National Vital Statistics Reports

From the CENTERS FOR DISEASE CONTROL AND PREVENTION National Center for Health Statistics National Vital Statistics System

Volume 48, Number 3

March 28, 2000

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Births: Final Data for 1998

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Abstract

Objectives—This report presents 1998 data on U.S. births according to a wide variety of characteristics. Data are presented for maternal demographic characteristics including age, live-birth order, race, Hispanic origin, marital status, and educational attainment; maternal lifestyle and health characteristics (medical risk factors, weight gain, and tobacco and alcohol use); medical care utilization by pregnant women (prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth, and method of delivery); and infant health characteristics (period of gestation, birthweight, Apgar score, abnormal conditions, congenital anomalies, and multiple births). Also presented are birth and fertility rates by age, live-birth order, race, Hispanic origin, and marital status. Selected data by mother's State of residence are shown including teenage birth rates and total fertility rates, as well as data on month and day of birth, sex ratio, and age of father. Trends in fertility patterns and maternal and infant characteristics are described and interpreted.

Methods—Descriptive tabulations of data reported on the birth certificates of the 3.94 million births that occurred in 1998 are presented.

Results-Birth and fertility rates increased in 1998 by about 1 percent, the first increase since 1990. Birth rates for teenagers fell 2-5 percent. Rates for women in their twenties increased 1-2 percent each, whereas rates for women in their thirties rose 2-4 percent. All measures of childbearing by unmarried women increased number of births rose 3 percent, the birth rate increased while the percent of births that were to unmarried 32.8 percent. Smoking by pregnant women overall dropped 1998, but continued to increase among teenagers. prenatal care utilization continued. The cesarean delivery for the second year after declining for 7 consecutive portion of multiple births continued to rise; higher order (e.g., triplets, quadruplets) rose by 13 percent in 1998, 14 percent rise from 1996 to 1997. Key measures of birth percents of low birthweight and preterm births-increased. changes are in large part the result of increases in

Keywords: births • birth certificate • maternal and infant birth rates • maternal characteristics

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES Centers for Disease Control and Prevention National Center for Health Statistics

Highlights

Births in the United States increased 2 percent in 1998, to 3,941,553, the first increase since 1990. The **birth rate** rose slightly in 1998 to 14.6 births per 1,000 total population. The **fertility rate**, which relates births to the number of women of childbearing age, increased 1 percent to 65.6 births per 1,000 women aged 15–44 years.

Fertility rates for women in racial and Hispanic origin subgroups increased 1–5 percent for non-Hispanic white, non-Hispanic black, American Indian, and Puerto Rican women. Rates declined for Asian or Pacific Islander, Mexican, and Cuban women. The variation in rates found for recent years continued in 1998: rates were highest for Mexican women, followed by Puerto Rican, non-Hispanic black, and American Indian women. Rates were much lower for Asian or Pacific Islander, non-Hispanic white, and Cuban women.

The birth rate for teenagers declined again in 1998, falling 2 percent to 51.1 births per 1,000 women aged 15–19 years. The rate has declined 18 percent since 1991 (62.1). The birth rate for young teenagers 15–17 years fell 5 percent from 1997 to 1998 to 30.4 per 1,000, a record low. The rate for older teenagers 18–19 years declined

Acknowledgments

This report was prepared under the general direction of James A. Weed, Acting Chief of the Reproductive Statistics Branch (RSB). Nicholas F. Pace, Chief of the Systems, Programming, and Statistical Resources Branch (SPSRB), and Manju Sharma and Jaleh Mousavi of SPSRB provided computer programming support and statistical tables. Robert N. Anderson of the Mortality Statistics Branch and Lester R. Curtin of the Office of Research and Methodology contributed to the Technical notes. Thomas D. Dunn and Vanetta Harrington of SPSRB and Melissa Park and Janet Gutierrez of RSB provided content review. Staff of the Data Acquisition and Evaluation Branch carried out quality evaluation and acceptance procedures for the State data files on which this report is based. The Registration Methods staff of the Division of Vital Statistics consulted with State vital statistics offices regarding the collection of birth certificate data. This report was edited by Demarius V. Miller and typeset by Jacqueline M. Davis; graphics were produced by Jarmila Ogburn of the Publications Branch, Division of Data Services.



2 percent to 82.0. From 1991 to 1998, the rate for young teenagers dropped 21 percent, while the rate for older teenagers declined 13 percent. The declines in birth rates have been steepest for non-Hispanic black teenagers; rates fell by 20 to 32 percent. The teenage *pregnancy* rate declined 15 percent from 1991 (116.5) to 1996 (98.7), reflecting concurrent declines in birth and abortion rates.

The birth rate for women in their early twenties increased in 1998, rising to 111.2 per 1,000 women aged 20–24 years. The rate for women aged 25–29 years increased 2 percent to 115.9 per 1,000 women. Women in their twenties have the highest birth rates; therefore, their rates are critical to determining overall childbearing patterns.

Birth rates for women in their thirties increased to 87.4 per 1,000 women aged 30–34 years, up 2 percent, and to 37.4 per 1,000 women aged 35–39 years, up 4 percent. The rates for these age groups are at their highest in at least three decades. **The birth rate for women aged 40–44** years increased again in 1998 to 7.3 per 1,000.

The **first birth rate** declined again in 1998, to 26.4 first births per 1,000 women aged 15–44 years, a record low. The **median age at first birth** increased to 24.3 years; the median has risen slowly but steadily since 1972 (22.0).

The **birth rate for unmarried women** increased 1 percent in 1998 to 44.3 births per 1,000 unmarried women aged 15–44 years. The number of births to unmarried women rose 3 percent to 1,293,567, the highest number ever reported. Most of the increase was linked to the rise in the number of unmarried women in the childbearing ages. The percent of all births that were to unmarried women increased to 32.8 percent in 1998, compared with 32.4 percent in 1997.

Cigarette smoking during pregnancy declined again in 1998, to 12.9 percent. The overall rate has fallen steadily since 1989. However tobacco use by pregnant teenagers continued to increase in 1998. Sizeable increases were reported for non-Hispanic black teenagers. Overall smoking rates remain lowest for non-Hispanic black, Hispanic, and Asian or Pacific Islander women. Infant birthweight is seriously compromised by maternal smoking: In 1998, 12.0 percent of births to smokers compared with 7.2 percent of births to nonsmokers weighed less than 2,500 grams (5 lb 8 oz).

The proportion of women beginning **prenatal care** in the first trimester of pregnancy rose slightly to 82.8 percent for 1998, the ninth consecutive year of increase. After showing little change in the 1980's, the percent of women with timely care has risen 10 percent during the 1990's. Gains in first trimester care for 1997–98 were found for all race and ethnic groups except non-Hispanic white mothers. The overall proportion of late or no care was unchanged at 3.9 percent, but is down from a high of 6.4 percent in 1989. Over the decade, the largest gains in timely care have occurred among groups with the least favorable levels of care: Hispanic, non-Hispanic black, American Indian, and Hawaiian women.

Data on **method of delivery** show that the rate of cesarean delivery increased 2 percent between 1997 and 1998 (from 20.8 to 21.2 percent). This was the second consecutive increase in the cesarean rate after declining each year between 1989 and 1996. Despite the recent increase, the cesarean rate in 1998 was still 7 percent lower than in 1989 (22.8 percent). The **primary cesarean rate** in 1998 (14.9 per 100 live births to women who had no previous cesarean) was 2 percent higher than in 1997 (14.6). This was the first time this rate increased during the 1989–98 period. The rate of vaginal birth following a previous cesarean delivery (VBAC) declined 4 percent

between 1997 and 1998 (from 27.4 to 26.3 per 100 births to women who had a previous cesarean). Between 1996 and 1998 the VBAC rate fell 7 percent after increasing 50 percent between 1989 (18.9) and 1996 (28.3). The **rate of induction of labor** has risen every year since 1989, rising from 9 percent to 19 percent, or nearly one in five births in 1998.

Multiple births continued to climb in 1998; the number of twin births jumped 6 percent to 110,670, the largest single year increase in several decades. The number of triplets and other higher order multiple births climbed 13 percent to 7,625. Since 1980, the twin birth rate has risen 49 percent (from 18.9 to 28.1 per 1,000 live births), and the triplet and other higher order multiple birth rate has risen 423 percent (from 37.0 to 193.5 per 100,000). In 1998 one in every six infants born to women 45–49 years of age, and one in every three births to women 50–54 years of age was born in a multiple delivery.

The rate of **preterm birth** (less than 37 competed weeks of gestation) increased again for 1998 to 11.6 percent, from 11.4 percent for 1997. The percent of births born preterm has risen 9 percent since 1990 (10.6 percent), and 23 percent since 1981 (from 9.4 percent). Most of the current year rise was among births born moderately preterm, or at between 32 and 36 weeks of gestation. For 1997–98, the preterm birth rate increased among non-Hispanic whites (9.9 to 10.2 percent) and Hispanics (from 11.2 to 11.4), and was unchanged among non-Hispanic blacks (17.6 percent). The upswing in preterm births of recent years has been influenced in part by increases in multiple births, which are more likely to be born at shorter gestational ages than singleton births; the preterm rate has risen slightly for singleton births.

The overall rate of **low birthweight** (LBW) (less than 2,500 grams) rose from 7.5 to 7.6 percent for 1997–98. The percent LBW has increased 9 percent for the 1990's. All of the current year rise, and much of the rise since 1990, is the result of increases in the multiple birth rate (multiple births are at much greater risk of LBW than singletons); LBW among singleton births declined slightly for 1997–98, from 6.08 to 6.05 percent. Singleton LBW was down slightly for the current year among each of the three largest racial and ethnic groups: non-Hispanic white, non-Hispanic black, and Hispanic.

Introduction

This report presents detailed data on numbers and characteristics of births in 1998, birth and fertility rates, maternal lifestyle and health characteristics, medical services utilization by pregnant women, and infant health characteristics. These data provide important information on fertility patterns among American women by such characteristics as age, live-birth order, race, Hispanic origin, marital status, and educational attainment. Up-to-date information on these fertility patterns is critical to understanding population growth and change in this country and in individual States. Data on maternal characteristics such as weight gain, tobacco and alcohol use, and medical risk factors are useful in accounting for differences in birth outcomes. Information on use of prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth and place of delivery, and method of delivery by maternal demographic characteristics can also help to explain differences in birth outcomes. It is very important that data on birth outcomes, especially levels of plurality, low birthweight, and preterm birth, be continuously monitored because these variables are important predictors of infant mortality and morbidity.

A report of preliminary birth statistics for 1998 presented data on selected topics based on a substantial sample (more than 99 percent) of the 1998 birth file (1). The selected measures included birth rates by age, race, and Hispanic origin of mother, and by live-birth order, and births by marital status, prenatal care, cesarean delivery, and low birthweight. Findings for these selected measures based on the pre-liminary data are essentially identical to those presented here based on final data.

In addition to the tabulations included in this report, more detailed analysis is possible by using the natality public-use data tape, which is issued for each year. Birth data have also been available in CD-ROM format since 1990, and a selection of tables of detailed data are available on the NCHS Internet site at http://www.cdc.gov/nchs/ births.htm (2).

Methods

Data shown in this report are based on 100 percent of the birth certificates registered in all States and the District of Columbia. More than 99 percent of births occurring in this country are registered (3). Tables that show data by State also provide separate information for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas (Northern Marianas). However, these areas are not included in totals for the United States. Data for the Northern Marianas were available for the first time in 1998.

In this report, tabulations of births beginning with 1980 data are by race of mother; for years prior to 1980, tabulations are by race of child. Details of the differences in tabulation procedure are described in the Technical notes. Text references to black births and black mothers or white births and white mothers are used interchangeably.

Race and Hispanic origin are reported independently on the birth certificate. In tabulations of birth data by race and Hispanic origin, data for Hispanic persons are not further classified by race because the vast majority of women of Hispanic origin are reported as white. Most tables in this report show data for these categories: white, total; white, non-Hispanic; black, total; black, non-Hispanic; and Hispanic. Except when presenting birth rates, data for Hispanic subgroups are presented for the following five groups: Mexican, Puerto Rican, Cuban, Central and South American, and other and unknown Hispanic. When reporting birth rates for Hispanic subgroups, births to Central and South American women are added to births to other and unknown Hispanic women because detailed population data for Central and South American women are not separately available. Data are shown for five Asian or Pacific Islander (API) subgroups: Chinese, Japanese, Hawaiian, Filipino, and "other" API. In addition, nine States report data on API subgroups included in the "other API" category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API); see Technical notes.

U.S. and State-level birth and fertility rates in this report were computed on the basis of population denominators provided by the U.S. Bureau of the Census. Rates by State shown in this report may differ from rates computed on the basis of other population estimates. Additional information on the measurement of marital status, gestational age, and birthweight; the computation of derived statistics and rates; population denominators; random variation and relative standard error; and the definitions of terms are presented in the Technical notes.

Information on births by age, race, or marital status of mother is imputed if it is not reported on the birth certificate. These items were not reported for less than 1 percent of U.S. births in 1998. (See Technical notes for additional information.) All other maternal and infant characteristics (except items on which length of gestation is calculated) are not imputed; see Technical notes. Births for which a particular characteristic is unknown are subtracted from the figures for total births that are used as denominators before percents, percent distributions, and medians are computed. Thus, for example, the proportion of women receiving care in the first trimester of pregnancy is computed on the basis of births for which the month of pregnancy prenatal care began was reported. Levels of nonreporting vary substantially by specific item and by State. Table I in the Technical notes provides information on the percent of records with missing information for each item by State for 1998. Readers should note that the levels of incomplete reporting for some of the medical items are quite high in some States. Data for Connecticut, Hawaii, and Oklahoma, as well as the Northern Marianas, are of particular concern.

Demographic characteristics

Births and birth rates

Number of births

The number of births in the United States increased 2 percent in 1998, to 3,941,553, compared with 3,880,894 in 1997. This is the first increase in the number of births since 1990. Between 1990, the most recent high point in U.S. births, and 1997, the number of births fell 7 percent (see tables 1–12 for national and State birth data by age, live-birth order, race, and Hispanic origin).

The number of births for nearly all race and Hispanic origin groups increased in 1998 (tables 1 and 6). Increases of up to 2 percent were reported for non-Hispanic white and non-Hispanic black births. Births increased 3 to 4 percent for American Indian, Mexican, Puerto Rican, and Cuban women. Hawaiian births increased 6 percent. Declines of 1 percent were reported for births to Chinese and Filipino women (data for 1998 are shown in table 13).

Crude birth rate

The crude birth rate increased from 14.5 live births per 1,000 total population in 1997 to 14.6 in 1998. The increase in 1998 was the first since 1990 (16.7). Between 1990 and 1997, the rate fell 13 percent.

Fertility rate

The fertility rate, which relates births to the number of women in the childbearing ages, was 65.6 live births per 1,000 women aged 15–44 years in 1998, 1 percent higher than in 1997 (65.0). Like the number of births and the birth rate, the recent high point for the fertility rate was 1990 (70.9); between 1990 and 1997, the fertility rate dropped 8 percent (table 1 and figure 1).

Fertility rates by race and Hispanic origin increased 1 percent each for non-Hispanic white (57.7 per 1,000 women aged 15–44 years) and non-Hispanic black women (73.0), 2 percent for American Indian women (70.7), and 5 percent for Puerto Rican women (75.5). Rates fell 3 to 4 percent for Asian or Pacific Islander (API) (64.0) and Mexican women (112.1). The rate for Cuban women dropped from 57.4 to 50.1

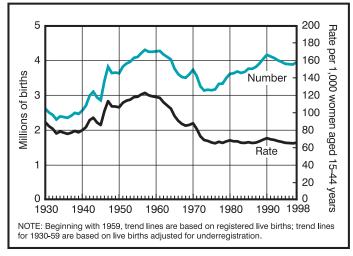


Figure 1. Live births and fertility rates: United States, 1930–98

per 1,000 (tables 1 and 6). Birth and fertility rates for specific API groups cannot be computed because the necessary populations are not available.

The modest increases in fertility rates for non-Hispanic white and black women account in large part for the 1-percent upturn in the overall fertility rate. It is possible that the 7-year downward trend in U.S. fertility has ended, at least temporarily. During the years 1990–97, the fertility rate for non-Hispanic white women declined 9 percent, and the rate for non-Hispanic black women fell 19 percent. The trends in fertility rates in the 1990's for Mexican, Puerto Rican, Cuban, and API women have not been consistent. The fertility rate for American Indian women has increased modestly for 2 consecutive years, marking a halt in the general downward trend in this rate during the 1990's.

The fertility rate for Hispanic women in 1998 was the lowest reported since 1989 when data accounting for virtually all Hispanic births in the United States first became available. The fertility rate for Mexican women in 1998 is also at its lowest since 1989, 8 percent below the peak recorded in 1991 (121.6). Trends in fertility for Hispanic women by subgroup for 1989–95 are presented in more detail in a recent report (4).

Age of mother

Teenagers—The birth rate for the youngest teenagers was 1.0 births per 1,000 females 10–14 years in 1998, a record low for this age group (table 4). This rate has declined steadily since 1994 (the rate was 1.4 in each year 1989 through 1994). The number of births to 10–14-year-olds fell 7 percent from 1997 to 1998, to 9,462, the lowest total reported in more than three decades (8,593 in 1967). The decline in the number of births to very young teenagers occurred solely as a result of the reduction in the birth rate; the number of female teenagers has increased steadily in the 1990's (5).

The **birth rate for teenagers 15–19 years** fell 2 percent to 51.1 per 1,000. This rate was 18 percent lower than the recent peak reported in 1991 (62.1) (table A). The declines in the 1990's in the teenage birth rate almost fully reverse the 24-percent increase that occurred from 1986 (50.2 per 1,000) to 1991. State-specific birth rates for teenagers are discussed in the section "Births and birth rates by State."

Table A. Birth rates for teenagers 15–19 by age, race, and Hispanic origin of mother: United States, 1991, 1997, and 1998, and percent change, 1991–98

[Rates per 1,000 women in specified group]

| | | Non-H | ispanic | |
|-------------------------------------------------------|----------------------|----------------------|-------------------------|-------------------------|
| Year and age | Total ¹ | White | Black | Hispanic |
| 15–19 years | | | | |
| 1998 | 51.1 52.3 62.1 | 35.2 36.0 43.4 | 88.2 90.8 118.9 | 93.6 97.4 106.7 |
| Percent decline 1991–98 Percent decline 1997–98 | -18 -2 | -19 -2 | -26 -3 | -12 -4 |
| 15–17 years | | | | |
| 1998 | 30.4 32.1 38.7 | 18.4 19.4 23.6 | 58.8 62.6 86.7 | 62.3 66.3 70.6 |
| Percent decline 1991–98 Percent decline 1997–98 | -21 -5 | -22 -5 | -32 -6 | -12 -6 |
| 18–19 years 1998 1997 1991 ² | 82.0 83.6 94.4 | 60.6 61.9 70.5 | 130.9 134.0 163.1 | 140.1 144.3 158.5 |
| Percent decline 1991–98 Percent decline | -13 | -14 | -20 | -12 |
| 1997–98 | -2 | -2 | -2 | -3 |

¹Includes races other than white and black and origin not stated.

²See reference 4 for information on reporting areas in 1991.

Birth rates for teenage subgroups 15–17 and 18–19 years also fell between 1997 and 1998. The rate for teenagers 15–17 years declined 5 percent to 30.4 per 1,000, a record low (3,6). This rate fell by 21 percent from 1991 (38.7) to 1998 (table 4 and figure 2). The number of births to teenagers 15–17 years fell 4 percent from 1997 to 1998 to 173,231, the fewest since 1987 (172,591).

The birth rate for older teenagers 18–19 years declined 2 percent, to 82.0 per 1,000. This rate fell 13 percent from 94.5 in 1992 (its recent high) to 1998. However, the number of births to older teenagers increased 3 percent between 1997 and 1998 to 311,664, the first increase since 1990. This increase is due entirely to the 5-percent rise in the number of female teenagers 18–19 years from 1997 to 1998. (5).

Teenage birth rates by race and Hispanic origin vary substantially (tables 3, 4, 8, and 9). Rates in 1998 were highest for Mexican, non-Hispanic black, Puerto Rican, and American Indian teenagers and lowest for non-Hispanic white, Cuban, and API teenagers, a pattern that has been observed since 1994. Between 1997 and 1998, teenage birth rates declined for all race and Hispanic origin groups except American Indian, Puerto Rican, and "other" Hispanic teenagers. The rate for Mexican teenagers fell 9 percent; declines for non-Hispanic white, non-Hispanic black, and API teenagers were 2 to 3 percent each. The rate for Puerto Rican teenagers rose 8 percent, while the rate for American Indian teenagers increased very slightly.

