

**Table 23 (page 1 of 2). Infant mortality rates, according to race, Hispanic origin, geographic division, and State: United States, average annual 1989–91, 1996–98, and 1999–2001**

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

Geographic division and State	Not Hispanic or Latino								
	All races			White			Black or African American		
	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>
	Infant <sup>3</sup> deaths per 1,000 live births								
United States . . . . .	9.0	7.2	6.9	7.3	6.0	5.7	17.2	13.9	13.7
New England <sup>4</sup> . . . . .	7.3	5.7	5.4	6.2	4.7	4.5	15.1	12.3	12.1
Connecticut . . . . .	7.9	6.8	6.2	5.9	4.9	4.7	17.0	15.0	13.3
Maine . . . . .	6.6	5.3	5.3	6.2	5.2	5.3	*	*	*
Massachusetts . . . . .	7.0	5.1	4.9	5.9	4.4	4.1	14.2	10.7	11.1
New Hampshire <sup>4</sup> . . . . .	7.1	4.5	5.2	7.2	4.2	4.5	*	*	*
Rhode Island . . . . .	8.7	6.5	6.3	7.5	4.8	4.6	*13.6	*9.9	*13.0
Vermont . . . . .	6.6	6.7	5.9	6.3	6.4	5.7	*	*	*
Middle Atlantic . . . . .	9.2	6.9	6.5	6.6	5.0	5.0	18.5	13.7	12.8
New Jersey . . . . .	8.4	6.5	6.4	6.1	4.3	4.4	17.8	14.1	14.0
New York . . . . .	9.5	6.6	6.2	6.3	4.5	4.8	18.4	12.6	11.4
Pennsylvania . . . . .	9.2	7.5	7.2	7.2	6.0	5.7	19.1	15.8	15.0
East North Central . . . . .	9.8	8.0	7.9	7.7	6.4	6.3	19.1	16.0	16.0
Illinois . . . . .	10.7	8.5	8.2	7.6	6.3	6.1	20.5	17.1	16.4
Indiana . . . . .	9.4	8.1	7.8	8.4	7.2	7.0	17.3	15.2	14.5
Michigan . . . . .	10.5	8.2	8.1	7.7	6.2	5.9	20.7	15.8	16.7
Ohio . . . . .	9.0	7.8	7.8	7.7	6.6	6.6	16.2	14.5	14.9
Wisconsin . . . . .	8.4	7.0	6.8	7.4	5.7	5.7	17.0	16.6	16.8
West North Central . . . . .	8.5	7.0	6.7	7.4	6.2	5.8	17.5	14.9	14.5
Iowa . . . . .	8.2	6.5	5.9	7.8	6.2	5.5	15.8	16.3	15.8
Kansas . . . . .	8.5	7.6	7.1	7.8	7.1	6.7	15.4	14.5	14.1
Minnesota . . . . .	7.3	5.9	5.7	6.4	5.4	5.0	18.5	12.3	11.4
Missouri . . . . .	9.7	7.6	7.4	8.0	6.2	5.9	18.0	15.5	16.0
Nebraska . . . . .	8.1	7.8	6.9	7.2	7.2	6.1	18.3	17.0	13.2
North Dakota . . . . .	8.0	6.8	8.0	7.3	6.4	7.0	*	*	*
South Dakota . . . . .	9.5	7.4	7.1	7.5	6.1	6.2	*	*	*
South Atlantic . . . . .	10.4	8.3	8.0	7.6	6.3	6.0	17.2	14.0	13.8
Delaware . . . . .	11.2	8.4	9.2	8.2	6.7	6.8	20.1	15.2	16.3
District of Columbia . . . . .	20.3	13.8	13.0	*8.2	*	*	23.9	17.2	16.9
Florida . . . . .	9.4	7.3	7.1	7.2	6.1	5.6	16.2	12.4	12.8
Georgia . . . . .	11.9	8.7	8.4	8.4	6.3	6.0	17.9	13.7	13.5
Maryland . . . . .	9.1	8.6	8.0	6.3	5.7	5.1	15.0	14.4	13.6
North Carolina . . . . .	10.7	9.2	8.7	8.0	7.0	6.7	16.9	15.8	15.1
South Carolina . . . . .	11.8	9.2	9.3	8.4	6.0	6.3	17.2	14.8	15.2
Virginia . . . . .	9.9	7.7	7.2	7.4	5.9	5.5	18.0	13.5	13.0
West Virginia . . . . .	9.1	8.3	7.4	8.8	8.0	7.3	*15.7	*15.1	*10.0
East South Central . . . . .	10.4	9.0	8.7	8.1	7.0	6.6	16.5	14.6	14.9
Alabama . . . . .	11.4	10.0	9.5	8.6	7.7	6.8	16.8	14.7	15.2
Kentucky . . . . .	8.7	7.3	6.8	8.1	6.8	6.5	14.4	12.4	10.5
Mississippi . . . . .	11.5	10.5	10.4	7.9	7.0	6.9	15.2	14.6	14.6
Tennessee . . . . .	10.2	8.4	8.5	7.8	6.6	6.5	18.2	15.2	16.0
West South Central <sup>4</sup> . . . . .	8.4	7.1	6.7	7.2	6.5	6.1	14.2	12.0	12.2
Arkansas . . . . .	9.8	9.0	8.2	8.1	7.8	7.5	15.2	13.6	12.2
Louisiana <sup>4</sup> . . . . .	10.2	9.2	9.4	7.5	6.6	6.5	14.3	13.1	13.7
Oklahoma <sup>4</sup> . . . . .	8.0	8.1	8.1	7.3	7.6	7.6	12.7	14.2	14.3
Texas . . . . .	7.9	6.3	5.9	6.9	6.0	5.4	14.1	10.7	10.9
Mountain . . . . .	8.4	6.8	6.3	7.9	6.3	5.8	16.9	13.3	13.3
Arizona . . . . .	8.8	7.4	6.8	8.2	6.9	6.3	17.3	14.0	16.5
Colorado . . . . .	8.7	6.8	6.2	8.0	6.2	5.7	16.7	13.9	12.7
Idaho . . . . .	8.9	7.0	6.9	8.9	6.6	6.6	*	*	*
Montana . . . . .	9.0	7.1	6.6	8.0	6.5	5.9	*	*	*
Nevada . . . . .	8.6	6.6	6.2	7.8	6.7	5.2	16.9	12.9	11.9
New Mexico . . . . .	8.4	6.6	6.6	8.1	6.4	6.9	*17.2	*	*14.7
Utah . . . . .	7.0	5.9	5.0	6.8	5.6	4.8	*	*	*
Wyoming . . . . .	8.4	6.6	6.6	8.0	6.0	6.4	*	*	*
Pacific . . . . .	7.7	5.9	5.5	7.0	5.3	4.8	15.4	12.1	11.3
Alaska . . . . .	9.2	6.9	7.0	7.2	5.4	5.3	*	*	*
California . . . . .	7.6	5.9	5.4	6.9	5.3	4.7	15.4	12.2	11.6
Hawaii . . . . .	7.0	6.5	7.1	5.5	5.5	6.4	*13.6	*	*
Oregon . . . . .	8.0	5.5	5.5	7.4	5.3	5.4	21.3	*10.3	*7.5
Washington . . . . .	8.0	5.7	5.3	7.4	5.3	4.9	15.1	11.4	10.3

