alzheimer's Disease,
Arizona, 2018



White non-Hispanic elderly residents of Arizona disproportionately contributed to total mortality from Alzheimer's disease. In 2018, White non-Hispanics accounted for 80.4 percent of all elderly 65 years and older, but 84.8 percent of all deaths from Alzheimer's disease (**Figure 11**).

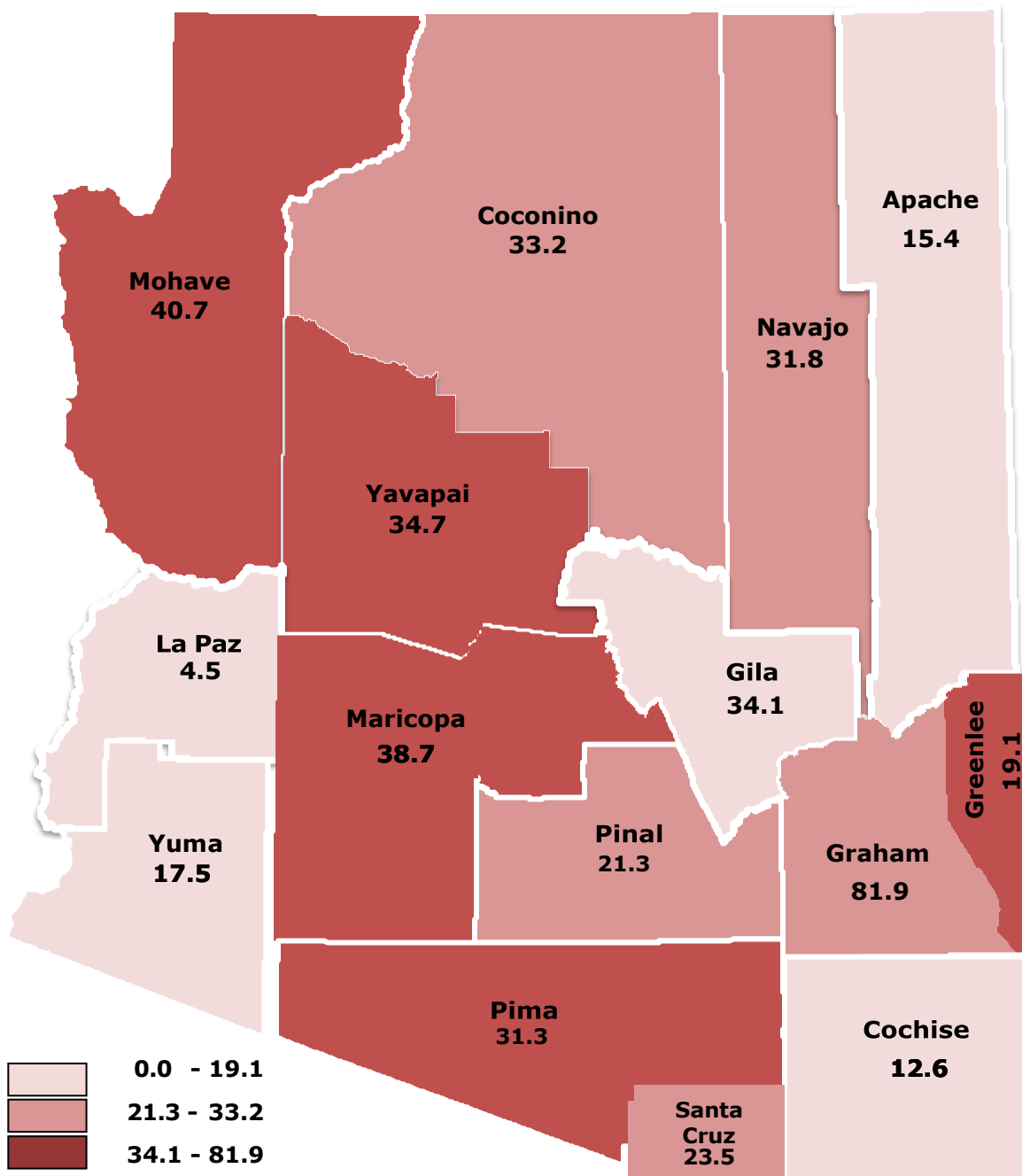
White non-Hispanic residents of the state may be at higher risk for Alzheimer's disease because they live longer than the other race/ethnic groups. In 2018, White non-Hispanics were the only group with about 50 percent of all deaths occurring before the expected years of life were reached. The 2018 premature death ratio was 43.2 percent for White non-Hispanic females and 57.4 percent for White non-Hispanic males.

