

**Table 21. Death rates for all causes, by sex, race, Hispanic origin, and age: United States, selected years 1950–2016**

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2017.htm#021>.

[Data are based on death certificates]

Sex, race, Hispanic origin, and age	1950 <sup>1</sup>	1960 <sup>1</sup>	1970	1980	1990	2000	2010	2015	2016
All persons									
Deaths per 100,000 resident population									
All ages, age-adjusted <sup>2</sup>	1,446.0	1,339.2	1,222.6	1,039.1	938.7	869.0	747.0	733.1	728.8
All ages, crude	963.8	954.7	945.3	878.3	863.8	854.0	799.5	844.0	849.3
Under 1 year	3,299.2	2,696.4	2,142.4	1,288.3	971.9	736.7	623.4	589.6	583.4
1–4 years	139.4	109.1	84.5	63.9	46.8	32.4	26.5	24.9	25.3
5–14 years	60.1	46.6	41.3	30.6	24.0	18.0	12.9	13.2	13.4
15–24 years	128.1	106.3	127.7	115.4	99.2	79.9	67.7	69.5	74.9
25–34 years	178.7	146.4	157.4	135.5	139.2	101.4	102.9	116.7	129.0
35–44 years	358.7	299.4	314.5	227.9	223.2	198.9	170.5	180.1	192.2
45–54 years	853.9	756.0	730.0	584.0	473.4	425.6	407.1	404.0	405.5
55–64 years	1,901.0	1,735.1	1,658.8	1,346.3	1,196.9	992.2	851.9	875.3	883.8
65–74 years	4,104.3	3,822.1	3,582.7	2,994.9	2,648.6	2,399.1	1,875.1	1,796.8	1,788.6
75–84 years	9,331.1	8,745.2	8,004.4	6,692.6	6,007.2	5,666.5	4,790.2	4,579.2	4,474.8
85 years and over	20,196.9	19,857.5	16,344.9	15,980.3	15,327.4	15,524.4	13,934.3	13,673.9	13,392.1
Male									
All ages, age-adjusted <sup>2</sup>	1,674.2	1,609.0	1,542.1	1,348.1	1,202.8	1,053.8	887.1	863.2	861.0
All ages, crude	1,106.1	1,104.5	1,090.3	976.9	918.4	853.0	812.0	868.0	880.2
Under 1 year	3,728.0	3,059.3	2,410.0	1,428.5	1,082.8	806.5	680.2	639.2	633.7
1–4 years	151.7	119.5	93.2	72.6	52.4	35.9	29.6	28.0	27.7
5–14 years	70.9	55.7	50.5	36.7	28.5	20.9	14.6	15.0	15.0
15–24 years	167.9	152.1	188.5	172.3	147.4	114.9	97.6	99.5	107.7
25–34 years	216.5	187.9	215.3	196.1	204.3	138.6	141.5	160.5	178.1
35–44 years	428.8	372.8	402.6	299.2	310.4	255.2	212.5	226.0	244.2
45–54 years	1,067.1	992.2	958.5	767.3	610.3	542.8	505.9	495.6	497.9
55–64 years	2,395.3	2,309.5	2,282.7	1,815.1	1,553.4	1,230.7	1,075.5	1,103.9	1,112.0
65–74 years	4,931.4	4,914.4	4,873.8	4,105.2	3,491.5	2,979.6	2,275.1	2,190.0	2,186.1
75–84 years	10,426.0	10,178.4	10,010.2	8,816.7	7,888.6	6,972.6	5,693.7	5,376.3	5,258.6
85 years and over	21,636.0	21,186.3	17,821.5	18,801.1	18,056.6	17,501.4	15,414.3	14,795.8	14,533.8
Female									
All ages, age-adjusted <sup>2</sup>	1,236.0	1,105.3	971.4	817.9	750.9	731.4	634.9	624.2	617.5
All ages, crude	823.5	809.2	807.8	785.3	812.0	855.0	787.4	820.7	819.3
Under 1 year	2,854.6	2,321.3	1,863.7	1,141.7	855.7	663.4	564.0	537.7	530.7
1–4 years	126.7	98.4	75.4	54.7	41.0	28.7	23.3	21.6	22.9
5–14 years	48.9	37.3	31.8	24.2	19.3	15.0	11.1	11.2	11.8
15–24 years	89.1	61.3	68.1	57.5	49.0	43.1	36.4	38.1	40.4
25–34 years	142.7	106.6	101.6	75.9	74.2	63.5	64.0	72.1	78.6
35–44 years	290.3	229.4	231.1	159.3	137.9	143.2	128.9	134.5	140.7
45–54 years	641.5	526.7	517.2	412.9	342.7	312.5	311.4	315.0	315.6
55–64 years	1,404.8	1,196.4	1,098.9	934.3	878.8	772.2	643.5	662.3	671.2
65–74 years	3,333.2	2,871.8	2,579.7	2,144.7	1,991.2	1,921.2	1,527.5	1,450.9	1,439.3
75–84 years	8,399.6	7,633.1	6,677.6	5,440.1	4,883.1	4,814.7	4,137.7	3,971.3	3,873.8
85 years and over	19,194.7	19,008.4	15,518.0	14,746.9	14,274.3	14,719.2	13,219.2	13,080.8	12,780.9

