

Table 2. Infant, neonatal, postneonatal, fetal, and perinatal mortality rates, by detailed race and Hispanic origin of mother: United States, selected years 1983–2018

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2019.htm#Table-002>

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

Maternal race and Hispanic origin ¹	1983 ²	1985 ²	1990 ²	1995 ³	2000 ³	2005 ³	2010 ³	2017 ³	2017 ³ (single race)	2018 ³	2018 ³ (single race)
Infant ⁴ deaths per 1,000 live births											
All mothers.....	10.9	10.4	8.9	7.6	6.9	6.9	6.1	---	5.8	---	5.7
White.....	9.3	8.9	7.3	6.3	5.7	5.7	5.2	4.9	4.8	4.8	4.7
Black or African American.....	19.2	18.6	16.9	14.6	13.5	13.3	11.2	10.4	10.5	10.3	10.5
American Indian or Alaska Native.....	15.2	13.1	13.1	9.0	8.3	8.1	8.3	8.3	8.6	7.7	7.7
Asian or Pacific Islander.....	8.3	7.8	6.6	5.3	4.9	4.9	4.3	4.2	...	4.1	...
Hispanic or Latina ⁵	9.5	8.8	7.5	6.3	5.6	5.6	5.3	---	5.1	---	4.9
Mexican.....	9.1	8.5	7.2	6.0	5.4	5.5	5.1	---	5.1	---	4.9
Puerto Rican.....	12.9	11.2	9.9	8.9	8.2	8.3	7.1	---	6.5	---	5.6
Cuban.....	7.5	8.5	7.2	5.3	4.6	4.4	3.8	---	4.0	---	3.9
Central and South American.....	8.5	8.0	6.8	5.5	4.6	4.7	4.4	---	4.5	---	4.0
Other and unknown Hispanic or Latina.....	10.6	9.5	8.0	7.4	6.9	6.4	6.1	---	5.4	---	5.4
Not Hispanic or Latina ⁵ :											
White.....	9.2	8.6	7.2	6.3	5.7	5.8	5.2	4.7	4.7	4.7	4.6
Black or African American.....	19.1	18.3	16.9	14.7	13.6	13.6	11.5	10.9	11.0	10.6	10.7
American Indian or Alaska Native.....	---	---	---	---	8.2	8.3	8.6	8.9	9.2	8.1	8.2
Asian or Pacific Islander.....	---	---	---	---	4.8	4.8	4.2	4.0	...	3.9	...
Asian.....	...	...	...	...	...	...	...	...	3.8	...	3.6
Native Hawaiian or Other Pacific Islander.....	...	...	...	...	...	...	...	...	7.7	...	9.4
Neonatal ⁴ deaths per 1,000 live births											
All mothers.....	7.1	6.8	5.7	4.9	4.6	4.5	4.0	---	3.9	---	3.8
White.....	6.1	5.8	4.6	4.1	3.8	3.8	3.5	3.2	3.2	3.2	3.2
Black or African American.....	12.5	12.3	11.1	9.6	9.1	8.9	7.3	6.8	6.9	6.8	6.9
American Indian or Alaska Native.....	7.5	6.1	6.1	4.0	4.4	4.0	4.3	4.5	4.6	4.0	4.1
Asian or Pacific Islander.....	5.2	4.8	3.9	3.4	3.4	3.4	3.0	3.0	...	2.9	...
Hispanic or Latina ⁵	6.2	5.7	4.8	4.1	3.8	3.9	3.6	---	3.6	---	3.4
Mexican.....	5.9	5.4	4.5	3.9	3.6	3.8	3.5	---	3.5	---	3.4
Puerto Rican.....	8.7	7.6	6.9	6.1	5.8	5.9	4.8	---	4.3	---	4.0
Cuban.....	*5.0	6.2	5.3	*3.6	*3.2	*3.1	*2.9	---	3.0	---	2.7
Central and South American.....	5.8	5.6	4.4	3.7	3.3	3.2	3.0	---	3.2	---	3.0
Other and unknown Hispanic or Latina.....	6.4	5.6	5.0	4.8	4.6	4.3	4.0	---	3.8	---	3.7
Not Hispanic or Latina ⁵ :											
White.....	5.9	5.6	4.5	4.0	3.8	3.7	3.4	3.0	3.0	3.0	3.0
Black or African American.....	12.0	11.9	11.0	9.6	9.2	9.1	7.5	7.1	7.2	6.9	7.1
American Indian or Alaska Native.....	---	---	---	---	4.2	4.2	4.4	4.7	4.8	4.0	4.1
Asian or Pacific Islander.....	---	---	---	---	3.3	3.3	3.0	2.8	...	2.8	...
Asian.....	...	...	...	...	...	...	...	...	2.7	...	2.7
Native Hawaiian or Other Pacific Islander.....	...	...	...	...	...	...	...	...	*3.8	...	5.3

See footnotes at end of table.