Figure 12
Age-Adjusted Mortality Rates for Alzheimer's Disease
by Gender in Urban and Rural Areas, Arizona, 2018



In 2018, the mortality rate for Alzheimer's disease was 9.1 percent higher for urban (34.8/100,000) than rural (31.9/100,000) residents of the State (**Figure 12**). The mortality disadvantage of the urban compared to rural residents was particularly pronounced among males. The 2018 rate of the urban males was 22.7 percent greater than the rate of the rural males (27.6/100,000 vs. 22.5/100,000).

Figure 13
Age-Adjusted Mortality Rates* for Alzheimer's
Disease by County of Residence, Arizona, 2018



Source: Population Health and Vital Statistics, ADHS
 *Per 100,000 population age-adjusted to the 2000 U.S. standard.

In 2018, mortality from Alzheimer's disease among the fifteen Arizona counties ranged from a rate of 4.5 deaths per 100,000 persons in La Paz County to a rate of 34.7 deaths per 100,000 persons in Yavapai County (Figure 13). Maricopa and Yavapai counties, which accounted for approximately half of the total population of the State, made a substantially higher contribution to mortality from Alzheimer's disease (1,983 out of 3,011 deaths, or 65.9 percent of all deaths from Alzheimer's disease). These two counties accounted for 59.9 percent of all Arizonans 85 years and older in the state: the age group with the highest risk of death from Alzheimer's disease.

MORTALITY FROM ALZHEIMER'S DISEASE AMONG ARIZONA RESIDENTS, 2008-2018

DATA TABLES

TABLE 1
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF MORTALITY BY YEAR, ARIZONA, 2008-2018

Cause of death	Rank (count) in 2008	Rank (count) in 2009	Rank (count) in 2010	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
Diseases of heart	1 (10,299)	1 (10,151)	2 (9,719)	2 (10,424)	2 (10,366)	2 (10,497)	2 (9,953)	2 (11,274)	1 (11,820)	1 (12,285)	1 (12,410)
Malignant neoplasms	2 (9,949)	2 (10,147)	1 (10,423)	1 (10,543)	1 (10,871)	1 (11,193)	1 (10,600)	1 (11,624)	2 (11,801)	2 (11,917)	2 (12,097)
Accidents (unintentional injury)	3 (2,951)	3 (2,887)	4 (2,834)	4 (2,959)	4 (2,804)	4 (3,137)	4 (3,011)	4 (3,403)	3 (3,899)	3 (4,085)	3 (4,211)
Chronic lower respiratory diseases	4 (2,896)	4 (2,808)	3 (2,892)	3 (3,143)	3 (3,167)	3 (3,295)	3 (3,185)	3 (3,648)	4 (3,788)	4 (3,779)	4 (3,820)
Alzheimer's disease	6 (2,086)	5 (2,086)	5 (2,314)	5 (2,336)	5 (2,154)	5 (2,384)	5 (2,345)	5 (2,942)	5 (3,081)	5 (3,050)	5 (3,011)
Cerebrovascular diseases	5 (2,089)	6 (2,010)	6 (2,051)	6 (2,067)	6 (2,096)	6 (2,047)	6 (1,995)	6 (2,463)	6 (2,536)	6 (2,647)	6 (2,829)
Diabetes	7 (1,162)	7 (1,078)	7 (1,372)	7 (1,721)	7 (1,698)	7 (1,744)	7 (1,776)	7 (2,050)	7 (2,013)	7 (2,037)	7 (2,041)
Intentional self-harm (suicide)	9 (968)	8 (1,060)	8 (1,070)	8 (1,113)	8 (1,070)	8 (1,116)	8 (1,124)	8 (1,233)	8 (1,256)	8 (1,304)	8 (1,432)
Chronic liver disease and cirrhosis	10 (778)	10 (818)	9 (843)	9 (933)	9 (971)	9 (1,040)	9 (984)	9 (1,120)	9 (1,169)	9 (1,122)	9 (1,159)
Influenza and pneumonia	8 (1,075)	9 (1,007)	10 (729)	11 (649)	11 (635)	10 (724)	11 (669)	11 (739)	11 (859)	11 (852)	10 (1,113)
Essential primary hypertension/hypertensive renal disease	14 (475)	11 (475)	11 (498)	10 (725)	10 (739)	11 (711)	10 (758)	10 (896)	10 (1,010)	10 (1,018)	11 (928)
ALL CAUSES	45,128	45,065	45,871	47,547	48,459	49,929	51,074	54,152	56,480	57,261	59,206

