

Table 31. Death rates for all causes, by sex, race, Hispanic origin, and age: United States, selected years 1950-2007

(Data are based on death certificates)

Sex, race, Hispanic origin, and age	1950 ¹	1960 ¹	1970	1980	1990	2000	2006	2007
All persons	Deaths per 100,000 resident population							
All ages, age-adjusted ²	1,446.0	1,339.2	1,222.6	1,039.1	938.7	869.0	776.5	760.2
All ages, crude.....	963.8	954.7	945.3	878.3	863.8	854.0	810.4	803.6
Under 1 year.....	3,299.2	2,696.4	2,142.4	1,288.3	971.9	736.7	690.7	684.5
1-4 years.....	139.4	109.1	84.5	63.9	46.8	32.4	28.4	28.6
5-14 years.....	60.1	46.6	41.3	30.6	24.0	18.0	15.2	15.3
15-24 years.....	128.1	106.3	127.7	115.4	99.2	79.9	82.2	79.9
25-34 years.....	178.7	146.4	157.4	135.5	139.2	101.4	106.3	104.9
35-44 years.....	358.7	299.4	314.5	227.9	223.2	198.9	190.2	184.4
45-54 years.....	853.9	756.0	730.0	584.0	473.4	425.6	427.5	420.9
55-64 years.....	1,901.0	1,735.1	1,658.8	1,346.3	1,196.9	992.2	890.9	877.7
65-74 years.....	4,104.3	3,822.1	3,582.7	2,994.9	2,648.6	2,399.1	2,062.1	2,011.3
75-84 years.....	9,331.1	8,745.2	8,004.4	6,692.6	6,007.2	5,666.5	5,115.0	5,011.6
85 years and over.....	20,196.9	19,857.5	16,344.9	15,980.3	15,327.4	15,524.4	13,253.1	12,946.5
Male								
All ages, age-adjusted ²	1,674.2	1,609.0	1,542.1	1,348.1	1,202.8	1,053.8	924.8	905.6
All ages, crude.....	1,106.1	1,104.5	1,090.3	976.9	918.4	853.0	814.8	809.9
Under 1 year.....	3,728.0	3,059.3	2,410.0	1,428.5	1,082.8	806.5	756.3	747.8
1-4 years.....	151.7	119.5	93.2	72.6	52.4	35.9	30.5	31.3
5-14 years.....	70.9	55.7	50.5	36.7	28.5	20.9	17.6	17.4
15-24 years.....	167.9	152.1	188.5	172.3	147.4	114.9	119.3	115.8
25-34 years.....	216.5	187.9	215.3	196.1	204.3	138.6	146.8	144.0
35-44 years.....	428.8	372.8	402.6	299.2	310.4	255.2	238.7	231.8
45-54 years.....	1,067.1	992.2	958.5	767.3	610.3	542.8	541.0	530.0
55-64 years.....	2,395.3	2,309.5	2,282.7	1,815.1	1,553.4	1,230.7	1,110.0	1,100.6
65-74 years.....	4,931.4	4,914.4	4,873.8	4,105.2	3,491.5	2,979.6	2,516.2	2,456.9
75-84 years.....	10,426.0	10,178.4	10,010.2	8,816.7	7,888.6	6,972.6	6,177.7	6,038.4
85 years and over.....	21,636.0	21,186.3	17,821.5	18,801.1	18,056.6	17,501.4	14,309.1	14,006.4
Female								
All ages, age-adjusted ²	1,236.0	1,105.3	971.4	817.9	750.9	731.4	657.8	643.4
All ages, crude.....	823.5	809.2	807.8	785.3	812.0	855.0	806.1	797.4
Under 1 year.....	2,854.6	2,321.3	1,863.7	1,141.7	855.7	663.4	622.0	618.1
1-4 years.....	126.7	98.4	75.4	54.7	41.0	28.7	26.3	25.7
5-14 years.....	48.9	37.3	31.8	24.2	19.3	15.0	12.8	13.1
15-24 years.....	89.1	61.3	68.1	57.5	49.0	43.1	42.8	42.0
25-34 years.....	142.7	106.6	101.6	75.9	74.2	63.5	64.3	64.2
35-44 years.....	290.3	229.4	231.1	159.3	137.9	143.2	141.6	136.9
45-54 years.....	641.5	526.7	517.2	412.9	342.7	312.5	317.7	315.2
55-64 years.....	1,404.8	1,196.4	1,098.9	934.3	878.8	772.2	687.0	670.1
65-74 years.....	3,333.2	2,871.8	2,579.7	2,144.7	1,991.2	1,921.2	1,677.9	1,633.0
75-84 years.....	8,399.6	7,633.1	6,677.6	5,440.1	4,883.1	4,814.7	4,388.3	4,304.1
85 years and over.....	19,194.7	19,008.4	15,518.0	14,746.9	14,274.3	14,719.2	12,759.0	12,442.3

