

**Table 37. Death rates for motor vehicle-related injuries, by sex, race, Hispanic origin, and age: United States, selected years 1950-2010**

(Data are based on death certificates)

Sex, race, Hispanic origin, and age	1950 <sup>1,2</sup>	1960 <sup>1,2</sup>	1970 <sup>2</sup>	1980 <sup>2</sup>	1990 <sup>2</sup>	2000 <sup>3</sup>	2005 <sup>3</sup>	2009 <sup>3</sup>	2010 <sup>3</sup>
All persons									
Deaths per 100,000 resident population									
All ages, age-adjusted <sup>4</sup> .....	24.6	23.1	27.6	22.3	18.5	15.4	15.2	11.6	11.3
All ages, crude.....	23.1	21.3	26.9	23.5	18.8	15.4	15.3	11.8	11.4
Under 1 year.....	8.4	8.1	9.8	7.0	4.9	4.4	3.6	2.4	2.0
1-14 years.....	9.8	8.6	10.5	8.2	6.0	4.3	3.7	2.5	2.3
1-4 years.....	11.5	10.0	11.5	9.2	6.3	4.2	3.9	2.9	2.8
5-14 years.....	8.8	7.9	10.2	7.9	5.9	4.3	3.6	2.4	2.2
15-24 years.....	34.4	38.0	47.2	44.8	34.1	26.9	25.7	17.6	16.6
15-19 years.....	29.6	33.9	43.6	43.0	33.1	26.0	23.1	15.2	13.6
20-24 years.....	38.8	42.9	51.3	46.6	35.0	28.0	28.3	20.2	19.7
25-34 years.....	24.6	24.3	30.9	29.1	23.6	17.3	18.4	14.5	14.0
35-44 years.....	20.3	19.3	24.9	20.9	16.9	15.3	15.5	12.2	11.6
45-64 years.....	25.2	23.0	26.5	18.0	15.7	14.3	14.8	12.2	11.9
45-54 years.....	22.2	21.4	25.5	18.6	15.6	14.2	15.1	12.7	12.0
55-64 years.....	29.0	25.1	27.9	17.4	15.9	14.4	14.5	11.5	11.9
65 years and over.....	43.1	34.7	36.2	22.5	23.1	21.4	20.1	15.8	16.0
65-74 years.....	39.1	31.4	32.8	19.2	18.6	16.5	16.5	12.7	12.3
75-84 years.....	52.7	41.8	43.5	28.1	29.1	25.7	22.9	18.6	18.8
85 years and over.....	45.1	37.9	34.2	27.6	31.2	30.4	27.3	20.9	23.8
Male									
All ages, age-adjusted <sup>4</sup> .....	38.5	35.4	41.5	33.6	26.5	21.7	21.9	16.8	16.2
All ages, crude.....	35.4	31.8	39.7	35.3	26.7	21.3	21.8	16.9	16.3
Under 1 year.....	9.1	8.6	9.3	7.3	5.0	4.6	3.6	2.6	2.2
1-14 years.....	12.3	10.7	13.0	10.0	7.0	4.9	4.1	2.9	2.7
1-4 years.....	13.0	11.5	12.9	10.2	6.9	4.7	4.3	3.4	3.0
5-14 years.....	11.9	10.4	13.1	9.9	7.0	5.0	4.1	2.7	2.5
15-24 years.....	56.7	61.2	73.2	68.4	49.5	37.4	36.3	24.5	23.1
15-19 years.....	46.3	51.7	64.1	62.6	45.5	33.9	29.9	19.2	17.8
20-24 years.....	66.7	73.2	84.4	74.3	53.3	41.2	42.8	30.0	28.5
25-34 years.....	40.8	40.1	49.4	46.3	35.7	25.5	27.9	21.7	21.0
35-44 years.....	32.5	29.9	37.7	31.7	24.7	22.0	22.5	18.2	16.9
45-64 years.....	37.7	33.3	38.9	26.5	21.9	20.2	21.6	18.2	17.9
45-54 years.....	33.6	31.6	37.2	27.6	22.0	20.4	22.2	19.0	17.9
55-64 years.....	43.1	35.6	40.9	25.4	21.7	19.8	20.7	17.2	17.8
65 years and over.....	66.6	52.1	54.4	33.9	32.1	29.5	28.4	22.0	22.2
65-74 years.....	59.1	45.8	47.3	27.3	24.2	21.7	22.8	17.5	17.1
75-84 years.....	85.0	66.0	68.2	44.3	41.2	35.6	32.1	25.8	25.9
85 years and over.....	78.1	62.7	63.1	56.1	64.5	57.5	49.0	35.3	40.2
Female									
All ages, age-adjusted <sup>4</sup> .....	11.5	11.7	14.9	11.8	11.0	9.5	8.9	6.7	6.5
All ages, crude.....	10.9	11.0	14.7	12.3	11.3	9.7	9.1	6.9	6.8
Under 1 year.....	7.6	7.5	10.4	6.7	4.9	4.2	3.7	2.1	1.8

