

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

2010-2020



ARIZONA DEPARTMENT
OF HEALTH SERVICES

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**MORTALITY FROM
ALZHEIMER'S DISEASE
AMONG ARIZONA RESIDENTS,
2010-2020**

by

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February 2023

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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 6th leading cause of death in 2020. 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 2020 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/).

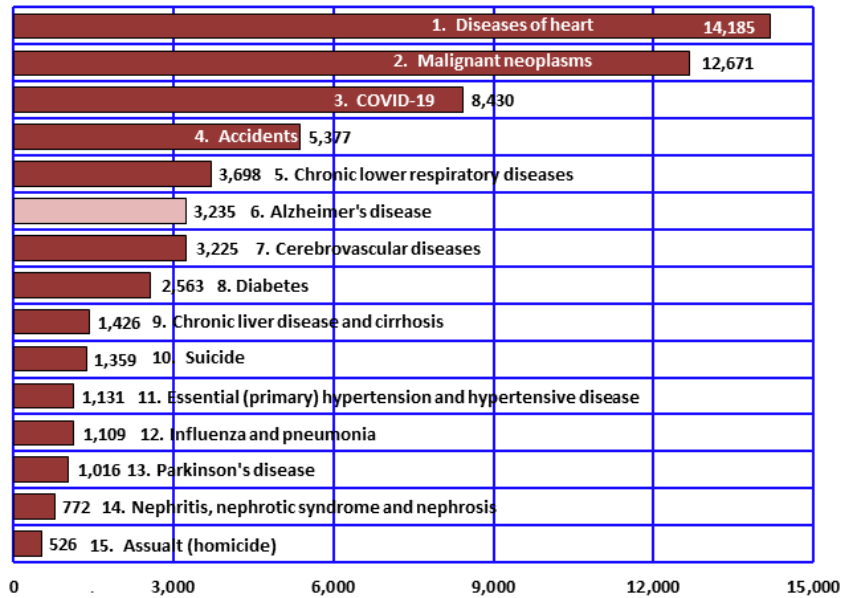
Beginning with the 2000 data year, two major changes have occurred in Arizona, affecting the computation of mortality rates, tabulation of leading causes of death and analyses of mortality data over time. First, a new revision of the International Classification of Diseases (ICD), used to classify causes 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 2000-2020 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.

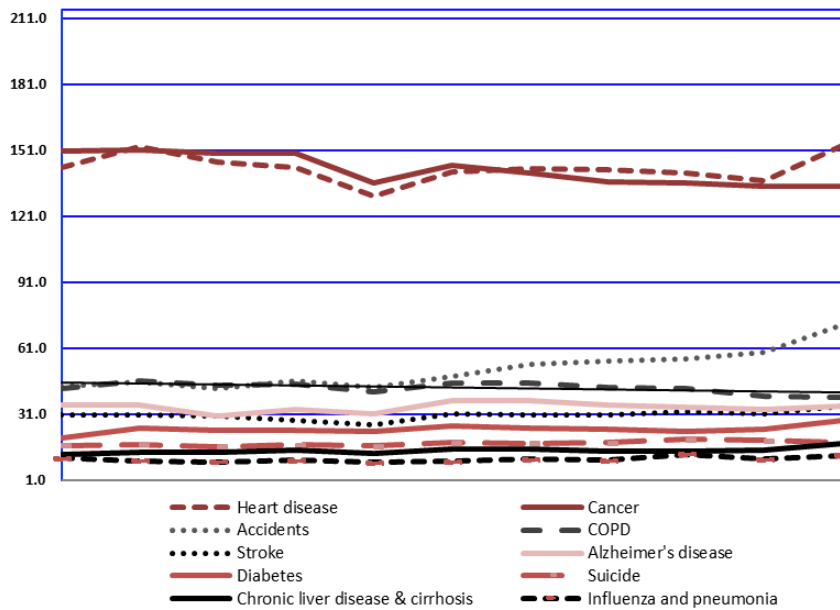
This report includes tables where small cells and related totals are suppressed. Using suppression rules similar to those used by the National Center for Health Statistics (NCHS), this report now attempts to maintain the anonymity of the individuals whose vital records are summarized herein. In cell 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, 2020



In 2020, Alzheimer's disease was the 6th leading cause of death for all ages, accounting for a total number of 3,235 deaths in Arizona (**Figure 1**). More Arizonans died in 2020 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, 2010-2020



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, 2010-2020

The age-adjusted mortality rate for Alzheimer’s disease decreased by 1.1 percent from 35.1/100,000 in 2010 to 34.7/100,000 in 2020 (Figure 3). The increase in age-adjusted mortality rate for Alzheimer’s disease was reflected among females (3.1 percent) and males had a showed decrease (4.9 percent) during that time.

In 2010, the risk that a female would die from Alzheimer’s compared to a male was 37.9 percent greater. In 2020, however, the female-to-male mortality risk has increased to 49.4 percent.

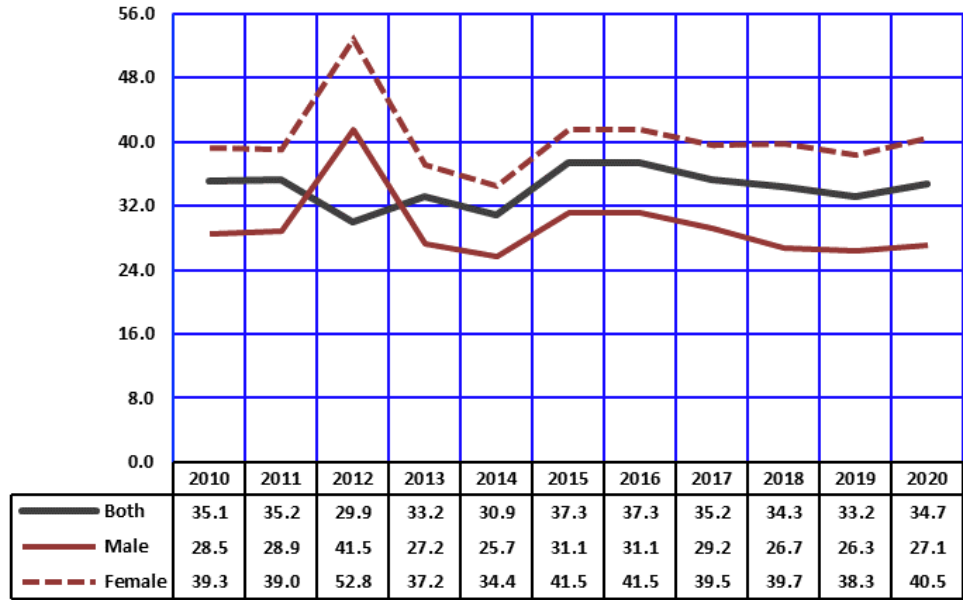


Figure 4
Age-Adjusted Mortality Rates for Alzheimer’s Disease
by Gender and Race/Ethnic Group, Arizona, 2020

The 2020 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 1,729 deaths from Alzheimer’s disease (or 81.1 percent of all Alzheimer’s deaths among Arizona females), while White non-Hispanic males accounted for 921 deaths (or 83.5 percent of all Alzheimer’s deaths).

