

Table 20 (page 1 of 4). Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950–2010

Updated data when available, Excel, PDF, and more data years: <http://www.cdc.gov/nchs/hus/contents2012.htm#020>.

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and cause of death</i> ¹	1950 ^{2,3}	1960 ^{2,3}	1970 ³	1980 ³	1990 ³	2000 ⁴	2005 ⁴	2009 ⁴	2010 ⁴
All persons									
Age-adjusted death rate per 100,000 population ⁵									
All causes	1,446.0	1,339.2	1,222.6	1,039.1	938.7	869.0	815.0	749.6	747.0
Diseases of heart	588.8	559.0	492.7	412.1	321.8	257.6	216.8	182.8	179.1
Ischemic heart disease	---	---	---	345.2	249.6	186.8	148.2	117.7	113.6
Cerebrovascular diseases	180.7	177.9	147.7	96.2	65.3	60.9	48.0	39.6	39.1
Malignant neoplasms	193.9	193.9	198.6	207.9	216.0	199.6	185.1	173.5	172.8
Trachea, bronchus, and lung	15.0	24.1	37.1	49.9	59.3	56.1	52.7	48.4	47.6
Colon, rectum, and anus	---	30.3	28.9	27.4	24.5	20.8	17.7	16.0	15.8
Chronic lower respiratory diseases	---	---	---	28.3	37.2	44.2	43.9	42.7	42.2
Influenza and pneumonia	48.1	53.7	41.7	31.4	36.8	23.7	21.0	16.5	15.1
Chronic liver disease and cirrhosis	11.3	13.3	17.8	15.1	11.1	9.5	8.9	9.1	9.4
Diabetes mellitus	23.1	22.5	24.3	18.1	20.7	25.0	24.9	21.0	20.8
Alzheimer's disease	---	---	---	†	†	18.1	24.0	24.2	25.1
Human immunodeficiency virus (HIV) disease . . . . .	...	...	...	...	10.2	5.2	4.2	3.0	2.6
Unintentional injuries	78.0	62.3	60.1	46.4	36.3	34.9	39.5	37.5	38.0
Motor vehicle-related injuries	24.6	23.1	27.6	22.3	18.5	15.4	15.2	11.6	11.3
Poisoning	2.5	1.7	2.8	1.9	2.3	4.5	8.0	10.3	10.6
Suicide ⁶	13.2	12.5	13.1	12.2	12.5	10.4	10.9	11.8	12.1
Homicide ⁶	5.1	5.0	8.8	10.4	9.4	5.9	6.1	5.5	5.3
Male									
All causes	1,674.2	1,609.0	1,542.1	1,348.1	1,202.8	1,053.8	971.9	890.9	887.1
Diseases of heart	699.0	687.6	634.0	538.9	412.4	320.0	268.2	229.4	225.1
Ischemic heart disease	---	---	---	459.7	328.2	241.4	192.3	156.2	151.3
Cerebrovascular diseases	186.4	186.1	157.4	102.2	68.5	62.4	48.4	39.9	39.3
Malignant neoplasms	208.1	225.1	247.6	271.2	280.4	248.9	227.2	210.9	209.9
Trachea, bronchus, and lung	24.6	43.6	67.5	85.2	91.1	76.7	69.1	61.4	60.3
