

Table 28. Age-adjusted death rates, by race, sex, region, and urbanization level: United States, average annual, selected years 1996-1998 through 2008-2010

[Data are based on death certificates]

Sex, region, and urbanization level ¹	All races			White			Black or African American		
	1996-1998	1999-2001	2008-2010	1996-1998	1999-2001	2008-2010	1996-1998	1999-2001	2008-2010
Both sexes									
Age-adjusted death rate per 100,000 population ²									
All regions:									
Metropolitan counties:									
Large:									
Central.....	894.5	869.0	727.3	858.8	836.7	715.4	1,164.2	1,133.6	919.4
Fringe.....	839.3	833.0	711.3	828.0	823.7	712.4	1,059.6	1,040.8	823.6
Medium.....	865.6	859.0	757.7	846.5	842.2	749.0	1,152.4	1,137.3	944.1
Small.....	887.8	887.9	794.3	866.5	868.8	781.9	1,173.1	1,164.3	983.3
Nonmetropolitan counties:									
Micropolitan.....	913.0	907.1	831.1	892.1	890.0	818.8	1,208.2	1,174.9	1,029.7
Nonmicropolitan.....	933.0	923.2	855.1	909.6	902.8	839.6	1,191.6	1,162.8	1,012.1
Northeast:									
Metropolitan counties:									
Large:									
Central.....	909.6	861.7	711.6	881.4	838.6	712.3	1,052.4	1,001.1	797.0
Fringe.....	827.8	814.0	680.4	823.3	810.8	686.4	1,000.0	986.6	757.7
Medium.....	851.9	836.2	721.2	842.2	828.6	720.4	1,076.6	1,040.8	814.1
Small.....	852.0	849.5	742.3	847.8	846.5	741.4	1,106.9	1,072.4	888.9
Nonmetropolitan counties:									
Micropolitan.....	878.4	854.4	765.4	877.9	855.7	768.4	*	*	*
Nonmicropolitan.....	893.6	877.4	776.8	892.0	876.3	778.8	*	*	*
Midwest:									
Metropolitan counties:									
Large:									
Central.....	951.7	939.6	807.3	880.7	868.9	756.7	1,213.7	1,205.9	997.5
Fringe.....	856.4	856.1	738.4	845.9	846.3	734.9	1,121.2	1,123.1	907.8
Medium.....	876.1	873.5	776.3	857.0	856.1	763.4	1,168.9	1,151.6	978.9
Small.....	860.8	861.5	765.7	847.4	850.8	758.1	1,178.9	1,146.9	962.0
Nonmetropolitan counties:									
Micropolitan.....	868.8	865.2	788.4	863.9	863.0	786.9	1,222.0	1,103.5	948.5
South:									
Metropolitan counties:									
Large:									
Central.....	938.1	926.8	785.4	864.9	859.1	743.9	1,241.9	1,212.8	983.9
Fringe.....	845.3	845.6	729.8	821.9	826.2	726.9	1,071.4	1,048.4	827.9
Medium.....	891.8	892.4	793.6	852.1	855.8	770.9	1,172.6	1,164.4	971.5
Small.....	943.6	950.5	859.4	907.5	917.9	839.9	1,183.2	1,180.0	1,004.9
Nonmetropolitan counties:									
Micropolitan.....	974.1	973.3	904.9	933.5	939.3	882.3	1,218.9	1,194.3	1,055.1
Nonmicropolitan.....	1,005.3	1,003.0	941.6	975.9	978.5	929.9	1,188.4	1,171.2	1,027.5
West:									
Metropolitan counties:									
Large:									
Central.....	819.2	792.4	655.9	829.4	804.1	678.5	1,107.9	1,077.7	872.6
Fringe.....	818.6	803.6	680.4	823.2	810.1	693.3	1,060.8	1,006.2	844.4
Medium.....	814.7	800.5	704.5	826.9	815.8	722.3	1,045.4	996.3	836.7
Small.....	827.6	815.7	729.0	826.6	815.7	731.7	973.5	990.7	706.3
Nonmetropolitan counties:									
Micropolitan.....	861.0	851.8	768.9	860.4	854.7	773.0	*	*	*
Nonmicropolitan.....	867.1	847.4	771.2	845.9	828.6	747.7	*	*	*
Male									
All regions:									
Metropolitan counties:									
Large:									
Central.....	1,108.6	1,057.6	870.3	1,060.6	1,015.2	852.3	1,503.8	1,436.1	1,144.2
Fringe.....	1,025.2	998.7	839.4	1,010.9	987.3	840.0	1,329.0	1,281.1	998.8
Medium.....	1,069.9	1,038.5	897.3	1,045.4	1,017.7	884.7	1,469.0	1,409.2	1,153.5
Small.....	1,104.6	1,079.2	941.8	1,077.4	1,056.1	926.3	1,497.6	1,449.1	1,199.3
Nonmetropolitan counties:									
Micropolitan.....	1,139.9	1,108.6	985.3	1,113.5	1,087.5	969.4	1,547.8	1,475.9	1,256.4
Nonmicropolitan.....	1,172.3	1,132.9	1,009.7	1,143.3	1,108.3	989.8	1,529.0	1,457.3	1,237.6
Northeast:									
Metropolitan counties:									
Large:									
Central.....	1,142.0	1,065.3	866.8	1,102.8	1,034.5	864.5	1,374.4	1,280.7	1,005.0
Fringe.....	1,018.1	985.3	811.8	1,012.6	982.3	819.3	1,263.0	1,219.0	931.9
Medium.....	1,061.6	1,018.1	858.2	1,049.9	1,009.7	857.3	1,351.2	1,262.4	981.5
Small.....	1,062.7	1,034.1	886.6	1,057.9	1,032.3	887.5	1,376.8	1,280.7	1,048.5
Nonmetropolitan counties:									
Micropolitan.....	1,093.5	1,042.5	909.1	1,093.7	1,045.6	914.3	*	*	*
Nonmicropolitan.....	1,096.9	1,056.9	908.0	1,096.1	1,056.6	911.8	*	*	*
Midwest:									
Metropolitan counties:									
Large:									
Central.....	1,192.6	1,155.5	970.1	1,101.0	1,064.6	901.2	1,559.8	1,525.5	1,252.4
Fringe.....	1,051.7	1,030.0	867.1	1,038.7	1,018.7	863.1	1,399.4	1,372.7	1,084.0
Medium.....	1,089.0	1,063.2	919.4	1,065.3	1,043.8	903.4	1,470.0	1,394.4	1,192.6
Small.....	1,076.0	1,057.3	912.9	1,059.7	1,045.0	904.2	1,463.9	1,401.9	1,153.3
Nonmetropolitan counties:									
Micropolitan.....	1,092.0	1,063.4	940.8	1,086.0	1,062.0	940.2	1,551.8	1,315.8	1,093.3
Nonmicropolitan.....	1,094.7	1,050.5	935.7	1,083.0	1,043.3	928.7	1,788.2	1,225.3	864.3
South:									
Metropolitan counties:									
Large:									
Central.....	1,172.0	1,130.9	941.9	1,074.6	1,042.9	888.4	1,616.0	1,542.6	1,227.0
Fringe.....	1,030.8	1,009.7	859.1	1,000.5	984.8	853.7	1,351.1	1,297.8	1,006.4
Medium.....	1,106.6	1,081.2	943.0	1,053.0	1,033.8	913.1	1,517.1	1,466.2	1,202.9
Small.....	1,185.9	1,160.8	1,023.0	1,138.6	1,118.6	996.1	1,526.9	1,487.0	1,242.2
Nonmetropolitan counties:									
Micropolitan.....	1,228.0	1,198.9	1,073.4	1,175.1	1,154.7	1,041.5	1,577.6	1,519.8	1,308.9
Nonmicropolitan.....	1,275.7	1,240.6	1,113.8	1,239.3	1,210.2	1,094.3	1,530.4	1,478.0	1,270.0
West:									
Metropolitan counties:									
Large:									
Central.....	996.3	949.8	776.8	1,006.7	962.4	800.7	1,383.8	1,323.2	1,038.4
Fringe.....	981.1	947.0	793.0	988.0	954.5	807.0	1,228.8	1,171.2	991.0
Medium.....	987.4	952.8	826.3	1,003.1	969.3	841.5	1,230.6	1,165.1	945.7