From 1991, when rates for teenagers generally were at a peak, to 1998, birth rates fell 19 and 26 percent for non-Hispanic white and

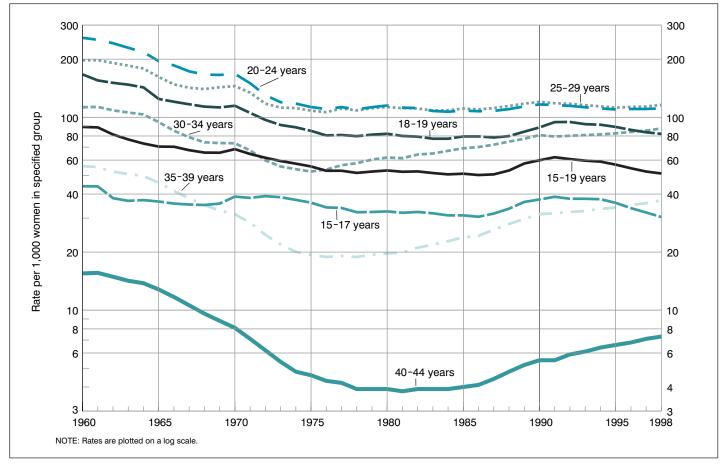


Figure 2. Birth rates by age of mother: United States, 1960–98

black teenagers, respectively. Despite the 8-percent increase in the rate for Puerto Rican teenagers, their rate in 1998 was still 26 percent lower than its recent peak in 1992 (110.4). The 1998 rates for American Indian and API teenagers were 15 to 16 percent lower, respectively, than in 1991. The rate for Mexican teenagers has declined by 12 percent just since 1995.

Teenage pregnancy rates (based on the sum of live births, induced abortions, and fetal losses) have also declined in recent years (6–8). The pregnancy rate for teenagers 15–19 years fell 15 percent from 116.5 per 1,000 in 1991 to 98.7 in 1996, reversing an 11-percent rise from 1986 to 1991 (7). (The most recent year for which *pregnancy* rates are available is 1996.) From 1990 to 1996, pregnancy rates declined 20 to 22 percent for non-Hispanic white (68.1 per 1,000 in 1996) and non-Hispanic black (177.8) teenagers. The rate for Hispanic teenagers declined 6 percent from 1994 to 1996 (157.1) (7). Further declines in the teenage pregnancy rate since 1996 are indicated by the steady decline in the teenage birth rate and declines in abortions among teenagers, according to preliminary data (9).

The factors accounting for the current downturn in teenage pregnancy and birth rates are discussed in recent reports (6,7). Briefly, the proportion of teenagers who are sexually experienced stabilized in the mid 1990's, reversing the steady increases over the past two decades (7,10). Many public and private initiatives have focused teenagers' attention on the importance of pregnancy prevention through abstinence (11). Moreover, teenagers are more likely to use contraceptives at first intercourse, especially condoms (12). Some sexually active teenagers have switched to implant and injectable contraceptives, which are effective new birth control methods (13).

Women aged 20 years and over: Women in their twenties—The birth rate for women aged 20–24 years increased 1 percent in 1998 to 111.2 per 1,000, (tables 3, 4, 8, and 9). This rate had declined 5 percent during 1990–96, and was unchanged between 1996 and 1997. The birth rate for women aged 25–29 years rose 2 percent in 1998 to 115.9 per 1,000; this rate has increased by 3 percent over a 3-year period, following steady declines during 1990–95. Birth rates for women in their twenties, the principal childbearing ages, have been relatively stable over the past two decades (figure 2).

Birth rates for women in age groups 20–24 and 25–29 years were consistently highest for Mexican women. For example, the rate for Mexican women aged 20–24 years, 197.6 per 1,000, was nearly three times the rate for API women in this age group (68.8) and more than double the rate for Cuban women (85.6).

Women in their thirties—Birth rates for women in their thirties rose again in 1998. Rates for women in these age groups have generally increased steadily since the late 1970's, a pattern unlike any other age group (tables 4 and 9 and figure 2) (14). The rate for women aged 30–34 years increased 2 percent in 1998 to 87.4 per 1,000. This rate increased by 67 percent since its low point in 1975 (52.3), and the 1998 rate is higher than any year since 1965 (94.4). Most of this increase occurred by 1990. Despite the higher birth rate, the number of births to women aged 30–34 years increased only slightly in 1998 because the number of women in that age group declined 2 percent (5). The **birth rate for women in their mid- to late thirties** increased 4 percent to 37.4 per 1,000 women aged 35–39 years. This rate has nearly doubled since 1978 (19.0); the 1998 rate is higher than in any year since 1967 (38.3). Although the pace of increase slowed in the 1990's through 1997, the 1998 rate was still 18 percent higher than the rate in 1990 (31.7). The number of births to women aged 35–39 reached a record high in 1998 (424,890), 4 percent more than in 1997, and one-third more than in 1990 (317,583). All of this increase resulted from the increase in the birth rate; the number of women aged 35–39 years was essentially unchanged in 1998 (5). Among women in their thirties, birth rates were highest for API, Mexican, and "other" Hispanic women (tables 3 and 8).

Women in their forties—The birth rate for women aged 40–44 years increased from 7.1 per 1,000 to 7.3 in 1998. This rate increased nearly a third from 1990 (5.5) to 1998. From 1981 to 1998, the rate increased by 92 percent; the 1998 rate is higher than in any year since 1970 (8.1). From 1997 to 1998, the number of births in this age group rose 6 percent to 81,027; the number has increased by two-thirds during the 1990's.

The **birth rate for women aged 45–49 years** remained unchanged at 0.4 births per 1,000 in 1998. Reflecting the continued increase in the number of women in this age group (who were born during 1949–53), the number of births to women aged 45–49 years rose 9 percent to 3,624, the highest number recorded in three decades (3,790 in 1968).

Births to women aged 50 years and over—Birth data for women aged 50–54 years are reported for the second consecutive year in this report. These data were not available during 1964–96; for that period, mother's age was edited for ages 10–49 years (3). Additional information on the editing procedures is presented in the Technical notes. Because of the recent advances in fertility-enhancing therapies, an increasing number of women are giving birth at age 50 years and over. In 1998, 158 births were reported to women aged 50–54 years (tables 2 and 7); 54 of these births were part of a multiple delivery (see section below on "Multiple births"). This number is too small for computing a reliable age-specific birth rate. Therefore, in computing birth rates by age of mother, births to women aged 50–54 years have been included with births to women aged 45–49 years; the denominator for the rate is women aged 45–49 years.

Birth rates for women in their mid to late thirties and over increased somewhat more during 1997–98 than earlier in the 1990's when the pace of increase slowed (table 4). Contributing to the renewed rise may be several factors, including increasing birth expectations among childless women as the availability and use of fertility-enhancing therapies has increased (15). Among currently childless women aged 35–44 years reporting impaired fecundity according to the National Survey of Family Growth, the proportion seeking fertility drug treatment rose considerably from 1982 to 1995 (12,16).

Live-birth order

The first birth rate dropped slightly in 1998 to 26.4 first births per 1,000 women aged 15–44 years (table 5). This is a record low. The 1998 rate was 9 percent lower than in 1990 (29.0), its recent high point. The rates for second, third, and fourth births increased. Birth rates for higher birth orders were unchanged.

While the first birth rate declined less than 1 percent overall, there were substantial differences in the trends by age of mother (table 3;

tabular data not shown for 1997 and earlier years). Rates declined for teenage subgroups 15–17 and 18–19 years by 5 and 2 percent, respectively. Rates for women in their twenties declined up to 1 percent. In contrast, first birth rates rose 3 to 4 percent for women in their thirties. The proportion of all first births occurring to women aged 30 years and over remained unchanged in 1998 at 23 percent; in 1975 it was just 5 percent (14).

Another measure that can be useful in interpreting age trends in childbearing is the **median age at first birth**. This measure has gradually increased since the mid-1970's as the tendency for women to postpone childbearing was underway. The median age at first birth was 24.3 years in 1998, compared with 23.8 in 1990 and 22.0 in 1972.

The **birth rate for second births to teenagers** who have had a first birth increased again slightly in 1998 compared with 1997, after falling 21 percent from 1991 to 1996 (6). All of the decline in teenage birth rates in 1998 was thus due to declines in first birth rates.

Total fertility rate

The total fertility rate (TFR) indicates the number of births that a hypothetical group of 1,000 women would have if they experienced throughout their childbearing years the age-specific birth rates observed in a given year. This measure shows the potential impact of current fertility patterns on completed family size. Because it is computed from age-specific birth rates, the TFR is age-adjusted; it is not affected by changes over time in age composition.

The TFR in 1998 was 2,058.5, 1 percent higher than in 1997 (tables 4 and 9). The TFR has increased slightly from 1995—by 2 percent overall—following a 3-percent decline from 1990 to 1995. The increase in the TFR in 1998 resulted from the rise in age-specific birth rates for all women in age groups 20–44 years, which more than compensated for the declines in the teenage birth rates.

The U.S. TFR remains below "replacement" level (2,100), the rate at which a given generation can exactly replace itself. The TFR has been below "replacement" since 1971 (2,266.5). TFR's vary substantially among racial and Hispanic origin groups. In 1998, as in recent years, the TFR was above "replacement" for Mexican, non-Hispanic black, and Puerto Rican women. Rates were below "replacement" for American Indian, API, Cuban, and non-Hispanic white women (tables 4, 9, 13, and 14). Increases and decreases between 1997 and 1998 in most TFR's were 2 percent or less; rates declined 3 percent for Mexican and API women and increased 5 percent for Puerto Rican women. Statespecific total fertility rates for 1998 are discussed in the next section.

Births and birth rates by State

Birth data by race and by Hispanic origin for 1998 are shown in **tables 10–12** for the 50 States and the District of Columbia, and Puerto Rico, the Virgin Islands, Guam, American Samoa, and the Northern Marianas. Note that the American Indian, Asian or Pacific Islander (API) and Hispanic populations (and Hispanic subgroups) are highly concentrated geographically.

The **number of births** increased in 43 States and Guam and American Samoa, and declined in 7 States, the District of Columbia, Puerto Rico, and the Virgin Islands. Increases and declines of up to 3 percent were found in 42 of the States, the District of Columbia, Guam, and American Samoa. The number increased 4 to 7 percent in Colorado, Georgia, Idaho, Nevada, North Carolina, Tennessee, and Utah, and declined 5 to 11 percent in North Dakota, Puerto Rico, and the Virgin Islands.

Crude birth rates by State ranged from 11 births per 1,000 total population (Maine and Vermont) to 22 per 1,000 (Utah) (**table 10**). Birth rates increased in 32 States and American Samoa, declined in 6 States, the District of Columbia, Puerto Rico, the Virgin Islands, and Guam, and were unchanged in 12 States. Changes were no more than 2 percent in most States, and were not significant in 34 of the States and the District of Columbia or in Guam and American Samoa. A statistically significant decline of 5 percent was recorded for North Dakota.

Fertility rates per 1,000 women aged 15–44 years ranged by State from a low of 49 (Vermont) to a high of 91 (Utah) (table 10). Rates increased in 42 States, Guam, and American Samoa, and declined in 7 States, the District of Columbia, Puerto Rico, and the Virgin Islands; the rate was unchanged in New York. Changes in most States were no more than 2 percent and were not statistically significant in 23 States, the District of Columbia, Guam, and American Samoa. A significant increase of 5 percent was reported for Colorado, whereas a 4-percent decline was found for North Dakota; the rate for American Samoa fell 24 percent.

State-specific total fertility rates for 1998 are shown in table 10. These rates provide a summary measure of lifetime fertility at the State level; rates for 1980, 1990, and 1996–97 have been published (17–20).

Rates by State for 1998 vary substantially, from a low of 1,569.5 (or 1.57 births per woman) for Vermont to a high of 2,712.0 (2.71 births per woman) for Utah. Differences in the total fertility rates and changes between 1997 and 1998 by State are quite similar to those in the general fertility rate.

Birth rates for teenagers

Birth rates for teenagers by age group and State are shown for 1998 in table 10. Rates per 1,000 women aged 15–19 years ranged by State from 24.4 (Vermont) to 73.0 (Mississippi). The highest rate was reported for Guam, 104.8. Birth rates for teenagers have been declining in the United States since 1991. Teenage birth rates were lower in 1998 than in 1997 in all but 9 States. However, the overall trend for the 1990's was downward: Rates for 1998 were lower than for 1991 in all States and the District of Columbia and the Virgin Islands; declines were statistically significant in all States and in the territories except for Puerto Rico and Guam which increased (table B). Declines exceeded 25.0 percent in 5 States, and exceeded 20.0 percent in 13 States, the District of Columbia, and the Virgin Islands. More detailed information on current trends and variations in State-specific teenage birth rates by age, race, and Hispanic origin is presented in recent reports (6,21).

Table B. Birth rates for teenagers aged 15–19 years by State, 1991 and 1998, and percent change, 1991–98: United States, each State and territory

[Birth rates per 1,000 estimated female population aged 15-19 years in each area]

| State | 1991 | 1998 | Percent change, 1991–98 | State | 1991 | 1998 | Percent change, 1991–98 |
|----------------------------|-------|------|-------------------------------|-------------------|------|-------|-------------------------------|
| Jnited States ¹ | 62.1 | 51.1 | -17.7 | Nebraska | 42.4 | 37.0 | -12.7 |
| | | | | Nevada | 75.3 | 65.7 | -12.7 |
| Alabama | 73.9 | 65.5 | -11.4 | New Hampshire | 33.3 | 27.1 | -18.6 |
| Alaska | 65.4 | 42.4 | -35.2 | New Jersey | 41.6 | 34.6 | -16.8 |
| Arizona | 80.7 | 70.5 | -12.6 | New Mexico | 79.8 | 69.0 | -13.5 |
| Arkansas | 79.8 | 70.8 | -11.3 | New York | 46.0 | 38.5 | -16.3 |
| California | 74.7 | 53.5 | -28.4 | North Carolina | 70.5 | 61.0 | -13.5 |
| Colorado | 58.2 | 48.7 | -16.3 | North Dakota | 35.6 | 30.4 | -14.6 |
| Connecticut | 40.4 | 35.8 | -11.4 | Ohio | 60.5 | 48.1 | -20.5 |
| Delaware | 61.1 | 53.9 | -11.8 | Oklahoma | 72.1 | 61.6 | -14.6 |
| District of Columbia | 114.4 | 86.7 | -24.2 | Oregon | 54.9 | 47.4 | -13.7 |
| Florida | 68.8 | 55.5 | -19.3 | Pennsylvania | 46.9 | 36.9 | -21.3 |
| Georgia | 76.3 | 65.4 | -14.3 | Rhode Island. | 45.4 | 41.0 | -9.7 |
| Hawaii | 58.7 | 45.7 | -22.1 | South Carolina. | 72.9 | 60.4 | -17.1 |
| daho | 53.9 | 44.8 | -16.9 | South Dakota | 47.5 | 38.5 | -18.9 |
| llinois | 64.8 | 53.2 | -17.9 | Tennessee | 75.2 | 64.3 | -14.5 |
| ndiana | 60.5 | 53.3 | -11.9 | Texas | 78.9 | 70.9 | -10.1 |
| owa | 42.6 | 35.2 | -17.4 | Utah | 48.2 | 40.9 | -15.1 |
| Kansas | 55.4 | 47.0 | -15.2 | Vermont. | 39.2 | 24.4 | -37.8 |
| Kentucky. | 68.9 | 57.0 | -17.3 | Virginia | 53.5 | 43.5 | -18.7 |
| _ouisiana. | 76.1 | 65.4 | -14.1 | Washington. | 53.7 | 41.7 | -22.3 |
| Maine | 43.5 | 30.4 | -30.1 | West Virginia. | 57.8 | 49.2 | -14.9 |
| Maryland | 54.3 | 43.1 | -20.6 | Wisconsin | 43.7 | 34.8 | -20.4 |
| Massachusetts | 37.8 | 30.8 | -18.5 | Wyoming | 54.2 | 47.8 | -11.8 |
| Michigan | 59.0 | 42.6 | -27.8 | Wjohning | 01.2 | 17.0 | 11.0 |
| Vinnesota | 37.3 | 30.6 | -18.0 | Puerto Rico | 72.4 | 74.3 | 2.6** |
| Mississippi | 85.6 | 73.0 | -14.7 | Virgin Islands | 77.9 | 62.0 | -20.4 |
| Missouri | 64.5 | 51.2 | -20.6 | Guam | 95.7 | 104.8 | 9.5** |
| Montana | 46.7 | 37.1 | -20.6 | American Samoa | 75.7 | 43.9 | 7.5 |
| womana | TU./ | 57.1 | -20.0 | Northern Marianas | | 65.5 | |

** Not significant at p < .05.

- - - Data not available.

¹Excludes data for the territories.

Sex ratio

There were 2,016,205 male live births in 1998 compared with 1,925,348 female live births. These numbers yielded a sex ratio of 1,047 male per 1,000 female live births (tables 13 and 14). The sex ratio has changed very little over the last 50 years and was 1,048 in 1997. Similar to previous years, Asian or Pacific Islander mothers had the highest sex ratio (1,061). The sex ratio for Hispanic mothers (1,040) was intermediate between non-Hispanic white mothers (1,052) and non-Hispanic black mothers (1,034). The ratio for American Indian births was 1,038.

Month of birth

Monthly birth rates in 9 months of 1998 were above the rates for the same months observed in 1997. The peak months of occurrence of births in 1998 were July, August, and September (table 15). If the birth and fertility rates are adjusted to account for the characteristic seasonal variation, it is then possible to observe the underlying trends in these rates. The months of January, May, and July had the lowest seasonally adjusted birth rates since 1976. The seasonally adjusted birth rate for 7 months was higher in 1998 than for the same months in 1997.

Day of the week

The average number of births on any given day in 1998 was 10,799 (table 16). There is a large variation in the number of births by day of the week. For Tuesdays, the most common day to have a birth, the average was 12,393 while for Sundays, the least common day, the average was 7,829.

Variation in the daily pattern of births can also be measured by an index of occurrence. In 1998 the Sunday index was 72.5, an indication that there were 27.5 percent fewer births on Sundays than the daily average, considered to be 100.0. The Saturday index was 80.8. As in past years, Tuesdays had the highest index in 1998, 114.8.

A weekend deficit is apparent for vaginal and cesarean deliveries, but is far larger for cesarean deliveries, particularly repeat cesareans. In 1998 the Sunday index for vaginal births was 77.6, compared with 63.4 for primary cesareans and 37.9 for repeat cesareans.

Births to unmarried women

The birth rate for unmarried women in 1998 was 44.3 births per 1,000 unmarried women aged 15–44 years, 1 percent higher than in 1997 (44.0), but still 6 percent below its highest level, 46.9 in 1994. The **number of births to unmarried women** increased 3 percent to 1,293,567 in 1998, the highest number ever reported. Most of this 3-percent increase is due to the 2-percent growth in the population of unmarried women. The **percent of all births occurring to unmarried women** rose from 32.4 to 32.8 percent in 1998. (See **table C and tables 17,18**.)

The procedures for reporting the mother's marital status changed only in Connecticut, beginning June 15, 1998. Connecticut now reports the mother's marital status from a direct question, and the question is on the State's birth certificate. The reporting change in Connecticut, which accounts for just 1 percent of U.S. births, is discussed in more detail in the Technical notes. Prior to June 1998, the mother's marital status was inferred in Connecticut by comparing the

Table C. Number, rate, and percent of births to unmarried women, and birth rate for married women: United States, 1980 and 1985–98

| | Birth rate for | | | |
|------|----------------|-------------------|----------------------|----------------------------|
| Year | Number | Rate ¹ | Percent ² | married women ³ |
| 1998 | 1,293,567 | 44.3 | 32.8 | 85.7 |
| 1997 | 1,257,444 | 44.0 | 32.4 | 84.3 |
| 1996 | 1,260,306 | 44.8 | 32.4 | 83.7 |
| 1995 | 1,253,976 | 45.1 | 32.2 | 83.7 |
| 1994 | 1,289,592 | 46.9 | 32.6 | 83.8 |
| 1993 | 1,240,172 | 45.3 | 31.0 | 86.8 |
| 1992 | 1,224,876 | 45.2 | 30.1 | 89.0 |
| 1991 | 1,213,769 | 45.2 | 29.5 | 89.9 |
| 1990 | 1,165,384 | 43.8 | 28.0 | 93.2 |
| 1989 | 1,094,169 | 41.6 | 27.1 | 91.9 |
| 1988 | 1,005,299 | 38.5 | 25.7 | 90.8 |
| 1987 | 933,013 | 36.0 | 24.5 | 90.0 |
| 1986 | 878,477 | 34.2 | 23.4 | 90.7 |
| 1985 | 828,174 | 32.8 | 22.0 | 93.3 |
| 1980 | 665,747 | 29.4 | 18.4 | 97.0 |

¹Births to unmarried women per 1,000 unmarried women aged 15-44 years.

²Percent of all births to unmarried women.

