

**TABLE 2C-21  
MORTALITY RATES<sup>1</sup> FOR THE FIVE LEADING CAUSES<sup>2</sup> OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)  
IN URBAN AND RURAL AREAS<sup>3</sup>, ARIZONA, 1998-2008**

Area/Cause	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	% change from 1998
<b>URBAN</b>												
Malignant neoplasms	204.0	205.3	196.6	193.2	202.4	198.0	188.9	190.5	174.8	169.6	162.8	-20.2
Diseases of heart	151.2	146.3	132.5	129.8	135.3	125.9	127.0	132.5	119.9	109.4	109.8	-27.4
Accidents (unintentional injuries)	39.5	43.1	41.0	42.8	45.1	40.6	47.6	55.7	54.2	47.8	51.6	30.6
Motor vehicle accidents	18.0	19.6	17.0	12.5	18.0	14.7	17.0	18.7	19.7	13.7	14.8	-17.8
Other injury	21.4	23.5	24.0	30.3	27.1	25.9	30.6	37.0	34.5	34.1	36.8	72.0
Chronic liver disease and cirrhosis	26.3	29.2	28.3	26.9	25.8	26.8	25.2	30.0	23.3	23.0	27.4	4.2
Chronic lower respiratory diseases	26.8	26.2	25.1	27.8	23.0	21.2	21.9	25.8	22.3	20.5	23.6	-11.9
ALL CAUSES	638.4	655.0	619.2	615.7	637.2	630.2	620.7	647.8	595.0	559.7	559.5	-12.4
(Number of all deaths)	(4885)	(5302)	(5345)	(5509)	(5878)	(5987)	(6140)	(6658)	(6834)	(6812)	(6918)	41.6
<b>RURAL</b>												
Malignant neoplasms	252.7	230.7	197.1	199.7	205.5	210.1	225.2	219.6	197.0	188.3	188.1	-25.6
Diseases of heart	201.2	172.2	164.7	153.6	159.4	162.4	164.5	165.9	148.1	149.6	156.0	-22.5
Accidents (unintentional injuries)	64.5	65.7	48.8	50.4	60.3	68.2	71.0	72.5	74.9	65.3	68.1	5.6
Motor vehicle accidents	27.8	30.1	22.7	23.1	31.1	35.7	30.6	36.0	37.0	26.6	27.3	-1.8
Other injury	36.7	35.7	26.1	27.3	29.2	32.5	40.4	36.5	37.9	38.7	40.8	11.2
Chronic liver disease and cirrhosis	39.6	26.7	32.4	29.7	27.4	37.9	44.8	39.8	32.3	36.1	39.6	0.0
Chronic lower respiratory diseases	31.4	30.6	20.3	22.1	26.9	25.0	18.9	31.4	24.8	28.1	29.5	-6.1
ALL CAUSES	806.6	772.8	693.7	683.9	725.8	750.7	768.9	781.4	702.9	687.3	727.8	-9.8
(Number of all deaths)	(1363)	(1387)	(1436)	(1452)	(1589)	(1683)	(1786)	(1865)	(1784)	(1810)	(1946)	42.8
<b>STATEWIDE</b>												
Malignant neoplasms	212.9	210.1	196.7	194.6	203.0	200.3	195.8	196.0	178.8	173.0	167.6	-21.3
Diseases of heart	160.4	151.0	138.8	134.3	140.0	132.9	134.2	138.8	125.0	116.6	118.2	-26.3
Accidents (unintentional injuries)	44.1	47.4	42.7	44.4	48.0	46.0	52.1	58.8	57.9	51.2	54.9	24.8
Motor vehicle accidents	19.8	21.6	18.3	14.5	20.5	18.8	19.6	22.0	22.8	16.0	17.2	-12.1
Other injury	24.3	25.8	24.4	29.9	27.5	27.2	32.5	36.8	35.1	35.2	37.7	55.1
Chronic liver disease and cirrhosis	28.7	28.7	29.1	27.5	26.1	29.0	28.9	31.8	25.0	25.3	29.7	3.5
Chronic lower respiratory diseases	27.6	27.2	24.2	26.7	23.7	21.9	21.4	26.8	22.7	21.8	24.7	-10.5
ALL CAUSES	669.9	677.1	633.9	632.1	654.8	653.7	649.1	673.1	614.6	582.8	591.8	-11.7
(Number of all deaths)	(6258)	(6696)	(6785)	(6998)	(7474)	(7675)	(7928)	(8524)	(8618)	(8629)	(8899)	42.2

<sup>1</sup>Rates are presented per 100,000 middle-aged adults 45-64 years old.

<sup>2</sup>The five causes with the greatest number of deaths over the 1998-2008 period.

<sup>3</sup>Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas. See **Technical Notes** for more information.

Note: Records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area. The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2000-2008 are classified by ICD-10, replacing the Ninth Revision (ICD-9) used during 1979-1999. 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**