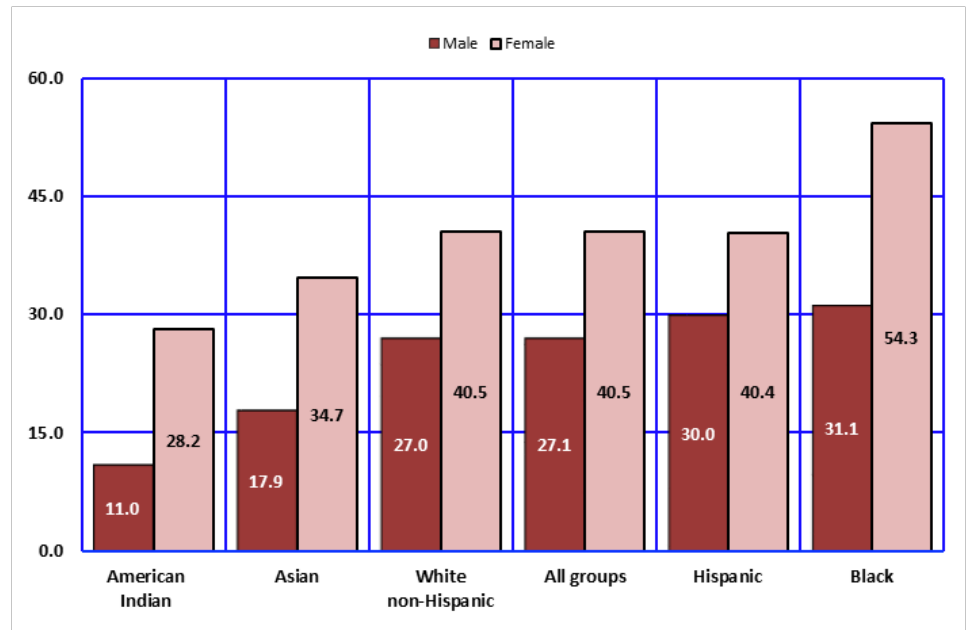
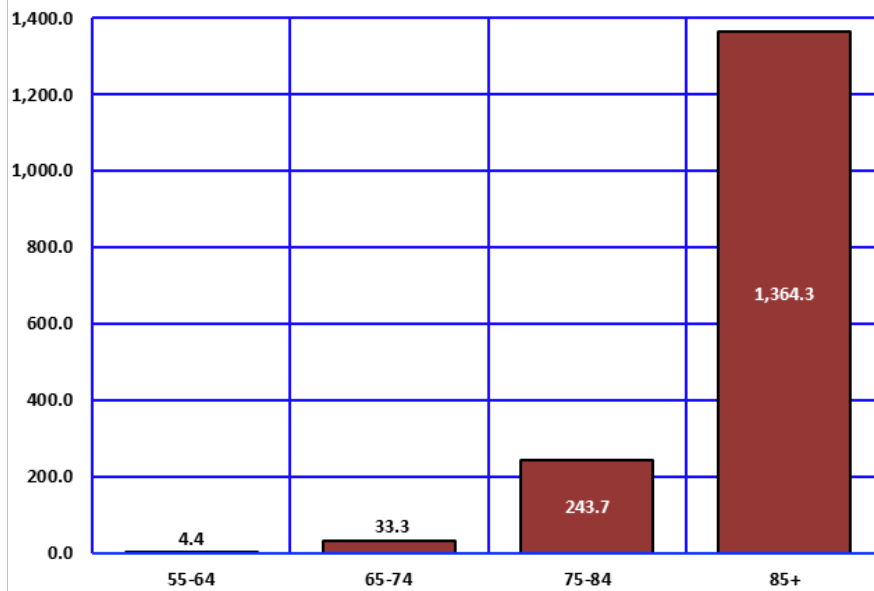
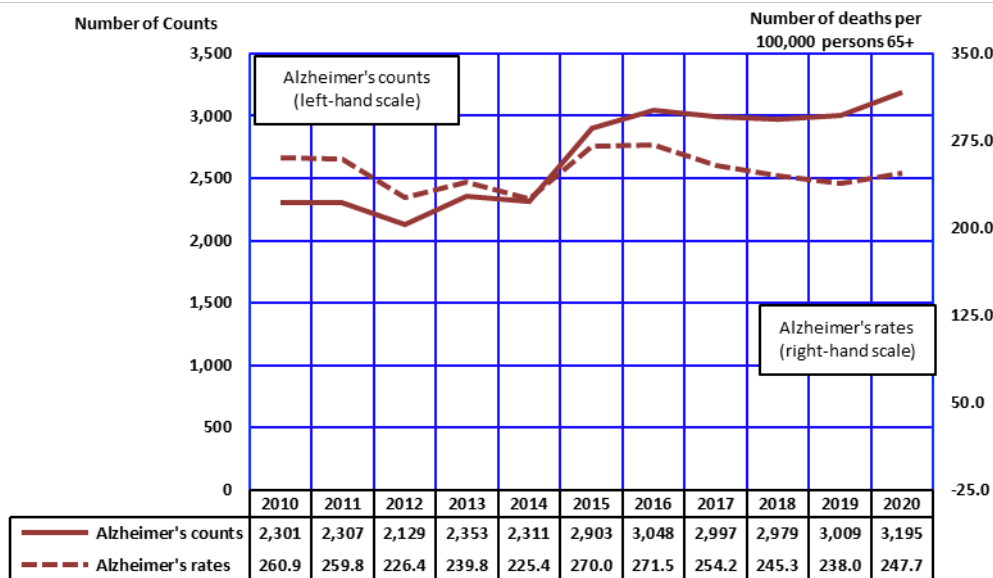


Figure 5
Age-Specific Mortality Rates for Alzheimer's Disease
among Arizonans Aged 55 Years and Older, 2020



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 2020 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, 2010-2020



The number of Alzheimer's deaths has increased from 2010 to 2020, in part due to a growing population of older adults. Mortality rate from Alzheimer's disease does not follow the same trajectory, marked by a 5.1 percent decrease from 2010 to 2020 (**Figure 6**).

Figure 7
Mortality Rates for Alzheimer’s Disease by Gender and Year
among Arizona Elderly Residents 65 Years and Older,
2010-2020

The death rate for Alzheimer’s disease, the fourth leading cause of elderly female mortality in Arizona had a slight decrease from 2010 (323.5/100,000) to 2020 (303.2/100,000; **Figure 7**). For elderly males, the mortality rate for Alzheimer’s disease, the sixth leading cause of death among this group, decreased by 1.9 percent from 186.2/100,000 in 2010 to 182.6/100,000 in 2020. In 2010, the Alzheimer’s disease mortality risk of elderly females compared to males was 73.7 percent greater, while in 2020 the risk was 66.0 percent greater.

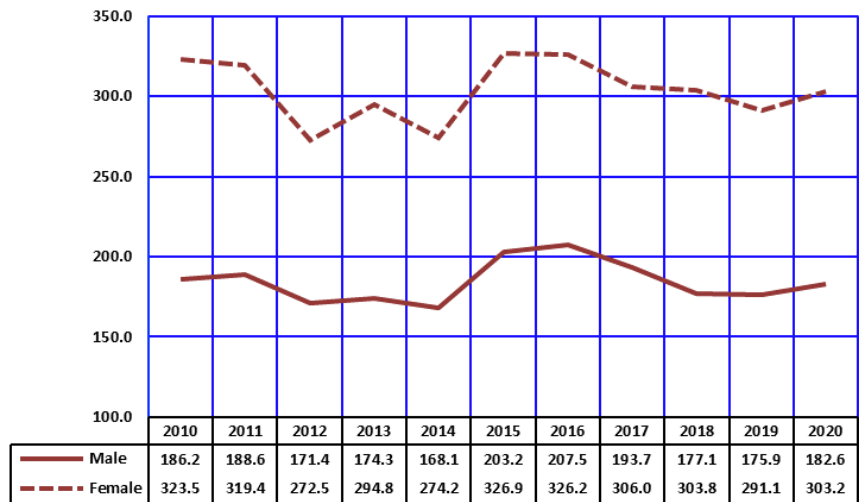


Figure 8
Mortality Rates for Alzheimer’s Disease by Gender and Year
among Arizonans 75-84 Years Old, 2010-2020

Mortality rates for Alzheimer’s disease among Arizonans 75-84 years old were higher among females than males from 2010 to 2020 (**Figure 8**). In 2010, the Alzheimer’s disease mortality risk of elderly females compared to males in this age group was 44.6 percent greater, while in 2020 the risk was 58.8 percent greater.