³Births to married women per 1,000 married women aged 15–44 years.

surnames of the mother, father, and child. Reporting procedures for marital status in Connecticut are now essentially the same as those in all but two States (Michigan and New York); see Technical notes.

If the reporting change in Connecticut had not occurred, it is estimated that the number of nonmarital births would have been about 1,000 higher. The birth rate and the percent of births to unmarried women for the Nation, however, were not affected by the change in Connecticut. It is important to note that as a result of the change implemented by Connecticut, its birth data by marital status are more accurate in 1998 than in prior years.

Birth rates for unmarried women vary considerably by race and Hispanic origin. In 1998 the rates per 1,000 unmarried women were 28.0 per 1,000 for non-Hispanic white women, 73.3 for black women, and 90.1 for Hispanic women. The only rate to increase was for non-Hispanic white women, up 1 percent. The birth rate for unmarried black women has declined 19 percent since 1989 (90.7); the 1998 rate is lower than in any year since 1969 when data for black women became available. The birth rate for unmarried Hispanic women in 1998, 90.1 per 1,000, was at its lowest level since 1990 (89.6)

Birth rates for unmarried women by age continue to be highest for women aged 18–19 and 20–24 years, followed closely by women aged 25–29 years (**figure 3**). Rates for younger teenagers and women in age groups 30 years and over are considerably lower (tables 17 and 18). Among teenagers and women aged 20–24 years, rates for unmarried black and Hispanic women on average were 2 to 4 times the rates for non-Hispanic white women in the same age groups. Among age groups 25–29 years and over, rates were considerably higher for Hispanic women than for black or non-Hispanic white women.

Age-specific birth rates for unmarried women declined only for teenagers in 1998, continuing a trend underway since 1994. During the 1994–98 period, the rates for unmarried teenagers 15–17 and 18–19 years declined 16 and 8 percent, respectively. The rate for young black teenagers has been falling since 1991, and dropped steeply, by 30 percent, during 1991–98.

Birth rates for unmarried women in age groups 20–24 and 25–29 years increased by 2 and 4 percent, respectively, between 1997 and

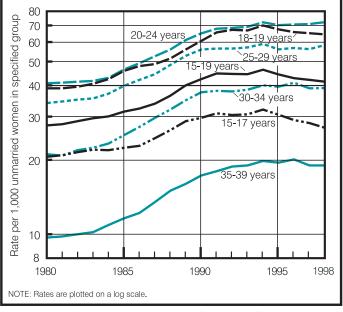


Figure 3. Birth rates for unmarried women, by age of mother: United States, 1980–98

1998, reaching record highs in 1998. Birth rates for unmarried women in age groups 30–34 through 40–44 years were essentially unchanged in 1998. These patterns by age were generally found for all population groups; among women 30 years and over, increases were found only for non-Hispanic white women.

The proportion of all births occurring to unmarried women increased to 32.8 percent in 1998, compared with 32.4 percent in 1997. The proportions for subgroups in 1998 were 21.9 percent, non-Hispanic white; 69.3 percent, non-Hispanic black; and 41.6 percent, Hispanic; each changed very little in recent years (see tables 13, 14, 17, and 19 for 1998 data).

Changes in the proportion of births to unmarried women are affected by trends in births and birth rates for married as well as unmarried women (table C). Because of compensating changes in these measures and in the populations of women by marital status, the proportion of births to unmarried women has changed relatively little since 1994. The birth rate for unmarried women has generally declined, but increased 1 percent from 1997 to 1998. The number of nonmarital births fluctuated during 1994–98, with a small overall increase, reflecting the 6-percent rise in the number of unmarried women during that period (22). In 1998 total births-mostly births to married women-increased for the first time since 1990. However, the increases in the number of unmarried women and their birth rate were larger than the increases in marital fertility. Thus, the proportion of births to unmarried women rose in 1998. Trends in the factors affecting the number and proportion of births to unmarried women should be kept in mind when examining trends in these measures (23).

The numbers and proportions of births to unmarried women by State and by race and Hispanic origin for 1998 are shown in table 19 for the 50 States and the District of Columbia, and each territory. The numbers increased in 46 States, Guam, and American Samoa, and declined in four States (California, Connecticut, New York, and North Dakota), the District of Columbia, Puerto Rico, and the Virgin Islands. Similarly, increases in the proportions exceeded declines: The proportion increased in 44 States, Puerto Rico, the Virgin Islands, and Guam, declined in three States, the District of Columbia, and American Samoa, and was unchanged in three States.

Age of father

The **birth rate per 1,000 men aged 15–54 years** reversed a 7 year decline in 1998, rising 1 percent to 51.0 (**table 20**). This rate fell by 14 percent between 1990 and 1997. Birth rates increased for men in age groups 20–24 through 45–49 years, and declined for teenagers. Information on age of father is often missing on birth certificates of children born to unmarried women, greatly inflating the number of "not stated" in all tabulations by age of father. In 1990 age of father was not reported for 16 percent of births; by 1998 this figure had declined to 14 percent of births. The procedures for computing birth rates by age of father are described in the Technical notes.

Educational attainment

The educational attainment of women who give birth is important because higher educational attainment is associated with more timely receipt of prenatal care and fewer lifestyle and health behaviors during pregnancy that are detrimental to birth outcome (discussed in later sections).

Data from the birth certificate show that the educational attainment of women who gave birth increased substantially over the last few decades, partly reflecting the increases in educational attainment of all women during the time period (24). More than three-fourths of women who gave birth in 1998 had at least 12 years of schooling (78 percent), and 23 percent had at least 4 years of college (table 21). The percent of mothers with at least a high school diploma increased with additional age, to about 90 percent for women who gave birth in their 30's, and then declined slightly for mothers 40 years of age and over (88 percent). The percent of mothers with at least 4 years of college was highest for women 35 years of age and over (43 percent). The median educational attainment for all mothers in 1998 was 12.9 years.

In general, Japanese and Filipino mothers were the most likely to have completed high school—98 percent and 93 percent, respectively (tables 13 and 14). Eighty-seven percent of non-Hispanic white mothers compared with 73 percent of non-Hispanic black mothers and 51 percent of Hispanic mothers had completed high school. Although the overall proportion of Hispanic mothers with at least 12 years of schooling was low, there was tremendous variation among Hispanic subgroups, ranging from 45 percent of Mexican mothers to 87 percent of Cuban mothers (table 14). Only two-thirds of American Indian mothers had 12 or more years of schooling. Thirty percent of non-Hispanic white mothers had at least 4 years of college compared with 11 percent of non-Hispanic black mothers and 7 percent of Hispanic mothers.

Maternal lifestyle and health characteristics

Weight gain

Maternal weight gain is one of the components in the complex relationship between lifestyle characteristics of the mother and the development of the fetus (25). In 1990 the National Academy of Sciences published weight-gain guidelines that varied according to mother's body mass index (BMI), which is calculated from her prepregnancy weight and height. The guidelines recommend that women who are underweight (low BMI) gain 28 to 40 pounds, those who are of normal weight (average BMI) gain 25 to 35 pounds, those who are overweight (high BMI), gain 15 to 25 pounds, and obese women, gain not more than 15 pounds (26).

Information on maternal weight gain is collected on the birth certificate, but information on the mother's prepregnancy weight and height is not. Therefore, it is not possible to determine whether the weight gain was within the recommendations for the mother's BMI. Differences between subgroups in maternal weight gain may reflect differences in the proportion of mothers who gained outside the recommended range but could also be the result of group differences in maternal height and prepregnancy weight.

In 1998 all States except California reported information on weight gain. Births to mothers residing in those States accounted for 87 percent of all births in the United States. In 1998 the majority of women (64 percent) gained 26 pounds or more during pregnancy (table 22). The median weight gain changed very little during the 1989–98 period and was 30.5 pounds in 1998. Despite the consistency of the median weight gain, the percent of mothers who gained at either end of the weight gain spectrum was higher in 1998 than in 1989—weight gains of less than 16 pounds increased from 9.4 percent in 1989 to 11.3 percent in 1998, while weight gains of 46 pounds or more increased from 9.1 percent in 1989 to 11.9 percent in 1998.

The weight gain of the mother during pregnancy varied considerably by period of gestation. Mothers who had preterm infants (gestations of under 37 completed weeks) gained 3 pounds less during pregnancy (27.9 pounds) than mothers who had babies with gestations of 40 weeks and over (30.9 pounds). The median weight gain for non-Hispanic white women (30.8 pounds) was about a pound higher than for either non-Hispanic black women (29.8 pounds) or Hispanic women (30.0 pounds).

The percent of non-Hispanic black mothers who had weight gains of less than 16 pounds (16.8 percent) was much higher than for Asian or Pacific Islander (API) and non-Hispanic white mothers (9.6 percent each) while American Indian mothers were intermediate (15.3 percent) (tables 24 and 25).

Within Hispanic subgroups, the percent of Mexican mothers who gained less than 16 pounds (14.7 percent) was nearly double that for Cuban mothers (7.8 percent) while the remaining groups were intermediate (table 25).

Maternal weight gain has been shown to have a positive correlation with the birthweight of the infant (27). This relationship is substantiated by the data in table 23. The percent of infants with low birthweight drops steadily with increasing weight gain through 45 pounds, from 14.2 to 5.1 percent, and then increases slightly for mothers who gained 46 pounds or more (5.4 percent). The general decline in the percent low birthweight with greater maternal weight gain is replicated when the data are examined according to the period of gestation.

Medical risk factors

Maternal medical risk factors have a major influence on pregnancy complications and infant survival (28–30). Some of the more serious conditions necessitate close medical supervision to prevent severe complications. Sixteen medical risk factors affecting pregnancy are separately identified on the birth certificate. Data for this item were missing from only 1.4 percent of records for 1998, but birth certificate data may underreport overall medical risk factor prevalence (31). Also, rates for rarely occurring medical risk factors and for smaller population groups can vary widely from year to year and should be used with caution.

The most frequently reported medical risk factor is **pregnancyassociated hypertension**. The rate for this factor rose for the seventh consecutive year, from 36.8 to 37.6 per 1,000 for 1997–98. This rate has risen by nearly a third during the 1990's. (See **table 26** for 1998 data.) The pregnancy-associated hypertension rate has risen among all age and race and ethnic groups since the early 1990's. Rates for the related hypertensive disorders, **chronic hypertension** and **eclampsia**, were largely unchanged for 1998, at 7.1 and 3.2 per 1,000, respectively, and have not risen notably during the 1990's.

Diabetes and **anemia** are the second and third most frequently reported complications of pregnancy. The diabetes rate was 26.7 per 1,000 for 1998 compared with 26.4 in 1997. The anemia rate rose to 21.8 from 20.2 in 1997. Despite slight fluctuations in rates for these two conditions, rates have not risen markedly during the 1990's.

Overall, and for the majority of all racial and ethnic groups, the reported rate of **hydramnios/oligohydramnios** (the excess or shortage of amniotic fluid) has consistently increased each year since data for this factor first became available in 1989, and has more than doubled during the 1990's (from 5.9 to 13.2 per 1,000 between 1990 and 1998). Acute or chronic **lung disease** (e.g., asthma, tuberculosis) has exhibited an even more dramatic upward trend. Significant increases for 1990–98 were found for all racial and ethnic groups. Although lung disease is reported in only 1 percent of all pregnant women, the level of lung disease has more than tripled overall since 1990 (from 3.0 per 1,000 to 10.3 between 1990 and 1998).

Medical risk factors during pregnancy vary greatly by **race and ethnicity** (**tables 27 and 28**). American Indian women have consistently had the highest rates of pregnancy-associated hypertension, diabetes, and anemia, comprising about 5 percent of all American Indian pregnancies for each condition in 1998. In comparison, only about 1 percent of Chinese mothers had pregnancy-associated hypertension or anemia. Overall rates can sometimes mask striking differences in age-specific rates among racial and ethnic groups. For example, although the overall diabetes rate for white mothers was 25.9, higher than the black rate of 25.1, black mothers aged 40 years and over (77.7 per 1,000) have a rate 28 percent higher than white mothers 40 years and over (60.8 per 1,000).

Medical risk factor rates also often differ widely by **maternal age** (table 26). Anemia, for example, is more common among younger mothers (30.6 per 1,000 for mothers under 20 years of age compared with 17.6 for mothers 40 years of age and over). Older mothers, conversely, are more prone to chronic conditions such as diabetes (65.7 for mothers 40 years and over compared with 8.2 for mothers under 20 years of age). Some risk factors, however, such as pregnancy-associated hypertension follow a U-shaped pattern, with the highest levels at the extremes of the maternal age distribution.

Tobacco use during pregnancy

Smoking during pregnancy continued to decline according to birth certificate data. In 1998, 12.9 percent of women giving birth were reported to have smoked, down 2 percent compared with 1997 (13.2 percent) and 34 percent since 1989 (19.5 percent), when this information first became available on the birth certificate (20,32). Tobacco use was reported in a comparable manner on the birth certificate in 1998 by 46 States, the District of Columbia, and New York City, comprising 81 percent of U.S. births. Comparable information was not available for California, Indiana, South Dakota, and the remainder of New York State. (See tables 24, 25, and 29–32 for 1998 data.)

Some studies have suggested that smoking may be underreported on birth certificates due to a variety of factors, including the lack of a specific time reference for smoking status, variations in the source of this information for each birth, and the growing stigma associated with smoking (32–35). Nevertheless, trends in maternal smoking based on the birth certificate are generally consistent with those reported for recent years from the National Survey of Family Growth and more recently from the Centers for Disease Control and Prevention's (CDC) Behavioral Risk Factor Surveillance Summary, and variations in smoking among population subgroups found in birth certificate data have been corroborated in other studies (12,36–38).

Tobacco use during pregnancy is associated with a variety of adverse outcomes, including increased risk of miscarriage, intrauterine growth retardation, low birthweight, and infant mortality, as well as negative consequences for child health and development (39–42).

Maternal smoking declined or was unchanged in most racial and Hispanic origin groups; smoking rates increased for Japanese and Hawaiian women, the second year of increase for Hawaiians. As in previous years, rates were highest for non-Hispanic white, American Indian, and Hawaiian women, and lowest for Mexican, Cuban, Central and South American, and Asian or Pacific Islander women (API) (except Hawaiian) (tables 24 and 25). The generally very low smoking rates found for Mexican, Central and South American, Chinese, and Filipino women from birth certificate data have been confirmed by other studies (36,37). Women born in the 50 States and the District of Columbia had substantially higher smoking rates than women born outside these areas, a pattern that has been described elsewhere (tables 24 and 25) (43).

Maternal smoking among teenagers rose about 1 percent overall, the fourth consecutive year of increase, with all of the 1997–98 increase confined to older teenagers (up from 18.8 to 19.2 percent) (figure 4) (32). Smoking rates increased among non-Hispanic white and black teenagers 15–19 years in 1998; the rate for Hispanic teenagers was unchanged at 4.9 percent. The smoking rate for non-Hispanic black teenagers was 7.0 percent in 1998, compared with 5.0 percent in 1994 when the rate began to rise (see table 30 for 1998 data.) The rate for non-Hispanic white teenagers increased to 29.8 percent; their rates are still 4 to 5 times the rates for non-Hispanic black teenagers. Non-Hispanic white women aged 18–19 years had the highest smoking rate of any group, 30.4 percent (table 30). Smoking during pregnancy generally declined for women in age groups 20–39 years. Patterns of smoking rates and trends by age, race, and Hispanic origin are described in detail in a recent NCHS report (32).

Among smokers, the proportion smoking at least half a pack of cigarettes daily has declined steadily in recent years—to 31 percent in 1998 (compared with 41 percent in 1990) (32). Non-Hispanic white mothers and older mothers are more likely than other mothers to smoke half a pack or more (tables 29 and 31).

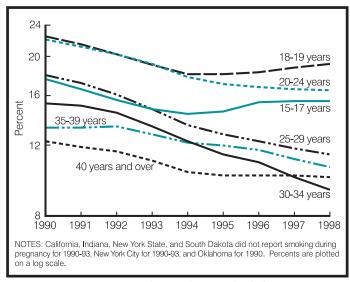


Figure 4. Percent of mothers who smoked during pregnancy by age: Total reporting areas, 1990–98

Smoking rates by maternal educational attainment continue to be highest for women with 9–11 years of education, 26 percent in 1998, and lowest for women with 4 years or more of college, 2 percent (table 31). Even among women aged 20 years and over, smoking rates were highest for mothers who attended but did not graduate from high school—29 percent overall and 48 percent of non-Hispanic white women (tabular data not shown).

Babies born to mothers who smoke during pregnancy are at greatly elevated risk of low birthweight (LBW), a finding documented in birth certificate data as well as in numerous other studies (39,44). In 1998, 12.0 percent of infants born to smokers weighed less than 2,500 grams (5 lb 8 oz) compared with 7.2 percent of births to non-smokers (table 32). This substantial differential is found for every race and Hispanic origin group. Heavier smoking heightens the LBW risk, although LBW is elevated even among babies born to the lightest smokers (1 to 5 cigarettes daily), 11.0 percent (tabular data not shown). Advancing maternal age exacerbates the risk, probably a consequence of the much greater cigarette consumption among older women (table 29).

Alcohol use during pregnancy

Pregnancy and birth outcome can be jeopardized by maternal alcohol use during pregnancy. Even low to moderate alcohol use has been shown to jeopardize birth outcome, independent of other risk factors such as tobacco use and other maternal risk factors (45,46). All States except California and South Dakota included items on alcohol use on their birth certificates in 1998. This reporting area accounted for 87 percent of U.S. births.

Alcohol use during pregnancy is substantially underreported on the birth certificate (31). According to birth certificate data, alcohol use declined again in 1998 to just 1.1 percent of mothers reporting any alcohol use compared with 1.2 percent in 1997 and 4.1 percent in 1989, the first year this information was reported on the birth certificates (see tables 24 and 25 for 1998 data) (20). A recent study based on an analysis of responses by about 1,300 pregnant women in CDC's nationally representative Behavioral Risk Factor Surveillance System

found that about 15 percent of women used alcohol during pregnancy in 1995. The researchers also reported that although alcohol use declined from 1988 (23 percent) to 1992 (10 percent), there was a statistically significant rise to 15 percent in 1995 (47).

The nature of the birth certificate questions on alcohol use apparently has contributed to the underreporting because the questions focus on the number of drinks per week, whereas other studies inquire about drinks per month (47). Women who drink, but less than one drink per week, may report no alcohol use for the birth certificate question. The stigma associated with alcohol use also contributes to the underreporting (25,47).

Medical services utilization

Prenatal care

The percent of women who began **prenatal care in the first trimester** of pregnancy rose for the ninth consecutive year, to 82.8 percent for 1998. This measure of prenatal care showed little improvement during the 1980's, but has risen by 10 percent during the 1990's. (See table D and tables 33–35.) The proportion of mothers with late (care beginning in the third trimester) or no care was 3.9 percent for the current year, unchanged from 1997. The percent of women with late or no care is down from a high of 6.4 percent reported for 1989.

The effects of prenatal care are difficult to quantify (48,49), but appropriate care can promote healthier pregnancies by detecting and managing preexisting medical conditions, and providing health behavior advice (50). Prenatal care can also serve as a gateway into the health care system, especially for socially disadvantaged women (49).

The proportion of women beginning in the first trimester of pregnancy improved by about 1 percent for the current year for all of the **race and ethnic groups** except non-Hispanic white women, among whom the level was stable. Since 1989 timely care has risen for all groups, but gains have been most evident among groups with lower levels of timely care. For example, levels continue to be comparatively low, but increases of 19 to 28 percent have been reported among the following groups for the period 1989–98: American Indian, non-Hispanic black, Puerto Rican, Central and South American, and Mexican. (See table E and tables 24 and 25 for 1998 data.). Despite these gains, there remained a 33-percent differential between the groups with the highest (Cuban at 91.8 percent) compared with the lowest levels (American Indian at 68.8 percent) of timely care.

Improvements in the timely receipt of prenatal care have been quite widespread throughout the country during the 1990's; however, the largest increases have occurred in the South. Five southern States or reporting areas reported increases of about 20 percent or more in the percent of mothers with first trimester care for 1989–98: the District of Columbia, Florida, Georgia, South Carolina, and Texas (table 34 for 1998 data).

The Adequacy of Prenatal Care Utilization Index (APNCU), an alternative measure of prenatal care utilization, which adjusts for some of the weaknesses of the trimester care began and the Kessner Index, also indicates a slight increase in prenatal care utilization for the current year (51). According to this measure, the proportion of women with at least adequate care rose from 74.0 percent to 74.3 percent between 1997 and 1998 (table F). The proportion of women with intensive use of care (women for whom the number of visits exceeded the American

Table D. First trimester prenatal care by race and Hispanic origin of mother: United States, 1980, 1985, 1990–98

| | All | Non-H | ispanic | |
|------|--------------------|-------|---------|-----------------------|
| Year | races ¹ | White | Black | Hispanic ² |
| 1998 | 82.8 | 87.9 | 73.3 | 74.3 |
| 1997 | 82.5 | 87.9 | 72.3 | 73.7 |
| 1996 | 81.9 | 87.4 | 71.5 | 72.2 |
| 1995 | 81.3 | 87.1 | 70.4 | 70.8 |
| 1994 | 80.2 | 86.5 | 68.3 | 68.9 |
| 1993 | 78.9 | 85.6 | 66.1 | 66.6 |
| 1992 | 77.7 | 84.9 | 64.0 | 64.2 |
| 1991 | 76.2 | 83.7 | 61.9 | 61.0 |
| 1990 | 75.8 | 83.3 | 60.7 | 60.2 |
| 1989 | 75.5 | 82.7 | 59.9 | 59.5 |
| 1985 | 76.2 | | | |
| 1980 | 76.3 | | | |

. Data not available.