Table 2. Infant, neonatal, postneonatal, fetal, and perinatal mortality rates, by detailed race and Hispanic origin of mother: United States, selected years 1983–2018—Con.

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2019.htm#Table-002>

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

Maternal race and Hispanic origin ¹	1983 ²	1985 ²	1990 ²	1995 ³	2000 ³	2005 ³	2010 ³	2017 ³	2017 ³ (single race)	2018 ³	2018 ³ (single race)
Postneonatal ⁴ deaths per 1,000 live births											
All mothers	3.8	3.6	3.2	2.6	2.3	2.3	2.1	---	1.9	---	1.9
White	3.2	3.1	2.7	2.2	1.9	2.0	1.8	1.6	1.6	1.6	1.5
Black or African American	6.7	6.3	5.9	5.0	4.3	4.3	3.9	3.6	3.6	3.6	3.6
American Indian or Alaska Native	7.7	7.0	7.0	5.1	3.9	4.0	4.0	3.8	4.0	3.7	3.6
Asian or Pacific Islander	3.1	2.9	2.7	1.9	1.4	1.5	1.3	1.2	...	1.1	...
Hispanic or Latina ⁵	3.3	3.2	2.7	2.1	1.8	1.8	1.7	---	1.5	---	1.4
Mexican	3.2	3.2	2.7	2.1	1.8	1.7	1.6	---	1.5	---	1.5
Puerto Rican	4.2	3.5	3.0	2.8	2.4	2.4	2.3	---	2.1	---	1.6
Cuban	*2.5	*2.3	*1.9	*1.7	*	*1.4	*	---	*1.0	---	*1.1
Central and South American	2.6	2.4	2.4	1.9	1.4	1.5	1.4	---	1.3	---	1.0
Other and unknown Hispanic or Latina	4.2	3.9	3.0	2.6	2.3	2.1	2.1	---	1.5	---	1.6
Not Hispanic or Latina ⁵ :											
White	3.2	3.0	2.7	2.2	1.9	2.1	1.8	1.6	1.6	1.7	1.6
Black or African American	7.0	6.4	5.9	5.0	4.4	4.5	4.0	3.8	3.8	3.7	3.7
American Indian or Alaska Native	---	---	---	---	4.0	4.1	4.3	4.2	4.4	4.1	4.0
Asian or Pacific Islander	---	---	---	---	1.4	1.5	1.2	1.2	...	1.1	...
Asian . . . . .	...	...	...	...	...	...	...	...	1.1	...	1.0
Native Hawaiian or Other Pacific Islander . . . . .	...	...	...	...	...	...	...	...	*3.8	...	*4.0
Fetal ^{9,10} deaths per 1,000 live births plus fetal deaths											
All mothers	---	---	---	7.0	6.6	6.2	6.0	5.8	---	5.9	5.9
Hispanic or Latina ⁵	---	---	---	---	5.8	5.4	5.2	4.9	---	5.1	5.1
Not Hispanic or Latina ⁵ :											
White	---	---	---	---	5.3	4.8	4.8	4.7	---	4.9	4.9
Black or African American	---	---	---	---	12.0	11.1	10.8	10.4	---	10.4	10.6
American Indian or Alaska Native	---	---	---	---	5.6	5.4	5.3	7.3	---	5.9	6.3
Asian or Pacific Islander	---	---	---	---	4.9	4.5	4.5	4.2	---	4.4	...
Asian . . . . .	...	...	...	...	...	...	...	...	...	...	4.3
Native Hawaiian or Other Pacific Islander . . . . .	...	...	...	...	...	...	...	...	...	...	9.9
Late fetal ^{9,11} deaths per 1,000 live births plus late fetal deaths											
All mothers	---	---	---	3.6	3.3	3.0	3.0	2.8	---	2.8	2.8
Hispanic or Latina ⁵	---	---	---	---	3.1	2.8	2.6	2.4	---	2.3	2.3
Not Hispanic or Latina ⁵ :											
White	---	---	---	---	2.8	2.4	2.5	2.4	---	2.4	2.5
Black or African American	---	---	---	---	5.2	4.8	4.7	4.7	---	4.6	4.7
American Indian or Alaska Native	---	---	---	---	3.1	2.9	3.4	3.7	---	3.7	4.0
Asian or Pacific Islander	---	---	---	---	2.7	2.2	2.2	2.0	---	2.2	...
Asian . . . . .	...	...	...	...	...	...	...	...	...	...	2.1
Native Hawaiian or Other Pacific Islander . . . . .	...	...	...	...	...	...	...	...	...	...	6.6

See footnotes at end of table.