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, 2008-2018

Cause of death	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Diseases of heart	149.3	145.9	143.3	152.7	145.8	143.0	129.9	141.3	142.5	141.9	140.5
Malignant neoplasms	145.5	147.2	150.5	151.3	149.8	149.6	136.3	144.0	140.7	136.6	135.9
Chronic lower respiratory diseases	42.1	40.5	42.6	45.9	44.2	44.5	41.1	45.1	45.0	43.0	42.6
Cerebrovascular diseases	30.3	28.9	30.7	30.6	29.9	28.2	26.2	31.1	30.7	30.7	32.1
Accidents (unintentional injury)	44.7	43.1	43.8	45.5	42.4	46.3	43.3	48.1	53.7	55.3	55.9
Alzheimer's disease	29.8	29.5	35.1	35.2	29.9	33.2	30.9	37.3	37.3	35.2	34.3
Influenza and pneumonia	15.6	14.6	10.9	9.7	9.1	10.0	8.9	9.4	10.4	9.9	12.7
Diabetes	17.0	15.7	20.1	24.8	23.5	23.6	23.0	25.7	24.5	23.8	23.0
Intentional self-harm (suicide)	14.8	16.1	16.7	17.2	16.2	17.0	16.5	17.8	17.7	18.0	19.5
Chronic liver disease and cirrhosis	11.7	12.2	12.3	13.4	13.6	14.5	13.2	14.9	15.1	14.2	14.2
Total, all causes	659.6	653.2	679.9	699.6	687.2	687.8	676.0	691.3	696.6	679.3	688.6

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, 2008-2018

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total	29.8	29.5	35.1	35.2	29.9	33.2	30.9	37.3	37.3	35.2	34.3
Male	23.9	24.5	28.5	28.9	41.5	27.2	25.7	31.1	31.1	29.2	26.7
Female	33.6	32.8	39.3	39.0	52.8	37.2	34.4	41.5	41.5	39.5	39.7

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, 2008-2018

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total	2,086	2,086	2,314	2,336	2,154	2,384	2,345	2,942	3,081	3,050	3,011
Male	675	697	753	774	748	792	807	1,028	1,084	1,076	1,010
Female	1,411	1,389	1,561	1,562	1,406	1,592	1,538	1,914	1,997	1,974	2,001

TABLE 5
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY RACE/ETHNICITY AND GENDER, ARIZONA, 2008-2018

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
All groups	Total	2,086	2,086	2,314	2,336	2,154	2,384	2,345	2,942	3,081	3,011
	Male	675	697	753	774	748	792	807	1,028	1,084	1,076
	Female	1,411	1,389	1,561	1,562	1,406	1,592	1,538	1,914	1,997	2,001
White non-Hispanic	Total	1,850	1,854	2,013	2,038	1,869	2,042	1,993	2,515	2,617	2,548
	Male	604	627	648	675	658	677	695	878	940	845
	Female	1,246	1,227	1,365	1,363	1,211	1,365	1,298	1,637	1,677	1,703
Hispanic or Latino	Total	154	160	191	182	199	252	253	302	313	305
	Male	47	50	66	57	70	82	81	113	95	113
	Female	107	110	125	125	129	170	172	189	218	192
Black or African American	Total	53	38	49	58	41	47	49	65	72	64
	Male	15	10	19	21	13	15	19	19	23	26
	Female	38	28	30	37	28	32	30	46	49	51
American Indian or Alaska Native	Total	14	18	20	26	20†	25	37	34	44	38
	Male	4	5	7	8	*	11	11	13	14	6
	Female	10	13	13	18	13	14	26	21	30	17
Asian or Pacific Islander	Total	13	13	25	17	30†	18	10†	30†	35	30†
	Male	3	4	7	7	*	7	*	12	*	6
	Female	10	9	18	10	25	11	12	21	23	28
Refused/Unknown	Total	0	0	0	0	0	0	0	0	0	10†
	Male	0	0	0	0	0	0	0	0	0	*
	Female	0	0	0	0	0	0	0	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 6
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY URBAN/RURAL AREA AND GENDER,
ARIZONA, 2008, 2010, AND 2018

		2008	2010	2018
All groups	Total	2,086	2,314	3,011
	Male	675	753	1,010
	Female	1,411	1,561	2,001
Urban	Total	1,789	1,998	2,468
	Male	587	651	831
	Female	1,202	1,346	1,637
Rural	Total	297	314	536
	Male	88	100	174
	Female	209	214	362

TABLE 7
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 2008-2018

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total State	2,086	2,086	2,314	2,336	2,150†	2,380†	2,350†	2,940†	3,080†	3,050	3,010†
Apache	10	5	8	8	*	8	*	13	12	14	11
Cochise	37	34	33	36	27	31	19	42	41	33	25
Coconino	11	13	13	20	11	18	19	22	34	23	35
Gila	40	25	23	24	27	25	30	37	22	17	35
Graham	9	4	2	7	9	*	6	9	10	12	32
Greenlee	1	0	2	0	*	*	*	*	*	6	*
La Paz	1	3	4	3	*	0	*	*	9	7	*
Maricopa	1,459	1,481	1,665	1,732	1,523	1,555	1,467	1,772	1,835	1,796	1,819
Mohave	78	63	85	56	49	42	61	97	116	154	172
Navajo	18	20	15	18	16	19	34	27	27	35	42
Pima	246	246	235	215	290	477	489	537	576	529	480
Pinal	70	66	77	89	71	85	92	160	116	116	110
Santa Cruz	10	10	10	8	13	16	12	10	18	17	15
Yavapai	81	96	119	92	97	80	68	152	200	219	164
Yuma	14	15	21	20	9	22	36	53	55	64	59
Unknown	1	5	2	8	*	*	*	*	8	8	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 8
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY AGE GROUP AND GENDER,
ARIZONA, 2008, 2010, AND 2018