¹Includes races other than white and black and origin not stated. ²Includes all persons of Hispanic origin of any race.

Table E. Percent of women with care beginning in the first trimester of pregnancy by specified race and Hispanic origin of mother: United States, 1989 and 1998, and percent change, 1989–98

| | Percent first | trimester care | Percent change |
|-------------------------------|---------------|----------------|----------------|
| | 1998 | 1989 | 1989–98 |
| Total, all races ¹ | 82.8 | 75.5 | 10 |
| American Indian | 68.8 | 57.9 | 19 |
| Mexican | 72.8 | 56.7 | 28 |
| Non-Hispanic black | 73.3 | 59.9 | 22 |
| Puerto Rican | 76.9 | 62.7 | 23 |
| Central and South American | 78.0 | 60.8 | 28 |
| Hawaiian | 78.8 | 66.8 | 18 |
| Filipino | 84.2 | 77.6 | 9 |
| Non-Hispanic white | 87.9 | 82.7 | 6 |
| Chinese | 88.5 | 81.5 | 9 |
| Japanese | 90.2 | 86.2 | 5 |
| Cuban | 91.8 | 83.2 | 10 |

¹Includes births to races/Hispanic origin not shown separately.

Table F. Adequacy of Prenatal Care Utilization Index: United States, selected years, 1989–98

| | Intensive use | Adequate | Intermediate | Inadequate |
|------|---------------|----------|--------------|------------|
| 1998 | 30.7 | 43.3 | 13.8 | 11.9 |
| 1997 | | 43.3 | 14.0 | 12.0 |
| 1996 | 28.8 | 43.6 | 14.7 | 12.4 |
| 1995 | | 43.7 | 14.7 | 12.8 |
| 1990 | 24.6 | 42.3 | 15.7 | 17.4 |
| 1989 | 24.1 | 42.0 | 15.9 | 18.0 |

NOTES: Levels may differ slightly from those previously published; see Technical notes. See reference 51 for information on calculation of this measure.

College of Obstetricians and Gynecologists' recommendations by a ratio of observed to expected visits of at least 110 percent) was up slightly (from 30.7 to 31.0 percent) and the proportion of women with intermediate or inadequate care declined (from 26.0 to 25.7 percent). For 1989–98, the APNCU shows the percent of mothers with at least adequate care increasing by 12 percent, (with most of the increase occurring among women with intensive use of care), and the percent of women with inadequate care declining by about one-third.

Obstetric procedures

The most prevalent obstetric procedure in 1998 was electronic fetal monitoring, reported for nearly 3.3 million births, or 84 percent of all live births in the United States (table 36). Six specific obstetric procedures are reported on the birth certificate.

According to data from the birth certificate, 65 percent of mothers who had live births in 1998 received ultrasound. The overall rates per 1,000 live births of stimulation of labor and induction of labor in 1998 were 178 (17.8 percent) and 192 (19.2 percent) respectively. The rates of both of these procedures have been rising steadily every year since 1989 (52,53). Some of the increase may be due to better reporting; a study based on 1989 births found that obstetric procedures were underreported on the birth certificate (54). While the highest rates of induction are found for the longest gestation periods as would be expected, rates have been rising for all gestation groups (figure 5).

Complications of labor and/or delivery

Of the 15 reported complications of labor and/or delivery, 3 were reported at a rate greater than or equal to 30 per 1,000 live births in 1998: Meconium, moderate/heavy (55 per 1,000), fetal distress (40 per 1,000), and breech/malpresentation (39 per 1,000) (table 37). Rates for these three complications varied by race and Hispanic origin (tables 27 and 28). It has been shown that levels of these complications may be underreported on the birth certificate (54).

Attendant at birth and place of delivery

In 1998 more than 9 out of 10 births (91.9 percent) were attended by a physician in a hospital, making this arrangement by far the most typical (table 38). However, the percent of births with this arrangement was slightly lower in 1998 than in 1997 (92.3 percent)

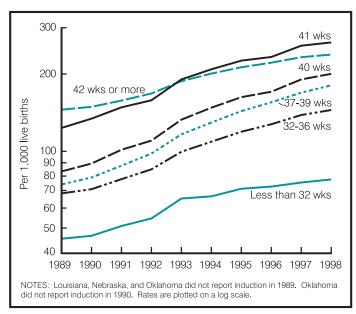


Figure 5. Rates of induction of labor by length of gestation in weeks: United States, 1989–98

and has declined from 98.4 percent in 1975. For physician-attended births, 4.3 percent were by doctors of osteopathy (DO's) while the remaining were attended by doctors of medicine (MD's). Although small, the number and percent of births attended by DO's has grown steadily since 1989, the first year data on DO's were available from the birth certificate, from 2.8 percent of all births to 4.0 percent. The percent of births attended by **midwives** increased sharply between 1975 (1.0 percent) and 1998 (7.4 percent). A recent report found that nearly all of the growth in midwife-attended births was for those in hospitals (53). About 95 percent of midwife-attended births in 1998 were by **certified nurse midwives (CNM's).**

About 99 percent of births in 1998 were delivered in hospitals, almost unchanged from the 1975 level. The majority of out-of-hospital births were in a residence (63 percent) whereas 29 percent were in a freestanding birthing center.

About 93 percent of births to non-Hispanic white women were attended by a physician in a hospital compared with about 92 percent of births to non-Hispanic black women and 90 percent of births to Hispanic women. Hispanic women were more likely to have midwifeattended hospital births (9 percent) than were either non-Hispanic white or black women (6 to 7 percent each).

Method of delivery

The **rate of cesarean delivery** increased 2 percent between 1997 and 1998 (from 20.8 per 100 live births to 21.2), returning to the level observed in 1994. This was the second consecutive year that the rate increased after falling each year during 1989–96 (**table G and table 39**). Despite the increase, the 1998 rate was 7 percent lower than the rate of 22.8 in 1989, the first year this information was available on the birth certificate. The **primary cesarean rate** in 1998 (14.9 per 100 live births to women who had no previous cesarean) was 2 percent higher than in 1997 (14.6). This was the first time this rate increased during the 1989–98 period; it declined each year between 1989 and 1996 and remained steady between 1996 and 1997 (**table G**). The primary rate in 1998 was 7 percent lower than in 1989 (16.1) but returned to the level of 1994. The rate of **vaginal birth after previous cesarean delivery (VBAC)** declined 4 percent between 1997 and 1998—from 27.4 per 100 women with a previous

| Table G. Total and primary cesarean rates and vaginal |
|-------------------------------------------------------|
| births after previous cesarean delivery rates: |
| United States, 1989–98 |

| | Cesa | rean rate | |
|------|--------------------|----------------------|------------------------|
| Year | Total ¹ | Primary ² | VBAC rate ³ |
| 1998 | 21.2 | 14.9 | 26.3 |
| 1997 | 20.8 | 14.6 | 27.4 |
| 1996 | 20.7 | 14.6 | 28.3 |
| 1995 | 20.8 | 14.7 | 27.5 |
| 1994 | 21.2 | 14.9 | 26.3 |
| 1993 | 21.8 | 15.3 | 24.3 |
| 1992 | 22.3 | 15.6 | 22.6 |
| 1991 | 22.6 | 15.9 | 21.3 |
| 1990 | 22.7 | 16.0 | 19.9 |
| 1989 | 22.8 | 16.1 | 18.9 |

¹Percent of all live births by cesarean delivery.

²Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

³Number of vaginal births after previous cesarean (VBAC) delivery per 100 live births to women with a previous cesarean delivery. cesarean to 26.3. The VBAC rate has declined 7 percent between 1996 and 1998 after increasing by 50 percent between 1989 and 1996 (from 18.9 to 28.3).

Overall cesarean rates increased steadily with advancing age of the mother and were more than twice as high for mothers 40–54 years of age (33.1) than for teenagers (14.5) (table 40). Primary cesarean rates increased with additional age after age 24, to 23.3 for women 40–54 years of age. VBAC rates declined with increasing age—slightly under a third of teenagers who had a previous cesarean had a VBAC delivery (31.7 percent) compared with 20.8 percent of mothers 40–54 years of age. All age groups experienced increases in their total cesarean rate between 1997 and 1998 with mothers 25 years of age and over having slightly greater percent increases than younger women. All age groups experienced declines in VBAC rates between 1997 and 1998 except for mothers 40–54 years of age whose rate increased from 20.5 in 1997 to 20.8 in 1998.

Non-Hispanic black women had a higher cesarean rate in 1998 (22.4) than either non-Hispanic white women (21.2) or Hispanic women (20.6). The percent increase between 1997 and 1998 was highest for black women, thus increasing the disparity. Similarly, the primary cesarean rate for non-Hispanic black women (16.0) was higher than the rate for non-Hispanic white women (15.1) and Hispanic women (13.6). All groups experienced increases in their primary cesarean rate from 1997 to 1998, but the percent increase for non-Hispanic black women was slightly higher than for non-Hispanic white and Hispanic women. The VBAC rate in 1998 was highest for non-Hispanic white women (27.3), lowest for Hispanic women (22.4), and intermediate for non-Hispanic black women (25.7). The VBAC rate for each group declined between 1997 and 1998 with Hispanic women having a slightly greater percent decline than the other groups.

American Indian and Asian or Pacific Islander (API) mothers had lower cesarean rates (18.6 and 19.4, respectively) than either non-Hispanic white or black mothers (tables 24 and 25). With the exception of Filipino mothers, all specified API categories had lower rates of cesarean delivery than either non-Hispanic white or black mothers. The rate of cesarean delivery varied between 19.8 and 22.2 for all Hispanic subgroups except for Cuban mothers whose rate was much higher (31.0) (table 25).

There was considerable variation in cesarean rates by State ranging from a high of 27.0 in Mississippi to a low of 14.7 in Alaska; the rate for Puerto Rico was 35.1 (table 41). There was also considerable variation in VBAC rates by State, from 40.6 in Vermont to 13.1 in Louisiana.

All of the selected medical risk factors in **table 42** were associated with overall cesarean rates that were equal to or higher than the national average. Cesarean rates for the medical risk factors ranged from 21.2 for mothers with Rh sensitization to 48.8 for mothers with eclampsia. Certain complications of labor and/or delivery are also associated with high cesarean rates. Nearly all births with cephalopelvic disproportion were cesarean deliveries (96.2) while the cesarean rates for breech/malpresentation (84.2) and placenta previa (81.5) were also very high.

During the 1989–98 period, the percent of births that were delivered by either forceps or vacuum extraction remained steady at around 9 percent. During that period, however, there was a shift as the number and percent of births delivered by forceps declined each year whereas the use of vacuum extraction generally increased (tabular data not shown). In 1998, 2.6 percent of births were delivered by forceps compared with 5.5 percent in 1989—a 53-percent decline. Vacuum extraction was used in 6.0 percent of births in 1998, a slightly lower proportion than in 1997 (6.2), but 71 percent higher than in 1989 (3.5). The slight decline between 1997 and 1998 in the percent of births deliveried by vacuum extraction was also apparent when examining vaginal births only—from 7.8 percent of all vaginal births in 1997 to 7.7 percent in 1998.

Infant health characteristics

Period of gestation

The **preterm birth rate** rose again for 1998, to 11.6 percent, following a rise from 11.0 to 11.4 percent for 1996–97. The percent of births born preterm, or at earlier than 37 completed weeks of gestation, has risen 9 percent since 1989–90 (from 10.6 percent), and 23 percent since 1981 (9.4 percent). Most of the current year rise was among moderately preterm births (32–36 weeks), which increased from 9.43 to 9.63 percent; the percent of births born very preterm, (prior to 32 completed weeks of gestation) was 1.94 percent for 1997 compared with 1.96 percent for 1998. (See tables 43, 44, and figure 6.) Preterm birth, especially very preterm birth, is a major cause of infant mortality and has been associated with long-term neurodevelopmental and respiratory disorders (55,56).

The steady climb in the preterm rate among non-Hispanic white births continued, rising from 9.9 to 10.2 percent between 1997 and 1998. Since 1989 the non-Hispanic white preterm rate has risen more than 20 percent (from 8.4 percent). This upswing is influenced by increases in the rate of multiple births (multiple births are about 6 times more likely to be born preterm than singleton births). However, increases in preterm singleton births have also been observed (57) (figure 6). For 1997–98, the percent of non-Hispanic white preterm singletons rose from 8.42 to 8.59, but most of the rise was among moderately preterm births. Between 1989 and 1998, the singleton preterm birth rate for this group has risen from 7.48 percent (compared with the overall rise of 8.4 to 10.2 percent) with nearly all the increase among moderately preterm births; the percent of very preterm singletons increased only from 1.12 to 1.15 percent (57).

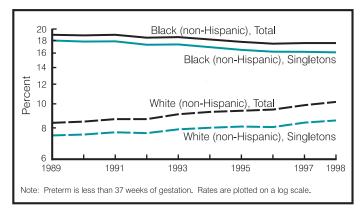


Figure 6. Rate of preterm birth by plurality and race and Hispanic origin of mother: United States, 1989–98

The preterm rate for **non-Hispanic black** births of all pluralities was unchanged at 17.6 percent for 1998. Among singleton births only, however, the preterm rate declined from 16.23 to 16.15 percent between 1997 and 1998 (figure 6). Most of the decline was for very preterm singleton births (from 3.72 to 3.66 percent); the rate for moderately preterm singleton births was essentially unchanged. Since 1989 the non-Hispanic black preterm singleton birth rate is down from 18.03 percent, and very preterm singleton births from 4.29 percent.

The proportion of **Hispanic** births born preterm rose from 11.2 to 11.4 percent between 1997 and 1998; the bulk of the increase was for moderately preterm births. (Relative trends in preterm rates for Hispanic births were largely unaffected by trends in multiple births.) The preterm rate for Hispanic births has fluctuated around 11 percent during the 1990's. Small increases, both for the current year and since 1989, were found for each of the Hispanic subgroups. (See table 25 for 1998 data.)

Birthweight

The rate of **low birthweight** (LBW) (less than 2,500 grams) rose from 7.5 to 7.6 percent for 1997–98. The proportion of LBW births has risen slowly from the low of 6.7 reported in 1984, and is currently at levels as high as those reported in the early 1970's. (See tables 43–47 and figure 7.) The percent very low birthweight (VLBW) (less than 1,500 grams) was 1.45 percent for 1998, up slightly from 1.42 percent reported for 1997. The rate of VLBW has also increased over the last two decades (from 1.13 percent in 1977). LBW infants, especially VLBW infants, are at greater risk than heavier babies of long-term morbidity and early death (58). For 1997, VLBW infants comprised 51 percent of all those who did not survive the first year of life; moderately LBW infants, those weighing between 1,500 and 2,499 grams, accounted for an additional 14 percent of infant deaths (56).

The increase in the proportion of twins and triplets, because of their much higher risk of LBW, is continuing to have an important impact on overall trends in LBW. All of the increase in LBW between 1997 and 1998 is attributable to the rise in the proportion of multiple births and

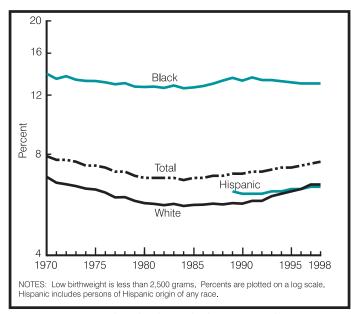


Figure 7. Percent low birthweight by race and Hispanic origin of mother: United States, 1970–98

to a small increase (1 percent) in LBW among multiple births. (For 1998, 56.9 percent of multiples were LBW compared with 6.1 percent of singletons.) Among singletons only, low birthweight was down slightly for 1997–98, from 6.08 to 6.05 percent. Since 1989 overall LBW has risen 9 percent, but LBW among singletons has risen by less than 1 percent (from 6.0 percent). See table H.

Overall low birthweight increased slightly between 1997 and 1998 among non-Hispanic white (from 6.5 to 6.6 percent) and non-Hispanic black births (from 13.1 to 13.2 percent), and was unchanged for Hispanic births (6.4 percent). All of the increase in LBW among the former two groups for the current year is attributable to the rise in multiple births. Singleton LBW declined very slightly among both non-Hispanic white and non-Hispanic black births (from 4.95 to 4.91 and 11.46 to 11.44 percent, respectively).

In recent years, the rise in multiple birth rates has especially influenced LBW levels among non-Hispanic white births. Since 1989 overall LBW for this group has risen 18 percent (from 5.6 percent), but singleton LBW has risen a more modest 7 percent (see table H). Singleton non-Hispanic white VLBW was essentially unchanged for 1997–98 at 0.81 percent.

Among non-Hispanic black births, singleton LBW has declined from 12.2 to 11.4 percent between 1989 and 1998, a somewhat steeper decline than is observed for all births (13.6 to 13.2 percent). However, the percent of singleton VLBW non-Hispanic black births has not improved over this period, hovering at about 2.6 percent, a level approximately three times as high as that of non-Hispanic white (0.81 percent) and Hispanic births (0.94 percent).

Overall and singleton LBW among Hispanic births has been comparatively stable during the 1990's. Levels for all pluralities have risen slightly from 6.2 to 6.4 percent; the singleton rate was essentially unchanged at 5.4 percent. The percent VLBW for all Hispanic births has risen slightly during the 1990's from 1.05 to 1.15 for 1989–98. As in previous years, the risk of LBW varied among the Hispanic subgroups for 1998. Levels ranged from 6.0 percent for Mexican, to 9.7 percent for Puerto Rican infants. (See table 25.)

The 1998 incidence of low birthweight among American Indian infants was 6.8 percent, unchanged from 1997. There were no notable

Table H. Percent low birthweight among singletons by race and Hispanic origin of mother: United States, 1989–98

| Year | Total | Non-Hispanic White | Non-Hispanic Black | Hispanic ¹ |
|-------------------|-------|-----------------------|-----------------------|-----------------------|
| 1998 | 6.05 | 4.91 | 11.44 | 5.40 |
| 1997 | 6.08 | 4.95 | 11.46 | 5.43 |
| 1996 | 6.03 | 4.90 | 11.55 | 5.34 |
| 1995 | 6.05 | 4.87 | 11.66 | 5.36 |
| 1994 | 6.05 | 4.79 | 11.79 | 5.37 |
| 1993 | 6.05 | 4.70 | 11.90 | 5.34 |
| 1992 ² | 5.93 | 4.59 | 11.91 | 5.22 |
| 1991 ² | 5.99 | 4.61 | 12.15 | 5.29 |
| 1990 ³ | 5.90 | 4.56 | 11.92 | 5.23 |
| 1989 ⁴ | 6.00 | 4.60 | 12.22 | 5.35 |

¹Includes persons of Hispanic origin of any race.

²Excludes data for New Hampshire, which did not require reporting of Hispanic origin of

mother. ³Excludes data for New Hampshire and Oklahoma, which did not require reporting of Hispanic

origin of mother.

⁴Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not require reporting of Hispanic origin of mother.

NOTE: Low birthweight is less than 2,500 grams, or 5 lb 8 oz.

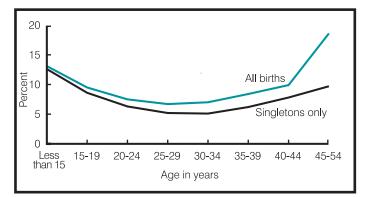


Figure 8. Percent low birthweight for all births and for singleton births only, by age of mother: United States, 1998

changes in LBW for the Asian or Pacific Islander subgroups; levels ranged from 5.3 percent for Chinese to 8.2 percent for Filipino births (table 24).

Age-specific low birthweight rates for all pluralities follow a U-shaped pattern with levels slightly higher among older mothers. This pattern is strongly influenced, however, by the higher multiple birth rates of older women. For example, the overall percent LBW for women aged 45–54 years was 18.6 percent for 1998, by far the highest age-specific rate reported. When only singleton births are examined however, the LBW rate for this age group drops to 9.7 percent, substantially lower than the rate of 12.6 percent reported for teenagers under 15 years of age. (See figure 8.)

The percent **macrosomia** (birthweight of at least 4,000 grams) was 10.1 for 1998, the same level reported for 1997. The percent of macrosomic births peaked at about 11 during the 1980's, but has generally declined in the 1990's.

