

**Table 28. Death rates for motor vehicle-related injuries, 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#028>.

[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>	2010 <sup>3</sup>	2015 <sup>3</sup>	2016 <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	11.3	11.4	12.1
All ages, crude	23.1	21.3	26.9	23.5	18.8	15.4	11.4	11.7	12.5
Under 1 year	8.4	8.1	9.8	7.0	4.9	4.4	2.0	1.8	2.3
1–14 years	9.8	8.6	10.5	8.2	6.0	4.3	2.3	2.2	2.4
1–4 years	11.5	10.0	11.5	9.2	6.3	4.2	2.8	2.6	2.6
5–14 years	8.8	7.9	10.2	7.9	5.9	4.3	2.2	2.1	2.3
15–24 years	34.4	38.0	47.2	44.8	34.1	26.9	16.6	15.9	16.6
15–19 years	29.6	33.9	43.6	43.0	33.1	26.0	13.6	12.4	12.7
20–24 years	38.8	42.9	51.3	46.6	35.0	28.0	19.7	19.2	20.2
25–34 years	24.6	24.3	30.9	29.1	23.6	17.3	14.0	14.7	16.1
35–44 years	20.3	19.3	24.9	20.9	16.9	15.3	11.6	11.9	12.9
45–64 years	25.2	23.0	26.5	18.0	15.7	14.3	11.9	12.8	13.5
45–54 years	22.2	21.4	25.5	18.6	15.6	14.2	12.0	12.8	13.4
55–64 years	29.0	25.1	27.9	17.4	15.9	14.4	11.9	12.7	13.6
65 years and over	43.1	34.7	36.2	22.5	23.1	21.4	16.0	15.3	16.0
65–74 years	39.1	31.4	32.8	19.2	18.6	16.5	12.3	12.8	13.3
75–84 years	52.7	41.8	43.5	28.1	29.1	25.7	18.8	17.5	18.9
85 years and over	45.1	37.9	34.2	27.6	31.2	30.4	23.8	21.7	21.8
Male									
All ages, age-adjusted <sup>4</sup>	38.5	35.4	41.5	33.6	26.5	21.7	16.2	16.7	17.6
All ages, crude	35.4	31.8	39.7	35.3	26.7	21.3	16.3	17.0	18.0
Under 1 year	9.1	8.6	9.3	7.3	5.0	4.6	2.2	2.2	2.1
1–14 years	12.3	10.7	13.0	10.0	7.0	4.9	2.7	2.5	2.6
1–4 years	13.0	11.5	12.9	10.2	6.9	4.7	3.0	2.9	2.7
5–14 years	11.9	10.4	13.1	9.9	7.0	5.0	2.5	2.4	2.6
15–24 years	56.7	61.2	73.2	68.4	49.5	37.4	23.1	22.2	22.9
15–19 years	46.3	51.7	64.1	62.6	45.5	33.9	17.8	16.3	16.5
20–24 years	66.7	73.2	84.4	74.3	53.3	41.2	28.5	27.7	29.0
25–34 years	40.8	40.1	49.4	46.3	35.7	25.5	21.0	21.8	23.5
35–44 years	32.5	29.9	37.7	31.7	24.7	22.0	16.9	17.9	19.4
45–64 years	37.7	33.3	38.9	26.5	21.9	20.2	17.9	19.4	20.4
45–54 years	33.6	31.6	37.2	27.6	22.0	20.4	17.9	19.1	19.8
55–64 years	43.1	35.6	40.9	25.4	21.7	19.8	17.8	19.8	21.1
65 years and over	66.6	52.1	54.4	33.9	32.1	29.5	22.2	22.1	23.4
65–74 years	59.1	45.8	47.3	27.3	24.2	21.7	17.1	18.5	19.4
75–84 years	85.0	66.0	68.2	44.3	41.2	35.6	25.9	24.9	27.1
85 years and over	78.1	62.7	63.1	56.1	64.5	57.5	40.2	35.6	36.7
Female									
All ages, age-adjusted <sup>4</sup>	11.5	11.7	14.9	11.8	11.0	9.5	6.5	6.4	6.9
All ages, crude	10.9	11.0	14.7	12.3	11.3	9.7	6.8	6.7	7.1
Under 1 year	7.6	7.5	10.4	6.7	4.9	4.2	1.8	1.3	2.5
1–14 years	7.2	6.3	7.9	6.3	4.9	3.7	2.0	1.9	2.1
1–4 years	10.0	8.4	10.0	8.1	5.6	3.8	2.5	2.3	2.5
5–14 years	5.7	5.4	7.2	5.7	4.7	3.6	1.8	1.8	2.0
15–24 years	12.6	15.1	21.6	20.8	17.9	15.9	9.9	9.3	9.9
15–19 years	12.9	16.0	22.7	22.8	20.0	17.5	9.2	8.4	8.8
20–24 years	12.2	14.0	20.4	18.9	16.0	14.2	10.5	10.2	10.8