		2008	2010	2018
Total, all ages	Total	2,086	2,313	3,011
	Male	675	752	1,010
	Female	1,411	1,560	2,001
	Unknown	0	1	0
35-44	Total	0	0	0†
	Male	0	0	*
	Female	0	0	0
45-54	Total	4	1	0†
	Male	3	0	0
	Female	1	1	*
55-64	Total	21	12	30
	Male	8	5	17
	Female	13	7	13
65-74	Total	116	124	197
	Male	45	62	81
	Female	71	62	116
75-84	Total	579	656	870
	Male	234	253	363
	Female	345	403	507
85+	Total	1,366	1,520	1,912
	Male	385	432	548
	Female	981	1,087	1,364
	Unknown	0	1	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 9
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65 YEARS AND OLDER, BY YEAR,
ARIZONA, 2008-2018

Cause of death	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total, all causes	32,214	32,098	32,876	34,318	34,958	35,983	37,010	39,480	41,189	42,199	43,572
Diseases of heart	8,218	8,172	7,852	8,407	8,449	8,583	8,130	9,189	9,673	10,171	10,265
Malignant neoplasms	7,071	7,227	7,421	7,513	7,729	8,015	7,715	8,502	8,686	8,850	8,984
Chronic lower respiratory diseases	2,516	2,460	2,558	2,745	2,746	2,868	2,743	3,192	3,286	3,293	3,310
Alzheimer's disease	2,061	2,064	2,301	2,307	2,129	2,353	2,311	2,903	3,048	2,997	2,979
Cerebrovascular disease	1,789	1,736	1,784	1,782	1,774	1,736	1,739	2,127	2,236	2,292	2,456
Accidents (unintentional injury)	1,007	980	1,018	1,070	999	1,146	1,145	1,298	1,463	1,485	1,508
Diabetes	797	744	930	1,193	1,148	1,162	1,188	1,345	1,362	1,411	1,408
Influenza and pneumonia	856	786	585	533	542	608	512	626	670	697	871
Parkinson's disease	477	433	480	526	565	561	558	700	697	737	773
Nephritis, nephrotic syndrome and nephrosis	391	414	407	340	373	328	288	430	403	445	533

TABLE 10
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY MALES 65 YEARS AND OLDER,
BY YEAR, ARIZONA, 2008-2018

Cause of death	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total, all causes	15,589	15,462	15,967	16,517	17,101	17,489	18,292	19,665	20,781	21,144	22,030
Diseases of heart	4,241	4,122	3,988	4,310	4,384	4,511	4,280	4,798	5,187	5,446	5,514
Malignant neoplasms	3,832	3,907	4,048	4,075	4,257	4,294	4,235	4,609	4,798	4,854	5,048
Chronic lower respiratory diseases	1,206	1,166	1,249	1,288	1,372	1,356	1,367	1,527	1,542	1,566	1,573
Cerebrovascular disease	719	702	680	665	710	680	680	905	914	970	1,048
Alzheimer's disease	664	686	748	763	735	781	792	1,005	1,073	1,052	992
Diabetes	411	366	498	626	624	633	655	737	783	795	814
Accidents (unintentional injury)	507	488	506	505	474	563	570	675	779	766	811
Parkinson's disease	295	275	290	310	359	358	336	442	455	470	517
Influenza and pneumonia	406	351	289	262	263	285	252	312	331	339	446
Nephritis, nephrotic syndrome and nephrosis	202	215	207	173	178	157	135	228	204	236	270

TABLE 11
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY FEMALES 65 YEARS AND OLDER,
BY YEAR, ARIZONA, 2008-2018

Cause of death	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total, all causes	16,625	16,636	16,909	17,798	17,855	18,494	18,718	19,815	20,408	21,055	21,542
Diseases of heart	4,037	4,050	3,864	4,096	4,065	4,072	3,850	4,391	4,486	4,725	4,751
Malignant neoplasms	3,241	3,320	3,373	3,437	3,472	3,721	3,480	3,893	3,888	3,996	3,936
Alzheimer's disease	1,397	1,378	1,553	1,544	1,394	1,572	1,519	1,898	1,975	1,945	1,987
Chronic lower respiratory diseases	1,310	1,294	1,309	1,457	1,374	1,512	1,376	1,665	1,744	1,727	1,737
Cerebrovascular disease	1,075	1,034	1,104	1,117	1,064	1,056	1,059	1,222	1,322	1,322	1,408
Accidents (unintentional injury)	519	492	512	565	525	583	575	623	684	719	697
Diabetes	387	378	432	567	524	529	533	608	579	616	594
Influenza and pneumonia	452	435	296	271	279	323	260	314	339	358	425
Nephritis, nephrotic syndrome and nephrosis	190	199	200	167	195	171	153	202	199	209	263
Parkinson's disease	182	158	190	216	206	203	222	258	242	267	256