The **median birthweight** for all births for 1998 was 3,350 grams (7 pounds, 7 ounces), unchanged since 1995. The median for white births was 3,390 grams, and for black births 3,180 grams.

As in previous years, LBW and VLBW rates varied quite widely **by State** for 1998. Among non-Hispanic white births, LBW levels ranged from a low of 5.1 percent in Oregon to a high of 8.9 percent for Wyoming. Among States with at least 1,000 births to non-Hispanic black mothers, LBW rates for this population ranged from 9.8 percent in Washington State to 15.9 percent in the District of Columbia (table 46).

Apgar score

The Apgar score was developed by the late Virginia Apgar, M.D., as a means of evaluating the physical condition of newborns shortly after delivery (59). The score considers five characteristics of the baby that are easily identifiable—heart rate, respiratory effort, muscle tone, reflex irritability, and color. Each of these characteristics is assessed and assigned a value of 0 to 2, with 2 being optimum. The total score is the sum of the scores of the five components and a score of 7 or greater indicates that the baby is in good to excellent physical condition. The **5-minute Apgar score** is based on an assessment at 5 minutes after delivery and is used to predict the newborn's chance of survival.

In 1998 all States except California and Texas collected information on the 5-minute Apgar score. Births to residents of these States accounted for 78 percent of all births in the U.S. Only 1.4 percent of babies had Apgar scores that were considered low (less than 7) at 5 minutes after birth, unchanged since 1993 (tables 24 and 25).

Of the major racial and ethnic groups, Asian or Pacific Islander babies as a group were in the best physical condition shortly after delivery—only 1.1 percent had scores of less than 7 (table 23). This was particularly true for Japanese and Chinese babies—0.7 percent had low 5-minute scores. The percent of babies with low scores was intermediate for non-Hispanic white and Hispanic women (1.3 and 1.2 percent, respectively) while 2.4 percent of non-Hispanic black babies had low 5-minute scores.

Abnormal conditions of the newborn

Of the eight specific abnormal conditions reported on the birth certificate, the rates per 1,000 live births in 1998 were highest for assisted ventilation less than 30 minutes (22 per 1,000), assisted ventilation 30 minutes or longer (9 per 1,000), and hyaline membrane disease/respiratory distress syndrome (RDS) (6 per 1,000) (table 48). It has been shown that these conditions may be underreported on the birth certificate (54).

Congenital anomalies

In 1998 congenital anomalies were reported on the birth certificates of the District of Columbia and all States except New Mexico. These areas included 99 percent of births in the United States. Several studies have shown that congenital anomalies are underreported on the birth certificate (54, 60, 61). For example, a recent study based on surveillance data estimated that there are about 4,000 cases of spina bifida and anencephalus each year in the United States; birth certificate data for 1998 identified a total of only 1,236 cases for these two neural tube defects (61).

Because many of the congenital anomalies tracked on birth certificates occur infrequently, the rates shown in this report are calculated per 100,00 live births (table 49). Caution should be used in comparing yearly rates for a specific anomaly as a small change in the number of anomalies reported can result in a relatively large change in rates.

Multiple births

The number of births in twin deliveries rose 6 percent for 1997–98, to 110,670 births, the largest single-year rise in several decades. The number of triplet births climbed to 6,919, a rise of 13 percent. Births in quadruplet deliveries increased from 510 to 627 between 1997 and 1998; the number of quintuplet and other higher order multiples was unchanged at 79. (See table J and table 50.) Since 1980 twin births have risen 62 percent (from 68,339) and triplet and other higher order multiple births (heretofore referred to as triplet/+) have jumped 470 percent (from 1,337).

The twin birth rate (the number of twin births per 1,000 live births) rose 5 percent for the current year to 28.1 (or 2.8 percent of all births). The triplet/+ birth rate (the number of triplet, quadruplet, and quintuplet and other higher-order multiples per 100,000 live births), jumped 11 percent for 1998, to 193.5 per 100,000 (or 0.2 percent of births). Both twin and triplet/+ birth rates have risen steadily since 1980, by 49 and 423 percent respectively (62), but the pace of the increase has quick-ened in the 1990's (figure 9). Between 1990 and 1998, the twinning rate has risen about 3 percent per year, and the triplet/+ rate an average of

| Year | Twins | Triplets | Quadruplets | Quintuplets and other higher order multiples ¹ |
|------|---------|----------|-------------|-----------------------------------------------------------------|
| 1998 | 110,670 | 6,919 | 627 | 79 |
| 1997 | 104,137 | 6,148 | 510 | 79 |
| 1996 | 100,750 | 5,298 | 560 | 81 |
| 1995 | 96,736 | 4,551 | 365 | 57 |
| 1994 | 97,064 | 4,233 | 315 | 46 |
| 1993 | 96,445 | 3,834 | 277 | 57 |
| 1992 | 95,372 | 3,547 | 310 | 26 |
| 1991 | 94,779 | 3,121 | 203 | 22 |
| 1990 | 93,865 | 2,830 | 185 | 13 |
| 1989 | 90,118 | 2,529 | 229 | 40 |

 $^1\mbox{Output}$ pointuplets, sextuplets, and higher order multiple births are not differentiated in the national data set.

13 percent annually. In 1998, one in every 36 births was a twin; almost one in every 500 births was a triplet/+.

The recent rise in multiple births has been especially pronounced among **women 30 years of age and over**. Between 1980–82 and 1996–98 (data for 3 years are combined to generate more statistically reliable rates) the twin birth rate increased 77 percent among women aged 40–44 years (from 21.6 to 38.2 per 1,000), and by more than 1,000 percent among women 45–49 years of age (from 10.8 to 129.9). The triplet/+ birth rate rose 461 percent for women in their thirties (from 59.3 to 332.4 per 100,000), and almost 15 times for women in their forties (from 28.1 to 411.9). In contrast, among women aged 20–24 years, twin birth rates rose a comparatively modest 18 percent and triplet birth rates by 53 percent over this time period (62).

Two related trends have been associated with the rise in multiple births, especially with the rise of higher order multiples; older age at childbearing (women in their thirties are more likely than younger women to have a multiple birth, even without the use of fertility therapy), and the more widespread use of fertility-enhancing therapies (fertility drugs and techniques such as in vitro fertilization). These therapies have been associated with the remarkable upswing in multiple births of the 1980's and 1990's (63–65). A recent study estimates that about 80

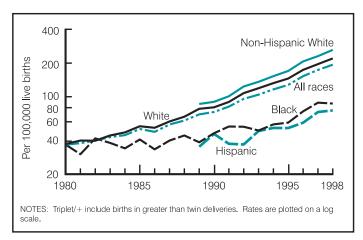


Figure 9. Triplet/+ birth rates by race and Hispanic origin of mother, 1980–98

percent of triplet/+ births in 1996 and 1997 were the result of fertility techniques (66).

Twinning rates rose 4 to 5 percent among the three largest U.S. **racial and ethnic groups** for 1997–98, but continue to be slightly higher among non-Hispanic black (31.3) compared with non-Hispanic white (30.2) women. The Hispanic twin birth rate continued to be substantially lower (20.4) than both. Most of the overall increase in the triplet/+ rate was the result of a sizable 14 percent rise among non-Hispanic white women (from 230.8 to 262.8 per 100,000); levels among other groups changed only slightly. Rates have risen substantially for all groups over the past two decades, but the largest increase has been observed among triplet/+ births to white mothers. In 1998 the triplet/+ birth rate for non-Hispanic white women (87.3), and Hispanic women (75.3). This differential is likely associated with the older age at childbearing of non-Hispanic white women compared with their black and Hispanic counterparts, and with their wider use of infertility services (16).

Currently, multiple birth rates rise with increasing **maternal age** until age group 35–39 years, dip slightly for women aged 40–44 years, and then peak sharply for women aged 45–54 years. This is a change from earlier years when rates were highest among women aged 35–39 years (62). In 1998 one of every six births to women aged 45–49 years and one in three births to women 50–54 years was a twin or triplet/+.

Multiple births are at greater risk than singletons of being born too early and too small and, accordingly, of not surviving the first year of life. For 1998, 41.7 percent of twins, and 89.1 percent of triplet/+ were born both **preterm and LBW**, compared with 3.8 percent of singletons. The increase in the multiple birth rate because of their higher levels of risk is having an important impact on these basic measures of national and state perinatal health (57, 67). For example, the overall U.S. level of LBW was up for 1998, but LBW among singleton births only, was slightly lower. (See sections on birthweight and period of gestation.)

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| Attendant at birth | | | | | | | | | | | | | 38 | | | | | | | | | | | | |
| Birthweight | | | | | | | 32 | | | | | | | | | | | 43 | 44 | 45 | 46 | 47 | | | |
| Complications of labor | | 27 | 28 | | | | | | | | | 37 | | | | | 42 | | | | | | | | |
| Congenital anomalies | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Education | | | | | | 31 | | | | | | | | | | | | | | | | | | | |
| Gestational age | | | | | | | | | | | | | | | | | | 43 | 44 | | | | | | |
| Hispanic origin of mother | | | ⁴ 28 | | ⁴ 30 | ⁶ 31 | ⁶ 32 | ⁶ 33 | ⁶ 34 | ⁶ 35 | | | ⁶ 38 | ⁶ 39 | ⁶ 40 | ⁶ 41 | | ⁶ 43 | ⁶ 44 | ⁶ 45 | ⁶ 46 | ⁶ 47 | | | ⁶ 50 |
| Medical risk factors | 26 | 27 | 28 | | | | | | | | | | | | | | 42 | | | | | | | | |
| Method of delivery | | | | | | | | | | | | | | 39 | 40 | 41 | 42 | | | | | | | | |
| Obstetric procedures | | 27 | 28 | | | | | | | | 36 | | | | | | | | | | | | | | |
| Place of delivery | | | | | | | | | | | | | 38 | | | | | | | | | | | | |
| Multiple births | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Prenatal care | | | | | | | | 33 | 34 | 35 | | | | | | | | | | | | | | | |
| Race of mother | ³ 26 | ⁵ 27 | ⁴ 28 | ³ 29 | ⁴ 30 | ³ 31 | ⁶ 32 | ⁶ 33 | ⁶ 34 | ⁶ 35 | ³ 36 | ³ 37 | ⁶ 38 | ⁶ 39 | ⁶ 40 | ⁶ 41 | | ⁶ 43 | ³ 44 | ⁶ 45 | ⁶ 46 | ⁶ 47 | ³ 48 | ³ 49 | ⁶ 50 |
| Tobacco use | | | | 29 | 30 | 31 | 32 | | | | | | | | | | | | | | | | | | |

¹Includes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas; data for American Samoa not available for tables 34 and 41. ²Includes white, black, American Indian, Asian or Pacific Islander.

³Includes white and black.

⁴Includes Mexican, Puerto Rican, Cuban, Central and South American, other and unknown Hispanic, non-Hispanic white, and non-Hispanic black. ⁵Includes white, black, American Indian, Chinese, Japanese, Hawaiian, Filipino, and other Asian and Pacific Islanders.

⁶Includes Hispanic, non-Hispanic white, and non-Hispanic black.

Table 1. Live births, birth rates, and fertility rates, by race: United States, specified years 1940-55 and each year, 1960-98

[Birth rates are live births per 1,000 population in specified group. Fertility rates per 1,000 women aged 15-44 years in specified group. Population enumerated as of April 1 for census years and estimated as of July 1 for all other years. Beginning with 1970, excludes births to nonresidents of the United States]

| | | | Number | | | | | Birth ra | ate | | | | Fertility | rate | |
|--------------------------------------------------|---------------------------|------------------------|--------------------|---------------------------------|---------------------------------|---------------------------|--------------|--------------|---------------------------------|---------------------------------|---------------------------|---------------|--------------|---------------------------------|---------------------------------|
| Year | All races ¹ | White | Black | American Indian ² | Asian or Pacific Islander | All races ¹ | White | Black | American Indian ² | Asian or Pacific Islander | All races ¹ | White | Black | American Indian ² | Asian or Pacific Islander |
| Registered births | | | | | | | | | | | | | | | |
| Race of mother: | | | | | | | | | | | | | | | |
| 1998 | | | 609,902 | 40,272 | 172,652 | 14.6 | 14.0 | 17.7 | 17.1 | 16.4 | 65.6 | 64.6 | 71.0 | 70.7 | 64.0 |
| 1997 | | | 599,913 | 38,572 | 169,769 | 14.5 | 13.9 | 17.7 | 16.6 | 16.9 | 65.0 | 63.9 | 70.7 | 69.1 | 66.3 |
| 1996 | | | 594,781 | 37,880 | 165,776 | 14.7 | 14.1 | 17.8 | 16.6 | 17.0 | 65.3 | 64.3 | 70.7 | 68.7 | 65.9 |
| 1995 | | 3,098,885 | 603,139 | 37,278 | 160,287 | 14.8 | 14.2 | 18.2 | 16.6 | 17.3 | 65.6 | 64.4 | 72.3 | 69.1 | 66.4 |
| 1994 | | 3,121,004 | 636,391 | 37,740 | 157,632 | 15.2 | 14.4 | 19.5 | 17.1 | 17.5 | 66.7 | 64.9 | 76.9 | 70.9 | 66.8 |
| 1993 | | | 658,875 | 38,732 | 152,800 | 15.5 | 14.7 | 20.5 | 17.8 | 17.7 | 67.6 | 65.4 | 80.5 | 73.4 | 66.7 |
| 1992 | | | 673,633 | 39,453 | 150,250 | 15.9 | 15.0 | 21.3 | 18.4 | 18.0 | 68.9 | 66.5 | 83.2 | 75.4 | 67.2 |
| 1991 1990 | | 3,241,273 3,290,273 | 682,602 684,336 | 38,841 39,051 | 145,372 141,635 | 16.3 16.7 | 15.4 15.8 | 21.9 22.4 | 18.3 18.9 | 18.2 19.0 | 69.6 70.9 | 67.0 68.3 | 85.2 86.8 | 75.1 76.2 | 67.6 69.6 |
| 1989 | | 3,290,273 | 673,124 | 39,051 | 133,075 | 16.4 | 15.6 | 22.4 | 10.9 | 19.0 | 69.2 | 66.4 | 86.2 | 70.2 | 68.2 |
| 1988 | | | 638,562 | 39,478 | 129,035 | 16.4 | 15.4 | 22.3 | 19.7 | 19.2 | 67.3 | 64.5 | 82.6 | 79.0 | 70.2 |
| 1987 | | | 611,173 | 35,322 | 116,560 | 15.7 | 14.9 | 20.8 | 19.1 | 18.4 | 65.8 | 63.3 | 80.1 | 75.6 | 67.1 |
| 1986 | | 3,043,828 | 592,910 | 34,169 | 107,797 | 15.6 | 14.9 | 20.8 | 19.1 | 18.0 | 65.4 | 63.1 | 78.9 | 75.9 | 66.0 |
| 1985 | | 3,037,913 | 581,824 | 34,037 | 104,606 | 15.8 | 15.0 | 20.3 | 19.8 | 18.7 | 66.3 | 64.1 | 78.8 | 78.6 | 68.4 |
| 1984 ³ | 3 669 141 | 2,967,100 | 568,138 | 33,256 | 98,926 | 15.6 | 14.8 | 20.1 | 20.1 | 18.8 | 65.5 | 63.2 | 78.2 | 79.8 | 69.2 |
| 1983 ³ | 3,638,933 | 2,946,468 | 562,624 | 32,881 | 95,713 | 15.6 | 14.8 | 20.2 | 20.6 | 19.5 | 65.7 | 63.4 | 78.7 | 81.8 | 71.7 |
| 1982 ³ | | 2,984,817 | 568,506 | 32,436 | 93,193 | 15.9 | 15.1 | 20.7 | 21.1 | 20.3 | 67.3 | 64.8 | 80.9 | 83.6 | 74.8 |
| 1981 ³ | 3,629,238 | | 564,955 | 29,688 | 84,553 | 15.8 | 15.0 | 20.8 | 20.0 | 20.1 | 67.3 | 64.8 | 82.0 | 79.6 | 73.7 |
| 1980 ³ | 3,612,258 | 2,936,351 | 568,080 | 29,389 | 74,355 | 15.9 | 15.1 | 21.3 | 20.7 | 19.9 | 68.4 | 65.6 | 84.7 | 82.7 | 73.2 |
| Race of child: | | | | | | | | | | | | | | | |
| 1980 ³ | 3,612,258 | 2,898,732 | 589,616 | 36,797 | | 15.9 | 14.9 | 22.1 | | | 68.4 | 64.7 | 88.1 | | |
| 1979 ³ | 3,494,398 | 2,808,420 | 577,855 | 34,269 | | 15.6 | 14.5 | 22.0 | | | 67.2 | 63.4 | 88.3 | | |
| 1978 ³ | 3,333,279 | 2,681,116 | 551,540 | 33,160 | | 15.0 | 14.0 | 21.3 | | | 65.5 | 61.7 | 86.7 | | |
| 1977 ³ | 3,326,632 | 2,691,070 | 544,221 | 30,500 | | 15.1 | 14.1 | 21.4 | | | 66.8 | 63.2 | 88.1 | | |
| 1976 ³ | 3,167,788 | 2,567,614 | 514,479 | 29,009 | | 14.6 | 13.6 | 20.5 | | | 65.0 | 61.5 | 85.8 | | |
| 1975 ³ | 3,144,198 | | 511,581 | 27,546 | | 14.6 | 13.6 | 20.7 | | | 66.0 | 62.5 | 87.9 | | |
| 1974 ³ | 3,159,958 | 2,575,792 | 507,162 | 26,631 | | 14.8 | 13.9 | 20.8 | | | 67.8 | 64.2 | 89.7 | | |
| 1973 ³ | 3,136,965 | 2,551,030 | 512,597 | 26,464 | | 14.8 | 13.8 | 21.4 | | | 68.8 | 64.9 | 93.6 | | |
| 1972 ³ | 3,258,411 | 2,655,558 | 531,329 | 27,368 | | 15.6 | 14.5 | 22.5 | | | 73.1 | 68.9 | 99.9 | | |
| 1971 ⁴ | 3,555,970 | 2,919,746 | 564,960 | 27,148 | | 17.2 | 16.1 | 24.4 | | | 81.6 | 77.3 | 109.7 | | |
| 1970 ⁴ | | 3,091,264 | 572,362 | | | 18.4 | 17.4 | 25.3 | | | 87.9 | 84.1 | 115.4 | | |
| 1969 ⁴ | | 2,993,614 | 543,132 | 24,008 | | 17.9 | 16.9 | 24.4 | | | 86.1 | 82.2 | 112.1 | | |
| 1968 ⁴ | | | 531,152 | 24,156 | | 17.6 | 16.6 | 24.2 | | | 85.2 | 81.3 | 112.7 | | |
| | 3,520,959 | 2,922,502 | 543,976 | 22,665 | | 17.8 | 16.8 | 25.1 | | | 87.2 | 82.8 | 118.5 | | |
| | 3,606,274 | | 558,244 | 23,014 | | 18.4 | 17.4 | 26.2 27.7 | | | 90.8 | 86.2 | 124.7 | | |
| | 3,760,358 | | 581,126 | | | 19.4 21.1 | 18.3 20.0 | 27.7 | | | 96.3 104.7 | 91.3 99.8 | 133.2 | | |
| | 4,027,490 | 3,369,160 3,326,344 | 607,556 580,658 | | | 21.1 | 20.0 | 29.5 | | | 104.7 | 99.8 103.6 | 142.6 | | |
| 1963 ^{4, 6} 1962 ^{4, 6} | 4,098,020 | 3,394,068 | 584,610 | | | 21.7 | 20.7 | | | | 108.3 | 103.6 | | | |
| 1961 ⁴ | | | 611,072 | 21,966 | | 22.4 | 21.4 | | | | 112.0 | 112.3 | | | |
| 1960 ⁴ | 4,257,850 | 3,600,744 | 602,264 | 21,404 | | 23.7 | 22.7 | 31.9 | | | 118.0 | 113.2 | 153.5 | | |
| Births adjusted for underregis- tration | | | | | | | | | | | | | | | |
| Race of child: | | | | | | | | | | | | | | | |
| 1955 | 4 097 000 | 3 485 000 | | | | 25.0 | 23.8 | | | | 118.3 | 113.7 | | | |
| 1955 | | | | | | 25.0 | 23.0 | | | | 106.2 | 102.3 | | | |
| 1930 | | | | | | 24.1 | 19.7 | | | | 85.9 | 83.4 | | | |
| 1940 | | | | | | 19.4 | 18.6 | | | | 79.9 | 77.1 | | | |
| | _,000,000 | _,, | | | | 10.7 | 10.0 | | | | 10.0 | | | | |

Data not available. 1

Data not available.
 For 1960-91 includes births to races not shown separately.
 Includes births to Aleuts and Eskimos.
 Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.
 Based on a 50-percent sample of births.
 Based on a 20- to 50-percent sample of births.