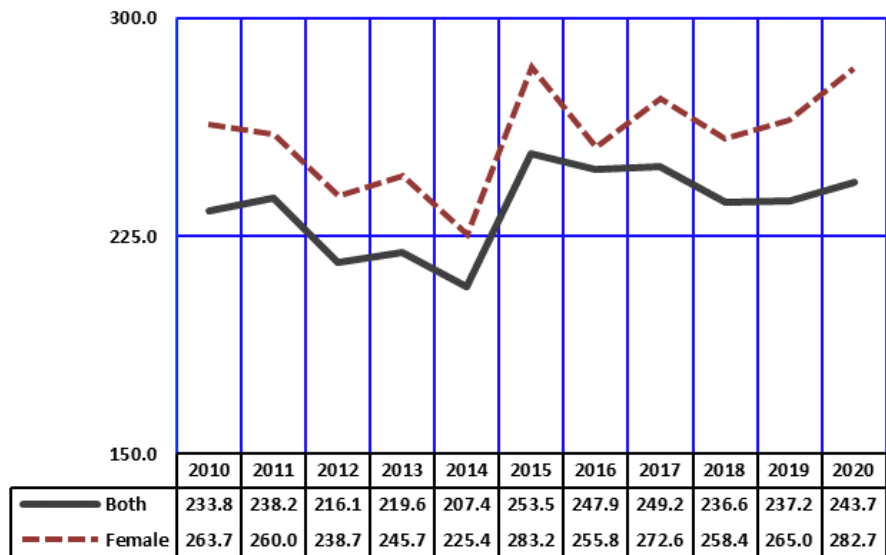
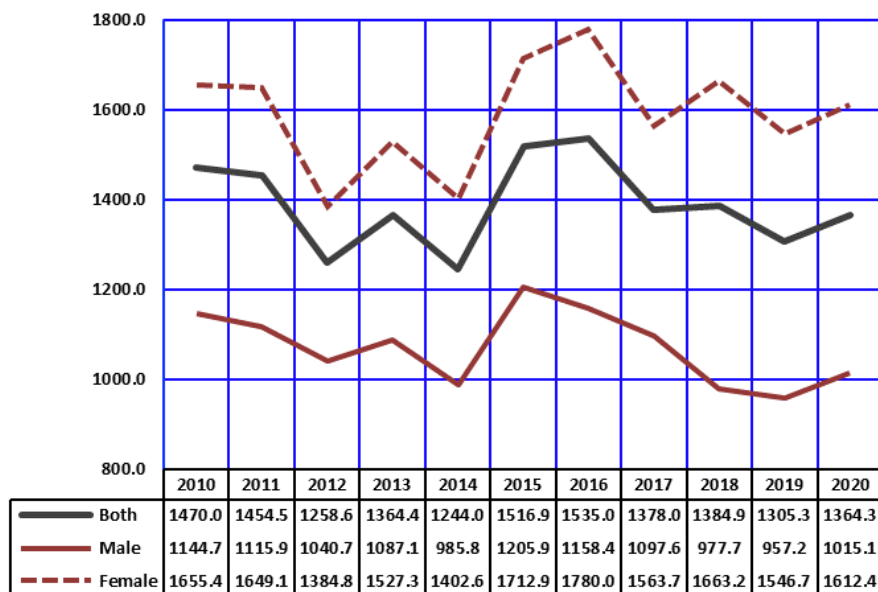
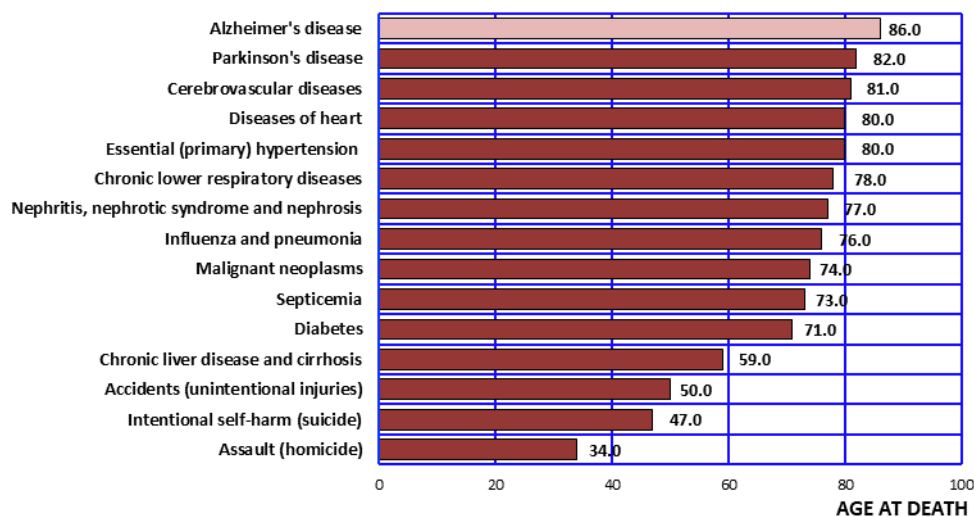


Figure 9
Mortality Rates for Alzheimer's Disease by Gender and Year
among Arizonans 85 Years and Older, 2010-2020



Among Arizonans 85 years and older, the mortality rates for Alzheimer's disease among females exceeded the male rates in every year from 2010 to 2020 (**Figure 9**). In 2010, the *Alzheimer's disease* mortality risk of elderly females compared to males in this age group was 44.6 percent greater, while in 2020 the risk was 55.8 percent greater.

Figure 10
Average Age at Death for Selected Leading Causes
of Death, Arizona, 2020



In 2020, 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 12.4 percent of deaths from Alzheimer's disease occurred before the age of 77 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, 2020

White non-Hispanic elderly residents of Arizona disproportionately contributed to total mortality from Alzheimer’s disease. In 2020, White non-Hispanics accounted for 79.7 percent of all elderly 65 years and older, but 82.1 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 2020, White non-Hispanics were the only group with about 50 percent of all deaths occurring before the expected years of life were reached.

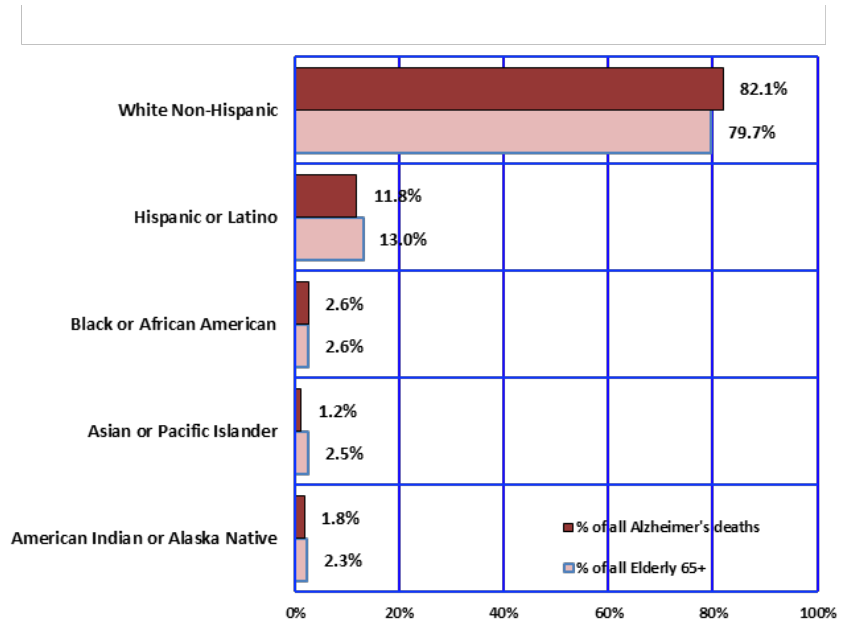


Figure 12
Age-Adjusted Mortality Rates for Alzheimer’s Disease by Gender in Urban and Rural Areas, Arizona, 2020

In 2020, the mortality rate for Alzheimer’s disease was 9.0 percent higher for urban (35.2/100,000) than rural (32.3/100,000) residents of the state (Figure 12). The mortality disadvantage of the urban compared to rural residents was particularly pronounced among males 10.0 percent) than females (5.4 percent).