TABLE 12
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65 YEARS AND OLDER,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2018

Cause of death	Total	Gender		Area		Race/Ethnicity						Other/ Unknown
		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	
Total, all causes	43,572	22,030	21,542	34,397	9,099	76	35,731	4,760	1,110	1,071	627	273
Diseases of heart	10,265	5,514	4,751	7,993	2,255	17	8,592	1,025	242	187	136	83
Malignant neoplasms	8,984	5,048	3,936	6,979	1,989	16	7,441	974	224	155	152	38
Chronic lower respiratory diseases	3,310	1,573	1,737	2,482	820	8	2,984	174	65	33	29	25
Alzheimer's disease	2,979	992	1,987	2,443	529	7	2,525	301	77	35	33	8
Cerebrovascular disease	2,456	1,048	1,408	1,959	491	6	1,956	305	72	60	44	19
Accidents (unintentional injury)	1,508	811	697	1,223	281	*	1,217	160	31	56	27	17
Diabetes	1,408	814	594	1,140	266	*	921	291	66	94	22	14
Influenza and pneumonia	871	446	425	682	187	*	686	107	16	44	15	*
Parkinson's disease	773	517	256	640	133	0	653	76	11	15	15	*
Nephritis, nephrotic syndrome and nephrosis	533	270	263	408	125	0	365	92	34	31	11	0

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, 2018

Cause of death	Total	Gender		Area		Race/Ethnicity						Asian or Pacific Islander	Other/Unknown
		Male	Female	Urban	Rural	Un-known	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native			
Total, all causes	11,521	6,811	4,710	8,842	2,644	35	9,021	1,391	399	387		173	150
Malignant neoplasms	3,456	1,962	1,494	2,674	775	7	2,808	387	105	64		65	27
Diseases of heart	2,315	1,529	786	1,701	608	6	1,807	268	83	73		38	46
Chronic lower respiratory diseases	920+	512	411	696	223	*	819	53	24	8		*	14
Diabetes	566	351	215	458	107	*	361	113	27	48		6	11
Cerebrovascular disease	475	263	212	372	100	*	354	62	23	14		12	10
Accidents (unintentional injury)	460+	317	144	351	106	*	330	65	19	28		*	14
Influenza and pneumonia	210+	107	101	153	54	*	151	27	8	17		*	*
Alzheimer's disease	200+	81	116	160	35	*	168	19	7	0		*	*
Nephritis, nephrotic syndrome and nephrosis	140+	80	60	111	29	0	84	31	9	11		*	0
Parkinson's disease	120+	76	45	104	17	0	103	12	*	*		*	0
Septicemia	80+	41	38	59	20	0	51	20	*	*		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 14
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 75-84 YEARS OLD,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2018

Cause of death	Total	Gender		Area		Race/Ethnicity						Asian or Pacific Islander	Other/Unknown
		Male	Female	Urban	Rural	Un-known	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native			
Total, all causes	14,873	8,053	6,820	11,540	3,309	24	12,157	1,670	366	373	225	82	
Malignant neoplasms	3,445	1,970	1,475	2,607	830	8	2,870	381	73	60	52	9	
Diseases of heart	3,172	1,871	1,301	2,422	746	*	2,633	316	79	60	57	27	
Chronic lower respiratory diseases	1,362	645	717	1,003	356	*	1,246	62	22	10	14	8	
Alzheimer's disease	870	363	507	713	154	*	723	87	32	13	12	*	
Cerebrovascular disease	847	397	450	678	168	*	657	119	30	19	16	6	
Diabetes	503	298	205	408	94	*	320	112	26	35	9	*	
Accidents (unintentional injury)	430 ⁺	253	181	341	93	0	361	41	*	17	11	*	
Parkinson's disease	337	233	104	272	65	0	273	44	7	6	6	*	
Influenza and pneumonia	290 ⁺	162	131	227	66	0	232	39	*	14	*	*	
Nephritis, nephrotic syndrome and nephrosis	210 ⁺	102	108	162	48	0	139	39	16	14	*	0	
Septicemia	100 ⁺	54	47	86	15	0	72	19	*	6	*	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, 2018