White male³

All ages, age-adjusted ²	1,642.5	1,586.0	1,513.7	1,317.6	1,165.9	1,029.4	908.2	890.5
All ages, crude.....	1,089.5	1,098.5	1,086.7	983.3	930.9	887.8	852.3	848.1
Under 1 year.....	3,400.5	2,694.1	2,113.2	1,230.3	896.1	667.6	632.7	627.8
1-4 years.....	135.5	104.9	83.6	66.1	45.9	32.6	27.5	28.3
5-14 years.....	67.2	52.7	48.0	35.0	26.4	19.8	16.4	16.2
15-24 years.....	152.4	143.7	170.8	167.0	131.3	105.8	111.8	108.1
25-34 years.....	185.3	163.2	176.6	171.3	176.1	124.1	135.4	134.2
35-44 years.....	380.9	332.6	343.5	257.4	268.2	233.6	224.4	218.2
45-54 years.....	984.5	932.2	882.9	698.9	548.7	496.9	505.2	498.4
55-64 years.....	2,304.4	2,225.2	2,202.6	1,728.5	1,467.2	1,163.3	1,050.6	1,042.7
65-74 years.....	4,864.9	4,848.4	4,810.1	4,035.7	3,397.7	2,905.7	2,455.8	2,396.7
75-84 years.....	10,526.3	10,299.6	10,098.8	8,829.8	7,844.9	6,933.1	6,182.2	6,049.2
85 years and over.....	22,116.3	21,750.0	18,551.7	19,097.3	18,268.3	17,716.4	14,576.8	14,286.4

Black or African American male³

All ages, age-adjusted ²	1,909.1	1,811.1	1,873.9	1,697.8	1,644.5	1,403.5	1,215.6	1,184.4
All ages, crude.....	1,257.7	1,181.7	1,186.6	1,034.1	1,008.0	834.1	786.7	775.6
Under 1 year.....	---	5,306.8	4,298.9	2,586.7	2,112.4	1,567.6	1,407.1	1,363.2
1-4 years ⁴	1,412.6	208.5	150.5	110.5	85.8	54.5	47.1	45.3
5-14 years.....	95.1	75.1	67.1	47.4	41.2	28.2	24.8	24.6
15-24 years.....	289.7	212.0	320.6	209.1	252.2	181.4	171.3	168.1
25-34 years.....	503.5	402.5	559.5	407.3	430.8	261.0	254.2	240.3
35-44 years.....	878.1	762.0	956.6	689.8	699.6	453.0	392.3	378.9
45-54 years.....	1,905.0	1,624.8	1,777.5	1,479.9	1,261.0	1,017.7	921.9	876.7
55-64 years.....	3,773.2	3,316.4	3,256.9	2,873.0	2,618.4	2,080.1	1,891.8	1,870.8
65-74 years.....	5,310.3	5,798.7	5,803.2	5,131.1	4,946.1	4,253.5	3,669.2	3,604.9
75-84 years ⁵	10,101.9	8,605.1	9,454.9	9,231.6	9,129.5	8,486.0	7,393.2	7,169.0
85 years and over.....	---	14,844.8	12,222.3	16,098.8	16,954.9	16,791.0	13,206.0	12,964.7

American Indian or
Alaska Native male³

All ages, age-adjusted ²	---	---	---	1,111.5	916.2	841.5	739.9	736.7
All ages, crude.....	---	---	---	597.1	476.4	415.6	477.1	488.2
Under 1 year.....	---	---	---	1,598.1	1,056.6	700.2	1,057.8	1,009.9
1-4 years.....	---	---	---	82.7	77.4	44.9	58.1	63.6
5-14 years.....	---	---	---	43.7	33.4	20.2	17.2	23.2
15-24 years.....	---	---	---	311.1	219.8	136.2	156.1	143.7
25-34 years.....	---	---	---	360.6	256.1	179.1	194.0	198.3
35-44 years.....	---	---	---	556.8	365.4	295.2	338.5	332.5
45-54 years.....	---	---	---	871.3	619.9	520.0	591.9	573.0
55-64 years.....	---	---	---	1,547.5	1,211.3	1,090.4	1,029.5	1,037.0
65-74 years.....	---	---	---	2,968.4	2,461.7	2,478.3	2,146.7	2,131.7
75-84 years.....	---	---	---	5,607.0	5,389.2	5,351.2	4,198.0	4,193.4
85 years and over.....	---	---	---	12,635.2	11,243.9	10,725.8	7,540.2	7,638.6