1-14 years.....	7.2	6.3	7.9	6.3	4.9	3.7	3.1	2.2	2.0
1-4 years.....	10.0	8.4	10.0	8.1	5.6	3.8	3.4	2.5	2.5
5-14 years.....	5.7	5.4	7.2	5.7	4.7	3.6	3.0	2.0	1.8
15-24 years.....	12.6	15.1	21.6	20.8	17.9	15.9	14.5	10.5	9.9
15-19 years.....	12.9	16.0	22.7	22.8	20.0	17.5	15.9	10.9	9.2
20-24 years.....	12.2	14.0	20.4	18.9	16.0	14.2	13.2	10.0	10.5
25-34 years.....	9.3	9.2	13.0	12.2	11.5	8.8	8.9	7.2	6.9
35-44 years.....	8.5	9.1	12.9	10.4	9.2	8.8	8.6	6.2	6.2
45-64 years.....	12.6	13.1	15.3	10.3	10.1	8.7	8.4	6.5	6.3
45-54 years.....	10.9	11.6	14.5	10.2	9.6	8.2	8.2	6.6	6.3
55-64 years.....	14.9	15.2	16.2	10.5	10.8	9.5	8.8	6.3	6.3
65 years and over.....	21.9	20.3	23.1	15.0	17.2	15.8	14.1	11.1	11.3
65-74 years.....	20.6	19.0	21.6	13.0	14.1	12.3	11.1	8.5	8.2
75-84 years.....	25.2	23.0	27.2	18.5	21.9	19.2	16.5	13.5	13.7
85 years and over.....	22.1	22.0	18.0	15.2	18.3	19.3	17.6	14.0	15.9

White male<sup>5</sup>

All ages, age-adjusted <sup>4</sup> .....	37.9	34.8	40.4	33.8	26.3	21.8	22.4	17.3	16.7
All ages, crude.....	35.1	31.5	39.1	35.9	26.7	21.6	22.5	17.5	17.0
Under 1 year.....	9.1	8.8	9.1	7.0	4.8	4.2	3.4	2.5	2.0
1-14 years.....	12.4	10.6	12.5	9.8	6.6	4.8	4.1	2.8	2.7
15-24 years.....	58.3	62.7	75.2	73.8	52.5	39.6	39.2	26.6	24.6
25-34 years.....	39.1	38.6	47.0	46.6	35.4	25.1	28.4	21.8	21.4
35-44 years.....	30.9	28.4	35.2	30.7	23.7	21.8	22.8	18.5	17.4
45-64 years.....	36.2	31.7	36.5	25.2	20.6	19.7	21.7	18.7	18.3
65 years and over.....	67.1	52.1	54.2	32.7	31.4	29.4	28.7	22.3	22.7

Black or African American male<sup>5</sup>

All ages, age-adjusted <sup>4</sup> .....	34.8	39.6	51.0	34.2	29.9	24.4	22.5	17.8	16.7
All ages, crude.....	37.2	33.1	44.3	31.1	28.1	22.5	21.1	16.7	15.9
Under 1 year.....	---	*	10.6	7.8	*	6.7	*	*	*
1-14 years <sup>6</sup> .....	10.4	11.2	16.3	11.4	8.9	5.5	4.4	3.5	3.0
15-24 years.....	42.5	46.4	58.1	34.9	36.1	30.2	27.8	18.5	19.4
25-34 years.....	54.4	51.0	70.4	44.9	39.5	32.6	32.1	26.9	24.9
35-44 years.....	46.7	43.6	59.5	41.2	33.5	27.2	25.8	21.9	19.4
45-64 years.....	54.6	47.8	61.7	39.5	33.3	27.1	24.1	19.3	19.1
65 years and over.....	52.6	48.2	53.4	42.4	36.3	32.1	29.1	22.8	20.0