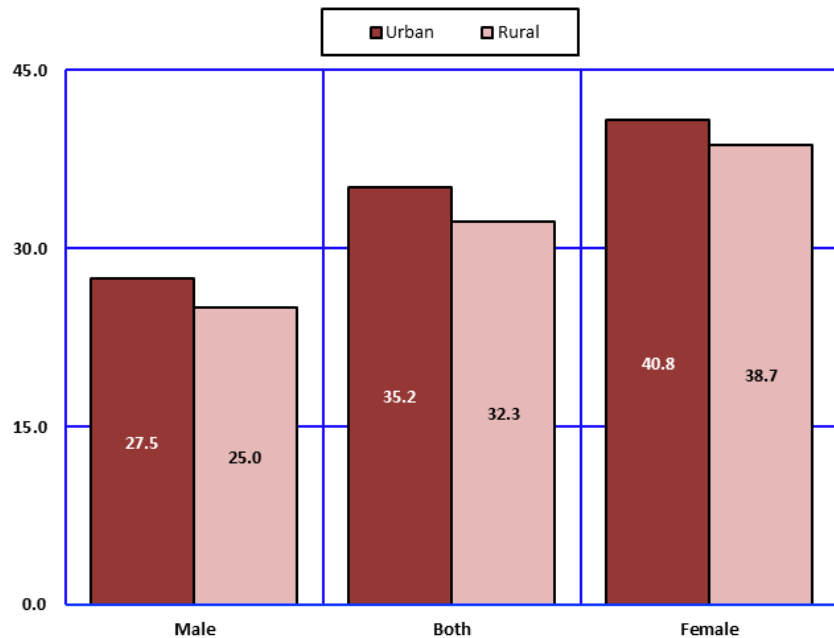
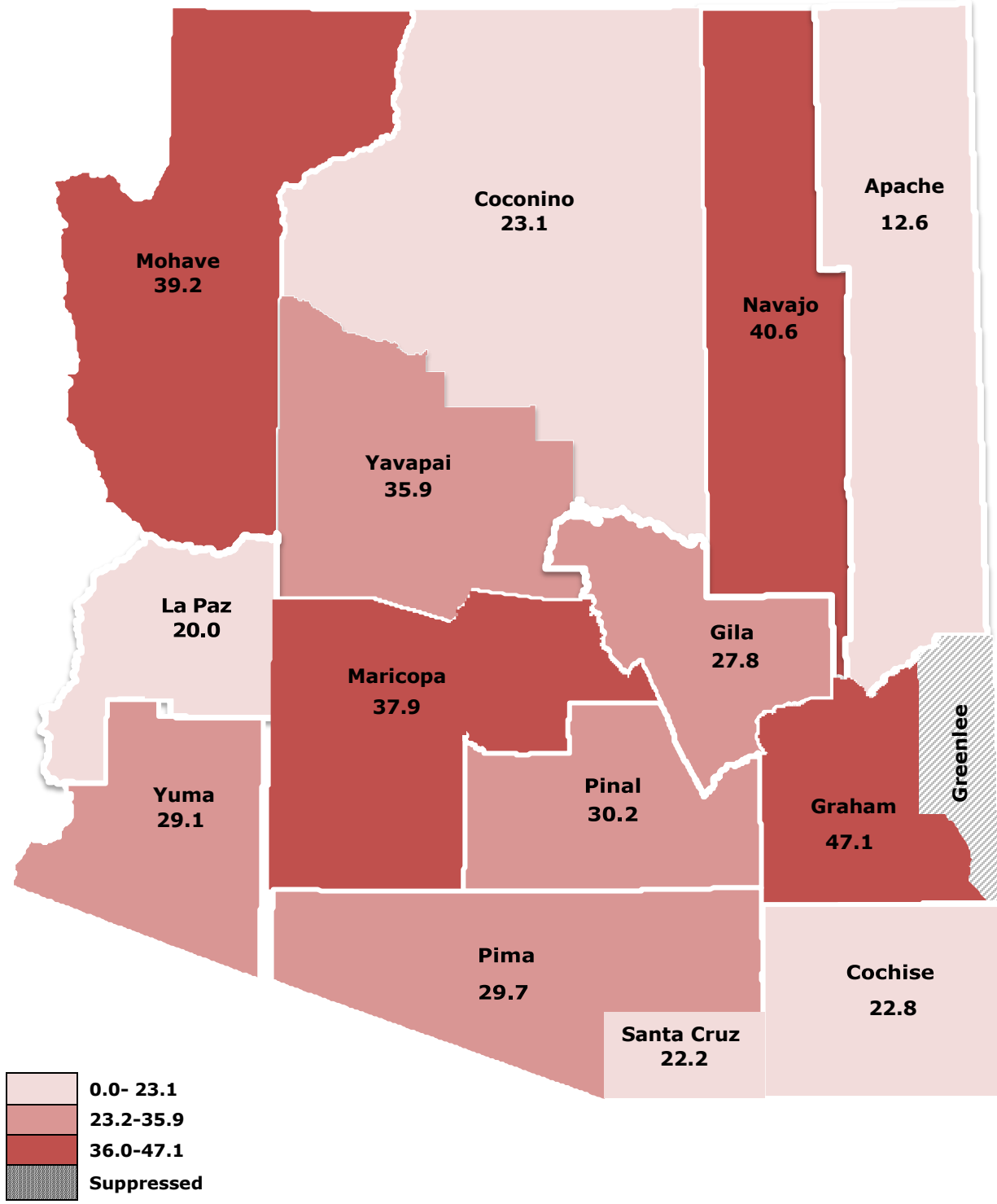


Figure 13
Age-Adjusted Mortality Rates* for Alzheimer’s Disease by County of Residence, Arizona, 2020



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

In 2020, mortality from Alzheimer’s disease among the fifteen Arizona counties ranged from a rate of 12.6 deaths per 100,000 persons in Apache County to a rate of 47.1 deaths per 100,000 persons in Graham 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 (2,101 out of 3,235 deaths, or 64.9 percent of all deaths from Alzheimer’s disease). These two counties accounted for 60.6 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, 2010-2020

DATA TABLES

**TABLE 1
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF MORTALITY BY YEAR, ARIZONA, 2010-2020**

Cause of death	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	Rank (count) in 2019	Rank (count) in 2020
Diseases of heart	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)	1 (12,560)	1 (14,185)
Malignant neoplasms	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)	2 (12,485)	2 (12,671)
COVID-19*	-	-	-	-	-	-	-	-	-	-	3 (8,430)
Accidents (unintentional injury)	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)	3 (4,522)	4 (5,377)
Chronic lower respiratory diseases	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)	4 (3,678)	5 (3,698)
Alzheimer's disease	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)	5 (3,045)	6 (3,235)
Cerebrovascular diseases	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)	6 (2,848)	7 (3,225)
Diabetes	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)	7 (2,170)	8 (2,563)
Chronic liver disease and cirrhosis	9 (843)	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)
Intentional self-harm (suicide)	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)	8 (1,411)	10 (1,359)
Essential primary hypertension/hypertensive renal disease	11 (498)	10 (725)	10 (739)	11 (711)	10 (758)	10 (896)	10 (1,010)	10 (1,018)	11 (928)	10 (1,009)	11 (1,131)
Influenza and pneumonia	10 (729)	11 (649)	11 (635)	10 (724)	11 (669)	11 (739)	11 (859)	11 (852)	10 (1,113)	11 (947)	12 (1,109)
Total, all causes	45,871	47,547	48,459	49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700

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; * The COVID-19 data collection began in mid-March 2020.