5 Based on a 20- to 50-percent sample 6 Figures by race exclude New Jersey.

Table 2. Live births by age of mother, live-birth order, and race of mother: United States, 1998

[Live-birth order refers to number of children born alive to mother]

| | | | | | | | | Age o | f mother | | | | | | |
|------------------------------|-----------|-------------|---------|-------------|-------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|--------|----------------|-----|
| Live-birth order and | All | Under | | | 15-1 | 9 years | | | | | | | | | |
| race of mother | ages | 15 years | Total | 15 years | 16 years | 17 years | 18 years | 19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | | 45-49 years | |
| All races | 3,941,553 | 9,462 | 484,895 | 24,777 | 55,033 | 93,421 | 137,567 | 174,097 | 965,122 | 1,083,010 | 889,365 | 424,890 | 81,027 | 3,624 | 158 |
| 1st child | 1,576,478 | 9,181 | 375,216 | | | | 105,034 | 118,062 | 437,632 | 394,268 | 248,986 | | 16,897 | 824 | 46 |
| 2d child | | 160 | 87,814 | 984 | | 12,316 | 26,584 | 43,564 | 334,566 | 376,634 | 321,412 | 137,137 | | 826 | 39 |
| 3d child | 646,539 | 10 | 15,265 | 31 | 289 | 1,321 | 4,206 | 9,418 | 133,872 | 193,783 | 186,685 | | 16,821 | 625 | 25 |
| 4th child | 247,955 | - | 1,958 | 3 | 10 | 92 | 438 | 1,415 | 39,001 | 72,761 | 75,459 | 48,380 | 9,985 | 402 | 9 |
| 5th child | 90,960 | - | 237 | - | 4 | 5 | 50 | 178 | 10,064 | 24,957 | 28,647 | 21,179 | 5,628 | 238 | 10 |
| 6th child | 37,303 | - | 44 | - | 4 | 2 | 9 | 29 | 2,453 | 9,021 | 12,099 | 10,273 | 3,234 | 170 | 9 |
| 7th child | 17,347 | - | 2 | - | - | - | - | 2 | 552 | 3,347 | 5,824 | 5,504 | 1,984 | 131 | 3 |
| 8th child and over | 17,975 | - | 7 | - | - | - | 3 | 4 | 241 | 1,902 | 4,975 | 6,786 | 3,688 | 360 | 16 |
| Not stated | 26,191 | 111 | 4,352 | 219 | 537 | 928 | 1,243 | 1,425 | 6,741 | 6,337 | 5,278 | 2,750 | 573 | 48 | 1 |
| White | 3,118,727 | 4,801 | 340,694 | 15,233 | 36,439 | 64,951 | 97,971 | 126,100 | 736,664 | 880,688 | 737,532 | 349,799 | 65,485 | 2,934 | 130 |
| 1st child | 1,252,522 | 4,673 | 270,096 | 14,575 | 33,472 | 56,041 | 77,158 | 88,850 | 347,830 | 329,613 | 207,898 | | 14,008 | 691 | 39 |
| 2d child | 1,032,725 | 64 | 57,712 | 511 | 2,432 | 7,469 | 17,277 | 30,023 | 259,262 | 312,718 | 270,544 | 113,599 | | 679 | 36 |
| 3d child | 512,186 | 5 | 8,619 | 10 | 145 | 693 | 2,370 | 5,401 | 94,400 | 155,235 | 156,965 | | 13,482 | 508 | 23 |
| 4th child | 188,211 | - | 912 | 3 | 4 | 49 | 199 | 657 | 23,507 | 54,225 | 61,391 | 39,885 | | 335 | 7 |
| 5th child | 64,535 | - | 90 | - | 1 | 3 | 17 | 69 | 5,026 | 16,311 | 21,701 | 16,770 | 4,435 | 193 | 9 |
| 6th child | 25,024 | - | 20 | - | 2 | 1 | 4 | 13 | 998 | 5,083 | 8,366 | 7,852 | 2,567 | 130 | 8 |
| 7th child | 11,166 | - | - | - | - | - | - | - | 191 | 1,611 | 3,690 | 4,031 | 1,542 | 98 | 3 |
| 8th child and over | 11,591 | - | 4 | - | - | - | 2 | 2 | 112 | 807 | 2,686 | 4,788 | 2,928 | 262 | 4 |
| Not stated | 20,767 | 59 | 3,241 | 134 | 383 | 695 | 944 | 1,085 | 5,338 | 5,085 | 4,291 | 2,251 | 463 | 38 | 1 |
| Black | 609,902 | 4,289 | 126,937 | 8,599 | 16,414 | 25,090 | 34,885 | 41,949 | 189,088 | 139,302 | 93,785 | 46,657 | 9,496 | 339 | 9 |
| 1st child | 230,875 | 4,153 | 91,718 | 8,078 | 14,393 | 19,886 | 24,310 | 25,051 | 69,521 | 34,951 | 20,583 | 8,365 | 1,523 | 58 | 3 |
| 2d child | 179,852 | 88 | 27,134 | 432 | 1,765 | 4,412 | 8,401 | 12,124 | 63,539 | 44,776 | 28,982 | 13,060 | 2,210 | 61 | 2 |
| 3d child | 105,116 | 5 | 6,074 | 18 | 122 | 567 | 1,681 | 3,686 | 34,763 | 30,520 | 20,902 | 10,713 | 2,076 | 62 | 1 |
| 4th child | 48,635 | - | 957 | - | 4 | 36 | 220 | 697 | 13,909 | 15,308 | 10,770 | 6,270 | 1,386 | 35 | - |
| 5th child | 21,775 | - | 129 | - | 3 | 2 | 29 | 95 | 4,548 | 7,266 | 5,490 | 3,428 | 880 | 34 | - |
| 6th child | 9,942 | - | 21 | - | 2 | 1 | 5 | 13 | 1,288 | 3,258 | 2,962 | 1,878 | 509 | 26 | - |
| 7th child | 4,883 | - | 2 | - | - | - | - | 2 | 305 | 1,441 | 1,662 | 1,124 | 329 | 20 | - |
| 8th child and over | 4,840 | - | 3 | - | - | - | 1 | 2 | 108 | 912 | 1,780 | 1,492 | 507 | 35 | 3 |
| Not stated | 3,984 | 43 | 899 | 71 | 125 | 186 | 238 | 279 | 1,107 | 870 | 654 | 327 | 76 | 8 | - |
| American Indian ¹ | 40,272 | 197 | 8,201 | 491 | 1,044 | 1,632 | 2,283 | 2,751 | 13,046 | 9,529 | 5,930 | 2,795 | 555 | 19 | - |
| 1st child | 14,051 | 186 | 6,152 | 461 | 932 | 1,348 | 1,672 | 1,739 | 4,648 | 1,877 | 836 | 304 | 47 | 1 | - |
| 2d child | 10,879 | 3 | 1,591 | 19 | 80 | 220 | 487 | 785 | 4,658 | 2,679 | 1,334 | 531 | 81 | 2 | - |
| 3d child | 7,102 | - | 262 | - | 6 | 26 | 67 | 163 | 2,494 | 2,344 | 1,306 | 584 | 108 | 4 | |
| 4th child | 3,769 | - | 34 | - | 1 | 4 | 8 | 21 | 799 | 1,360 | 1,007 | 468 | 98 | 3 | - |
| 5th child | 1,957 | - | - | - | - | - | - | - | 220 | 685 | 614 | 359 | 77 | - | - |
| 6th child | 1,008 | - | 2 | - | - | - | - | 2 | 63 | 315 | 361 | 218 | 48 | 1 | - |
| 7th child | 563 | - | - | - | - | - | - | - | 25 | 124 | 231 | 147 | 34 | 2 | - |
| 8th child and over | 459 | - 8 | - | - | - | - | - | - | 2 | 66 79 | 174 | 157 27 | 57 | 3 | - |
| Not stated | 484 | | 160 | 11 | 25 | 34 | 49 | 41 | 137 | | 67 | | 5 | - | - |
| Asian or Pacific Islander | 172,652 | 175 | 9,063 | 454 | 1,136 | 1,748 | 2,428 | 3,297 | 26,324 | 53,491 | 52,118 | 25,639 | 5,491 | 332 | 19 |
| 1st child | 79,030 | 169 | 7,250 | 426 | 1,026 | 1,482 | 1,894 | 2,422 | 15,633 | 27,827 | 19,669 | 7,085 | 1,319 | 74 | 4 |
| 2d child | 57,349 | 5 | 1,377 | 22 | 89 | 215 | 419 | 632 | 7,107 | 16,461 | 20,552 | 9,947 | 1,815 | 84 | 1 |
| 3d child | 22,135 | - | 310 | 3 | 16 | 35 | 88 | 168 | 2,215 | 5,684 | 7,512 | 5,207 | 1,155 | 51 | 1 |
| 4th child | 7,340 | - | 55 | - | 1 | 3 | 11 | 40 | 786 | 1,868 | 2,291 | 1,757 | 552 | 29 | 2 |
| 5th child | 2,693 | - | 18 | - | - | - | 4 | 14 | 270 | 695 | 842 | 622 | 236 | 9 | 1 |
| 6th child | 1,329 | - | 1 | - | - | - | - | 1 | 104 | 365 | 410 | 325 | 110 | 13 | 1 |
| 7th child | 735 | - | - | - | - | - | - | - | 31 | 171 | 241 | 202 | 79 | 11 | - |
| 8th child and over | 1,085 | - | - | - | - | 13 | - | - | 19 | 117 | 335 | 349 | 196 | 60 | 9 |
| Not stated | 956 | 1 | 52 | 3 | 4 | 13 | 12 | 20 | 159 | 303 | 266 | 145 | 29 | 1 | - |

- Quantity zero. ¹ Includes births to Aleuts and Eskimos.

Table 3. Fertility rates and birth rates by age of mother, live-birth order, and race of mother: United States, 1998

[Rates are live births per 1,000 women in specified age and racial group. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

| | | | | | | Age of | mother | | | | |
|------------------------------|--------------------|----------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|
| Live-birth order and | 15-44 | | | 15-19 years | | | 05.00 | | 05.00 | 10.11 | 15 10 |
| race of mother | years ¹ | 10-14 years | Total | 15-17 years | 18-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years ² |
| All races | 65.6 | 1.0 | 51.1 | 30.4 | 82.0 | 111.2 | 115.9 | 87.4 | 37.4 | 7.3 | 0.4 |
| 1st child | 26.4 | 1.0 | 39.9 | 27.0 | 59.2 | 50.8 | 42.5 | 24.6 | 8.3 | 1.5 | 0.1 |
| 2d child | 20.4 | 0.0 | 9.3 | 3.1 | 18.6 | 38.8 | 40.6 | 31.8 | 12.1 | 2.0 | 0.1 |
| | | 0.0 | | | | | | | | | ••• |
| 3d child | 10.8 | <u>^</u> | 1.6 | 0.3 | 3.6 | 15.5 | 20.9 | 18.4 | 8.8 | 1.5 | 0.1 |
| 4th child | 4.2 | * | 0.2 | 0.0 | 0.5 | 4.5 | 7.8 | 7.5 | 4.3 | 0.9 | 0.0 |
| 5th child | 1.5 | * | 0.0 | * | 0.1 | 1.2 | 2.7 | 2.8 | 1.9 | 0.5 | 0.0 |
| 6th and 7th child | 0.9 | * | 0.0 | * | 0.0 | 0.3 | 1.3 | 1.8 | 1.4 | 0.5 | 0.0 |
| 8th child and over | 0.3 | * | * | * | * | 0.0 | 0.2 | 0.5 | 0.6 | 0.3 | 0.0 |
| White | 64.6 | 0.6 | 45.4 | 25.9 | 74.6 | 107.2 | 119.1 | 90.5 | 37.8 | 7.2 | 0.4 |
| 1st child | 26.1 | 0.6 | 36.4 | 23.4 | 55.8 | 51.0 | 44.8 | 25.7 | 8.4 | 1.6 | 0.1 |
| 2d child | 21.5 | 0.0 | 7.8 | 2.3 | 15.9 | 38.0 | 42.5 | 33.4 | 12.3 | 2.0 | 0.1 |
| 3d child | 10.7 | * | 1.2 | 0.2 | 2.6 | 13.8 | 21.1 | 19.4 | 9.0 | 1.5 | 0.1 |
| | | * | | 0.2 | | | | | | | 0.0 |
| 4th child | 3.9 | * | 0.1 | 0.0 | 0.3 | 3.4 | 7.4 | 7.6 | 4.3 | 0.9 | |
| 5th child | 1.3 | | 0.0 | * | 0.0 | 0.7 | 2.2 | 2.7 | 1.8 | 0.5 | 0.0 |
| 6th and 7th child | 0.8 | * | 0.0 | * | * | 0.2 | 0.9 | 1.5 | 1.3 | 0.5 | 0.0 |
| 8th child and over | 0.2 | * | * | * | * | 0.0 | 0.1 | 0.3 | 0.5 | 0.3 | 0.0 |
| Black | 71.0 | 2.9 | 85.4 | 56.8 | 126.9 | 141.9 | 101.8 | 64.7 | 30.5 | 6.7 | 0.3 |
| 1st child | 27.0 | 2.8 | 62.1 | 48.4 | 82.1 | 52.5 | 25.7 | 14.3 | 5.5 | 1.1 | 0.1 |
| 2d child | 21.1 | 0.1 | 18.4 | 7.6 | 34.1 | 47.9 | 32.9 | 20.1 | 8.6 | 1.6 | 0.1 |
| 3d child | 12.3 | * | 4.1 | 0.8 | 8.9 | 26.2 | 22.4 | 14.5 | 7.1 | 1.5 | 0.1 |
| 4th child | 5.7 | * | 0.6 | 0.0 | 1.5 | 10.5 | 11.3 | 7.5 | 4.1 | 1.0 | 0.0 |
| 5th child | 2.6 | * | 0.0 | * | 0.2 | 3.4 | 5.3 | 3.8 | 2.3 | 0.6 | 0.0 |
| | | * | | * | | 3.4 1.2 | | | | | |
| 6th and 7th child | 1.7 | | 0.0 | | 0.0 | | 3.5 | 3.2 | 2.0 | 0.6 | 0.0 |
| 8th child and over | 0.6 | * | * | * | * | 0.1 | 0.7 | 1.2 | 1.0 | 0.4 | 0.0 |
| American Indian ³ | 70.7 | 1.6 | 72.1 | 44.4 | 118.4 | 139.3 | 102.2 | 66.3 | 30.2 | 6.4 | * |
| 1st child | 25.0 | 1.6 | 55.1 | 39.3 | 81.7 | 50.1 | 20.3 | 9.5 | 3.3 | 0.5 | * |
| 2d child | 19.3 | * | 14.3 | 4.6 | 30.5 | 50.2 | 29.0 | 15.1 | 5.8 | 0.9 | * |
| 3d child | 12.6 | * | 2.3 | 0.5 | 5.5 | 26.9 | 25.4 | 14.8 | 6.4 | 1.3 | * |
| 4th child | 6.7 | * | 0.3 | * | 0.7 | 8.6 | 14.7 | 11.4 | 5.1 | 1.1 | * |
| 5th child | 3.5 | * | 0.3 | * | | 2.4 | 7.4 | 6.9 | 3.9 | 0.9 | * |
| | | * | * | | * | | | | | | |
| 6th and 7th child | 2.8 | <u>^</u> | <u>^</u> | | <u>.</u> | 1.0 | 4.8 | 6.7 | 4.0 | 1.0 | |
| 8th child and over | 0.8 | * | * | * | * | * | 0.7 | 2.0 | 1.7 | 0.7 | * |
| Asian or Pacific Islander | 64.0 | 0.4 | 23.1 | 13.8 | 38.3 | 68.8 | 110.4 | 105.1 | 52.8 | 12.0 | 0.9 |
| 1st child | 29.4 | 0.4 | 18.6 | 12.2 | 29.0 | 41.1 | 57.8 | 39.9 | 14.7 | 2.9 | 0.2 |
| 2d child | 21.4 | * | 3.5 | 1.4 | 7.1 | 18.7 | 34.2 | 41.7 | 20.6 | 4.0 | 0.2 |
| 3d child | 8.2 | * | 0.8 | 0.2 | 1.7 | 5.8 | 11.8 | 15.2 | 10.8 | 2.5 | 0.1 |
| 4th child | 2.7 | * | 0.1 | * | 0.3 | 2.1 | 3.9 | 4.6 | 3.6 | 1.2 | 0.1 |
| 5th child | 1.0 | * | * | * | * | 0.7 | 1.4 | 1.7 | 1.3 | 0.5 | * |
| 6th and 7th child | 0.8 | * | * | * | * | 0.7 | 1.4 | 1.7 | 1.3 | 0.3 | 0.1 |
| | | * | * | * | * | v.4 * | | | 0.7 | | |
| 8th child and over | 0.4 | | | | | | 0.2 | 0.7 | 0.7 | 0.4 | 0.2 |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in numerator.
 0.0 Quantity more than zero but less than 0.05.
 1 Rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.
 2 Rates computed by relating births to women aged 45-54 years to women aged 45-49 years.
 3 Includes births to Aleuts and Eskimos.

Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-98, and by age and race of mother: United States, 1980-98

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group, enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