American Indian or  
Alaska Native male<sup>5</sup>

All ages, age-adjusted <sup>4</sup> .....	---	---	---	78.9	48.3	35.8	31.5	22.7	21.1
All ages, crude.....	---	---	---	74.6	47.6	33.6	31.3	22.0	19.8
1-14 years.....	---	---	---	15.1	11.6	7.8	9.6	4.8	*
15-24 years.....	---	---	---	126.1	75.2	56.8	44.1	35.2	31.9
25-34 years.....	---	---	---	107.0	78.2	49.8	49.0	29.3	23.8
35-44 years.....	---	---	---	82.8	57.0	36.3	36.9	28.5	24.5
45-64 years.....	---	---	---	77.4	45.9	32.0	31.9	22.8	23.2
65 years and over.....	---	---	---	97.0	43.0	48.5	27.8	22.2	26.6

Asian or  
Pacific Islander male<sup>5</sup>

All ages, age-adjusted <sup>4</sup> .....	---	---	---	19.0	17.9	10.6	9.5	6.2	6.5
All ages, crude.....	---	---	---	17.1	15.8	9.8	8.7	5.8	6.2
1-14 years.....	---	---	---	8.2	6.3	2.5	1.7	1.5	*
15-24 years.....	---	---	---	27.2	25.7	17.0	14.5	8.8	9.6
25-34 years.....	---	---	---	18.8	17.0	10.4	8.9	7.3	7.8
35-44 years.....	---	---	---	13.1	12.2	6.9	6.6	4.5	4.1
45-64 years.....	---	---	---	13.7	15.1	10.1	9.0	5.6	6.0
65 years and over.....	---	---	---	37.3	33.6	21.1	20.8	11.9	14.6

Hispanic or Latino male<sup>5,7</sup>

All ages, age-adjusted <sup>4</sup> .....	---	---	---	---	29.5	21.3	21.4	14.7	14.0
All ages, crude.....	---	---	---	---	29.2	20.1	20.8	14.2	12.8
1-14 years.....	---	---	---	---	7.2	4.4	4.6	3.0	2.5
15-24 years.....	---	---	---	---	48.2	34.7	37.6	24.1	20.2
25-34 years.....	---	---	---	---	41.0	24.9	28.0	20.1	18.0
35-44 years.....	---	---	---	---	28.0	21.6	20.9	15.5	13.9
45-64 years.....	---	---	---	---	28.9	21.7	20.2	14.4	14.3
65 years and over.....	---	---	---	---	35.3	28.9	27.6	16.9	20.7

White, not Hispanic  
or Latino male<sup>7</sup>

All ages, age-adjusted <sup>4</sup> .....	---	---	---	---	25.7	21.7	22.2	17.4	17.1
All ages, crude.....	---	---	---	---	26.0	21.5	22.5	17.9	17.6
1-14 years.....	---	---	---	---	6.4	4.9	3.9	2.6	2.7
15-24 years.....	---	---	---	---	52.3	40.3	38.8	26.6	25.4
25-34 years.....	---	---	---	---	34.0	24.7	27.8	21.8	21.9
35-44 years.....	---	---	---	---	23.1	21.6	22.9	18.9	18.0
45-64 years.....	---	---	---	---	19.8	19.3	21.7	19.0	18.6
65 years and over.....	---	---	---	---	31.1	29.3	28.6	22.6	22.7

White female<sup>5</sup>

All ages, age-adjusted <sup>4</sup> .....	11.4	11.7	14.9	12.2	11.2	9.8	9.3	6.9	6.8
All ages, crude.....	10.9	11.2	14.8	12.8	11.6	10.0	9.6	7.2	7.1
Under 1 year.....	7.8	7.5	10.2	7.1	4.7	3.5	3.0	1.5	1.9
1-14 years.....	7.2	6.2	7.5	6.2	4.8	3.7	3.2	2.1	2.1
15-24 years.....	12.6	15.6	22.7	23.0	19.5	17.1	15.7	11.3	10.8
25-34 years.....	9.0	9.0	12.7	12.2	11.6	8.9	9.4	7.4	7.1
35-44 years.....	8.1	8.9	12.3	10.6	9.2	8.9	9.0	6.5	6.5
45-64 years.....	12.7	13.1	15.1	10.4	9.9	8.7	8.6	6.6	6.4
65 years and over.....	22.2	20.8	23.7	15.3	17.4	16.2	14.5	11.4	11.5

Black or African American female<sup>5</sup>

All ages, age-adjusted <sup>4</sup> .....	9.3	10.4	14.1	8.5	9.6	8.4	7.6	6.2	5.9
All ages, crude.....	10.2	9.7	13.4	8.3	9.4	8.2	7.5	6.1	5.8