TABLE 2
AGE-ADJUSTED MORTALITY RATES^a FOR ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH, ARIZONA, 2010-2020

Cause of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Diseases of heart	143.3	152.7	145.8	143.0	129.9	141.3	142.5	141.9	140.5	137.3	152.9
Malignant neoplasms	150.5	151.3	149.8	149.6	136.3	144.0	140.7	136.6	135.9	134.7	134.7
COVID-19 [‡]	-	-	-	-	-	-	-	-	-	-	92.1
Accidents (unintentional injury)	43.8	45.5	42.4	46.3	43.3	48.1	53.7	55.3	55.9	59.2	71.5
Chronic lower respiratory diseases	42.6	45.9	44.2	44.5	41.1	45.1	45.0	43.0	42.6	39.2	38.8
Alzheimer's disease	35.1	35.2	29.9	33.2	30.9	37.3	37.3	35.2	34.3	33.2	34.7
Cerebrovascular diseases	30.7	30.6	29.9	28.2	26.2	31.1	30.7	30.7	32.1	31.0	34.6
Diabetes	20.1	24.8	23.5	23.6	23.0	25.7	24.5	23.8	23.0	23.9	27.9
Intentional self-harm (suicide)	16.7	17.2	16.2	17.0	16.5	17.8	17.7	18.0	19.5	18.9	18.2
Chronic liver disease and cirrhosis	12.3	13.4	13.6	14.5	13.2	14.9	15.1	14.2	14.2	14.7	17.4
Essential primary hypertension/ hypertensive renal disease	6.3	10.8	10.4	9.7	9.9	11.1	12.2	11.8	10.5	11.0	12.2
Influenza and pneumonia	10.9	9.7	9.1	10.0	8.9	9.4	10.4	9.9	12.7	10.4	12.2
Total, all causes	679.9	699.6	687.2	687.8	676.0	691.3	696.6	679.3	688.6	676.6	842.2

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; [‡] The COVID-19 data collection began in mid-March 2020.

**TABLE 3
AGE-ADJUSTED MORTALITY RATES^a FOR ALZHEIMER'S DISEASE BY GENDER AND YEAR, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total	35.1	35.2	29.9	33.2	30.9	37.3	37.3	35.2	34.3	33.2	34.7
Male	28.5	28.9	41.5	27.2	25.7	31.1	31.1	29.2	26.7	26.3	27.1
Female	39.3	39.0	52.8	37.2	34.4	41.5	41.5	39.5	39.7	38.3	40.5

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, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total	2,314	2,336	2,154	2,384	2,345	2,942	3,081	3,050	3,011	3,045	3,235
Male	753	774	748	792	807	1,028	1,084	1,076	1,010	1,046	1,103
Female	1,561	1,562	1,406	1,592	1,538	1,914	1,997	1,974	2,001	1,999	2,132

**TABLE 5
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY RACE/ETHNICITY AND GENDER, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All groups											
Total	2,314	2,336	2,154	2,384	2,345	2,942	3,081	3,050	3,011	3,045	3,235
Male	753	774	748	792	807	1,028	1,084	1,076	1,010	1,046	1,103
Female	1,561	1,562	1,406	1,592	1,538	1,914	1,997	1,974	2,001	1,999	2,132
White non-Hispanic											
Total	2,013	2,038	1,869	2,042	1,993	2,515	2,617	2,604	2,548	2,535	2,650
Male	648	675	658	677	695	878	940	937	845	887	921
Female	1,365	1,363	1,211	1,365	1,298	1,637	1,677	1,667	1,703	1,648	1,729
Hispanic or Latino											
Total	191	182	199	252	253	302	313	321	305	351	385
Male	66	57	70	82	81	113	95	96	113	98	128
Female	125	125	129	170	172	189	218	225	192	253	257
Black or African American											
Total	49	58	41	47	49	65	72	64	77	80	87
Male	19	21	13	15	19	19	23	26	26	35	26
Female	30	37	28	32	30	46	49	38	51	45	61
American Indian or Alaska Native											
Total	20	26	20†	25	37	34	44	23	38	38	40
Male	7	8	*	11	11	13	14	6	15	10	7
Female	13	18	13	14	26	21	30	17	23	28	33
Asian or Pacific Islander											
Total	25	17	30†	18	10†	30†	35	30†	34	35	57
Male	7	7	*	7	*	*	12	*	6	11	14
Female	18	10	25	11	12	21	23	22	28	24	43
Refused/Unknown											
Total	0	0	0	0	0	0	0	0	10†	10†	16
Male	0	0	0	0	0	0	0	0	*	*	7
Female	0	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, 2010, 2012, AND 2020**

		2010	2012	2020
All groups	Total	2,314	2,154	3,235
	Male	753	748	1,103
	Female	1,561	1,406	2,132
Urban	Total	1,998	1,893	2,660
	Male	651	659	898
	Female	1,346	1,234	1,762
Rural	Total	314	259	571
	Male	100	87	202
	Female	214	172	369

**TABLE 7
NUMBER OF DEATHS FROM ALZHEIMER'S DISEASE BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total State	2,314	2,336	2,150+	2,380+	2,350+	2,940+	3,080+	3,050	3,010+	3,050+	3,240+
Apache	8	8	*	8	*	13	12	14	11	13	9
Cochise	33	36	27	31	19	42	41	33	25	34	46
Coconino	13	20	11	18	19	22	34	23	35	27	26
Gila	23	24	27	25	30	37	22	17	35	39	30
Graham	2	7	9	*	6	9	10	12	32	15	19
Greenlee	2	0	*	*	*	*	*	6	*	*	*
La Paz	4	3	*	0	*	*	9	7	*	11	11
Maricopa	1,665	1,732	1,523	1,555	1,467	1,772	1,835	1,796	1,819	1,836	1,917
Mohave	85	56	49	42	61	97	116	154	172	138	179
Navajo	15	18	16	19	34	27	27	35	42	37	52
Pima	235	215	290	477	489	537	576	529	480	492	479
Pinal	77	89	71	85	92	160	116	116	110	122	167
Santa Cruz	10	8	13	16	12	10	18	17	15	18	14
Yavapai	119	92	97	80	68	152	200	219	164	161	184
Yuma	21	20	9	22	36	53	55	64	59	93	97
Unknown	2	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, 2010, 2012, AND 2020**

		2010	2012	2020
Total, all ages	Total	2,314	2,154	3,235
	Male	753	748	1,103
	Female	1,561	1,406	2,132
45-54	Total	1	4	0†
	Male	0	2	*
	Female	1	2	*
55-64	Total	12	21	38
	Male	5	11	18
	Female	7	10	20
65-74	Total	124	126	247
	Male	62	61	104
	Female	62	65	143
75-84	Total	656	634	987
	Male	253	256	374
	Female	403	378	613
85+	Total	1,520	1,365	1,961
	Male	432	414	606
	Female	1,087	951	1,355