| | | | | | | Age of | mother | | | | |
|----------------------------------------|--------------------|----------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|
| Year and race | Total fertility | | | 15-19 years | | | | | | | |
| | rate | 10-14 years | Total | 15-17 years | 18-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years ¹ |
| AU 2 | | | | | | | | | | | |
| All races ² | 2 059 F | 1.0 | E11 | 20.4 | 02.0 | 111 0 | 115.0 | 07 / | 27.4 | 7.2 | 0.4 |
| 1998 1997 | 2,058.5 2,032.5 | 1.0 1.1 | 51.1 52.3 | 30.4 32.1 | 82.0 83.6 | 111.2 110.4 | 115.9 113.8 | 87.4 85.3 | 37.4 36.1 | 7.3 7.1 | 0.4 |
| | 2,032.5 | 1.1 | | | | | | 83.9 | 35.3 | | 0.4 |
| 1996 | | | 54.4 | 33.8 | 86.0 | 110.4 | 113.1 | | | 6.8 | |
| 1995 | 2,019.0 | 1.3 | 56.8 | 36.0 | 89.1 | 109.8 | 112.2 | 82.5 | 34.3 | 6.6 | 0.3 |
| 994 | 2,036.0 | 1.4 | 58.9 | 37.6 | 91.5 | 111.1 | 113.9 | 81.5 | 33.7 | 6.4 | 0.3 |
| 993 | 2,046.0 | 1.4 | 59.6 | 37.8 | 92.1 | 112.6 | 115.5 | 80.8 | 32.9 | 6.1 | 0.3 |
| 992 | 2,065.0 | 1.4 | 60.7 | 37.8 | 94.5 | 114.6 | 117.4 | 80.2 | 32.5 | 5.9 | 0.3 |
| 1991 | 2,073.0 | 1.4 | 62.1 | 38.7 | 94.4 | 115.7 | 118.2 | 79.5 | 32.0 | 5.5 | 0.2 |
| 990 | 2,081.0 | 1.4 | 59.9 | 37.5 | 88.6 | 116.5 | 120.2 | 80.8 | 31.7 | 5.5 | 0.2 |
| 989 | 2,014.0 | 1.4 | 57.3 | 36.4 | 84.2 | 113.8 | 117.6 | 77.4 | 29.9 | 5.2 | 0.2 |
| 988 | 1,934.0 | 1.3 | 53.0 | 33.6 | 79.9 | 110.2 | 114.4 | 74.8 | 28.1 | 4.8 | 0.2 |
| 987 | 1,872.0 | 1.3 | 50.6 | 31.7 | 78.5 | 107.9 | 111.6 | 72.1 | 26.3 | 4.4 | 0.2 |
| 986 | 1,837.5 | 1.3 | 50.2 | 30.5 | 79.6 | 107.4 | 109.8 | 70.1 | 24.4 | 4.1 | 0.2 |
| 985 | 1,844.0 | 1.2 | 51.0 | 31.0 | 79.6 | 108.3 | 111.0 | 69.1 | 24.0 | 4.0 | 0.2 |
| 984 ³ 983 ³ | 1,806.5 | 1.2 | 50.6 | 31.0 | 77.4 | 106.8 | 108.7 | 67.0 | 22.9 | 3.9 | 0.2 |
| 983 3 | 1,799.0 | 1.1 | 51.4 | 31.8 | 77.4 | 107.8 | 108.5 | 64.9 | 22.0 | 3.9 | 0.2 |
| 1982 ³ | 1,827.5 | 1.1 | 52.4 | 32.3 | 79.4 | 111.6 | 111.0 | 64.1 | 21.2 | 3.9 | 0.2 |
| | 1,812.0 | 1.1 | 52.2 | 32.0 | 80.0 | 112.2 | 111.5 | 61.4 | 20.0 | 3.8 | 0.2 |
| 1980 ³ | 1,839.5 | 1.1 | 53.0 | 32.5 | 82.1 | 115.1 | 112.9 | 61.9 | 19.8 | 3.9 | 0.2 |
| 1979 ³ | 1,808.0 | 1.2 | 52.3 | 32.3 | 81.3 | 112.8 | 111.4 | 60.3 | 19.5 | 3.9 | 0.2 |
| 1978 ³ 1977 ³ | 1,760.0 | 1.2 | 51.5 | 32.2 | 79.8 | 109.9 | 108.5 | 57.8 | 19.0 | 3.9 | 0.2 |
| 1977 ³ | 1,789.5 | 1.2 | 52.8 | 33.9 | 80.9 | 112.9 | 111.0 | 56.4 | 19.2 | 4.2 | 0.2 |
| 1976 ³ | 1,738.0 | 1.2 | 52.8 | 34.1 | 80.5 | 110.3 | 106.2 | 53.6 | 19.0 | 4.3 | 0.2 |
| 1975 ³ | 1,774.0 | 1.3 | 55.6 | 36.1 | 85.0 | 113.0 | 108.2 | 52.3 | 19.5 | 4.6 | 0.3 |
| | 1,835.0 | 1.2 | 57.5 | 37.3 | 88.7 | 117.7 | 111.5 | 53.8 | 20.2 | 4.8 | 0.3 |
| 1973 ³ | 1,879.0 | 1.2 | 59.3 | 38.5 | 91.2 | 119.7 | 112.2 | 55.6 | 22.1 | 5.4 | 0.3 |
| 1972 ³ | 2,010.0 | 1.2 | 61.7 | 39.0 | 96.9 | 130.2 | 117.7 | 59.8 | 24.8 | 6.2 | 0.4 |
| | 2,266.5 | 1.1 | 64.5 | 38.2 | 105.3 | 150.1 | 134.1 | 67.3 | 28.7 | 7.1 | 0.4 |
| 1970 ⁴ | 2,480.0 | 1.2 | 68.3 | 38.8 | 114.7 | 167.8 | 145.1 | 73.3 | 31.7 | 8.1 | 0.5 |
| White | | | | | | | | | | | |
| 1998 | 2,041.0 | 0.6 | 45.4 | 25.9 | 74.6 | 107.2 | 119.1 | 90.5 | 37.8 | 7.2 | 0.4 |
| 1997 | 2,041.0 | 0.0 | 46.3 | 23.9 | 74.0 | 107.2 | 116.6 | 90.5 87.8 | 36.4 | 6.9 | 0.4 |
| 1996 | 2,009.0 | 0.8 | 40.3 | 28.4 | 78.4 | 107.2 | 116.1 | 86.3 | 35.6 | 6.7 | 0.4 |
| 1995 | 1,989.0 | 0.8 | 50.1 | 30.0 | 81.2 | 107.2 | 114.8 | 84.6 | 34.5 | 6.4 | 0.3 |
| 1995 | 1,985.0 | 0.8 | 51.1 | 30.0 | 82.1 | 106.2 | 114.0 | 83.2 | 34.5 | 6.2 | 0.3 |
| 1993 | 1,982.0 | 0.8 | 51.1 | 30.7 | 82.1 | 106.2 | 116.6 | 82.1 | 32.7 | 5.9 | 0.3 |
| 1992 | 1,993.5 | 0.8 | 51.8 | 30.1 | 83.8 | 108.2 | 118.4 | 81.4 | 32.2 | 5.7 | 0.3 |
| 1991 | 1,995.5 | 0.8 | 52.8 | 30.7 | 83.5 | 100.2 | 118.8 | 80.5 | 32.2 | 5.2 | 0.2 |
| 1990 | 2,003.0 | 0.8 | 50.8 | 29.5 | 78.0 | 109.0 | 120.7 | 81.7 | 31.5 | 5.2 | 0.2 |
| 1989 | 1,931.0 | 0.7 | 47.9 | 29.5 | 72.9 | 109.8 | 117.8 | 78.1 | 29.7 | 4.9 | 0.2 |
| 1988 | 1,856.5 | 0.6 | 44.4 | 26.0 | 69.6 | 100.9 | 114.8 | 75.4 | 23.7 | 4.9 | 0.2 |
| 1987 | 1.804.5 | 0.6 | 42.5 | 24.6 | 68.9 | 102.3 | 112.3 | 73.0 | 25.9 | 4.1 | 0.2 |
| 1986 | 1,776.0 | 0.6 | 42.3 | 24.0 | 70.1 | 102.3 | 112.3 | 70.9 | 23.9 | 3.8 | 0.2 |
| 1985 | 1.787.0 | 0.6 | 42.3 | 23.0 | 70.1 | 102.7 | 112.3 | 69.9 | 23.9 | 3.7 | 0.2 |
| 1984 ³ | 1,748.5 | 0.6 | 43.3 | 24.4 | 68.4 | 104.1 | 109.8 | 67.7 | 23.3 | 3.6 | 0.2 |
| 1983 ³ | 1,740.5 | 0.6 | 43.9 | 24.5 | 68.8 | 102.7 | 109.4 | 65.3 | 21.3 | 3.6 | 0.2 |
| 1982 ³ | 1,767.0 | 0.6 | 45.0 | 25.5 | 70.8 | 107.7 | 111.9 | 64.0 | 20.4 | 3.6 | 0.2 |
| 1981 ³ | 1,748.0 | 0.5 | 44.9 | 25.4 | 71.5 | 108.3 | 112.3 | 61.0 | 19.0 | 3.4 | 0.2 |
| 1980 ³ | 1,773.0 | 0.6 | 45.4 | 25.5 | 73.2 | 111.1 | 113.8 | 61.2 | 18.8 | 3.5 | 0.2 |
| | ., | 0.0 | | 20.0 | . 0.2 | | | 02 | 1010 | 0.0 | 0.2 |
| Black | | | | | | | | | | | |
| 1998 | 2,171.0 | 2.9 | 85.4 | 56.8 | 126.9 | 141.9 | 101.8 | 64.7 | 30.5 | 6.7 | 0.3 |
| 1997 | 2,154.0 | 3.3 | 88.2 | 60.8 | 130.1 | 139.0 | 99.5 | 64.3 | 29.7 | 6.5 | 0.3 |
| 996 | 2,144.0 | 3.6 | 91.4 | 64.7 | 132.5 | 136.8 | 98.2 | 63.3 | 29.1 | 6.1 | 0.3 |
| 995 | 2,175.0 | 4.2 | 96.1 | 69.7 | 137.1 | 137.1 | 98.6 | 64.0 | 28.7 | 6.0 | 0.3 |
| 994 | 2,300.0 | 4.6 | 104.5 | 76.3 | 148.3 | 146.0 | 104.0 | 65.8 | 28.9 | 5.9 | 0.3 |
| 993 | 2,384.5 | 4.6 | 108.6 | 79.8 | 151.9 | 152.6 | 108.4 | 67.3 | 29.2 | 5.9 | 0.3 |
| 992 | 2,442.0 | 4.7 | 112.4 | 81.3 | 157.9 | 158.0 | 111.2 | 67.5 | 28.8 | 5.6 | 0.2 |
| 991 | 2,480.0 | 4.8 | 115.5 | 84.1 | 158.6 | 160.9 | 113.1 | 67.7 | 28.3 | 5.5 | 0.2 |
| 990 | 2,480.0 | 4.9 | 112.8 | 82.3 | 152.9 | 160.2 | 115.5 | 68.7 | 28.1 | 5.5 | 0.3 |
| 989 | 2,432.5 | 5.1 | 111.5 | 81.9 | 151.9 | 156.8 | 114.4 | 66.3 | 26.7 | 5.4 | 0.3 |
| 988 | 2,298.0 | 4.9 | 102.7 | 75.7 | 142.7 | 149.7 | 108.2 | 63.1 | 25.6 | 5.1 | 0.3 |
| 987 | 2,198.0 | 4.8 | 97.6 | 72.1 | 135.8 | 142.7 | 104.3 | 60.6 | 24.6 | 4.8 | 0.2 |
| 986 | 2,135.5 | 4.7 | 95.8 | 69.3 | 135.1 | 137.3 | 101.1 | 59.3 | 23.8 | 4.8 | 0.3 |
| 985 | 2,109.0 | 4.5 | 95.4 | 69.3 | 132.4 | 135.0 | 100.2 | 57.9 | 23.9 | 4.6 | 0.3 |
| 1984 3 | 2,070.5 | 4.4 | 94.1 | 69.2 | 128.1 | 132.2 | 98.4 | 56.7 | 23.3 | 4.8 | 0.2 |
| 983 3 | 2,066.0 | 4.1 | 93.9 | 69.6 | 127.1 | 131.9 | 98.4 | 56.2 | 23.3 | 5.1 | 0.3 |
| 982 ³ | 2,106.5 | 4.0 | 94.3 | 69.7 | 128.9 | 135.4 | 101.3 | 57.5 | 23.3 | 5.1 | 0.4 |
| 1981 ³ | 2,117.5 | 4.0 | 94.5 | 69.3 | 131.0 | 136.5 | 102.3 | 57.4 | 23.1 | 5.4 | 0.3 |
| 980 ³ | 2,176.5 | 4.3 | 97.8 | 72.5 | 135.1 | 140.0 | 103.9 | 59.9 | 23.5 | 5.6 | 0.3 |
| | 2,110.0 | т.о | 07.0 | 12.0 | 100.1 | 1 10.0 | 100.0 | 55.5 | 20.0 | 0.0 | 0.0 |
| | | | | | | | | | | | |

Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-98, and by age and race of mother: United States, 1980-98 --Con.

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group, enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

| | | | | | | Age of | mother | | | | |
|----------------------------------------|--------------------|------------|--------------|----------------|----------------|----------------|----------------|--------------|--------------|------------|--------------------|
| Year and race | Total fertility | 10-14 | | 15-19 years | | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 |
| | rate | years | Total | 15-17 years | 18-19 years | years | years | years | years | years | years ¹ |
| American Indian ⁵ | | | | | | | | | | | |
| 1998 | 2,090.5 | 1.6 | 72.1 | 44.4 | 118.4 | 139.3 | 102.2 | 66.3 | 30.2 | 6.4 | * |
| 1997 | 2,047.5 | 1.7 | 71.8 | 45.3 | 117.6 | 134.9 | 100.8 | 64.2 | 29.3 | 6.4 | 0.4 |
| 1996 | 2,030.0 | 1.7 | 73.9 | 46.4 | 122.3 | 133.9 | 98.5 | 63.2 | 28.5 | 6.3 | * |
| 1995 | 2,033.5 | 1.8 | 78.0 | 47.8 | 130.7 | 132.5 | 98.4 | 62.2 | 27.7 | 6.1 | * |
| 1994 | 2.080.0 | 1.9 | 80.8 | 51.3 | 130.3 | 134.2 | 104.1 | 61.2 | 27.5 | 5.9 | 0.4 |
| 1993 | 2,141.0 | 1.4 | 83.1 | 53.7 | 130.7 | 139.8 | 107.6 | 62.8 | 27.6 | 5.9 | * |
| 1992 | 2,190.0 | 1.6 | 84.4 | 53.8 | 132.6 | 145.5 | 109.4 | 63.0 | 28.0 | 6.1 | * |
| 1991 | 2.169.0 | 1.6 | 85.0 | 52.7 | 134.3 | 144.9 | 106.9 | 61.9 | 27.2 | 5.9 | 0.4 |
| 1990 | 2,183.0 | 1.6 | 81.1 | 48.5 | 129.3 | 148.7 | 110.3 | 61.5 | 27.5 | 5.9 | * |
| 1989 | 2,247.0 | 1.5 | 82.7 | 51.6 | 128.9 | 152.4 | 114.2 | 64.8 | 27.4 | 6.4 | * |
| 1988 | 2.153.5 | 1.7 | 77.5 | 49.7 | 120.0 | 145.2 | 110.9 | 64.5 | 25.6 | 5.3 | * |
| 1987 | 2,099.0 | 1.7 | 77.2 | 48.8 | 122.2 | 140.0 | 107.9 | 63.0 | 24.4 | 5.6 | * |
| 1986 | 2,033.0 | 1.8 | 78.1 | 48.7 | 125.3 | 138.8 | 107.9 | 60.7 | 23.8 | 5.3 | * |
| 1985 | 2,002.0 | 1.0 | 79.2 | 40.7 | 123.3 | 139.1 | 107.9 | 62.6 | 23.0 | 6.0 | * |
| 1983 | 2,120.0 | 1.7 | 81.5 | 50.7 | 124.1 | 142.4 | 109.0 | 60.5 | 26.3 | 5.6 | * |
| | 2,130.0 | 1.7 | 84.2 | 55.2 | 124.7 | 145.5 | 113.7 | 58.9 | 20.3 | | * |
| | 2,180.5 | | | | 121.4 | 145.5 | | | | 6.4 | * |
| 1982 ³ 1981 ³ | 2,213.0 | 1.4 | 83.5 | 52.6 | | | 115.8 | 60.9 | 26.9 | 6.0 | * |
| 1980 ³ | 2,090.0 | 2.1 1.9 | 78.4 82.2 | 49.7 51.5 | 121.5 129.5 | 141.2 143.7 | 105.6 106.6 | 58.9 61.8 | 25.2 28.1 | 6.6 8.2 | * |
| | 2,102.0 | 1.5 | 02.2 | 51.5 | 123.5 | 140.7 | 100.0 | 01.0 | 20.1 | 0.2 | |
| Asian or Pacific Islander | | | | | | | | | | | |
| 1998 | 1,867.5 | 0.4 | 23.1 | 13.8 | 38.3 | 68.8 | 110.4 | 105.1 | 52.8 | 12.0 | 0.9 |
| 1997 | 1,925.5 | 0.5 | 23.7 | 14.3 | 39.3 | 70.5 | 113.2 | 110.3 | 54.1 | 11.9 | 0.9 |
| 1996 | 1,907.5 | 0.6 | 24.6 | 14.9 | 40.4 | 70.7 | 111.2 | 109.2 | 52.2 | 12.2 | 0.8 |
| 1995 | 1,924.0 | 0.7 | 26.1 | 15.4 | 43.4 | 72.4 | 113.4 | 106.9 | 52.4 | 12.1 | 0.8 |
| 1994 | 1,943.0 | 0.7 | 27.1 | 16.1 | 44.1 | 73.1 | 118.6 | 105.2 | 51.3 | 11.6 | 1.0 |
| 1993 | 1,935.5 | 0.6 | 27.0 | 16.0 | 43.3 | 73.3 | 119.9 | 103.9 | 50.2 | 11.3 | 0.9 |
| 1992 | 1,942.0 | 0.7 | 26.6 | 15.2 | 43.1 | 74.6 | 121.0 | 103.0 | 50.6 | 11.0 | 0.9 |
| 1991 | 1,956.0 | 0.8 | 27.4 | 16.1 | 43.1 | 75.2 | 123.2 | 103.3 | 49.0 | 11.2 | 1.1 |
| 1990 | 2,002.5 | 0.7 | 26.4 | 16.0 | 40.2 | 79.2 | 126.3 | 106.5 | 49.6 | 10.7 | 1.1 |
| 1989 | 1,947.5 | 0.6 | 25.6 | 15.0 | 40.4 | 78.8 | 124.0 | 102.3 | 47.0 | 10.2 | 1.0 |
| 1988 | 1,983.5 | 0.6 | 24.2 | 13.6 | 39.6 | 80.7 | 128.0 | 104.4 | 47.5 | 10.3 | 1.0 |
| 1987 | 1,886.0 | 0.6 | 22.4 | 12.6 | 37.0 | 79.7 | 122.7 | 97.0 | 44.2 | 9.5 | 1.1 |
| 1986 | 1,836.0 | 0.5 | 22.8 | 12.1 | 38.8 | 79.2 | 119.9 | 92.6 | 41.9 | 9.3 | 1.0 |
| 1985 | 1,885.0 | 0.4 | 23.8 | 12.5 | 40.8 | 83.6 | 123.0 | 93.6 | 42.7 | 8.7 | 1.2 |
| 1984 ³ | 1,892.0 | 0.5 | 24.2 | 12.6 | 40.7 | 86.7 | 124.3 | 92.4 | 40.6 | 8.7 | 1.0 |
| 1983 ³ | 1,943.5 | 0.5 | 26.1 | 12.0 | 44.5 | 94.0 | 124.0 | 93.3 | 39.4 | 8.2 | 1.0 |
| 1982 ³ | 2,015.5 | 0.4 | 29.4 | 14.0 | 50.8 | 98.9 | 130.9 | 94.4 | 39.2 | 8.8 | 1.0 |
| 1981 ³ | 1,976.0 | 0.4 | 29.4 | 13.4 | 49.5 | 96.4 | 129.1 | 93.4 | 39.2 | 8.6 | 0.9 |
| 1980 ³ | 1,953.5 | 0.3 | 26.2 | 12.0 | 49.3 | 93.3 | 123.1 | 95.4 96.0 | 38.3 | 8.5 | 0.9 |
| 1000 | 1,300.0 | 0.0 | 20.2 | 12.0 | 40.2 | 33.3 | 121.4 | 30.0 | 50.5 | 0.0 | 0.7 |

Figure does not meet standards of reliability or precision; based on fewer than 20 births in numerator.
Beginning 1997, rates computed by relating births to women aged 45-54 years to women aged 45-49 years.
For 1970-91 includes births to races not shown separately.
Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.
Based on a 50-percent sample of births.
Includes births to Aleuts and Eskimos.

Table 5. Fertility rates and birth rates by live-birth order and race of mother: United States, 1980-98

[Rates are live births per 1,000 women aged 15-44 years, enumerated as of April 1 for 1980 and 1990, and estimated as of July 1 for all other years. Figures for live-birth order not stated are distributed]