Asian or
Pacific Islander male³

All ages, age-adjusted ²	---	---	---	786.5	716.4	624.2	516.0	499.2
All ages, crude.....	---	---	---	375.3	334.3	332.9	330.6	331.4
Under 1 year.....	---	---	---	816.5	605.3	529.4	469.7	483.5
1-4 years.....	---	---	---	50.9	45.0	23.3	18.1	25.3
5-14 years.....	---	---	---	23.4	20.7	12.9	11.3	12.2
15-24 years.....	---	---	---	80.8	76.0	55.2	61.7	61.0
25-34 years.....	---	---	---	83.5	79.6	55.0	54.2	50.1
35-44 years.....	---	---	---	128.3	130.8	104.9	88.5	88.9
45-54 years.....	---	---	---	342.3	287.1	249.7	232.5	229.1
55-64 years.....	---	---	---	881.1	789.1	642.4	550.7	523.1
65-74 years.....	---	---	---	2,236.1	2,041.4	1,661.0	1,329.2	1,304.7
75-84 years.....	---	---	---	5,389.5	5,008.6	4,328.2	3,606.4	3,538.4
85 years and over.....	---	---	---	13,753.6	12,446.3	12,125.3	9,524.7	8,918.0

Hispanic or Latino male^{3,6}

All ages, age-adjusted ²	---	---	---	---	886.4	818.1	675.6	654.5
All ages, crude.....	---	---	---	---	411.6	331.3	323.9	321.8
Under 1 year.....	---	---	---	---	921.8	637.1	640.7	632.7
1-4 years.....	---	---	---	---	53.8	31.5	28.8	28.0
5-14 years.....	---	---	---	---	26.0	17.9	16.4	15.8
15-24 years.....	---	---	---	---	159.3	107.7	120.7	115.3
25-34 years.....	---	---	---	---	234.0	120.2	112.7	110.1
35-44 years.....	---	---	---	---	341.8	211.0	176.5	166.3
45-54 years.....	---	---	---	---	533.9	439.0	403.8	399.2
55-64 years.....	---	---	---	---	1,123.7	965.7	843.6	831.4
65-74 years.....	---	---	---	---	2,368.2	2,287.9	1,910.7	1,862.7
75-84 years.....	---	---	---	---	5,369.1	5,395.3	4,492.6	4,364.8
85 years and over.....	---	---	---	---	12,272.1	13,086.2	9,435.5	8,953.7

White, not Hispanic
or Latino male⁶

All ages, age-adjusted ²	---	---	---	---	1,170.9	1,035.4	922.8	906.8
All ages, crude.....	---	---	---	---	985.9	978.5	962.0	960.4
Under 1 year.....	---	---	---	---	865.4	658.7	621.9	616.8
1-4 years.....	---	---	---	---	43.8	32.4	26.7	28.1
5-14 years.....	---	---	---	---	25.7	20.0	16.2	16.1
15-24 years.....	---	---	---	---	123.4	103.5	107.6	104.6
25-34 years.....	---	---	---	---	165.3	123.0	141.1	140.8
35-44 years.....	---	---	---	---	257.1	233.9	233.1	228.4
45-54 years.....	---	---	---	---	544.5	497.7	515.1	508.7
55-64 years.....	---	---	---	---	1,479.7	1,170.9	1,064.0	1,057.5
65-74 years.....	---	---	---	---	3,434.5	2,930.5	2,490.3	2,432.7
75-84 years.....	---	---	---	---	7,920.4	6,977.8	6,278.3	6,152.7
85 years and over.....	---	---	---	---	18,505.4	17,853.2	14,841.1	14,588.3

White female³

All ages, age-adjusted ²	1,198.0	1,074.4	944.0	796.1	728.8	715.3	648.2	634.8
All ages, crude.....	803.3	800.9	812.6	806.1	846.9	912.3	863.9	854.9