Cause of death	Total	Gender		Area		Race/Ethnicity						Other/ Unknown
		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	
Total, all causes	17,178	7,166	10,012	14,015	3,146	17	14,553	1,699	345	311	229	41
Diseases of heart	4,778	2,114	2,664	3,870	901	7	4,152	441	80	54	41	10
Malignant neoplasms	2,083	1,116	967	1,698	384	*	1,763	206	46	31	35	*
Alzheimer's disease	1,912	548	1,364	1,570	340	*	1,634	195	38	22	19	*
Cerebrovascular disease	1,134	388	746	909	223	*	945	124	19	27	16	*
Chronic lower respiratory diseases	1,025	416	609	783	241	*	919	59	19	15	10	*
Accidents (unintentional injury)	613	241	372	531	82	0	526	54	10	11	11	*
Influenza and pneumonia	370 [†]	177	193	302	67	*	303	41	*	13	7	*
Diabetes	339	165	174	274	65	0	240	66	13	11	7	*
Parkinson's disease	320 [†]	208	107	264	51	0	277	20	*	8	*	*
Nephritis, nephrotic syndrome and nephrosis	180 [†]	88	95	135	48	0	142	22	9	6	*	0
Septicemia	90 [†]	36	49	61	23	*	74	8	*	*	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, 2008, 2010, AND 2018

		Age group	2008	2010	2018
ALL GROUPS	Total	65-74	432,451	497,892	708,474
		75-84	307,069	280,539	367,723
		85+	110,157	103,400	138,064
		All 65+	849,677	881,831	1,214,261
	Male	65-74	202,828	236,227	332,612
	Female	75-84	136,590	127,730	171,534
		85+	41,263	37,738	56,052
		All 65+	380,681	401,695	560,198
		65-74	229,623	261,665	375,862
		75-84	170,479	152,809	196,189
WHITE NON-HISPANIC	Total	85+	68,894	65,662	82,012
		All 65+	468,996	480,136	654,063
		65-74	349,315	403,963	558,540
		75-84	259,483	235,652	302,374
		85+	96,716	90,230	115,096
	Male	All 65+	705,514	729,845	976,010
		65-74	164,444	193,910	264,715
		75-84	115,088	108,901	143,666
		85+	36,356	33,046	47,435
		All 65+	315,888	335,857	455,816
	Female	65-74	184,871	210,053	293,825
		75-84	144,395	126,751	158,708
		85+	60,360	57,184	67,661
		All 65+	389,626	393,988	520,194
		65-74	51,883	57,479	95,839
HISPANIC	Total	75-84	29,899	28,486	41,738
		85+	8,327	8,316	15,377
		All 65+	90,109	94,281	152,954
		65-74	23,847	26,026	44,417
		75-84	13,045	12,039	18,017
	Male	85+	3,075	3,032	5,890
		All 65+	39,967	41,097	68,324
		65-74	28,036	31,453	51,422
		75-84	16,854	16,447	23,721
		85+	5,252	5,284	9,487
	Female	All 65+	50,142	53,184	84,630

TABLE 16 (continued)
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND RACE/ETHNICITY,
ARIZONA, 2008, 2010, AND 2018

	Age group	2008	2010	2018
BLACK	Total	10,601	10,949	19,044
	65-74			19,044
	75-84	7,569	4,899	7,692
	85+	1,715	1,474	2,452
	All 65+	19,885	17,322	29,188
Male	65-74	5,539	5,196	8,974
	75-84	4,246	2,097	3,358
	85+	641	455	869
	All 65+	10,426	7,748	13,201
Female	65-74	5,062	5,753	10,070
	75-84	3,323	2,802	4,334
	85+	1,074	1,019	1,583
	All 65+	9,459	9,574	15,987
AMERICAN INDIAN	Total	13,107	12,371	17,450
	65-74			17,450
	75-84	6,563	5,790	8,067
	85+	2,405	1,851	2,662
	All 65+	22,075	20,012	28,179
Male	65-74	5,803	5,426	7,701
	75-84	2,816	2,358	3,239
	85+	826	663	973
	All 65+	9,445	8,447	11,913
Female	65-74	7,304	6,945	9,749
	75-84	3,747	3,432	4,828
	85+	1,579	1,188	1,689
	All 65+	12,630	11,565	16,266
ASIAN	Total	7,545	9,445	17,601
	65-74			17,601
	75-84	3,555	4,129	7,852
	85+	994	1,032	2,477
	All 65+	12,094	14,606	27,930
Male	65-74	3,195	3,943	6,805
	75-84	1,395	1,616	3,254
	85+	365	363	885
	All 65+	4,955	5,922	10,944
Female	65-74	4,350	5,502	10,796
	75-84	2,160	2,513	4,598
	85+	629	669	1,592
	All 65+	7,139	8,684	16,986