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, 2010-2020**

Cause of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total, all causes	32,876	34,318	34,958	35,983	37,010	39,480	41,189	42,199	43,572	44,398	55,283
Diseases of heart	7,852	8,407	8,449	8,583	8,130	9,189	9,673	10,171	10,265	10,406	11,699
Malignant neoplasms	7,421	7,513	7,729	8,015	7,715	8,502	8,686	8,850	8,984	9,356	9,644
COVID-19[‡]	-	-	-	-	-	-	-	-	-	-	6,260
Chronic lower respiratory diseases	2,558	2,745	2,746	2,868	2,743	3,192	3,286	3,293	3,310	3,237	3,220
Alzheimer's disease	2,301	2,307	2,129	2,353	2,311	2,903	3,048	2,997	2,979	3,009	3,195
Cerebrovascular disease	1,784	1,782	1,774	1,736	1,739	2,127	2,236	2,292	2,456	2,473	2,780
Diabetes	930	1,193	1,148	1,162	1,188	1,345	1,362	1,411	1,408	1,491	1,716
Accidents (unintentional injury)	1,018	1,070	999	1,146	1,145	1,298	1,463	1,485	1,508	1,560	1,550
Parkinson's disease	480	526	565	561	558	700	697	737	773	785	986
Essential primary hypertension/ hypertensive renal disease	423	636	613	601	614	735	831	850	793	853	931
Influenza and pneumonia	585	533	542	608	512	626	670	697	871	741	839
Nephritis, nephrotic syndrome and nephrosis	407	340	373	328	288	430	403	445	533	612	603

Note: [‡] The COVID-19 data collection began in mid-March 2020.

TABLE 10
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY MALES 65 YEARS AND OLDER,
BY YEAR, ARIZONA, 2010-2020

Cause of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total, all causes	15,967	16,517	17,101	17,489	18,292	19,665	20,781	21,144	22,030	22,480	28,258
Diseases of heart	3,988	4,310	4,384	4,511	4,280	4,798	5,187	5,446	5,514	5,599	6,308
Malignant neoplasms	4,048	4,075	4,257	4,294	4,235	4,609	4,798	4,854	5,048	5,100	5,275
COVID-19[‡]	-	-	-	-	-	-	-	-	-	-	3,576
Chronic lower respiratory diseases	1,249	1,288	1,372	1,356	1,367	1,527	1,542	1,566	1,573	1,545	1,547
Cerebrovascular disease	680	665	710	680	680	905	914	970	1,048	1,057	1,218
Alzheimer's disease	748	763	735	781	792	1,005	1,073	1,052	992	1,025	1,084
Diabetes	498	626	624	633	655	737	783	795	814	859	1,003
Accidents (unintentional injury)	506	505	474	563	570	675	779	766	811	863	857
Parkinson's disease	290	310	359	358	336	442	455	470	517	517	638
Influenza and pneumonia	289	262	263	285	252	312	331	339	446	398	452
Essential primary hypertension/hypertensive renal disease	183	247	249	256	283	322	386	377	341	382	419
Nephritis, nephrotic syndrome and nephrosis	207	173	178	157	135	228	204	236	270	342	316

Note: [‡] The COVID-19 data collection began in mid-March 2020.

TABLE 11
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY FEMALES 65 YEARS AND OLDER,
BY YEAR, ARIZONA, 2010-2020

Cause of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total, all causes	16,909	17,798	17,855	18,494	18,718	19,815	20,408	21,055	21,542	21,918	27,025
Diseases of heart	3,864	4,096	4,065	4,072	3,850	4,391	4,486	4,725	4,751	4,807	5,391
Malignant neoplasms	3,373	3,437	3,472	3,721	3,480	3,893	3,888	3,996	3,936	4,256	4,369
COVID-19[‡]	-	-	-	-	-	-	-	-	-	-	2,684
Alzheimer's disease	1,553	1,544	1,394	1,572	1,519	1,898	1,975	1,945	1,987	1,984	2,111
Chronic lower respiratory diseases	1,309	1,457	1,374	1,512	1,376	1,665	1,744	1,727	1,737	1,692	1,673
Cerebrovascular disease	1,104	1,117	1,064	1,056	1,059	1,222	1,322	1,322	1,408	1,416	1,562
Diabetes	432	567	524	529	533	608	579	616	594	632	713
Accidents (unintentional injury)	512	565	525	583	575	623	684	719	697	697	693
Essential primary hypertension/hypertensive renal disease	240	389	364	345	331	413	445	473	452	471	512
Influenza and pneumonia	296	271	279	323	260	314	339	358	425	343	387
Parkinson's disease	190	216	206	203	222	258	242	267	256	268	348
Nephritis, nephrotic syndrome and nephrosis	200	167	195	171	153	202	199	209	263	270	287

Note: [‡] The COVID-19 data collection began in mid-March 2020.

**TABLE 12
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65 YEARS AND OLDER,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2020**

Cause of death	Total		Gender		Area			Race/Ethnicity					
	Total	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	
													Male
Total, all causes	55,283	28,258	27,025	43,652	11,525	106	43,239	7,350	1,543	1,919	860	372	
Diseases of heart	11,699	6,308	5,391	9,202	2,470	27	9,704	1,177	330	244	153	91	
Malignant neoplasms	9,644	5,275	4,369	7,541	2,089	14	7,976	1,016	292	171	143	46	
COVID-19[±]	6,260	3,576	2,684	4,851	1,395	14	3,624	1,671	174	620	125	46	
Chronic lower respiratory diseases	3,220	1,547	1,673	2,427	790	*	2,857	221	52	30	28	32	
Alzheimer's disease	3,195	1,084	2,111	2,623	568	*	2,623	378	84	39	57	14	
Cerebrovascular disease	2,780	1,218	1,562	2,251	525	*	2,184	375	84	65	59	13	
Diabetes	1,716	1,003	713	1,370	343	*	1,048	389	80	141	40	18	
Accidents (unintentional injury)	1,550	857	693	1,215	334	*	1,279	148	36	49	19	19	
Parkinson's disease	986	638	348	843	142	*	839	89	17	20	19	*	
Essential primary hypertension/hypertensive renal disease	931	419	512	787	144	0	698	138	38	34	16	7	
Influenza and pneumonia	839	452	387	674	158	7	612	128	23	56	15	*	
Nephritis, nephrotic syndrome and nephrosis	603	316	287	448	152	*	431	111	20	28	9	*	

Note: * cell suppressed due to non-zero count less than 6; [±] The COVID-19 data collection began in mid-March 2020.

**TABLE 13
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 65-74 YEARS OLD,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2020**

Cause of death	Total		Gender		Area			Race/Ethnicity					
	Total	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	15,434	9,039	6,395	11,900	3,488	46	11,200	2,462	619	733	225	195	
Malignant neoplasms	3,668	2,065	1,603	2,851	810	7	2,941	435	143	66	55	28	
Diseases of heart	2,806	1,827	979	2,113	680	13	2,173	338	122	92	28	53	
COVID-19[‡]	1,975	1,198	777	1,502	467	6	878	704	73	261	40	19	
Chronic lower respiratory diseases	930 [†]	487	439	684	241	*	814	58	25	7	*	17	
Diabetes	747	457	290	608	139	0	433	176	39	67	20	12	
Cerebrovascular disease	622	330	292	492	130	0	447	97	31	18	21	8	
Accidents (unintentional injury)	480 [†]	326	150	346	130	0	364	51	21	22	*	13	
Alzheimer's disease	250 [†]	104	143	205	42	0	200	33	*	*	*	*	
Influenza and pneumonia	240 [†]	138	98	184	49	*	161	42	11	19	*	*	
Essential primary hypertension/hypertensive renal disease	218	117	101	181	37	0	156	32	16	10	0	*	
Parkinson's disease	170 [†]	113	55	142	26	0	134	19	8	*	*	0	
Nephritis, nephrotic syndrome and nephrosis	160	83	77	128	32	0	105	37	8	9	0	*	

Notes: * cell suppressed due to non-zero count less than 6; † sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ The COVID-19 data collection began in mid-March 2020.