Colon, rectum, and anus	---	31.8	32.3	32.8	30.4	25.1	21.2	19.1	19.0
Prostate	28.6	28.7	28.8	32.8	38.4	30.4	25.3	22.1	21.9
Chronic lower respiratory diseases	---	---	---	49.9	55.4	55.8	52.2	49.5	48.7
Influenza and pneumonia	55.0	65.8	54.0	42.1	47.8	28.9	24.9	19.6	18.2
Chronic liver disease and cirrhosis	15.0	18.5	24.8	21.3	15.9	13.4	12.4	12.5	12.9
Diabetes mellitus	18.8	19.9	23.0	18.1	21.7	27.8	28.8	25.0	24.9
Alzheimer's disease	---	---	---	†	†	15.2	19.5	20.2	21.0
Human immunodeficiency virus (HIV) disease . . . . .	...	...	...	...	18.5	7.9	6.3	4.4	3.8
Unintentional injuries	101.8	85.5	87.4	69.0	52.9	49.3	55.0	51.4	51.5
Motor vehicle-related injuries	38.5	35.4	41.5	33.6	26.5	21.7	21.9	16.8	16.2
Poisoning	3.3	2.3	3.9	2.7	3.5	6.6	10.8	13.5	13.8
Suicide ⁶	21.2	20.0	19.8	19.9	21.5	17.7	18.1	19.2	19.8
Homicide ⁶	7.9	7.5	14.3	16.6	14.8	9.0	9.7	8.6	8.4
Female									
All causes	1,236.0	1,105.3	971.4	817.9	750.9	731.4	692.3	636.8	634.9
Diseases of heart	486.6	447.0	381.6	320.8	257.0	210.9	177.5	146.6	143.3
Ischemic heart disease	---	---	---	263.1	193.9	146.5	115.0	88.4	84.9
Cerebrovascular diseases	175.8	170.7	140.0	91.7	62.6	59.1	47.0	38.8	38.3
Malignant neoplasms	182.3	168.7	163.2	166.7	175.7	167.6	156.7	147.4	146.7
Trachea, bronchus, and lung	5.8	7.5	13.1	24.4	37.1	41.3	40.6	38.6	38.1
Colon, rectum, and anus	---	29.1	26.5	23.8	20.6	17.7	15.0	13.5	13.3
Breast	31.9	31.7	32.1	31.9	33.3	26.8	24.2	22.3	22.1
Chronic lower respiratory diseases	---	---	---	14.9	26.6	37.4	38.7	38.3	38.0
Influenza and pneumonia	41.9	43.8	32.7	25.1	30.5	20.7	18.6	14.5	13.1
Chronic liver disease and cirrhosis	7.8	8.7	11.9	9.9	7.1	6.2	5.8	6.1	6.2
Diabetes mellitus	27.0	24.7	25.1	18.0	19.9	23.0	21.9	17.9	17.6
Alzheimer's disease	---	---	---	†	†	19.3	26.2	26.3	27.3
Human immunodeficiency virus (HIV) disease . . . . .	...	...	...	...	2.2	2.5	2.3	1.7	1.4
Unintentional injuries	54.0	40.0	35.1	26.1	21.5	22.0	25.3	24.8	25.6
Motor vehicle-related injuries	11.5	11.7	14.9	11.8	11.0	9.5	8.9	6.7	6.5
Poisoning	1.7	1.1	1.8	1.3	1.2	2.5	5.1	7.1	7.5
Suicide ⁶	5.6	5.6	7.4	5.7	4.8	4.0	4.4	4.9	5.0
Homicide ⁶	2.4	2.6	3.7	4.4	4.0	2.8	2.5	2.4	2.3