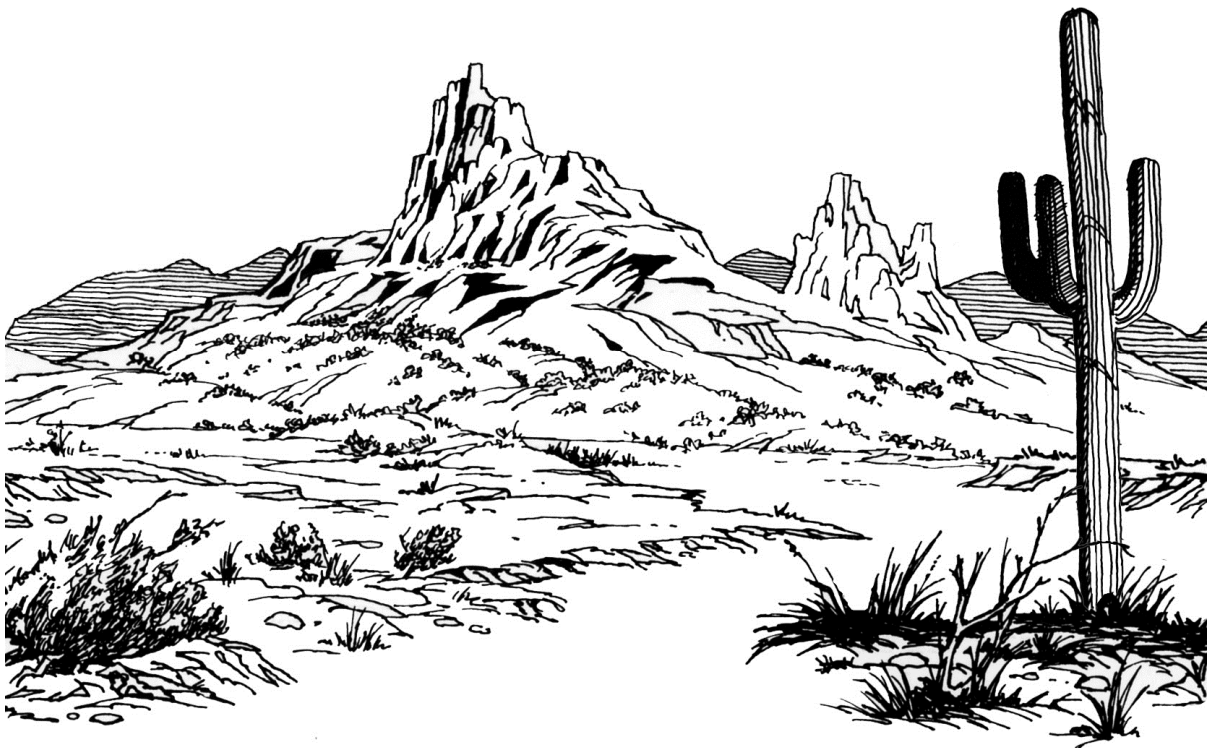
TABLE 17
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND COUNTY OF RESIDENCE,
ARIZONA, 2008, 2010 AND 2018

	Age group	2008			2010			2018		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
ARIZONA	65-74	202,828	229,623	432,451	236,227	261,665	497,892	332,612	375,862	708,474
	75-84	136,590	170,479	307,069	127,730	152,809	280,539	171,534	196,189	367,723
	85+	41,263	68,894	110,157	37,738	65,662	103,400	56,052	82,012	138,064
	Total	380,681	468,996	849,677	401,695	480,136	881,831	560,198	654,063	1,214,261
APACHE	65-74	2,255	2,530	4,785	2,489	2,687	5,176	3,078	3,407	6,485
	75-84	984	1,225	2,209	1,037	1,287	2,324	1,500	1,843	3,343
	85+	315	539	854	294	474	768	422	653	1,075
	Total	3,554	4,294	7,848	3,820	4,448	8,268	5,000	5,903	10,903
COCHISE	65-74	5,996	6,480	12,476	6,532	6,758	13,290	8,056	8,493	16,549
	75-84	3,711	4,146	7,857	3,429	3,643	7,072	4,377	4,660	9,037
	85+	1,099	1,614	2,713	901	1,425	2,326	1,323	1,707	3,030
	Total	10,806	12,240	23,046	10,862	11,826	22,688	13,756	14,860	28,616
COCONINO	65-74	3,232	3,364	6,596	3,653	3,794	7,447	5,625	5,670	11,295
	75-84	1,361	1,630	2,991	1,512	1,873	3,385	2,175	2,566	4,741
	85+	350	648	998	369	723	1,092	620	923	1,543
	Total	4,943	5,642	10,585	5,534	6,390	11,924	8,420	9,159	17,579
GILA	65-74	2,971	3,240	6,211	3,618	3,637	7,255	4,449	4,568	9,017
	75-84	1,918	2,363	4,281	1,907	2,097	4,004	2,426	2,437	4,863
	85+	625	922	1,547	416	775	1,191	645	952	1,597
	Total	5,514	6,525	12,039	5,941	6,509	12,450	7,520	7,957	15,477
GRAHAM	65-74	1,197	1,343	2,540	1,148	1,240	2,388	1,448	1,585	3,033
	75-84	805	976	1,781	661	768	1,429	720	895	1,615
	85+	246	405	651	162	282	444	263	350	613
	Total	2,248	2,724	4,972	1,971	2,290	4,261	2,431	2,830	5,261
GREENLEE	65-74	250	253	503	264	263	527	397	369	766
	75-84	145	155	300	165	218	383	171	211	382
	85+	42	71	113	34	72	106	72	138	210
	Total	437	479	916	463	553	1,016	640	718	1,358
LA PAZ	65-74	1,606	1,567	3,173	2,199	2,006	4,205	2,101	2,074	4,175
	75-84	1,301	1,250	2,551	1,185	908	2,093	1,895	1,589	3,484
	85+	370	408	778	171	214	385	520	431	951
	Total	3,277	3,225	6,502	3,555	3,128	6,683	4,516	4,094	8,610

