

**TABLE 2C-19**  
**MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)**  
**BY GENDER, ARIZONA, 2009-2019**

Gender/Cause	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change from 2009
<b>MALE</b>												
Malignant neoplasms	182.2	188.3	186.3	196.6	191.4	171.5	186.4	184.1	180.7	177.8	175.1	-3.9
Diseases of heart	169.0	160.7	165.3	155.1	159.3	143.2	166.6	170.1	164.7	162.5	160.8	-4.9
Accidents (unintentional injuries)	71.9	69.2	68.9	68.0	77.9	73.5	76.8	100.4	98.8	95.5	105.7	47.0
Other	51.1	54.6	19.8	47.9	54.5	54.0	54.5	71.5	72.1	70.5	82.6	61.6
Motor vehicle accidents	20.8	19.9	21.4	20.1	23.3	19.4	22.3	28.9	26.8	25.0	23.1	11.1
Chronic liver disease and cirrhosis	38.0	42.1	49.6	50.2	46.7	43.1	48.1	47.8	45.5	45.7	43.8	15.3
Intentional self-harm (suicide)	37.0	40.9	41.3	41.8	38.3	37.7	40.3	41.2	37.4	43.3	39.7	7.3
ALL CAUSES	738.1	744.1	752.2	778.8	784.8	775.3	809.1	841.8	802.8	824.4	801.5	8.6
(Number of all deaths)	(5,472)	(5,659)	(5,760)	(5,999)	(6,088)	(6,111)	(6,444)	(6,781)	(6,570)	(6,839)	(6,702)	22.5
<b>FEMALE</b>												
Malignant neoplasms	154.2	153.9	156.9	155.1	160.7	145.0	155.6	150.9	143.9	146.3	147.5	-4.3
Diseases of heart	59.4	55.9	61.8	60.5	54.6	54.0	60.8	66.7	58.2	62.7	61.9	4.2
Accidents (unintentional injuries)	36.1	36.6	32.8	33.0	38.0	33.7	35.8	38.4	42.2	37.3	38.7	7.2
Other	28.5	29.0	7.4	26.1	29.8	27.4	27.9	30.4	18.6	27.7	31.0	8.8
Motor vehicle accidents	7.6	7.7	7.1	6.9	8.2	6.2	7.9	8.1	8.2	9.7	7.7	1.3
Diabetes	14.2	17.0	21.3	22.3	23.6	22.8	27.4	24.6	22.6	22.1	23.4	64.8
Chronic lower respiratory diseases	19.2	19.3	21.6	24.2	24.8	24.8	23.0	25.8	26.4	27.6	21.3	10.9
ALL CAUSES	448.6	439.6	447.1	445.8	465.2	468.9	482.3	484.1	460.8	464.7	467.3	4.2
(Number of all deaths)	(3,483)	(3,553)	(3,638)	(3,631)	(3,810)	(3,914)	(4,066)	(4,130)	(3,997)	(4,081)	(4,132)	18.6
<b>TOTAL</b>												
Malignant neoplasms	167.9	170.6	171.2	175.2	175.6	157.9	170.6	167.0	161.8	161.6	160.9	-4.2
Diseases of heart	112.9	106.7	112.0	106.5	105.5	97.4	112.2	116.9	109.9	111.2	110.0	-2.6
Accidents (unintentional injuries)	53.6	52.4	50.3	50.0	57.4	53.0	55.7	68.5	69.7	65.6	71.3	33.0
Other	39.5	38.8	13.4	36.7	41.8	40.4	40.8	50.3	52.5	48.5	56.1	42.0
Motor vehicle accidents	14.0	13.6	14.1	13.3	15.6	12.6	14.9	18.2	17.2	17.1	15.2	8.6
Chronic liver disease and cirrhosis	29.1	30.2	34.3	35.0	34.7	33.6	37.7	36.3	35.1	34.0	33.6	15.5
Chronic lower respiratory diseases	21.5	20.0	23.6	25.1	24.7	25.4	26.6	28.2	27.3	28.4	23.5	9.3
ALL CAUSES	590.0	587.2	595.0	607.6	620.7	617.7	641.0	657.8	626.8	639.4	629.7	6.7
(Number of all deaths)	(8,855)	(9,212)	(9,398)	(9,630)	(9,898)	(10,025)	(10,510)	(10,911)	(10,567)	(10,920)	(10,834)	22.3

Notes: <sup>a</sup> Rates are presented per 100,000 middle-aged adults 45-64 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2009-2019 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2009-2019 are classified by ICD-10; measures of comparison between ICD-9 and ICD-10 - the "comparability ratios" - for the causes of death shown in this report are provided in the **Technical Notes**.