Small.....	1,003.7	970.5	850.4	1,001.7	971.6	853.3	1,178.9	1,088.1	801.3
Nonmetropolitan counties:									
Micropolitan.....	1,037.8	1,012.6	901.4	1,036.0	1,013.6	902.8	*	*	*
Nonmicropolitan.....	1,048.7	1,010.9	889.2	1,023.0	986.8	859.6	*	*	*
Female									
All regions:									
Metropolitan counties:									
Large:									
Central.....	738.9	730.1	616.0	711.3	703.8	606.2	934.4	929.3	763.6
Fringe.....	705.7	711.1	611.2	696.3	702.7	611.5	875.9	876.4	700.7
Medium.....	716.8	724.6	645.5	701.9	710.6	638.6	932.0	945.4	792.3
Small.....	731.2	745.7	675.3	713.7	729.1	664.7	951.9	966.5	824.7
Nonmetropolitan counties:									
Micropolitan.....	745.9	754.8	704.0	728.8	740.2	693.9	975.6	968.3	862.4
Nonmicropolitan.....	750.6	759.5	722.1	731.4	741.9	709.4	951.5	953.0	846.3
Northeast:									
Metropolitan counties:									
Large:									
Central.....	748.4	719.6	598.1	725.6	699.1	597.3	848.3	823.6	662.2
Fringe.....	696.3	692.6	581.6	692.4	689.3	586.0	827.2	828.1	637.2
Medium.....	709.1	707.5	616.1	701.4	700.9	615.2	883.4	877.0	687.9
Small.....	706.7	717.3	629.4	703.2	713.8	627.3	919.9	930.0	765.2
Nonmetropolitan counties:									
Micropolitan.....	725.0	717.5	650.2	724.3	718.1	652.0	*	*	*
Nonmicropolitan.....	741.8	738.5	663.6	740.1	737.4	664.6	*	*	*
Midwest:									
Metropolitan counties:									
Large:									
Central.....	784.1	786.2	684.1	729.7	730.9	645.5	974.4	984.5	819.3
Fringe.....	722.9	733.8	638.4	714.5	725.1	635.2	924.6	948.2	778.1
Medium.....	728.9	739.6	665.5	713.6	724.3	654.9	955.1	972.7	821.3
Small.....	710.8	721.4	650.3	700.0	712.2	643.6	963.1	952.5	812.4
Nonmetropolitan counties:									
Micropolitan.....	711.2	721.2	667.6	707.3	718.6	665.7	998.7	948.8	847.6
Nonmicropolitan.....	696.1	700.0	656.5	688.9	693.9	649.9	1,123.8	955.4	821.2
South:									
Metropolitan counties:									
Large:									
Central.....	768.6	776.3	663.8	712.1	721.7	628.5	988.2	989.8	816.4
Fringe.....	705.7	719.6	626.3	686.1	702.4	622.6	882.4	881.0	705.3
Medium.....	731.2	746.6	671.3	700.1	716.0	651.8	938.9	958.2	810.2
Small.....	771.0	795.0	728.0	740.9	767.1	712.0	956.5	974.2	836.8
Nonmetropolitan counties:									
Micropolitan.....	788.4	803.8	765.4	754.8	774.5	747.8	977.3	975.7	873.4
Nonmicropolitan.....	803.4	821.3	796.0	778.3	799.5	788.1	946.7	955.0	851.6
West:									
Metropolitan counties:									
Large:									
Central.....	682.6	670.1	557.3	691.8	679.9	576.5	906.0	899.3	743.7
Fringe.....	696.3	693.8	589.2	699.2	699.1	600.4	920.1	876.5	727.9
Medium.....	680.5	681.3	603.2	691.6	696.1	621.7	890.3	855.7	731.7
Small.....	687.3	691.3	625.6	687.2	690.7	628.0	789.8	886.6	612.0
Nonmetropolitan counties:									
Micropolitan.....	712.6	715.1	650.7	713.8	720.0	656.6	*	*	*
Nonmicropolitan.....	710.4	704.0	657.2	694.2	690.7	639.6	*	*	*