TABLE 17 (continued)
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND COUNTY OF RESIDENCE,
ARIZONA, 2008, 2010 AND 2018

	Age group	2008			2010			2018		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
MARICOPA	65-74	105,383	119,456	224,839	118,994	136,394	255,388	172,389	200,417	372,806
	75-84	69,740	90,791	160,531	65,158	83,041	148,199	85,232	102,887	188,119
	85+	21,779	38,621	60,400	20,884	38,170	59,054	29,422	46,106	75,528
	Total	196,902	248,868	445,770	205,036	257,605	462,641	287,043	349,410	636,453
MOHAVE	65-74	10,867	11,741	22,608	14,319	13,990	28,309	18,205	18,209	36,414
	75-84	7,130	7,755	14,885	7,261	7,170	14,431	10,487	10,179	20,666
	85+	1,946	2,758	4,704	1,539	2,379	3,918	2,766	3,306	6,072
	Total	19,943	22,254	42,197	23,119	23,539	46,658	31,458	31,694	63,152
NAVAJO	65-74	3,518	4,008	7,526	4,332	4,535	8,867	5,817	6,274	12,091
	75-84	1,961	2,197	4,158	1,912	2,224	4,136	2,793	3,110	5,903
	85+	509	743	1,252	491	747	1,238	773	1,085	1,858
	Total	5,988	6,948	12,936	6,735	7,506	14,241	9,383	10,469	19,852
PIMA	65-74	32,960	39,000	71,960	38,174	43,618	81,792	52,947	60,814	113,761
	75-84	23,339	31,528	54,867	22,141	27,465	49,606	27,363	32,678	60,041
	85+	7,689	13,509	21,198	7,265	12,630	19,895	9,908	15,122	25,030
	Total	63,988	84,037	148,025	67,580	83,713	151,293	90,218	108,614	198,832
PINAL	65-74	11,346	12,720	24,066	16,421	16,834	33,255	25,696	28,134	53,830
	75-84	7,711	8,222	15,933	7,493	7,596	15,089	13,322	13,184	26,506
	85+	1,708	2,278	3,986	1,512	2,215	3,727	3,281	3,799	7,080
	Total	20,765	23,220	43,985	25,426	26,645	52,071	42,299	45,117	87,416
SANTA CRUZ	65-74	1,388	1,598	2,986	1,743	1,948	3,691	2,508	2,832	5,340
	75-84	856	1,161	2,017	831	1,046	1,877	1,253	1,527	2,780
	85+	238	388	626	230	426	656	397	583	980
	Total	2,482	3,147	5,629	2,804	3,420	6,224	4,158	4,942	9,100
YAVAPAI	65-74	11,571	12,912	24,483	14,019	14,906	28,925	20,206	22,014	42,220
	75-84	8,561	9,838	18,399	7,790	8,206	15,996	10,270	10,693	20,963
	85+	2,458	3,730	6,188	2,229	3,617	5,846	3,105	4,125	7,230
	Total	22,590	26,480	49,070	24,038	26,729	50,767	33,581	36,832	70,413
YUMA	65-74	8,288	9,411	17,699	8,322	9,055	17,377	9,690	11,002	20,692
	75-84	7,067	7,242	14,309	5,248	5,267	10,515	7,550	7,730	15,280
	85+	1,889	2,260	4,149	1,241	1,513	2,754	2,535	2,732	5,267
	Total	17,244	18,913	36,157	14,811	15,835	30,646	19,775	21,464	41,239

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 (accidents, suicides, homicides, legal intervention, 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, mental disorders, asthma, diabetes, influenza and pneumonia, and substance abuse), Community Vital Statistics, Teenage Pregnancy, Differences in Health Status Among Racial/Ethnic Groups, and Health Status Profile of American Indians in Arizona.



ARIZONA DEPARTMENT OF HEALTH SERVICES
Bureau of Public Health Statistics
Population Health and Vital Statistics Section