See footnotes at end of table.

Table 20 (page 2 of 4). Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950–2010

Updated data when available, Excel, PDF, and more data years: <http://www.cdc.gov/nchs/hus/contents2012.htm#020>.

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and cause of death</i> ¹	1950 ^{2,3}	1960 ^{2,3}	1970 ³	1980 ³	1990 ³	2000 ⁴	2005 ⁴	2009 ⁴	2010 ⁴
White ⁷									
Age-adjusted death rate per 100,000 population ⁵									
All causes	1,410.8	1,311.3	1,193.3	1,012.7	909.8	849.8	801.1	742.8	741.8
Diseases of heart	586.0	559.0	492.2	409.4	317.0	253.4	213.2	180.1	176.9
Ischemic heart disease	---	---	---	347.6	249.7	185.6	147.3	117.4	113.5
Cerebrovascular diseases	175.5	172.7	143.5	93.2	62.8	58.8	46.0	38.1	37.7
Malignant neoplasms	194.6	193.1	196.7	204.2	211.6	197.2	183.9	173.3	172.4
Trachea, bronchus, and lung	15.2	24.0	36.7	49.2	58.6	56.2	53.2	49.1	48.3
Colon, rectum, and anus	---	30.9	29.2	27.4	24.1	20.3	17.1	15.6	15.3
Chronic lower respiratory diseases	---	---	---	29.3	38.3	46.0	46.0	45.1	44.6
Influenza and pneumonia	44.8	50.4	39.8	30.9	36.4	23.5	20.9	16.3	14.9
Chronic liver disease and cirrhosis	11.5	13.2	16.6	13.9	10.5	9.6	9.2	9.6	9.9
Diabetes mellitus	22.9	21.7	22.9	16.7	18.8	22.8	22.8	19.2	19.0
Alzheimer's disease	---	---	---	†	†	18.8	24.7	25.0	26.0
Human immunodeficiency virus (HIV) disease	---	---	---	---	8.3	2.8	2.2	1.5	1.4
Unintentional injuries	77.0	60.4	57.8	45.3	35.5	35.1	40.7	39.5	40.3
Motor vehicle-related injuries	24.4	22.9	27.1	22.6	18.5	15.6	15.7	12.0	11.7
Poisoning	2.4	1.6	2.4	1.8	2.1	4.5	8.5	11.4	11.9
Suicide ⁶	13.9	13.1	13.8	13.0	13.4	11.3	12.1	13.2	13.6
Homicide ⁶	2.6	2.7	4.7	6.7	5.5	3.6	3.7	3.4	3.3
Black or African American ⁷									
All causes	1,722.1	1,577.5	1,518.1	1,314.8	1,250.3	1,121.4	1,035.1	912.8	898.2
Diseases of heart	588.7	548.3	512.0	455.3	391.5	324.8	278.0	231.8	224.9
Ischemic heart disease	---	---	---	334.5	267.0	218.3	175.7	137.4	131.2
Cerebrovascular diseases	233.6	235.2	197.1	129.1	91.6	81.9	67.0	54.0	53.0
Malignant neoplasms	176.4	199.1	225.3	256.4	279.5	248.5	223.5	204.5	203.8
Trachea, bronchus, and lung	11.1	23.7	41.3	59.7	72.4	64.0	58.1	51.3	51.4
Colon, rectum, and anus	---	22.8	26.1	28.3	30.6	28.2	25.1	22.0	21.8
Chronic lower respiratory diseases	---	---	---	19.2	28.1	31.6	31.1	28.9	29.0
Influenza and pneumonia	76.7	81.1	57.2	34.4	39.4	25.6	22.6	18.0	16.8
Chronic liver disease and cirrhosis	9.0	13.6	28.1	25.0	16.5	9.4	7.6	6.8	6.7
Diabetes mellitus	23.5	30.9	38.8	32.7	40.5	49.5	47.5	39.1	38.7
Alzheimer's disease	---	---	---	†	†	13.0	20.8	20.6	20.6
Human immunodeficiency virus (HIV) disease	---	---	---	---	26.7	23.3	19.2	13.7	11.6
Unintentional injuries	79.9	74.0	78.3	57.6	43.8	37.7	38.8	31.6	31.3
Motor vehicle-related injuries	26.0	24.2	31.1	20.2	18.8	15.7	14.4	11.5	10.9
Poisoning	2.8	2.9	5.8	3.1	4.1	6.0	8.1	7.4	7.3
Suicide ⁶	4.5	5.0	6.2	6.5	7.1	5.5	5.2	5.1	5.2
Homicide ⁶	28.3	26.0	44.0	39.0	36.3	20.5	21.1	18.1	17.7
American Indian or Alaska Native ⁷									
All causes	---	---	---	867.0	716.3	709.3	701.1	616.0	628.3
Diseases of heart	---	---	---	240.6	200.6	178.2	156.6	130.7	128.6
Ischemic heart disease	---	---	---	173.6	139.1	129.1	106.1	86.5	84.9
Cerebrovascular diseases	---	---	---	57.8	40.7	45.0	38.8	29.2	28.1
Malignant neoplasms	---	---	---	113.7	121.8	127.8	128.8	114.9	122.4
Trachea, bronchus, and lung	---	---	---	20.7	30.9	32.3	35.3	29.5	33.1
Colon, rectum, and anus	---	---	---	9.5	12.0	13.4	12.6	13.0	11.7
Chronic lower respiratory diseases	---	---	---	14.2	25.4	32.8	31.6	30.7	33.8
Influenza and pneumonia	---	---	---	44.4	36.1	22.3	23.6	17.9	15.9
Chronic liver disease and cirrhosis	---	---	---	45.3	24.1	24.3	21.6	21.3	22.8
Diabetes mellitus	---	---	---	29.6	34.1	41.5	44.1	34.9	36.4
Alzheimer's disease	---	---	---	†	†	9.1	15.0	13.1	17.2
Human immunodeficiency virus (HIV) disease	---	---	---	---	1.8	2.2	2.5	1.7	1.6
Unintentional injuries	---	---	---	99.0	62.6	51.3	51.3	48.7	46.9
Motor vehicle-related injuries	---	---	---	54.5	32.5	27.3	22.6	17.2	15.7
Poisoning	---	---	---	2.3	3.2	4.7	8.6	13.8	13.0
Suicide ⁶	---	---	---	11.9	11.7	9.8	10.7	10.0	10.8
Homicide ⁶	---	---	---	15.5	10.4	6.8	6.8	5.9	5.7

See footnotes at end of table.