**TABLE 14
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 75-84 YEARS OLD,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2020**

Cause of death	Total		Gender		Area			Race/Ethnicity					
	Total	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	
													Male
Total, all causes	19,310	10,484	8,826	15,004	4,269	37	15,152	2,520	546	679	303	110	
Malignant neoplasms	3,775	2,061	1,714	2,920	850	*	3,152	373	113	72	55	10	
Diseases of heart	3,709	2,160	1,549	2,831	870	8	3,050	376	111	91	56	25	
COVID-19[‡]	2,346	1,410	936	1,818	521	7	1,393	600	68	217	49	19	
Chronic lower respiratory diseases	1,266	615	651	940	324	*	1,133	80	18	13	13	9	
Alzheimer's disease	987	374	613	779	207	*	811	109	35	13	15	*	
Cerebrovascular disease	952	474	478	764	187	*	737	138	26	27	21	*	
Diabetes	635	373	262	496	136	*	397	145	30	47	10	6	
Accidents (unintentional injury)	496	276	220	384	111	*	415	49	9	13	6	*	
Parkinson's disease	466	316	150	401	64	*	396	44	7	9	9	*	
Influenza and pneumonia	290 [†]	161	133	235	58	*	210	50	9	18	*	*	
Essential primary hypertension/hypertensive renal disease	289	147	142	240	49	0	212	47	14	9	6	*	
Nephritis, nephrotic syndrome and nephrosis	230	124	106	163	64	*	163	38	10	11	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; ‡ The COVID-19 data collection began in mid-March 2020.

TABLE 15
ALZHEIMER'S DISEASE AND OTHER LEADING CAUSES OF DEATH AMONG ELDERLY 85 YEARS AND OLDER,
BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2020

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	8,735	11,804	16,748	3,768	23	16,887	2,368	378	507	332	67	
Diseases of heart	2,321	2,863	4,258	920	6	4,481	463	97	61	69	13	
Malignant neoplasms	1,149	1,052	1,770	429	*	1,883	208	36	33	33	8	
Alzheimer's disease	606	1,355	1,639	319	*	1,612	236	44	22	39	8	
COVID-19[‡]	968	971	1,531	407	*	1,353	367	33	142	36	8	
Cerebrovascular disease	414	792	995	208	*	1,000	140	27	20	17	*	
Chronic lower respiratory diseases	445	583	803	225	0	910	83	9	10	10	6	
Accidents (unintentional injury)	255	323	485	93	0	500	48	6	14	8	*	
Essential primary hypertension/hypertensive renal disease	155	269	366	58	0	330	59	8	15	10	*	
Parkinson's disease	209	143	300	52	0	309	26	*	8	6	*	
Diabetes	173	161	266	68	0	218	68	11	27	10	0	
Influenza and pneumonia	153	156	255	51	*	241	36	*	19	9	*	
Nephritis, nephrotic syndrome and nephrosis	109	104	157	56	0	163	36	*	8	*	*	

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; ‡ The COVID-19 data collection began in mid-March 2020.

**TABLE 16
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND RACE/ETHNICITY,
ARIZONA, 2010, 2012, AND 2020**

	Age group	2010	2012	2020
ALL GROUPS	Total	497,892	538,719	741,087
		280,539	293,328	404,990
		103,400	108,457	143,733
	All 65+	881,831	940,504	1,289,810
	Male	236,227	254,107	345,665
		127,730	134,990	188,168
		37,738	39,781	59,699
	All 65+	401,695	428,878	593,532
	Female	261,665	284,612	395,422
		152,809	158,338	216,822
		65,662	68,676	84,034
	WHITE NON-HISPANIC	Total	480,136	511,626
		403,963	437,814	575,974
		235,652	245,488	332,090
85+		90,230	94,077	119,545
All 65+		729,845	777,379	1,027,609
Male		193,910	208,573	271,208
		108,901	114,640	157,157
		33,046	34,702	50,700
All 65+		335,857	357,915	479,065
Female		210,053	229,241	304,766
		126,751	130,848	174,933
		57,184	59,375	68,845
HISPANIC	Total	393,988	419,464	548,544
		57,479	64,967	105,160
		28,486	31,321	46,689
		8,316	9,605	15,739
	All 65+	94,281	105,892	167,588
	Male	26,026	29,640	48,568
		12,039	13,461	20,175
		3,032	3,469	5,906
	All 65+	41,097	46,570	74,649
	Female	31,453	35,327	56,592
		16,447	17,860	26,514
		5,284	6,135	9,833
	53,184	59,323	92,939	

TABLE 16 (continued)
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND RACE/ETHNICITY,
ARIZONA, 2010, 2012, AND 2020

	Age group	2010	2012	2020
BLACK	Total	10,949	11,756	21,374
		4,899	5,318	8,860
		1,474	1,511	2,756
	All 65+	17,322	18,586	32,990
	Male	5,196	5,581	9,994
		2,097	2,345	3,926
		455	463	1,043
	All 65+	7,748	8,390	14,963
	Female	5,753	6,175	11,380
		2,802	2,973	4,934
		1,019	1,048	1,713
	All 65+	9,574	10,196	18,027
AMERICAN INDIAN	Total	12,371	13,546	18,319
		5,790	6,421	8,328
		1,851	2,066	2,688
	All 65+	20,012	22,034	29,335
	Male	5,426	6,005	8,078
		2,358	2,641	3,285
		663	733	964
	All 65+	8,447	9,379	12,327
	Female	6,945	7,541	10,241
		3,432	3,781	5,043
		1,188	1,334	1,724
	All 65+	11,565	12,655	17,008
ASIAN	Total	9,445	10,635	20,260
		4,129	4,780	9,023
		1,032	1,198	3,005
	All 65+	14,606	16,613	32,288
	Male	3,943	4,307	7,817
		1,616	1,904	3,625
		363	414	1,086
	All 65+	5,922	6,625	12,528
	Female	5,502	6,328	12,443
		2,513	2,876	5,398
		669	784	1,919
	All 65+	8,684	9,989	19,760

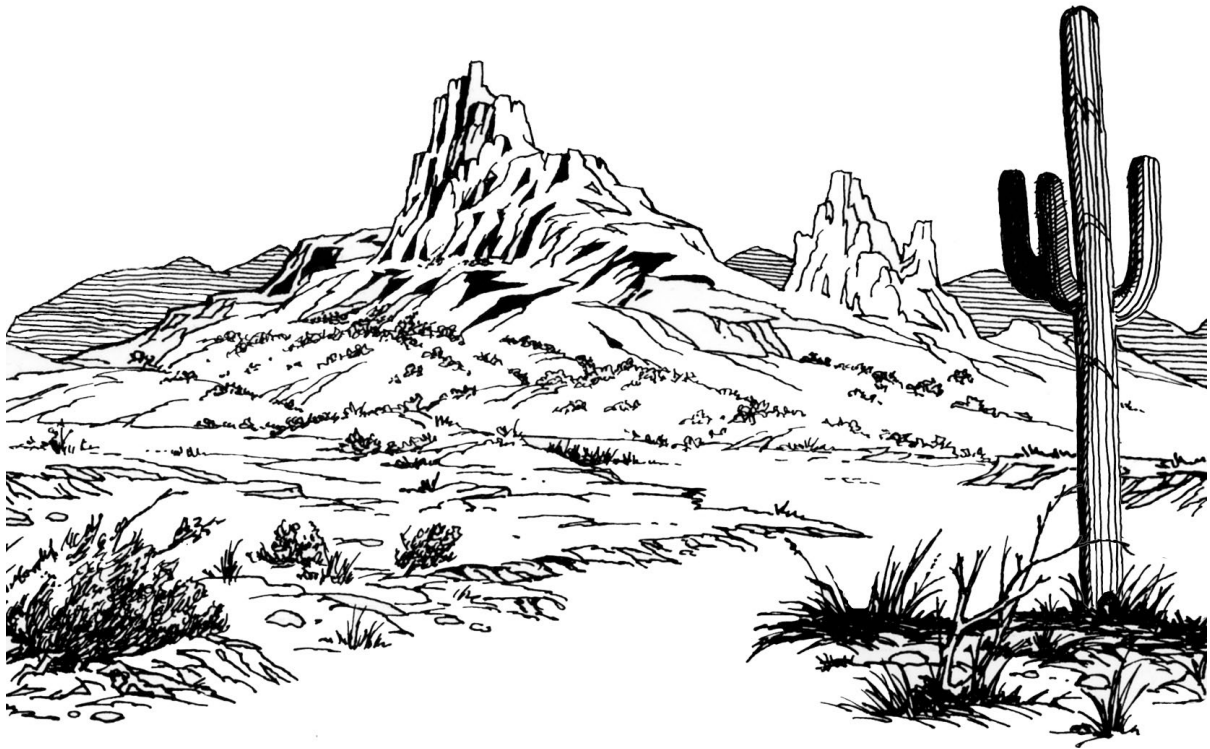
**TABLE 17
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND COUNTY OF RESIDENCE,
ARIZONA, 2010, 2012, AND 2020**