See footnotes at end of table.

**Table 23 (page 2 of 2). Infant mortality rates, according to race, Hispanic origin, geographic division, and State: United States, average annual 1989–91, 1996–98, and 1999–2001**

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

Geographic division and State	Hispanic or Latino <sup>5</sup>			American Indian or Alaska Native <sup>6</sup>			Asian or Pacific Islander <sup>6</sup>		
	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>	1989–91 <sup>1</sup>	1996–98 <sup>2</sup>	1999–2001 <sup>2</sup>
	Infant <sup>3</sup> deaths per 1,000 live births								
United States . . . . .	7.5	5.9	5.6	12.6	9.3	9.1	6.6	5.2	4.8
New England <sup>7</sup> . . . . .	8.1	7.7	6.6	*	*	*	5.8	3.5	4.1
Connecticut . . . . .	7.9	9.0	7.5	*	*	*	*	*	*
Maine . . . . .	*	*	*	*	*	*	*	*	*
Massachusetts . . . . .	8.3	6.4	5.5	*	*	*	5.7	*3.2	3.8
New Hampshire <sup>7</sup> . . . . .	---	*	*	*	*	*	*	*	*
Rhode Island . . . . .	*7.2	9.5	*7.9	*	*	*	*	*	*
Vermont . . . . .	*	*	*	*	*	*	*	*	*
Middle Atlantic . . . . .	9.1	6.4	6.3	*11.6	*	*6.5	6.4	4.4	3.6
New Jersey . . . . .	7.5	6.7	6.3	*	*	*	5.6	4.7	3.7
New York . . . . .	9.4	6.0	5.8	*15.2	*	*	6.4	4.1	3.6
Pennsylvania . . . . .	10.9	8.7	9.0	*	*	*	7.8	5.2	*3.7
East North Central . . . . .	8.7	7.2	6.8	11.6	9.3	9.2	6.1	5.9	5.8
Illinois . . . . .	9.2	6.9	6.9	*	*	*	6.0	5.9	6.7
Indiana . . . . .	*7.2	7.5	6.8	*	*	*	*	*8.2	*
Michigan . . . . .	7.9	6.8	6.5	*10.7	*10.6	*	*6.1	*4.9	6.0
Ohio . . . . .	8.0	7.8	7.5	*	*	*	*4.8	*6.1	*4.2
Wisconsin . . . . .	*7.3	10.3	6.4	*11.9	*9.6	*10.1	*6.7	*5.9	*5.0
West North Central . . . . .	9.3	6.4	6.6	17.1	13.1	11.2	7.4	6.3	6.1
Iowa . . . . .	*11.9	*5.2	*6.6	*	*	*	*	*	*
Kansas . . . . .	8.7	6.3	6.3	*	*	*	*	*	*
Minnesota . . . . .	*8.4	*6.2	6.8	17.3	15.3	*10.8	*5.1	6.7	7.4
Missouri . . . . .	*9.1	*5.7	*5.7	*	*	*	*9.1	*	*
Nebraska . . . . .	*8.8	8.6	7.6	*18.2	*	*17.3	*	*	*
North Dakota . . . . .	*	*	*	*13.8	*11.0	*15.2	*	*	*
South Dakota . . . . .	*	*	*	19.9	14.4	11.7	*	*	*
South Atlantic . . . . .	7.4	5.3	5.3	12.7	11.1	8.5	6.8	5.3	5.2
Delaware . . . . .	*	*	*8.2	*	*	*	*	*	*
District of Columbia . . . . .	*8.8	*	*8.5	*	*	*	*	*	*
Florida . . . . .	7.1	4.9	5.0	*	*	*	*6.2	4.9	4.9
Georgia . . . . .	9.0	5.6	5.1	*	*	*	*8.2	*4.4	6.2
Maryland . . . . .	7.2	5.8	6.1	*	*	*	7.5	6.3	*4.8
North Carolina . . . . .	*7.5	6.0	5.9	12.2	13.4	11.6	*6.3	*5.2	6.9
South Carolina . . . . .	*	*8.3	*4.4	*	*	*	*	*	*