Table 2. Infant, neonatal, postneonatal, fetal, and perinatal mortality rates, by detailed race and Hispanic origin of mother: United States, selected years 1983–2018—Con.

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2019.htm#Table-002>

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

Maternal race and Hispanic origin ⁶	1983 ²	1985 ²	1990 ²	1995 ³	2000 ^{3,7}	2005 ³	2010 ³	2017 ³	2017 ³ (single race)	2018 ³	2018 ³ (single race)
Perinatal ^{9,12} deaths per 1,000 live births plus late fetal deaths											
All mothers	---	---	---	7.6	7.0	6.6	6.2	5.8	---	5.8	5.8
Hispanic or Latina ⁵	---	---	---	---	6.1	5.9	5.5	5.2	---	5.2	5.2
Not Hispanic or Latina ⁵ :											
White	---	---	---	---	5.7	5.4	5.1	4.7	---	4.8	4.8
Black or African American	---	---	---	---	12.6	12.2	10.6	10.5	---	10.2	10.4
American Indian or Alaska Native	---	---	---	---	6.9	6.0	6.7	7.2	---	6.8	7.2
Asian or Pacific Islander	---	---	---	---	5.3	4.8	4.6	4.3	---	4.5	...
Asian	4.2
Native Hawaiian or Other Pacific Islander	11.4

--- Data not available.

... Category not applicable.

* 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.

¹The race groups white, black or African American, American Indian or Alaska Native, Asian, and Native Hawaiian or Other Pacific Islander include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Starting with 2017 data, race on birth records used to calculate infant mortality is available based on the 1997 "Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity" and presented as single-race estimates (only one race was reported on the birth certificate). These estimates include separate estimates for non-Hispanic Asian and non-Hispanic Native Hawaiian or Other Pacific Islander groups. Data for 2003–2016 were tabulated according to the 1977 standards, and race data were bridged to retain comparability across states as they transitioned from 1977 to 1997 standards. Single-race estimates for 2017 and beyond are not completely comparable with bridged-race estimates for earlier years, particularly for the smaller race groups. To look at longer-term trends, bridged-race estimates are also presented. The combined group of non-Hispanic Asian or Pacific Islander women is also shown. See Appendix II, Hispanic origin; Race.

²Rates based on unweighted birth cohort data.

³Rates based on a period file using weighted data. See Appendix I, National Vital Statistics System (NVSS), Linked Birth/Infant Death Data Set.

⁴Infant (under 1 year of age), neonatal (under 28 days), and postneonatal (28–364 days). See Appendix II, Infant death.

⁵Before 1995, data are shown only for states with a Hispanic-origin item on their birth certificates. See Appendix II, Hispanic origin.

⁶Single-race data for all 50 states and the District of Columbia (D.C.) became available for the fetal deaths data file in 2018. Data for 2003–2017 were tabulated according to the 1977 standards, and race data were bridged to retain comparability across states as they transitioned from 1977 to 1997 standards. Single-race estimates for 2018 are not strictly comparable with bridged-race estimates for earlier years. See Appendix II, Race.

⁷Rates for 1999–2004 (shown in spreadsheet version of table) exclude data from Oklahoma, which did not report Hispanic origin on the fetal death report in those years.

⁸The race and Hispanic-origin specific rates for 2015 (shown in spreadsheet version) exclude data from Rhode Island, which did not report race or Hispanic origin of mother on the fetal death report in that year. The rates for All mothers include data from Rhode Island.

⁹Starting with 2014 data, the obstetric estimate of gestation at delivery replaces the gestational age measure based on the date of the last normal menses used for prior years. For more information on the impact of this change, see Appendix I, National Vital Statistics System (NVSS), Fetal Death Data Set.

¹⁰Number of fetal deaths at 20 weeks of gestation or more per 1,000 live births plus fetal deaths. See Appendix II, Rate: Death and related rates.

¹¹Number of fetal deaths at 28 weeks of gestation or more (late fetal deaths) per 1,000 live births plus late fetal deaths. See Appendix II, Rate: Death and related rates.

¹²Number of late fetal deaths plus infant deaths within 7 days of birth per 1,000 live births plus late fetal deaths. See Appendix II, Rate: Death and related rates.

NOTES: National linked files do not exist for 1992–1994. Single-race data for all 50 states and D.C. became available for the linked birth/infant death data file in 2017. Single-race data for all 50 states and D.C. became available for the fetal deaths data file in 2018. See Appendix II, Race. Some estimates have been revised and differ from previous editions of *Health, United States*. Data for additional years are available in the Excel spreadsheet version of this table on the *Health, United States* website at: <https://www.cdc.gov/nchs/hus/index.htm>.

SOURCE: NCHS, National Vital Statistics System, public-use Linked Birth/Infant Death Data Set, public-use Fetal Death File, and public-use Birth File. See Appendix I, National Vital Statistics System (NVSS).