**Table 28. Death rates for motor vehicle-related injuries, 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#028>.

[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>	2010 <sup>3</sup>	2015 <sup>3</sup>	2016 <sup>3</sup>
Deaths per 100,000 resident population									
Female—Con.									
25–34 years	9.3	9.2	13.0	12.2	11.5	8.8	6.9	7.5	8.5
35–44 years	8.5	9.1	12.9	10.4	9.2	8.8	6.2	6.1	6.5
45–64 years	12.6	13.1	15.3	10.3	10.1	8.7	6.3	6.4	6.9
45–54 years	10.9	11.6	14.5	10.2	9.6	8.2	6.3	6.7	7.1
55–64 years	14.9	15.2	16.2	10.5	10.8	9.5	6.3	6.1	6.6
65 years and over	21.9	20.3	23.1	15.0	17.2	15.8	11.3	10.0	10.2
65–74 years	20.6	19.0	21.6	13.0	14.1	12.3	8.2	7.8	8.0
75–84 years	25.2	23.0	27.2	18.5	21.9	19.2	13.7	11.9	12.6
85 years and over	22.1	22.0	18.0	15.2	18.3	19.3	15.9	14.4	13.8
White male <sup>5</sup>									
All ages, age-adjusted <sup>4</sup>	37.9	34.8	40.4	33.8	26.3	21.8	16.7	17.0	17.8
All ages, crude	35.1	31.5	39.1	35.9	26.7	21.6	17.0	17.4	18.4
Under 1 year	9.1	8.8	9.1	7.0	4.8	4.2	2.0	1.9	1.6
1–14 years	12.4	10.6	12.5	9.8	6.6	4.8	2.7	2.5	2.5
15–24 years	58.3	62.7	75.2	73.8	52.5	39.6	24.6	23.3	23.9
25–34 years	39.1	38.6	47.0	46.6	35.4	25.1	21.4	22.1	23.7
35–44 years	30.9	28.4	35.2	30.7	23.7	21.8	17.4	18.0	19.2
45–64 years	36.2	31.7	36.5	25.2	20.6	19.7	18.3	19.5	20.7
65 years and over	67.1	52.1	54.2	32.7	31.4	29.4	22.7	22.7	23.7
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	16.7	19.1	20.9
All ages, crude	37.2	33.1	44.3	31.1	28.1	22.5	15.9	18.7	20.3
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	3.0	3.2	3.3
15–24 years	42.5	46.4	58.1	34.9	36.1	30.2	19.4	21.8	23.0
25–34 years	54.4	51.0	70.4	44.9	39.5	32.6	24.9	26.7	30.2
35–44 years	46.7	43.6	59.5	41.2	33.5	27.2	19.4	23.7	27.2
45–64 years	54.6	47.8	61.7	39.5	33.3	27.1	19.1	24.5	23.8
65 years and over	52.6	48.2	53.4	42.4	36.3	32.1	20.0	19.6	24.7
American Indian or Alaska Native male <sup>5</sup>									
All ages, age-adjusted <sup>4</sup>	---	---	---	78.9	48.3	35.8	21.1	22.8	24.5
All ages, crude	---	---	---	74.6	47.6	33.6	19.8	22.1	23.5
1–14 years	---	---	---	15.1	11.6	7.8	*	4.4	5.7
15–24 years	---	---	---	126.1	75.2	56.8	31.9	24.9	29.2
25–34 years	---	---	---	107.0	78.2	49.8	23.8	32.4	31.5
35–44 years	---	---	---	82.8	57.0	36.3	24.5	30.3	29.7
45–64 years	---	---	---	77.4	45.9	32.0	23.2	26.6	29.6
65 years and over	---	---	---	97.0	43.0	48.5	26.6	26.3	26.0
Asian or Pacific Islander male <sup>5</sup>									
All ages, age-adjusted <sup>4</sup>	---	---	---	19.0	17.9	10.6	6.5	6.3	6.9
All ages, crude	---	---	---	17.1	15.8	9.8	6.2	6.1	6.6
1–14 years	---	---	---	8.2	6.3	2.5	*	*	1.4
15–24 years	---	---	---	27.2	25.7	17.0	9.6	9.7	9.1
25–34 years	---	---	---	18.8	17.0	10.4	7.8	6.7	6.3