Virginia . . . . .	7.6	5.9	4.9	*	*	*	6.0	5.3	4.6
West Virginia . . . . .	*	*	*	*	*	*	*	*	*
East South Central . . . . .	*5.9	6.9	6.2	*	*	*10.0	*7.7	*6.2	*5.6
Alabama . . . . .	*	*8.4	*7.0	*	*	*	*	*	*
Kentucky . . . . .	*	*	*	*	*	*	*	*	*
Mississippi . . . . .	*	*	*	*	*	*	*	*	*
Tennessee . . . . .	*	*6.8	6.3	*	*	*	*	*	*5.8
West South Central <sup>7</sup> . . . . .	7.0	5.6	5.1	8.4	7.8	8.2	6.7	4.9	4.2
Arkansas . . . . .	*	*8.4	*4.2	*	*	*	*	*	*
Louisiana <sup>7</sup> . . . . .	---	*	*5.3	*	*	*	*	*6.9	*
Oklahoma <sup>7</sup> . . . . .	---	5.8	4.9	7.8	8.0	8.4	*	*	*
Texas . . . . .	7.0	5.6	5.1	*	*	*	6.8	4.9	3.9
Mountain . . . . .	7.9	7.0	6.2	11.6	8.8	9.0	8.1	6.0	5.7
Arizona . . . . .	8.0	7.4	6.3	11.4	9.0	9.3	*8.5	*5.3	*5.2
Colorado . . . . .	8.5	7.3	6.1	*16.5	*	*	*7.8	*5.7	*6.2
Idaho . . . . .	*7.2	7.3	8.1	*	*	*	*	*	*
Montana . . . . .	*	*	*	16.7	*10.2	*11.7	*	*	*
Nevada . . . . .	7.0	5.1	5.5	*	*	*15.8	*	*5.3	*5.4
New Mexico . . . . .	7.8	6.6	6.3	9.8	7.2	7.1	*	*	*
Utah . . . . .	*7.0	6.5	5.9	*10.0	*	*	*10.7	*7.6	*7.0
Wyoming . . . . .	*	*	*	*	*	*	*	*	*
Pacific . . . . .	7.1	5.5	5.2	14.6	8.8	9.3	6.5	5.4	4.9
Alaska . . . . .	*	*	*	15.7	9.8	11.9	*	*	*
California . . . . .	7.0	5.4	5.1	11.0	8.5	7.9	6.4	5.1	4.5
Hawaii . . . . .	10.7	*6.9	*6.6	*	*	*	7.1	6.8	7.2
Oregon . . . . .	8.5	6.1	6.4	*15.7	*	*9.5	*8.4	*5.1	*4.0
Washington . . . . .	7.6	5.0	4.9	19.6	*9.1	8.9	6.2	5.4	4.4

\* Estimates are considered unreliable. Rates preceded by an asterisk are based on fewer than 50 events. Rates not shown are based on fewer than 20 events.

--- Data not available. <sup>1</sup>Rates based on unweighted birth cohort data.

<sup>2</sup>Rates based on period file using weighted data. See Appendix I, National Vital Statistics System, Linked Birth/Infant Death Data Set.

<sup>3</sup>Under 1 year of age.

<sup>4</sup>Rates for white and black are substituted for non-Hispanic white and non-Hispanic black for Louisiana 1989, Oklahoma 1989–90, and New Hampshire 1989–91.

<sup>5</sup>Persons of Hispanic origin may be of any race.

<sup>6</sup>Includes persons of Hispanic origin.

<sup>7</sup>Rates for Hispanic origin exclude data from States not reporting Hispanic origin on the birth certificate for 1 or more years in a 3-year period.

NOTE: National linked files do not exist for 1992–94.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Linked Birth/Infant Death Data Set.