*Estimates of death rates for the black population in nonmetropolitan counties in the Northeast and West may be unreliable, possibly due to anomalies in population estimates for the black population in nonmetropolitan counties in these regions.

¹Urbanization levels are for county of residence of decedent. The levels were developed by NCHS using information from the Office of Management and Budget, Department of Agriculture, and Census Bureau. More information on this six-level urban-rural classification scheme is available from: http://www.cdc.gov/nchs/data_access/urban_rural.htm. See Appendix II, Urbanization.

²Age-adjusted rates are calculated using the year 2000 standard population.

Prior to 2003, age-adjusted rates were calculated using standard million proportions based on rounded population numbers.

Starting with 2003 data, unrounded population numbers are used to calculate age-adjusted rates.

See Appendix II, Age adjustment. Prior to 2008-2010, denominators for rates are

resident population estimates for the middle year of each 3-year period, multiplied by 3.

Starting with 2008-2010, denominators for rates are the 3-year average population.

See Appendix I, Population Census and Population Estimates.

NOTES: The race groups, white and black, include persons of Hispanic and non-Hispanic origin.

Starting with 2003 data, some states allowed the reporting of more than one race on the death certificate.

The multiple-race data for these states were bridged to the single-race categories of the 1977 Office of Management

and Budget standards, for comparability with other states. See Appendix II, Hispanic origin: Race.

Rates for 1999-2001 were calculated using intercensal 1999 population estimates, 2000 bridged-race April 1 census counts, and postcensal population estimates for 2001.

Rates for 2008-2010 were calculated using intercensal population estimates for 2008 and 2009, and

2010 bridged race April 1 census counts.

SOURCE: CDC/NCHS,

National Vital Statistics System, Compressed Mortality File.

See Appendix I, National Vital Statistics System (NVSS).

Health, United States 2011 web updates