

Table 19 (page 1 of 2). Infant mortality rates among mothers 20 years of age and over, by education, detailed race, and Hispanic origin of mother: United States, selected years 1983–2005

[Data are based on linked birth and death certificates for infants]

Education, race, and Hispanic origin of mother	1983 ¹	1985 ¹	1990 ¹	1995 ²	2000 ²	37 states, DC, and NYC	
						2004 ^{2,3,4}	2005 ^{2,3,4}
Infant deaths per 1,000 live births							
Less than 12 years of education							
All mothers	15.0	14.3	10.8	8.9	7.9	7.8	7.6
White	12.5	12.2	9.0	7.6	6.8	6.7	6.5
Black or African American	23.4	21.5	19.5	17.0	14.7	14.6	13.8
American Indian or Alaska Native	14.5	17.3	14.3	12.7	10.1	10.8	10.2
Asian or Pacific Islander ⁵	9.7	8.0	6.6	5.7	5.9	5.7	6.5
Hispanic or Latina ^{6,7}	10.9	10.4	7.3	6.0	5.4	5.5	5.2
Mexican	8.7	10.0	7.0	5.8	5.2	5.5	5.1
Puerto Rican	15.3	11.8	10.1	10.6	9.6	7.5	10.9
Cuban	*14.5	*	*	*	*	*	*
Central and South American	9.8	8.7	7.0	5.1	4.9	4.8	4.3
Other and unknown Hispanic or Latina	9.2	11.2	9.9	7.3	7.6	*7.9	*6.2
Not Hispanic or Latina: ⁷							
White	12.8	12.5	10.9	9.9	9.2	9.0	9.3
Black or African American	24.7	21.6	19.7	17.3	15.0	15.4	14.8
12 years of education							
All mothers	10.2	9.9	8.8	7.8	7.3	7.4	7.9
White	8.7	8.5	7.1	6.4	6.0	6.1	6.6
Black or African American	17.8	17.6	16.0	14.7	13.3	13.5	13.8
American Indian or Alaska Native	15.5	10.9	13.4	7.9	7.8	7.9	7.7
Asian or Pacific Islander ⁵	10.0	8.0	7.5	5.5	5.0	5.2	6.2
Hispanic or Latina ^{6,7}	8.4	9.1	7.0	5.9	5.0	5.3	5.4
Mexican	6.9	9.3	6.8	5.7	4.9	5.2	5.4
Puerto Rican	9.5	11.1	8.5	6.5	7.2	7.4	7.4
Cuban	*6.9	*9.2	*8.0	*	*	*	*
Central and South American	8.7	7.5	6.5	6.1	4.2	4.6	4.8
Other and unknown Hispanic or Latina	8.8	8.3	7.4	6.5	5.8	5.8	5.3
Not Hispanic or Latina: ⁷							
White	8.7	8.2	7.1	6.5	6.3	6.4	7.1
Black or African American	17.8	18.3	16.1	14.8	13.5	13.8	14.2
13 years or more of education							
All mothers	8.1	7.7	6.4	5.4	5.0	5.0	5.0
White	7.2	6.6	5.4	4.7	4.2	4.2	4.2
Black or African American	15.3	15.8	13.7	11.9	11.4	11.8	11.1
American Indian or Alaska Native	12.5	*8.5	6.8	5.9	6.7	6.1	6.4
Asian or Pacific Islander ⁵	6.6	6.2	5.1	4.4	3.9	3.8	3.8
Hispanic or Latina ^{6,7}	9.0	6.4	5.7	5.0	4.5	4.8	4.6
Mexican	*8.3	*5.8	5.5	5.2	4.5	4.7	4.5
Puerto Rican	10.9	*7.1	7.3	6.3	6.5	6.8	5.7
Cuban	*	*6.3	*5.3	*5.3	*4.9	*	*
Central and South American	*7.1	*6.6	5.6	3.7	3.7	4.5	4.1
Other and unknown Hispanic or Latina	11.6	*6.2	5.4	5.2	4.2	*3.4	4.8
Not Hispanic or Latina: ⁷							
White	7.0	6.6	5.4	4.6	4.2	4.1	4.1
Black or African American	14.8	15.1	13.7	12.0	11.5	12.0	11.4

See footnotes at end of table.

Table 19 (page 2 of 2). Infant mortality rates among mothers 20 years of age and over, by education, detailed race, and Hispanic origin of mother: United States, selected years 1983–2005

[Data are based on linked birth and death certificates for infants]