Under 1 year.....	2,566.8	2,007.7	1,614.6	962.5	690.0	550.5	516.5	516.8
1-4 years.....	112.2	85.2	66.1	49.3	36.1	25.5	23.5	23.1
5-14 years.....	45.1	34.7	29.9	22.9	17.9	14.1	11.9	12.4
15-24 years.....	71.5	54.9	61.6	55.5	45.9	41.1	41.7	41.2
25-34 years.....	112.8	85.0	84.1	65.4	61.5	55.1	58.9	59.6
35-44 years.....	235.8	191.1	193.3	138.2	117.4	125.7	129.0	126.2
45-54 years.....	546.4	458.8	462.9	372.7	309.3	281.4	291.6	290.5
55-64 years.....	1,293.8	1,078.9	1,014.9	876.2	822.7	730.9	654.6	638.0
65-74 years.....	3,242.8	2,779.3	2,470.7	2,066.6	1,923.5	1,868.3	1,646.0	1,600.9
75-84 years.....	8,481.5	7,696.6	6,698.7	5,401.7	4,839.1	4,785.3	4,395.1	4,317.6
85 years and over.....	19,679.5	19,477.7	15,980.2	14,979.6	14,400.6	14,890.7	12,965.7	12,646.7

Black or African American female³

All ages, age-adjusted ²	1,545.5	1,369.7	1,228.7	1,033.3	975.1	927.6	813.0	793.8
All ages, crude.....	1,002.0	905.0	829.2	733.3	747.9	733.0	684.0	675.7

Under 1 year.....	---	4,162.2	3,368.8	2,123.7	1,735.5	1,279.8	1,194.6	1,132.2
1-4 years ⁴	1,139.3	173.3	129.4	84.4	67.6	45.3	39.4	39.0
5-14 years.....	72.8	53.8	43.8	30.5	27.5	20.0	17.4	17.0
15-24 years.....	213.1	107.5	111.9	70.5	68.7	58.3	51.3	48.9
25-34 years.....	393.3	273.2	231.0	150.0	159.5	121.8	106.6	102.1
35-44 years.....	758.1	568.5	533.0	323.9	298.6	271.9	245.0	229.1
45-54 years.....	1,576.4	1,177.0	1,043.9	768.2	639.4	588.3	548.1	537.2
55-64 years.....	3,089.4	2,510.9	1,986.2	1,561.0	1,452.6	1,227.2	1,076.3	1,047.4
65-74 years.....	4,000.2	4,064.2	3,860.9	3,057.4	2,865.7	2,689.6	2,239.7	2,209.5
75-84 years ⁵	8,347.0	6,730.0	6,691.5	6,212.1	5,688.3	5,696.5	5,028.9	4,902.9
85 years and over.....	---	13,052.6	10,706.6	12,367.2	13,309.5	13,941.3	12,196.7	11,997.4

American Indian or
Alaska Native female³

All ages, age-adjusted ²	---	---	---	662.4	561.8	604.5	555.7	533.2
All ages, crude.....	---	---	---	380.1	330.4	346.1	399.9	400.0

Under 1 year.....	---	---	---	1,352.6	688.7	492.2	689.9	830.3
1-4 years.....	---	---	---	87.5	37.8	39.8	50.5	46.0
5-14 years.....	---	---	---	33.5	25.5	17.7	16.6	13.0
15-24 years.....	---	---	---	90.3	69.0	58.9	63.5	61.3
25-34 years.....	---	---	---	178.5	102.3	84.8	92.1	90.6
35-44 years.....	---	---	---	286.0	156.4	171.9	204.6	196.0
45-54 years.....	---	---	---	491.4	380.9	284.9	342.4	346.4
55-64 years.....	---	---	---	837.1	805.9	772.1	686.6	693.5
65-74 years.....	---	---	---	1,765.5	1,679.4	1,899.8	1,657.3	1,611.9
75-84 years.....	---	---	---	3,612.9	3,073.2	3,850.0	3,746.4	3,436.8
85 years and over.....	---	---	---	8,567.4	8,201.1	9,118.2	6,633.7	6,248.2

Asian or
Pacific Islander female³

All ages, age-adjusted ²	---	---	---	425.9	469.3	416.8	362.6	350.6
All ages, crude.....	---	---	---	222.5	234.3	262.3	285.6	287.2