	Age group	2010			2012			2020		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
ARIZONA	65-74	236,227	261,665	497,892	254,107	284,612	538,719	345,665	395,422	741,087
	75-84	127,730	152,809	280,539	134,990	158,338	293,328	188,168	216,822	404,990
	85+	37,738	65,662	103,400	39,781	68,676	108,457	59,699	84,034	143,733
	Total	401,695	480,136	881,831	428,878	511,626	940,504	593,532	696,278	1,289,810
APACHE	65-74	2,489	2,687	5,176	2,646	2,918	5,564	2,888	3,267	6,155
	75-84	1,037	1,287	2,324	1,186	1,404	2,590	1,434	1,791	3,225
	85+	294	474	768	302	511	813	394	644	1,038
	Total	3,820	4,448	8,268	4,134	4,832	8,967	4,716	5,702	10,418
COCHISE	65-74	6,532	6,758	13,290	6,692	7,161	13,853	7,926	8,535	16,461
	75-84	3,429	3,643	7,072	3,633	3,707	7,341	4,664	4,970	9,634
	85+	901	1,425	2,326	897	1,430	2,326	1,285	1,698	2,983
	Total	10,862	11,826	22,688	11,222	12,299	23,520	13,875	15,203	29,078
COCONINO	65-74	3,653	3,794	7,447	4,027	4,289	8,316	5,959	6,092	12,051
	75-84	1,512	1,873	3,385	1,626	1,886	3,512	2,371	2,798	5,169
	85+	369	723	1,092	376	734	1,109	699	1,028	1,727
	Total	5,534	6,390	11,924	6,028	6,909	12,937	9,029	9,918	18,947
GILA	65-74	3,618	3,637	7,255	3,820	3,993	7,813	4,426	4,586	9,012
	75-84	1,907	2,097	4,004	2,010	2,111	4,121	2,504	2,562	5,066
	85+	416	775	1,191	440	775	1,215	665	929	1,594
	Total	5,941	6,509	12,450	6,270	6,880	13,149	7,595	8,077	15,672
GRAHAM	65-74	1,148	1,240	2,388	1,208	1,323	2,531	1,479	1,651	3,130
	75-84	661	768	1,429	673	793	1,466	747	916	1,663
	85+	162	282	444	162	277	439	269	370	639
	Total	1,971	2,290	4,261	2,042	2,393	4,435	2,495	2,937	5,432
GREENLEE	65-74	264	263	527	295	282	577	368	344	712
	75-84	165	218	383	176	221	396	171	212	383
	85+	34	72	106	33	73	106	66	139	205
	Total	463	553	1,016	504	576	1,079	605	695	1,300
LA PAZ	65-74	2,199	2,006	4,205	2,278	2,169	4,447	1,513	1,468	2,981
	75-84	1,185	908	2,093	1,275	999	2,274	1,423	1,324	2,747
	85+	171	214	385	217	234	451	493	369	862
	Total	3,555	3,128	6,683	3,770	3,402	7,172	3,429	3,161	6,590

TABLE 17 (continued)
POPULATION AT RISK: ELDERLY 65 YEARS AND OLDER BY GENDER, AGE GROUP, AND COUNTY OF RESIDENCE,
ARIZONA, 2010, 2012, AND 2020

	Age group	2010			2012			2020		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
MARICOPA	65-74	118,994	136,394	255,388	129,498	148,881	278,379	183,153	214,958	398,111
	75-84	65,158	83,041	148,199	68,565	85,672	154,237	95,563	115,660	211,223
	85+	20,884	38,170	59,054	21,888	39,849	61,737	31,807	47,645	79,452
	Total	205,036	257,605	462,641	219,951	274,402	494,353	310,523	378,263	688,786
MOHAVE	65-74	14,319	13,990	28,309	14,857	14,873	29,730	18,494	18,886	37,380
	75-84	7,261	7,170	14,431	7,895	7,598	15,493	11,590	11,108	22,698
	85+	1,539	2,379	3,918	1,656	2,516	4,172	2,976	3,412	6,388
	Total	23,119	23,539	46,658	24,409	24,987	49,396	33,060	33,406	66,466
NAVAJO	65-74	4,332	4,535	8,867	4,601	4,969	9,569	5,835	6,284	12,119
	75-84	1,912	2,224	4,136	2,078	2,344	4,422	2,903	3,274	6,177
	85+	491	747	1,238	504	788	1,292	741	1,019	1,760
	Total	6,735	7,506	14,241	7,183	8,100	15,283	9,479	10,577	20,056
PIMA	65-74	38,174	43,618	81,792	41,009	47,255	88,265	55,798	64,259	120,057
	75-84	22,141	27,465	49,606	22,975	27,853	50,828	30,221	36,238	66,459
	85+	7,265	12,630	19,895	7,606	13,172	20,778	10,420	15,286	25,706
	Total	67,580	83,713	151,293	71,590	88,281	159,871	96,439	115,783	212,222
PINAL	65-74	16,421	16,834	33,255	17,735	18,702	36,437	24,831	27,995	52,826
	75-84	7,493	7,596	15,089	8,250	8,424	16,673	14,514	14,487	29,001
	85+	1,512	2,215	3,727	1,587	2,360	3,947	3,584	3,948	7,532
	Total	25,426	26,645	52,071	27,571	29,485	57,057	42,929	46,430	89,359
SANTA CRUZ	65-74	1,743	1,948	3,691	1,929	2,159	4,088	2,342	2,739	5,081
	75-84	831	1,046	1,877	942	1,106	2,048	1,275	1,498	2,773
	85+	230	426	656	256	467	722	391	583	974
	Total	2,804	3,420	6,224	3,127	3,732	6,858	4,008	4,820	8,828
YAVAPAI	65-74	14,019	14,906	28,925	14,985	16,158	31,143	21,591	24,149	45,740
	75-84	7,790	8,206	15,996	8,055	8,527	16,582	11,586	12,142	23,728
	85+	2,229	3,617	5,846	2,386	3,691	6,077	3,293	4,319	7,612
	Total	24,038	26,729	50,767	25,426	28,376	53,803	36,470	40,610	77,080
YUMA	65-74	8,322	9,055	17,377	8,527	9,481	18,008	9,062	10,209	19,271
	75-84	5,248	5,267	10,515	5,653	5,692	11,345	7,202	7,842	15,044
	85+	1,241	1,513	2,754	1,471	1,799	3,270	2,616	2,645	5,261
	Total	14,811	15,835	30,646	15,651	16,972	32,623	18,880	20,696	39,576

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, Suicide and Self-Inflicted Injury, 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