Education, race, and Hispanic origin of mother	Average annual mortality rate					37 states, DC, and NYC
	1983–1985 ¹	1986–1988 ¹	1989–1991 ¹	1995–1997 ²	1999–2001 ²	2003–2005 ^{2,3}
Infant deaths per 1,000 live births						
Less than 12 years of education						
All mothers	14.6	13.8	11.1	8.6	7.9	7.7
White	12.4	11.4	9.2	7.3	6.7	6.6
Black or African American	21.8	21.1	20.3	16.0	14.5	14.3
American Indian or Alaska Native	15.2	16.8	13.8	11.4	11.3	10.1
Asian or Pacific Islander ⁵	9.5	8.2	6.9	5.8	5.6	5.9
Hispanic or Latina ^{6,7}	10.6	9.9	7.5	5.8	5.3	5.4
Mexican	9.5	8.3	7.1	5.6	5.2	5.3
Puerto Rican	14.1	12.8	11.7	9.5	8.9	8.8
Cuban	*10.5	*9.4	*8.2	*6.7	*	*
Central and South American	8.6	9.2	6.8	5.4	4.8	4.8
Other and unknown Hispanic or Latina	10.1	10.6	10.0	7.0	6.8	6.6
Not Hispanic or Latina: ⁷						
White	12.6	11.8	11.0	9.6	9.1	9.1
Black or African American	22.6	21.6	20.6	16.3	14.8	15.1
12 years of education						
All mothers	10.0	9.6	8.9	7.6	7.3	7.6
White	8.5	8.0	7.2	6.3	6.0	6.3
Black or African American	17.7	17.1	16.4	14.1	13.4	13.6
American Indian or Alaska Native	13.4	11.6	12.3	8.5	8.8	8.2
Asian or Pacific Islander ⁵	9.3	7.9	7.5	5.6	5.5	5.8
Hispanic or Latina ^{6,7}	9.1	8.3	6.8	5.8	5.1	5.4
Mexican	7.8	8.2	6.5	5.6	4.9	5.3
Puerto Rican	10.8	10.1	8.6	7.6	8.1	7.4
Cuban	8.6	6.6	7.6	5.4	*3.5	*
Central and South American	8.7	7.4	6.3	5.5	4.6	4.9
Other and unknown Hispanic or Latina	8.8	7.7	7.0	6.6	6.0	5.6
Not Hispanic or Latina: ⁷						
White	8.3	7.9	7.3	6.4	6.2	6.6
Black or African American	17.9	17.4	16.5	14.2	13.6	13.9
13 years or more of education						
All mothers	7.8	7.2	6.4	5.3	5.1	5.0
White	6.9	6.2	5.5	4.5	4.3	4.2
Black or African American	15.3	14.9	13.7	11.6	11.5	11.4
American Indian or Alaska Native	10.4	8.4	8.1	6.6	6.9	6.5
Asian or Pacific Islander ⁵	6.7	5.9	5.1	4.1	3.9	3.8
Hispanic or Latina ^{6,7}	7.4	7.0	5.8	5.0	4.6	4.7
Mexican	7.6	6.4	5.7	5.1	4.7	4.7
Puerto Rican	8.1	6.9	7.8	6.4	6.2	6.4
Cuban	5.5	5.9	4.2	4.3	4.4	*5.3
Central and South American	7.2	7.6	5.4	4.0	3.9	4.2
Other and unknown Hispanic or Latina	7.9	7.5	5.6	5.3	4.2	4.6
Not Hispanic or Latina: ⁷						
White	6.8	6.1	5.4	4.5	4.2	4.2
Black or African American	14.7	14.9	13.8	11.7	11.6	11.5

* Estimates are considered unreliable. Rates preceded by an asterisk are based on fewer than 50 deaths in the numerator. Rates not shown are based on fewer than 20 deaths in the numerator.

¹Rates based on unweighted birth cohort data.

²Rates based on a period file using weighted data. See [Appendix I, National Vital Statistics System \(NVSS\), Linked Birth/Infant Death Data Set](#).

³Data are excluded for states which implemented the 2003 revision of the U.S. Standard Certificate of Live Birth. Maternal education data based on the 2003 revision are not comparable with data based on the 1989 and earlier revisions of the U.S. Standard Certificate of Live Birth. Data for 2004 and 2005 and 2003–2005 exclude Florida, Idaho, Kansas, Kentucky, Nebraska, New Hampshire, New York State (excluding New York City), Pennsylvania, South Carolina, Tennessee, Texas, Vermont, and Washington.

⁴Data for 2004, with 39 reporting areas continuing to use the 1989 revision of the U.S. Standard Certificate of Live Birth in 2005, are presented for comparison with data for 2005.

⁵Asian or Pacific Islander births occurred disproportionately in the states not reporting maternal education on the birth certificate prior to 1992. Starting with 1992 data, maternal education was reported by all 50 states and the District of Columbia. See [Appendix II, Education](#).

⁶Persons of Hispanic origin may be of any race.

⁷Prior to 1995, data shown only for states with an Hispanic-origin item and education of mother on their birth certificates. See [Appendix II, Education; Hispanic origin](#).

NOTES: Infants are under 1 year of age. Prior to 1995, data are shown only for states reporting education of mother on their birth certificates. See [Appendix II, Education](#). The race groups white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin. Starting with 2003 data, some states reported multiple-race data. 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](#). National linked files do not exist for 1992–1994. Some data have been revised and differ from previous editions of *Health, United States*. Data for additional years are available. See [Appendix III](#).

SOURCE: CDC/NCHS, National Vital Statistics System, Linked Birth/Infant Death Data Set.