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[Data are based on death certificates]

Sex, race, Hispanic origin, and age	1950 <sup>1</sup>	1960 <sup>1</sup>	1970	1980	1990	2000	2010	2015	2016
White male <sup>3</sup>									
Deaths per 100,000 resident population									
All ages, age-adjusted <sup>2</sup>	1,642.5	1,586.0	1,513.7	1,317.6	1,165.9	1,029.4	878.5	861.9	858.9
All ages, crude	1,089.5	1,098.5	1,086.7	983.3	930.9	887.8	866.1	932.9	944.0
Under 1 year	3,400.5	2,694.1	2,113.2	1,230.3	896.1	667.6	584.3	541.8	537.4
1–4 years	135.5	104.9	83.6	66.1	45.9	32.6	27.4	24.9	25.0
5–14 years	67.2	52.7	48.0	35.0	26.4	19.8	13.8	14.1	14.1
15–24 years	152.4	143.7	170.8	167.0	131.3	105.8	91.8	92.3	99.8
25–34 years	185.3	163.2	176.6	171.3	176.1	124.1	135.6	157.0	175.5
35–44 years	380.9	332.6	343.5	257.4	268.2	233.6	206.6	221.3	239.1
45–54 years	984.5	932.2	882.9	698.9	548.7	496.9	491.9	487.4	489.1
55–64 years	2,304.4	2,225.2	2,202.6	1,728.5	1,467.2	1,163.3	1,033.0	1,070.9	1,077.8
65–74 years	4,864.9	4,848.4	4,810.1	4,035.7	3,397.7	2,905.7	2,232.4	2,159.9	2,149.5
75–84 years	10,526.3	10,299.6	10,098.8	8,829.8	7,844.9	6,933.1	5,703.6	5,426.8	5,305.6
85 years and over	22,116.3	21,750.0	18,551.7	19,097.3	18,268.3	17,716.4	15,640.3	15,202.8	14,942.0
Black or African American male <sup>3</sup>									
All ages, age-adjusted <sup>2</sup>	1,909.1	1,811.1	1,873.9	1,697.8	1,644.5	1,403.5	1,104.0	1,040.3	1,049.5
All ages, crude	1,257.7	1,181.7	1,186.6	1,034.1	1,008.0	834.1	725.4	765.3	789.5
Under 1 year	---	5,306.8	4,298.9	2,586.7	2,112.4	1,567.6	1,206.5	1,150.2	1,133.8
1–4 years <sup>4</sup>	1,412.6	208.5	150.5	110.5	85.8	54.5	42.9	45.7	43.4
5–14 years	95.1	75.1	67.1	47.4	41.2	28.2	19.6	21.0	21.2
15–24 years	289.7	212.0	320.6	209.1	252.2	181.4	142.8	150.9	164.2
25–34 years	503.5	402.5	559.5	407.3	430.8	261.0	216.7	229.0	248.6
35–44 years	878.1	762.0	956.6	689.8	699.6	453.0	307.5	325.8	350.3
45–54 years	1,905.0	1,624.8	1,777.5	1,479.9	1,261.0	1,017.7	716.3	678.1	687.9
55–64 years	3,773.2	3,316.4	3,256.9	2,873.0	2,618.4	2,080.1	1,662.1	1,612.9	1,623.2
65–74 years	5,310.3	5,798.7	5,803.2	5,131.1	4,946.1	4,253.5	3,205.6	3,041.8	3,081.0
75–84 years <sup>5</sup>	10,101.9	8,605.1	9,454.9	9,231.6	9,129.5	8,486.0	6,721.5	6,204.5	6,134.4
85 years and over	---	14,844.8	12,222.3	16,098.8	16,954.9	16,791.0	14,715.3	13,066.3	13,028.7
American Indian or Alaska Native male <sup>3</sup>									
All ages, age-adjusted <sup>2</sup>	---	---	---	1,111.5	916.2	841.5	730.2	693.6	693.2
All ages, crude	---	---	---	597.1	476.4	415.6	397.5	454.7	471.2
Under 1 year	---	---	---	1,598.1	1,056.6	700.2	542.5	486.4	524.3
1–4 years	---	---	---	82.7	77.4	44.9	34.3	35.2	29.4
5–14 years	---	---	---	43.7	33.4	20.2	18.1	15.2	14.9
15–24 years	---	---	---	311.1	219.8	136.2	116.4	101.1	115.2
25–34 years	---	---	---	360.6	256.1	179.1	156.2	191.4	214.6
35–44 years	---	---	---	556.8	365.4	295.2	258.2	281.4	284.9
45–54 years	---	---	---	871.3	619.9	520.0	496.1	543.5	525.1
55–64 years	---	---	---	1,547.5	1,211.3	1,090.4	951.2	994.2	1,012.7
65–74 years	---	---	---	2,968.4	2,461.7	2,478.3	1,971.0	1,840.6	1,871.4
75–84 years	---	---	---	5,607.0	5,389.2	5,351.2	4,451.8	4,171.0	4,015.6
85 years and over	---	---	---	12,635.2	11,243.9	10,725.8	10,268.1	8,277.3	8,251.1