**Table 28. Death rates for motor vehicle-related injuries, 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#028>.

[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>	2010 <sup>3</sup>	2015 <sup>3</sup>	2016 <sup>3</sup>
Deaths per 100,000 resident population									
Asian or Pacific Islander male <sup>5</sup> —Con.									
35–44 years	---	---	---	13.1	12.2	6.9	4.1	3.8	5.9
45–64 years	---	---	---	13.7	15.1	10.1	6.0	6.4	7.0
65 years and over	---	---	---	37.3	33.6	21.1	14.6	13.5	14.5
Hispanic or Latino male <sup>5,7</sup>									
All ages, age-adjusted <sup>4</sup>	---	---	---	---	29.5	21.3	14.0	15.2	16.1
All ages, crude	---	---	---	---	29.2	20.1	12.8	14.4	15.3
1–14 years	---	---	---	---	7.2	4.4	2.5	2.6	2.3
15–24 years	---	---	---	---	48.2	34.7	20.2	22.8	23.7
25–34 years	---	---	---	---	41.0	24.9	18.0	21.2	23.9
35–44 years	---	---	---	---	28.0	21.6	13.9	14.8	15.4
45–64 years	---	---	---	---	28.9	21.7	14.3	15.9	17.5
65 years and over	---	---	---	---	35.3	28.9	20.7	20.1	20.5
White, not Hispanic or Latino male <sup>7</sup>									
All ages, age-adjusted <sup>4</sup>	---	---	---	---	25.7	21.7	17.1	17.0	17.9
All ages, crude	---	---	---	---	26.0	21.5	17.6	17.9	18.9
1–14 years	---	---	---	---	6.4	4.9	2.7	2.4	2.6
15–24 years	---	---	---	---	52.3	40.3	25.4	22.8	23.3
25–34 years	---	---	---	---	34.0	24.7	21.9	21.7	23.1
35–44 years	---	---	---	---	23.1	21.6	18.0	18.6	20.0
45–64 years	---	---	---	---	19.8	19.3	18.6	19.8	21.0
65 years and over	---	---	---	---	31.1	29.3	22.7	22.8	23.8
Black, not Hispanic or Latino male <sup>7</sup>									
All ages, age-adjusted <sup>4</sup>	---	---	---	---	---	24.9	17.4	19.9	21.8
All ages, crude	---	---	---	---	---	23.1	16.7	19.7	21.2
1–14 years	---	---	---	---	---	5.6	3.2	3.4	3.5
15–24 years	---	---	---	---	---	31.1	20.6	22.7	24.0
25–34 years	---	---	---	---	---	33.6	26.4	28.4	31.4
35–44 years	---	---	---	---	---	27.9	20.3	25.0	28.8
45–64 years	---	---	---	---	---	27.5	19.6	25.3	24.6
65 years and over	---	---	---	---	---	32.4	20.2	19.9	25.2
White female <sup>5</sup>									
All ages, age-adjusted <sup>4</sup>	11.4	11.7	14.9	12.2	11.2	9.8	6.8	6.6	7.0
All ages, crude	10.9	11.2	14.8	12.8	11.6	10.0	7.1	6.9	7.3
Under 1 year	7.8	7.5	10.2	7.1	4.7	3.5	1.9	*	2.4
1–14 years	7.2	6.2	7.5	6.2	4.8	3.7	2.1	1.8	2.0
15–24 years	12.6	15.6	22.7	23.0	19.5	17.1	10.8	9.8	10.2
25–34 years	9.0	9.0	12.7	12.2	11.6	8.9	7.1	7.7	8.8
35–44 years	8.1	8.9	12.3	10.6	9.2	8.9	6.5	6.4	6.7
45–64 years	12.7	13.1	15.1	10.4	9.9	8.7	6.4	6.6	7.0
65 years and over	22.2	20.8	23.7	15.3	17.4	16.2	11.5	10.3	10.4