Under 1 year.....	---	8.1	11.9	*	7.0	*	6.9	*	*
1-14 years <sup>6</sup> .....	7.2	6.9	10.2	6.3	5.3	3.9	3.4	2.6	2.0
15-24 years.....	11.6	9.9	13.4	8.0	9.9	11.7	10.5	8.1	7.8
25-34 years.....	10.8	9.8	13.3	10.6	11.1	9.4	7.6	7.6	6.8
35-44 years.....	11.1	11.0	16.1	8.3	9.4	8.2	7.7	6.0	5.8
45-64 years.....	11.8	12.7	16.7	9.2	10.7	9.0	8.2	6.5	6.3
65 years and over.....	14.3	13.2	15.7	9.5	13.5	10.4	9.9	7.9	8.6

American Indian or  
Alaska Native female<sup>5</sup>

All ages, age-adjusted <sup>4</sup> .....	---	---	---	32.0	17.5	19.5	14.0	11.8	10.6
All ages, crude.....	---	---	---	32.0	17.3	18.6	13.8	11.7	10.0
1-14 years.....	---	---	---	15.0	8.1	6.5	*	*	*
15-24 years.....	---	---	---	42.3	31.4	30.3	22.0	19.8	13.4
25-34 years.....	---	---	---	52.5	18.8	22.3	22.1	13.8	17.7
35-44 years.....	---	---	---	38.1	18.2	22.0	15.7	16.9	13.1
45-64 years.....	---	---	---	32.6	17.6	17.8	10.6	11.7	8.4
65 years and over.....	---	---	---	*	*	24.0	*	*	14.8

Asian or  
Pacific Islander female<sup>5</sup>

All ages, age-adjusted <sup>4</sup> .....	---	---	---	9.3	10.4	6.7	5.7	3.8	3.9
All ages, crude.....	---	---	---	8.2	9.0	5.9	5.3	3.5	3.6
1-14 years.....	---	---	---	7.4	3.6	2.3	1.5	1.5	*
15-24 years.....	---	---	---	7.4	11.4	6.0	7.0	4.3	3.3
25-34 years.....	---	---	---	7.3	7.3	4.5	3.4	2.9	3.1
35-44 years.....	---	---	---	8.6	7.5	4.9	4.3	2.1	2.0
45-64 years.....	---	---	---	8.5	11.8	6.4	6.4	3.0	4.3
65 years and over.....	---	---	---	18.6	24.3	18.5	13.9	11.4	12.2

Hispanic or Latina female<sup>5,7</sup>

All ages, age-adjusted <sup>4</sup> .....	---	---	---	---	9.6	7.9	7.8	5.5	5.3
All ages, crude.....	---	---	---	---	8.9	7.2	7.3	5.1	4.9
1-14 years.....	---	---	---	---	4.8	3.9	3.3	2.3	2.0
15-24 years.....	---	---	---	---	11.6	10.6	12.7	7.8	7.7
25-34 years.....	---	---	---	---	9.4	6.5	7.1	5.5	5.0
35-44 years.....	---	---	---	---	8.0	7.3	7.3	4.6	4.5
45-64 years.....	---	---	---	---	11.4	8.3	7.4	5.5	5.6
65 years and over.....	---	---	---	---	14.9	13.4	11.4	9.5	9.4

White, not Hispanic  
or Latina female<sup>7</sup>

All ages, age-adjusted <sup>4</sup> .....	---	---	---	---	11.3	10.0	9.5	7.1	7.0
All ages, crude.....	---	---	---	---	11.7	10.3	9.9	7.5	7.5
1-14 years.....	---	---	---	---	4.7	3.5	3.0	1.9	2.0
15-24 years.....	---	---	---	---	20.4	18.4	16.3	12.0	11.4
25-34 years.....	---	---	---	---	11.7	9.3	9.9	7.7	7.6
35-44 years.....	---	---	---	---	9.3	9.0	9.2	6.8	6.9

45-64 years.....	---	---	---	---	9.7	8.7	8.6	6.7	6.4
65 years and over.....	---	---	---	---	17.5	16.3	14.7	11.5	11.6

---Data not available.

\*Rates based on fewer than 20 deaths are considered unreliable and are not shown.

<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>Underlying cause of death was coded according to the 6th Revision of the International Classification of Diseases (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.

<sup>3</sup>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.

<sup>4</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, unrounded population numbers are used to calculate age-adjusted rates.

See Appendix II, Age adjustment.

<sup>5</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 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.

<sup>6</sup>In 1950, rate is for the age group under 15 years.

<sup>7</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 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.

Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups.

For additional injury-related statistics, see Web-based Injury Statistics Query and Reporting System, available from: <http://www.cdc.gov/injury/wisqars/index.html>.

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](http://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61_04.pdf).

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

*Health, United States 2011 web updates*