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[Data are based on death certificates]

Sex, race, Hispanic origin, and age	1950 <sup>1</sup>	1960 <sup>1</sup>	1970	1980	1990	2000	2010	2015	2016
Asian or Pacific Islander male <sup>3</sup>									
Deaths per 100,000 resident population									
All ages, age-adjusted <sup>2</sup>	---	---	---	786.5	716.4	624.2	512.1	467.6	464.6
All ages, crude	---	---	---	375.3	334.3	332.9	327.0	354.5	363.6
Under 1 year	---	---	---	816.5	605.3	529.4	434.4	437.8	449.2
1–4 years	---	---	---	50.9	45.0	23.3	19.3	15.1	16.1
5–14 years	---	---	---	23.4	20.7	12.9	8.4	10.3	9.6
15–24 years	---	---	---	80.8	76.0	55.2	43.0	48.6	52.1
25–34 years	---	---	---	83.5	79.6	55.0	52.6	55.7	58.3
35–44 years	---	---	---	128.3	130.8	104.9	83.5	84.5	98.5
45–54 years	---	---	---	342.3	287.1	249.7	213.7	205.3	210.8
55–64 years	---	---	---	881.1	789.1	642.4	519.0	507.9	521.6
65–74 years	---	---	---	2,236.1	2,041.4	1,661.0	1,226.0	1,130.7	1,133.8
75–84 years	---	---	---	5,389.5	5,008.6	4,328.2	3,438.7	3,091.6	3,019.4
85 years and over	---	---	---	13,753.6	12,446.3	12,125.3	10,824.5	9,405.8	9,074.8
Hispanic or Latino male <sup>3,6</sup>									
All ages, age-adjusted <sup>2</sup>	---	---	---	---	886.4	818.1	677.7	628.9	631.8
All ages, crude	---	---	---	---	411.6	331.3	310.8	343.2	356.8
Under 1 year	---	---	---	---	921.8	637.1	556.8	500.4	511.5
1–4 years	---	---	---	---	53.8	31.5	25.0	22.0	21.1
5–14 years	---	---	---	---	26.0	17.9	11.4	12.2	12.2
15–24 years	---	---	---	---	159.3	107.7	79.4	82.2	87.3
25–34 years	---	---	---	---	234.0	120.2	100.9	111.8	127.7
35–44 years	---	---	---	---	341.8	211.0	146.2	152.8	164.6
45–54 years	---	---	---	---	533.9	439.0	351.9	340.2	342.5
55–64 years	---	---	---	---	1,123.7	965.7	815.1	788.2	804.1
65–74 years	---	---	---	---	2,368.2	2,287.9	1,775.0	1,674.3	1,668.9
75–84 years	---	---	---	---	5,369.1	5,395.3	4,461.9	4,127.1	4,054.0
85 years and over	---	---	---	---	12,272.1	13,086.2	11,779.8	10,145.7	10,139.3
White, not Hispanic or Latino male <sup>6</sup>									
All ages, age-adjusted <sup>2</sup>	---	---	---	---	1,170.9	1,035.4	892.5	881.3	879.5
All ages, crude	---	---	---	---	985.9	978.5	987.5	1,072.5	1,085.6
Under 1 year	---	---	---	---	865.4	658.7	575.9	541.1	530.9
1–4 years	---	---	---	---	43.8	32.4	27.5	25.5	26.2
5–14 years	---	---	---	---	25.7	20.0	14.3	14.5	14.5
15–24 years	---	---	---	---	123.4	103.5	93.4	93.4	101.8