**Table 28. Death rates for motor vehicle-related injuries, 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#028>.

[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>	2010 <sup>3</sup>	2015 <sup>3</sup>	2016 <sup>3</sup>
Deaths per 100,000 resident population									
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	5.9	6.1	7.1
All ages, crude	10.2	9.7	13.4	8.3	9.4	8.2	5.8	6.1	7.1
Under 1 year	---	8.1	11.9	*	7.0	*	*	*	*
1–14 years <sup>6</sup>	7.2	6.9	10.2	6.3	5.3	3.9	2.0	2.6	3.1
15–24 years	11.6	9.9	13.4	8.0	9.9	11.7	7.8	8.9	10.3
25–34 years	10.8	9.8	13.3	10.6	11.1	9.4	6.8	7.8	9.0
35–44 years	11.1	11.0	16.1	8.3	9.4	8.2	5.8	6.1	7.3
45–64 years	11.8	12.7	16.7	9.2	10.7	9.0	6.3	6.3	7.1
65 years and over	14.3	13.2	15.7	9.5	13.5	10.4	8.6	6.8	7.6
American Indian or Alaska Native female <sup>5</sup>									
All ages, age-adjusted <sup>4</sup>	---	---	---	32.0	17.5	19.5	10.6	11.2	11.3
All ages, crude	---	---	---	32.0	17.3	18.6	10.0	11.2	11.0
1–14 years	---	---	---	15.0	8.1	6.5	*	*	*
15–24 years	---	---	---	42.3	31.4	30.3	13.4	13.8	15.5
25–34 years	---	---	---	52.5	18.8	22.3	17.7	21.2	18.5
35–44 years	---	---	---	38.1	18.2	22.0	13.1	12.6	14.5
45–64 years	---	---	---	32.6	17.6	17.8	8.4	11.9	9.8
65 years and over	---	---	---	*	*	24.0	14.8	*	11.6
Asian or Pacific Islander female <sup>5</sup>									
All ages, age-adjusted <sup>4</sup>	---	---	---	9.3	10.4	6.7	3.9	3.6	3.7
All ages, crude	---	---	---	8.2	9.0	5.9	3.6	3.6	3.7
1–14 years	---	---	---	7.4	3.6	2.3	*	*	1.2
15–24 years	---	---	---	7.4	11.4	6.0	3.3	3.4	3.4
25–34 years	---	---	---	7.3	7.3	4.5	3.1	2.6	2.7
35–44 years	---	---	---	8.6	7.5	4.9	2.0	1.7	1.6
45–64 years	---	---	---	8.5	11.8	6.4	4.3	4.0	4.0
65 years and over	---	---	---	18.6	24.3	18.5	12.2	11.2	11.6
Hispanic or Latina female <sup>5,7</sup>									
All ages, age-adjusted <sup>4</sup>	---	---	---	---	9.6	7.9	5.3	5.2	6.1
All ages, crude	---	---	---	---	8.9	7.2	4.9	5.0	5.8
1–14 years	---	---	---	---	4.8	3.9	2.0	1.8	2.0
15–24 years	---	---	---	---	11.6	10.6	7.7	7.7	9.4
25–34 years	---	---	---	---	9.4	6.5	5.0	6.1	7.5
35–44 years	---	---	---	---	8.0	7.3	4.5	4.6	4.8
45–64 years	---	---	---	---	11.4	8.3	5.6	5.2	6.3
65 years and over	---	---	---	---	14.9	13.4	9.4	8.3	9.0
White, not Hispanic or Latina female <sup>7</sup>									
All ages, age-adjusted <sup>4</sup>	---	---	---	---	11.3	10.0	7.0	6.8	7.1
All ages, crude	---	---	---	---	11.7	10.3	7.5	7.3	7.6
1–14 years	---	---	---	---	4.7	3.5	2.0	1.8	1.9
15–24 years	---	---	---	---	20.4	18.4	11.4	10.3	10.2
25–34 years	---	---	---	---	11.7	9.3	7.6	8.0	9.0

**Table 28. Death rates for motor vehicle-related injuries, 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#028>.

[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>	2010 <sup>3</sup>	2015 <sup>3</sup>	2016 <sup>3</sup>
White, not Hispanic or Latina female <sup>7</sup> —Con.	Deaths per 100,000 resident population								
35–44 years	---	---	---	---	9.3	9.0	6.9	6.8	7.2
45–64 years	---	---	---	---	9.7	8.7	6.4	6.7	7.0
65 years and over	---	---	---	---	17.5	16.3	11.6	10.5	10.5
Black, not Hispanic or Latina female <sup>7</sup>									
All ages, age-adjusted <sup>4</sup>	---	---	---	---	---	8.7	6.1	6.3	7.4
All ages, crude	---	---	---	---	---	8.5	6.1	6.4	7.4
1–14 years	---	---	---	---	---	4.0	2.1	2.7	3.4
15–24 years	---	---	---	---	---	12.3	8.2	9.1	10.8
25–34 years	---	---	---	---	---	9.8	7.3	8.2	9.5
35–44 years	---	---	---	---	---	8.5	6.2	6.4	7.6
45–64 years	---	---	---	---	---	9.2	6.4	6.5	7.2
65 years and over	---	---	---	---	---	10.4	8.7	7.0	7.7

--- 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 (shown in spreadsheet version), cause of death is coded according to ICD–10. Codes included were V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3–V80.5, V81.0–V81.1, V82.0–V82.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, and V89.2. 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 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>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 (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. 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 (WISQARS), available from: <https://www.cdc.gov/injury/wisqars/index.html>. 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).