Table 20 (page 3 of 4). Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950–2010

Updated data when available, Excel, PDF, and more data years: <http://www.cdc.gov/nchs/hus/contents2012.htm#020>.

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and cause of death</i> ¹	1950 ^{2,3}	1960 ^{2,3}	1970 ³	1980 ³	1990 ³	2000 ⁴	2005 ⁴	2009 ⁴	2010 ⁴
Asian or Pacific Islander⁷									
Age-adjusted death rate per 100,000 population ⁵									
All causes	---	---	---	589.9	582.0	506.4	459.6	424.6	424.3
Diseases of heart	---	---	---	202.1	181.7	146.0	119.7	103.8	100.9
Ischemic heart disease	---	---	---	168.2	139.6	109.6	85.6	70.7	68.7
Cerebrovascular diseases	---	---	---	66.1	56.9	52.9	40.8	33.0	33.2
Malignant neoplasms	---	---	---	126.1	134.2	121.9	113.2	106.8	108.9
Trachea, bronchus, and lung	---	---	---	28.4	30.2	28.1	26.3	25.2	24.8
Colon, rectum, and anus	---	---	---	16.4	14.4	12.7	11.5	10.5	11.4
Chronic lower respiratory diseases	---	---	---	12.9	19.4	18.6	15.9	14.3	13.9
Influenza and pneumonia	---	---	---	24.0	31.4	19.7	16.8	15.0	14.4
Chronic liver disease and cirrhosis	---	---	---	6.1	5.2	3.5	3.6	3.3	3.2
Diabetes mellitus	---	---	---	12.6	14.6	16.4	17.3	16.2	15.5
Alzheimer's disease	---	---	---	†	†	5.5	8.5	10.9	10.9
Human immunodeficiency virus (HIV) disease	---	---	---	...	2.2	0.6	0.6	0.4	0.4
Unintentional injuries	---	---	---	27.0	23.9	17.9	18.1	14.9	15.0
Motor vehicle-related injuries	---	---	---	13.9	14.0	8.6	7.5	4.9	5.1
Poisoning	---	---	---	0.5	0.7	0.7	1.3	1.5	1.4
Suicide ⁶	---	---	---	7.8	6.7	5.5	5.1	5.9	6.2
Homicide ⁶	---	---	---	5.9	5.0	3.0	2.8	2.0	1.8
Hispanic or Latino^{7,8}									
All causes	---	---	---	---	692.0	665.7	627.6	559.7	558.6
Diseases of heart	---	---	---	---	217.1	196.0	170.4	135.8	132.8
Ischemic heart disease	---	---	---	---	173.3	153.2	127.9	94.7	92.3
Cerebrovascular diseases	---	---	---	---	45.2	46.4	38.6	32.2	32.1
Malignant neoplasms	---	---	---	---	136.8	134.9	127.9	119.7	119.7
Trachea, bronchus, and lung	---	---	---	---	26.5	24.8	23.3	20.4	20.4
Colon, rectum, and anus	---	---	---	---	14.7	14.1	13.1	12.7	12.3
Chronic lower respiratory diseases	---	---	---	---	19.3	21.1	20.9	19.8	19.6
Influenza and pneumonia	---	---	---	---	29.7	20.6	18.5	15.6	13.7
Chronic liver disease and cirrhosis	---	---	---	---	18.3	16.5	14.1	14.0	13.7
Diabetes mellitus	---	---	---	---	28.2	36.9	35.4	27.0	27.1
Alzheimer's disease	---	---	---	---	†	10.4	15.6	16.9	18.5
Human immunodeficiency virus (HIV) disease	---	---	---	---	16.3	6.7	4.8	3.2	2.8
Unintentional injuries	---	---	---	---	34.6	30.1	31.8	26.3	25.8
Motor vehicle-related injuries	---	---	---	---	19.5	14.7	14.6	10.1	9.6
Poisoning	---	---	---	---	3.2	4.1	5.2	5.8	5.6
Suicide ⁶	---	---	---	---	7.8	5.9	5.6	5.8	5.9
Homicide ⁶	---	---	---	---	16.2	7.5	7.4	6.0	5.3
White, not Hispanic or Latino⁸									
All causes	---	---	---	---	914.5	855.5	810.1	755.1	755.0
Diseases of heart	---	---	---	---	319.7	255.5	215.5	182.9	179.9
Ischemic heart disease	---	---	---	---	251.9	186.6	148.3	118.9	115.0
Cerebrovascular diseases	---	---	---	---	63.5	59.0	46.2	38.3	37.8
Malignant neoplasms	---	---	---	---	215.4	200.6	187.8	177.4	176.5
Trachea, bronchus, and lung	---	---	---	---	60.3	58.2	55.5	51.6	50.8
Colon, rectum, and anus	---	---	---	---	24.6	20.5	17.4	15.8	15.5
Chronic lower respiratory diseases	---	---	---	---	39.2	47.2	47.7	47.1	46.6
Influenza and pneumonia	---	---	---	---	36.5	23.5	21.0	16.2	14.9
Chronic liver disease and cirrhosis	---	---	---	---	9.9	9.0	8.7	9.1	9.4
Diabetes mellitus	---	---	---	---	18.3	21.8	21.8	18.5	18.2
Alzheimer's disease	---	---	---	---	†	19.1	25.1	25.4	26.4
Human immunodeficiency virus (HIV) disease	---	---	---	---	7.4	2.2	1.8	1.2	1.1
Unintentional injuries	---	---	---	---	35.0	35.3	41.5	41.3	42.4
Motor vehicle-related injuries	---	---	---	---	18.2	15.6	15.7	12.2	11.9
Poisoning	---	---	---	---	2.0	4.6	9.1	12.6	13.3
Suicide ⁶	---	---	---	---	13.8	12.0	13.0	14.5	15.0
Homicide ⁶	---	---	---	---	4.0	2.8	2.7	2.6	2.5