25–34 years	---	---	---	---	165.3	123.0	143.6	168.1	187.5
35–44 years	---	---	---	---	257.1	233.9	219.1	238.1	257.9
45–54 years	---	---	---	---	544.5	497.7	508.1	510.0	513.3
55–64 years	---	---	---	---	1,479.7	1,170.9	1,046.2	1,093.3	1,100.6
65–74 years	---	---	---	---	3,434.5	2,930.5	2,256.9	2,184.0	2,175.8
75–84 years	---	---	---	---	7,920.4	6,977.8	5,770.3	5,500.5	5,382.6
85 years and over	---	---	---	---	18,505.4	17,853.2	15,816.6	15,526.0	15,274.6





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[Data are based on death certificates]

Sex, race, Hispanic origin, and age	1950 <sup>1</sup>	1960 <sup>1</sup>	1970	1980	1990	2000	2010	2015	2016
White, not Hispanic or Latina female <sup>6</sup>	Deaths per 100,000 resident population								
All ages, age-adjusted <sup>2</sup>	---	---	---	---	734.6	721.5	643.3	644.1	637.2
All ages, crude	---	---	---	---	903.6	1,007.3	981.2	1,038.5	1,034.6
Under 1 year	---	---	---	---	655.3	530.9	480.4	445.7	438.7
1–4 years	---	---	---	---	34.0	24.4	21.8	20.1	21.4
5–14 years	---	---	---	---	17.6	13.9	10.9	11.2	10.9
15–24 years	---	---	---	---	46.0	42.6	38.4	40.1	41.4
25–34 years	---	---	---	---	60.6	56.8	66.8	78.8	86.5
35–44 years	---	---	---	---	116.8	128.1	133.1	145.7	152.9
45–54 years	---	---	---	---	312.1	285.0	307.7	327.7	327.5
55–64 years	---	---	---	---	834.5	742.1	631.5	661.0	670.2
65–74 years	---	---	---	---	1,940.2	1,891.0	1,535.9	1,472.8	1,460.2
75–84 years	---	---	---	---	4,887.3	4,819.3	4,232.6	4,103.1	3,992.4
85 years and over	---	---	---	---	14,533.1	14,971.7	13,543.5	13,682.6	13,406.5
Black, not Hispanic or Latina female <sup>6</sup>									
All ages, age-adjusted <sup>2</sup>	---	---	---	---	---	941.2	770.8	731.0	734.1
All ages, crude	---	---	---	---	---	756.7	676.9	704.3	719.7
Under 1 year	---	---	---	---	---	1,327.7	1,055.7	1,027.3	1,042.8
1–4 years	---	---	---	---	---	47.1	34.8	34.0	36.6
5–14 years	---	---	---	---	---	20.7	15.5	15.9	17.5
15–24 years	---	---	---	---	---	60.1	45.6	48.2	54.5
25–34 years	---	---	---	---	---	126.5	99.1	98.7	106.2
35–44 years	---	---	---	---	---	278.8	209.1	203.3	210.1
45–54 years	---	---	---	---	---	601.2	497.4	466.5	476.5
55–64 years	---	---	---	---	---	1,249.4	996.9	997.9	1,011.3
65–74 years	---	---	---	---	---	2,728.0	2,068.1	1,910.9	1,934.3
75–84 years	---	---	---	---	---	5,758.6	4,675.5	4,414.5	4,404.8
85 years and over	---	---	---	---	---	14,054.9	12,767.7	11,954.7	11,685.1