Under 1 year.....	---	---	---	755.8	518.2	434.3	356.9	397.6
1-4 years.....	---	---	---	35.4	32.0	20.0	21.1	17.9

5-14 years.....	---	---	---	21.5	13.0	11.7	10.3	9.8
15-24 years.....	---	---	---	32.3	28.8	22.4	25.4	24.4
25-34 years.....	---	---	---	45.4	37.5	27.6	28.5	28.1
35-44 years.....	---	---	---	89.7	69.9	65.6	56.8	54.9
45-54 years.....	---	---	---	214.1	182.7	155.5	145.2	136.2
55-64 years.....	---	---	---	440.8	483.4	390.9	332.7	329.2
65-74 years.....	---	---	---	1,027.7	1,089.2	996.4	897.9	832.7
75-84 years.....	---	---	---	2,833.6	3,127.9	2,882.4	2,525.5	2,470.6
85 years and over.....	---	---	---	7,923.3	10,254.0	9,052.2	7,560.2	7,334.0

Hispanic or Latina female^{3,6}

All ages, age-adjusted ²	---	---	---	---	537.1	546.0	468.6	452.7
All ages, crude.....	---	---	---	---	285.4	274.6	274.6	272.1

Under 1 year.....	---	---	---	---	746.6	553.6	538.3	539.9
1-4 years.....	---	---	---	---	42.1	27.5	24.0	23.8
5-14 years.....	---	---	---	---	17.3	13.4	11.8	12.3
15-24 years.....	---	---	---	---	40.6	31.7	35.2	33.5
25-34 years.....	---	---	---	---	62.9	43.4	43.1	43.4
35-44 years.....	---	---	---	---	109.3	100.5	87.1	82.7
45-54 years.....	---	---	---	---	253.3	223.8	215.3	204.0
55-64 years.....	---	---	---	---	607.5	548.4	486.5	476.9
65-74 years.....	---	---	---	---	1,453.8	1,423.2	1,222.7	1,162.1
75-84 years.....	---	---	---	---	3,351.3	3,624.5	3,222.9	3,196.2
85 years and over.....	---	---	---	---	10,098.7	11,202.8	8,803.5	8,318.9

White, not Hispanic or Latina female⁶

All ages, age-adjusted ²	---	---	---	---	734.6	721.5	660.0	647.7
All ages, crude.....	---	---	---	---	903.6	1,007.3	974.7	967.6

Under 1 year.....	---	---	---	---	655.3	530.9	503.7	499.6
1-4 years.....	---	---	---	---	34.0	24.4	23.2	22.7
5-14 years.....	---	---	---	---	17.6	13.9	11.8	12.3
15-24 years.....	---	---	---	---	46.0	42.6	42.9	42.7
25-34 years.....	---	---	---	---	60.6	56.8	62.5	63.4
35-44 years.....	---	---	---	---	116.8	128.1	136.3	134.4
45-54 years.....	---	---	---	---	312.1	285.0	299.8	300.5
55-64 years.....	---	---	---	---	834.5	742.1	668.0	651.3
65-74 years.....	---	---	---	---	1,940.2	1,891.0	1,677.4	1,634.9
75-84 years.....	---	---	---	---	4,887.3	4,819.3	4,460.7	4,385.4
85 years and over.....	---	---	---	---	14,533.1	14,971.7	13,150.7	12,856.7

---Data not available.

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

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.

³The 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 the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a

discussion of sources of bias in death rates by race and Hispanic origin.

⁴In 1950, rate is for the age group under 5 years.

⁵In 1950, rate is for the age group 75 years and over.

⁶Prior to 1997, excludes data from states lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Starting with *Health, United States, 2003*, rates for 1991-1999 were revised using intercensal population estimates based on the 2000 census. Rates for 2000 were revised based on 2000 census counts. Rates for 2001 and later years were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. 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, Race. Data for additional years are available. See Appendix III.

SOURCE: CDC/NCHS, National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940-1960. Washington, DC: U.S. Government Printing Office, 1968; numerator data from National Vital Statistics System, annual 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; additional mortality tables are available from: http://www.cdc.gov/nchs/nvss/mortality_tables.htm; Xu JQ, Kochanek KD, Murphy SL, Tejada-Vera B. Deaths: Final data for 2007. National vital statistics reports; vol 58 no 19. Hyattsville, MD: NCHS; 2010. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr58nvsr58_19.pdf.

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