See footnotes at end of table.

Table 20 (page 4 of 4). Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950–2010

Updated data when available, Excel, PDF, and more data years: <http://www.cdc.gov/nchs/hus/contents2012.htm#020>.

[Data are based on death certificates]

-- Data not available.

[†] Data for Alzheimer's disease are only presented for data years 1999 and beyond due to large differences in death rates caused by changes in the coding of the causes of death between ICD-9 and ICD-10. See [Appendix II, Cause of death](#); [Comparability ratio](#); [Table IV](#); [Table V](#).

... Category not applicable.

¹ Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases* (ICD) for data years shown. See [Appendix II, Cause of death](#); [Table III](#); [Table IV](#).

² Includes deaths of persons who were not residents of the 50 states and the District of Columbia (D.C.).

³ Underlying cause of death was coded according to the 6th Revision of the ICD in 1950, 7th Revision in 1960, 8th Revision in 1970, and 9th Revision in 1980–1998. See [Appendix II, Cause of death](#); [Table III](#); [Table IV](#).

⁴ Starting with 1999 data, cause of death is coded according to ICD-10. See [Appendix II, Cause of death](#); [Comparability ratio](#); [Table IV](#); [Table V](#).

⁵ 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, unrounded population numbers are used to calculate age-adjusted rates. See [Appendix II, Age adjustment](#).

⁶ Figures for 2001 (in Excel spreadsheet on the Web) include September 11-related deaths for which death certificates were filed as of October 24, 2002. See [Appendix II, Cause of death](#); [Table IV](#) for terrorism-related ICD-10 codes.

⁷ 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 the American Indian or Alaska Native, Asian or Pacific Islander, and Hispanic 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.

⁸ 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 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 were revised using intercensal population estimates based on the 2000 and 2010 censuses. For 2010, population estimates are bridged-race April 1 census counts. 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 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; Murphy SL, Xu JQ, Kochanek KD. Deaths: Final data for 2010. National vital statistics reports; vol 61 no 4. Hyattsville, MD: NCHS; 2012. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61_04.pdf. See [Appendix I, National Vital Statistics System \(NVSS\)](#).