--- Data not available.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 states and the District of Columbia (D.C.).

<sup>2</sup>Age-adjusted rates are calculated using the year 2000 standard population. Prior to 2001, age-adjusted rates were calculated using standard million proportions based on rounded population numbers. Starting with 2001 data (shown in spreadsheet version), unrounded population numbers are used to calculate age-adjusted rates. See Appendix II, Age adjustment.

<sup>3</sup>The race groups white, black, Asian or Pacific Islander, and American Indian or Alaska Native include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for Hispanic, American Indian or Alaska Native, and Asian or Pacific Islander persons should be interpreted with caution because of inconsistencies in reporting Hispanic origin or race on the death certificate (death rate numerators) compared with population figures (death rate denominators). The net effect of misclassification is an underestimation of deaths and death rates for races other than white and black. See Appendix II, Race, for a detailed discussion of sources of bias in death rates by race and Hispanic origin.

<sup>4</sup>In 1950, rate is for the age group under 5 years.

<sup>5</sup>In 1950, rate is for the age group 75 and over.

<sup>6</sup>Prior to 1997, data from states that did not report Hispanic origin on the death certificate were excluded. See Appendix II, Hispanic origin.

NOTES: Starting with *Health, United States, 2003*, rates for 1991–1999 (shown in spreadsheet version) were revised using intercensal population estimates based on the 1990 and 2000 Censuses. For 2000, population estimates are bridged-race April 1 census counts. Starting with *Health, United States, 2012*, rates for 2001–2009 (shown in spreadsheet version) were revised using intercensal population estimates based on the 2000 and 2010 Censuses. For 2010, population estimates are bridged-race April 1 census counts. Rates for 2011 and beyond were computed using 2010-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Starting with 2003 data (shown in spreadsheet version), some states began to collect information on more than one race on the death certificate, according to 1997 Office of Management and Budget (OMB) standards. The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards, for comparability with other states. See Appendix II, Race. Data for additional years are available. See the Excel spreadsheet on the *Health, United States* website at: <https://www.cdc.gov/nchs/hus.htm>.

SOURCE: NCHS, National Vital Statistics System. Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940–1960. 1968; numerator data from National Vital Statistics System, annual public-use Mortality Files; denominator data from national population estimates for race groups from Table 1 and unpublished Hispanic population estimates for 1985–1996 prepared by the Housing and Household Economic Statistics Division, U.S. Census Bureau; Xu JQ, Murphy SL, Kochanek KD, Bastian B, Arias E. Deaths: Final data for 2016. National Vital Statistics Reports; vol 67. Hyattsville, MD: National Center for Health Statistics. 2018. Available from: <https://www.cdc.gov/nchs/products/nvsr.htm>. See Appendix I, National Vital Statistics System (NVSS).