| | Fertility | | | | Live-birth order | | | |
|----------------------------------------|--------------|--------------|--------------|------------|------------------|------------|------------|------------|
| Year and race of mother | rate | 1 | 2 | 3 | 4 | 5 | 6 and 7 | 8 and over |
| All races ¹ | | | | | | | | |
| 1998 | 65.6 | 26.4 | 21.4 | 10.8 | 4.2 | 1.5 | 0.9 | 0.3 |
| 1997 | 65.0 | 26.5 | 21.1 | 10.6 | 4.1 | 1.5 | 0.9 | 0.3 |
| 1996 | 65.3 | 26.8 | 21.1 | 10.5 | 4.1 | 1.5 | 0.9 | 0.3 |
| 1995 | 65.6 | 27.3 | 21.1 | 10.5 | 4.0 | 1.5 | 0.9 | 0.3 |
| 1994 | 66.7 | 27.5 | 21.5 | 10.7 | 4.2 | 1.6 | 1.0 | 0.3 |
| 1993 | 67.6 | 27.5 | 21.9 | 11.0 | 4.3 | 1.6 | 1.0 | 0.3 |
| 1992 | 68.9 | 27.8 | 22.3 | 11.3 | 4.4 | 1.7 | 1.0 | 0.3 |
| 1991 | 69.6 | 28.3 | 22.4 | 11.4 | 4.5 | 1.7 | 1.0 | 0.3 |
| 1990 | 70.9 | 29.0 | 22.8 | 11.7 | 4.5 | 1.7 | 1.0 | 0.3 |
| 1989 | 69.2 | 28.4 | 22.4 | 11.3 | 4.3 | 1.6 | 0.9 | 0.3 |
| 1988 | 67.3 | 27.6 | 22.0 | 10.9 | 4.1 | 1.5 | 0.9 | 0.3 |
| 1987 | 65.8 | 27.2 | 21.6 | 10.5 | 3.9 | 1.4 | 0.8 | 0.3 |
| 1986 | 65.4 | 27.2 | 21.6 | 10.3 | 3.8 | 1.4 | 0.8 | 0.3 |
| 1985 | 66.3 | 27.6 | 22.0 | 10.4 | 3.8 | 1.4 | 0.8 | 0.3 |
| 1984 ² | 65.5 | 27.4 | 21.7 | 10.1 | 3.7 | 1.4 | 0.9 | 0.3 |
| 1983 ² | 65.7 | 27.8 | 21.5 | 10.1 | 3.7 | 1.4 | 0.9 | 0.3 |
| 1982 ² | 67.3 | 28.6 | 22.0 | 10.2 | 3.8 | 1.4 | 0.9 | 0.3 |
| 1981 ² | 67.3 | 29.0 | 21.6 | 10.1 | 3.8 | 1.5 | 0.9 | 0.4 |
| 1980 ² | 68.4 | 29.5 | 21.8 | 10.3 | 3.9 | 1.5 | 1.0 | 0.4 |
| White | | a a (| | | | | | |
| 1998 | 64.6 | 26.1 | 21.5 | 10.7 | 3.9 | 1.3 | 0.8 | 0.2 |
| 1997 | 63.9 | 26.2 | 21.2 | 10.4 | 3.8 | 1.3 | 0.8 | 0.2 |
| 1996 | 64.3 | 26.6 | 21.2 | 10.4 | 3.8 | 1.3 | 0.8 | 0.2 |
| 1995 | 64.4 | 26.9 | 21.1 | 10.3 | 3.8 | 1.3 | 0.7 | 0.2 |
| 1994 | 64.9 | 27.0 | 21.4 | 10.4 | 3.8 | 1.3 | 0.8 | 0.2 |
| 1993 | 65.4 | 27.0 | 21.7 | 10.5 | 3.9 | 1.4 | 0.8 | 0.2 |
| 1992 | 66.5 | 27.3 | 22.0 | 10.8 | 4.0 | 1.4 | 0.8 | 0.2 |
| 1991 | 67.0 | 27.8 | 22.0 | 10.8 | 4.0 | 1.4 | 0.8 | 0.2 |
| 1990 | 68.3 | 28.4 | 22.4 | 11.1 | 4.0 | 1.4 | 0.8 | 0.2 |
| 1989 | 66.4 | 27.6 | 21.9 | 10.7 | 3.8 | 1.3 | 0.7 | 0.2 |
| 1988 | 64.5 | 26.8 | 21.6 | 10.4 | 3.6 | 1.2 | 0.7 | 0.2 |
| 1987 | 63.3 | 26.5 | 21.3 | 10.0 | 3.5 | 1.2 | 0.7 | 0.2 |
| 1986 | 63.1 | 26.6 | 21.3 | 9.8 | 3.4 | 1.2 | 0.7 | 0.2 |
| 1985 | 64.1 | 27.0 | 21.8 | 9.9 | 3.4 | 1.2 | 0.7 | 0.2 |
| 1984 ² | 63.2 | 26.8 | 21.4 | 9.6 | 3.3 | 1.2 | 0.7 | 0.2 |
| 1983 ² | 63.4 | 27.2 | 21.2 21.6 | 9.5 | 3.3 3.4 | 1.2 1.2 | 0.7 | 0.2 |
| 1982 ² | 64.8 64.8 | 28.0 28.4 | 21.0 | 9.6 9.5 | 3.4 | | 0.7 0.8 | 0.3 0.3 |
| 1981 ² 1980 ² | 65.6 | 28.8 | 21.1 | 9.6 | 3.4 | 1.2 1.3 | 0.8 | 0.3 |
| | 00.0 | 20.0 | 21.5 | 5.0 | 0.4 | 1.0 | 0.0 | 0.0 |
| Black 1998 | 71.0 | 27.0 | 21.1 | 12.3 | 5.7 | 2.6 | 1.7 | 0.6 |
| 1997 | 70.7 | 27.3 | 20.7 | 12.1 | 5.7 | 2.5 | 1.8 | 0.6 |
| 1996 | 70.7 | 27.6 | 20.5 | 12.0 | 5.6 | 2.6 | 1.8 | 0.6 |
| 1995 | 72.3 | 28.7 | 20.7 | 12.0 | 5.7 | 2.6 | 1.8 | 0.6 |
| 1994 | 76.9 | 29.8 | 22.2 | 13.1 | 6.3 | 2.9 | 2.0 | 0.6 |
| 1993 | 80.5 | 30.2 | 23.4 | 14.1 | 6.9 | 3.1 | 2.2 | 0.7 |
| 1992 | 83.2 | 30.6 | 24.3 | 15.0 | 7.2 | 3.3 | 2.2 | 0.6 |
| 1991 | 85.2 | 31.5 | 25.0 | 15.4 | 7.4 | 3.3 | 2.1 | 0.6 |
| 1990 | 86.8 | 32.4 | 25.6 | 15.6 | 7.4 | 3.2 | 2.0 | 0.6 |
| 1989 | 86.2 | 32.9 | 25.4 | 15.3 | 7.1 | 3.0 | 1.9 | 0.6 |
| 1988 | 82.6 | 31.8 | 24.6 | 14.4 | 6.6 | 2.8 | 1.8 | 0.5 |
| 1987 | 80.1 | 31.2 | 23.8 | 13.9 | 6.3 | 2.7 | 1.7 | 0.5 |
| 1986 | 78.9 | 31.0 | 23.4 | 13.5 | 6.1 | 2.6 | 1.7 | 0.5 |
| 1985 | 78.8 | 31.0 | 23.4 | 13.4 | 6.1 | 2.6 | 1.7 | 0.5 |
| 1984 ² | 78.1 | 30.9 | 23.0 | 13.2 | 6.0 | 2.6 | 1.7 | 0.6 |
| 1983 ² | 78.7 | 31.1 | 23.1 | 13.2 | 6.1 | 2.7 | 1.8 | 0.6 |
| 1982 ² | 80.9 | 31.7 | 23.9 | 13.8 | 6.3 | 2.7 | 1.8 | 0.7 |
| | | | | | | | | |
| 1981 ² | 82.0 | 32.3 | 24.2 | 13.7 | 6.3 | 2.8 | 1.9 | 0.8 |

Includes races other than white and black.
 Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States: see Technical notes.

Table 6. Live births, birth rates, and fertility rates by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-98

| | | | | Hispa | anic | | | / | Non-Hispanic | |
|----------------------------------------|-----------------------------|----------------|----------------|-----------------|--------------|-----------------------------------------|----------------------------------|--------------------|--------------|--------------|
| Measure and year | All origins ¹ | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ² | White | Black |
| Number | | | | | | | | | | |
| 1998 | 3,941,553 | 734,661 | 516,011 | 57,349 | 13,226 | 98,226 | 49,849 | 3,158,975 | 2,361,462 | 593,127 |
| 1997 | | 709,767 | 499,024 | 55,450 | 12,887 | 97,405 | 45,001 | 3,115,174 | 2,333,363 | 581,431 |
| 1996 | 3,891,494 | 701,339 | 489,666 | 54,863 | 12,613 | 97,888 | 46,309 | 3,133,484 | 2,358,989 | 578,099 |
| 1995 | | 679,768 | 469,615 | 54,824 | 12,473 | 94,996 | 47,860 | 3,160,495 | 2,382,638 | 587,781 |
| 1994 | | 665,026 | 454,536 | 57,240 | 11,889 | 93,485 | 47,876 | 3,245,115 | 2,438,855 | 619,198 |
| 1993 | | 654,418 | 443,733 | 58,102 | 11,916 | 92,371 | 48,296 | 3,295,345 | 2,472,031 | 641,273 |
| 1992 ³ | | 643,271 | 432,047 | 59,569 | 11,472 | 89,031 | 51,152 | 3,365,862 | 2,527,207 | 657,450 |
| 1991 ³ | | 623,085 | 411,233 | 59,833 | 11,058 | 86,908 | 54,053 | 3,434,464 | 2,589,878 | 666,758 |
| 1990 ⁴ | | 595,073 | 385,640 | 58,807 | 11,311 | 83,008 | 56,307 | 3,457,417 | 2,626,500 | 661,701 |
| 1989 ⁵ | 3,903,012 | 532,249 | 327,233 | 56,229 | 10,842 | 72,443 | 65,502 | 3,297,493 | 2,526,367 | 611,269 |
| Birth rate 6 | | | | | | | | | | |
| 1998 | 14.6 | 24.3 | 26.4 | 19.0 | 10.0 | ⁷ 23.2 | | 13.4 | 12.3 | 18.2 |
| 1997 | 14.5 | 24.2 | 26.8 | 18.1 | 10.1 | 722.4 | | 13.3 | 12.2 | 18.1 |
| 1996 | 14.7 | 24.8 | 27.4 | 17.9 | 10.7 | 723.4 | | 13.5 | 12.4 | 18.3 |
| 1995 | 14.8 | 25.2 | 26.9 | 19.7 | 11.0 | 725.3 | | 13.7 | 12.6 | 18.8 |
| 1994 | 15.2 | 25.5 | 27.0 | 21.4 | 10.8 | ⁷ 25.7 | | 14.0 | 12.8 | 20.0 |
| 1993 | 15.5 | 26.0 | 27.4 | 21.9 | 10.5 | ⁷ 26.9 | | 14.4 | 13.1 | 21.1 |
| 1992 ⁸ 1991 ⁸ | 15.9 | 26.5 | 27.8 | 23.2 | 10.1 | ⁷ 27.9 | | 14.8 | 13.5 | 21.9 |
| | 16.3 16.7 | 26.7 26.7 | 29.2 28.7 | 21.0 21.6 | 10.1 10.9 | ⁷ 26.5 ⁷ 27.5 | | 15.2 15.7 | 13.9 | 22.5 23.0 |
| 1990 ⁴ 1989 ⁵ | 16.7 | 26.7 | 28.7 25.7 | 21.6 | 10.9 | ⁷ 28.3 | | 15.7 | 14.4 14.2 | 23.0 |
| 1909 ° | 10.5 | 20.2 | 23.7 | 23.1 | 10.0 | 20.5 | | 15.4 | 14.2 | 22.0 |
| Fertility rate ⁹ | | | | | | - | | | | |
| 1998 | 65.6 | 101.1 | 112.1 | 75.5 | 50.1 | ⁷ 90.2 | | 60.7 | 57.7 | 73.0 |
| 1997 | 65.0 | 102.8 | 116.6 | 71.7 | 57.4 | 787.6 | | 60.1 | 57.0 | 72.4 |
| 1996 | 65.3 | 104.9 | 119.3 | 71.3 | 58.9 | 790.2 | | 60.3 | 57.3 | 72.5 |
| 1995 | 65.6 | 105.0 | 117.0 | 75.7 | 55.1 | ⁷ 94.5 | | 60.8 | 57.6 | 74.5 |
| 1994 | 66.7 | 105.6 | 115.4 | 81.9 | 55.9 | ⁷ 97.7 | | 62.0 | 58.3 | 79.0 |
| 1993 | 67.6 | 106.9 | 114.8 | 82.5 | 55.5 | ⁷ 105.0 | | 63.1 | 59.0 | 82.7 |
| 1992 ⁸ 1991 ⁸ | 68.9 | 108.6 | 116.0 | 89.9 | 50.3 | ⁷ 107.0 ⁷ 99.3 | | 64.4 | 60.2 | 85.5 |
| 1991 ⁸ 1990 ⁴ | 69.6 | 108.1 107.7 | 121.6 | 80.9 | 49.1 | ⁷ 99.3 ⁷ 102.7 | | 65.4 67.1 | 61.0 | 87.6 |
| 1990 ⁴ 1989 ⁵ | 71.0 69.2 | 107.7 | 118.9 106.6 | 82.9 86.6 | 52.6 49.8 | ⁷ 95.8 | | 67.1 | 62.8 60.5 | 89.0 84.8 |
| 1909 | 09.2 | 104.9 | 100.0 | 00.0 | 43.0 | 93.0 | | 03.7 | 00.5 | 04.0 |

 Includes origin not stated.
 Includes races other than white and black.
 Excludes data for New Hampshire, which did not report Hispanic origin.
 Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.
 Excludes data for New Hampshire, and Oklahoma, which did not report Hispanic origin.
 Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.
 Live births per 1,000 population in specifed group.
 Includes Central and South American and other and unknown Hispanic.
 Rates are estimated for the United States based on birth data for 49 States and the District of Columbia. Births for New Hampshire that did not report Hispanic origin, are included in the rates for non-Hispanic women; see Technical notes.
 Live births per 1,000 women aged 15-44 years in specified group. NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 7. Live births by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1998

[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only]

| | | | | | | | | A | ge of moth | er | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|-------|---------|-------|--------|--------|--------|------------|---------|---------|---------|--------|--------|-------|-------|
| If Synters Total 15 16 17 18 19 years years <th></th> <th></th> <th>Under</th> <th></th> <th></th> <th>15-19</th> <th>years</th> <th></th> <th></th> <th>20-24</th> <th>25-29</th> <th>30-34</th> <th>35-30</th> <th>40-44</th> <th>45-49</th> <th>50-54</th> | | | Under | | | 15-19 | years | | | 20-24 | 25-29 | 30-34 | 35-30 | 40-44 | 45-49 | 50-54 |
| | ongin of mother | ayes | | Total | | | | | | | | | | | | years |
| tat daki 272.004 2.608 91.153 71.02 14.242 20.07 24.22 25.444 94.544 94.647 95.646 70.15 15.30 53 3d chid 134.336 44 4.342 57 13.247 12.247 17.07 95.61 13.027 33.077 45.06 37.77 13.64 23.79 85.41 3d chid 23.23 13 1 1 77 92.04 6.01 10.04 13.32 22.07 13.42 22.15 11.37 92.02 13.37 90.24 13.22 22.07 13.42 22.25 13.37 13.22 24.07 17.11 22.25 13.37 13.22 24.07 17.11 22.25 17.11 14.32 24.30 24.320 28.28 13.04 13.38 67.7 22.26 77.11 12.25 77.11 12.25 77.11 12.25 77.11 12.26 77.17 13.08 13.08 13.08 12.08 12.08 12.08 12.08 <td>Hispanic</td> <td></td> | Hispanic | | | | | | | | | | | | | | | |
| 24 child 223,025 44 23,938 34 1 1,453 3,801 7,232 11,020 79,71 67,771 67,781 67,771 67,781 67,771 67,781 67,771 67,781 67,771 67,781 67,771 67,781 67,771 67,781 67,771 67,781 67,771 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 67,781 780 | Total | 734,661 | 2,716 | 121,388 | 7,525 | 16,079 | 24,630 | 33,400 | 39,754 | 223,113 | 196,012 | 125,702 | 54,195 | 11,056 | 475 | 4 |
| 3d-hild 133,336 4 4.342 5 92 4.25 1,242 2.77 33,879 45.08 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,117 18,119 18,117 18,117 18,117 18,117 18,117 18,117 18,117 18,119 18,119 18,117 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,117 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 18,119 <td></td> <td>1</td> | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | 1 |
| Sin child 23,341 - 57 - 1 - 8 44 2.24 3.08 5.07 1.335 52 Bin child 32,397 - 1 - - 1 8 44 2.24 3.08 5.54 3.24 3.77 1 3 Bin child and over 3,471 - 1 - - 1 1.68 4677 377 711 56 3.77 711 71 3 3.77 71 3 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 3.77 71 71 71 71 71 71 71 71 71 71 71 71 71 | | | 4 | | | | | | | | | | | | | - |
| bit child 9,289 - 1 - 2 - 1 8 544 1,324 32 323 7,337 1,325 1,335 1,335 1,335 1,337 1,335 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 1,337 <td>4th child</td> <td>59,119</td> <td>-</td> <td>522</td> <td>2</td> <td>3</td> <td>39</td> <td>121</td> <td>357</td> <td>9,829</td> <td>19,619</td> <td>18,028</td> <td>9,207</td> <td>1,840</td> <td>74</td> <td>-</td> | 4th child | 59,119 | - | 522 | 2 | 3 | 39 | 121 | 357 | 9,829 | 19,619 | 18,028 | 9,207 | 1,840 | 74 | - |
| The chail and and a set of the chain of the | 5th child | 23,341 | - | 57 | - | 1 | - | 8 | 48 | 2,415 | 6,612 | 7,853 | 5,017 | 1,335 | 52 | - |
| Bit child and over $3, 471$ -1 1 -1 -1 -1 -1 -1 -1 | | 9,289 | - | 11 | - | 2 | - | 1 | 8 | 544 | 2,224 | 3,094 | 2,541 | 842 | 32 | 1 |
| Not stated | 7th child | 4,115 | - | - | - | - | - | - | - | 105 | 748 | 1,392 | 1,352 | 490 | 27 | 1 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 8th child and over | 3,471 | - | 1 | - | - | - | 1 | - | 58 | 407 | 957 | 1,275 | 711 | 62 | - |
| stat child 185738 1.907 65.970 5.192 10.494 14.591 17.640 18.153 67.674 32.866 12.650 3.971 672 28 2d child 1135,762 35 17.853 2.89 1.060 2.869 5.633 81.185 59.544 21.456 6.612 95.63 37 41 child 147.892 - 39 - 1 5 6 32 1.607 5.145 6.016 95.67 5.273 71.076 669 42 5.376 668 44 44.591 71.717 710.696 2.205 3.706 668 44 5.737 710.776 769 2.22 737 710.797 679 2.22 737 710.797 769 2.22 739 13.662 724 35 55 166 236 2.90 306 1.522 2.91 6.46 10.57 57 11.613 57 166 3.637 3.577 2.19 6.46 10.57 53 3.57 5.19 5.10 5.10 5.10 5.10 5. | Not stated | 5,941 | 38 | 1,364 | 75 | 204 | 308 | 382 | 395 | 1,998 | 1,317 | 822 | 324 | 77 | 1 | - |
| 2d child 153,762 35 17,835 256 1,060 2,869 5,463 6,165 95,941 4,443 21,486 6,211 18,95 25,524 30,000 23,439 6,221 1,347 377 4m child 44,289 - 383 1 2 30 96 252,524 30,000 23,439 6,223 1,317 6,233 1,211 52 7m child 3,212 - - - - 1 - - 79 551 1,062 1,077 879 22 7m child 3,212 - - - - 1 - - 1 - - 1,07 951 1,022 1,071 396 23 1,007 3,061 3,062 724 35 55 166 236 290 306 1,527 2,918 6,801 3,662 724 35 51 child - 1,226 255 3,911 3,672 2,016 841 1,10 1,177 1,924 36 3,1673 3 | Mexican | 516,011 | 1,974 | 88,484 | 5,510 | 11,798 | 18,028 | 24,320 | 28,828 | 163,691 | 139,091 | 82,140 | 33,484 | 6,850 | 295 | 2 |
| 3d chid 96,618 4 3,195 4 73 302 921 1.895 2524 35.000 23.499 6.272 1.347 37 Sin chid 17,892 - 38 1 2 0 98 6.22 7.307 15.049 1.024 56.35 1.211 52 Sin chid 7.282 - 38 1 - - 537 1516 1.024 568 53 1.211 522 959 13.22 569 53 2.211 569 583 2.211 569 583 2.21 49 - - - - - - - - 370 15.048 3.056 1.522 956 593 3.222 49 - 35 Fuence 1.614 4.151 - 75 1 1.61 106 6.303 4.767 2.019 648 1.024 563 2.11 1.01 64 1.012 2.05 52 51 1.01 1.01 1.01 1.01 1.01 1.01 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></td<> | | | | | | | | | | | | | | | | - |
| ath child 44,289 - 383 1 2 30 98 252 7,307 15,099 13,702 6,535 1,211 62 bin child 7,179 - 8 - 2 - 1 5 384 1,633 2,405 1,977 6,79 22 Th child 32,121 - - - 73 851 1,987 6,133 5,222 490 5 Not stated 4,423 28 1,053 55 166 236 290 306 1,522 668 583 1,222 490 5 Puetro Rictan 2,743 34 166 2,467 1,391 3,876 1,793 1,3687 7,793 1,448 3,076 3,072 2,914 446 1,773 9 3,411 16 10 57 413 3,771 1,996 6,847 3,281 416 1,977 645 1,177 1010 565 1,55 1,55 1,55 56 1,177 1,996 5,97 1,177 1,996 | | | | | | | | | | | | | | | | 1 |
| Sin child 17,792 - 39 - 1 - 6 32 1,807 5,145 6,005 3,796 969 41 Tin child 2,212 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | | | 4 | | | | | | | | | | | | | - |
| bit child $1, 7, 179$ - 8 - 2 - 1 5 394 1, 633 2, 405 1, 977 679 22 bit child and over 2, 2698 - 1 7 9 555 1, 1092 1, 1071 366 23 bit child and over 2, 2698 - 1 7 9 555 1, 1092 1, 1071 366 523 bit child and over 2, 2698 - 1 7 9 555 1, 1092 1, 2071 366 523 bit child and over 2, 2698 9, 032 766 1, 438 2, 061 2, 412 2, 355 6, 847 3, 597 2, 019 646 120 6 24 child 2, 25, 256 2, 258 9, 032 766 1, 438 2, 061 2, 412 2, 355 6, 847 3, 597 2, 2019 646 120 6 24 child 9, 715 - 529 - 13 57 143 316 3076 3, 022 2, 019 646 120 6 24 child 9, 715 - 529 - 13 57 143 316 3, 076 3, 022 2, 016 881 181 10 34 child 9, 715 - 529 - 13 57 143 316 3, 076 3, 022 2, 016 881 181 10 44 child 1, 619 - 75 1 1 6 10 57 1, 045 1, 6147 1, 1012 2, 059 82 5 51 child 1, 619 - 75 1 1 2 6 10 57 1, 045 1, 6147 1, 1012 2, 059 82 5 51 child 1, 619 - 75 1 1 6 10 6 77 1, 045 1, 6147 1, 1012 2, 059 82 5 51 child 1, 619 - 75 1 | | | - | | 1 | | 30 | | | | | | | | | - |
| The child $3,212$ \cdot \cdot \cdot \cdot $ \cdot$ $ -$ | | | - | | - | | - | 6 | | | | | | | | - |
| Bith child and over 2.688 - 1 - - - 1 - - - 1 - - - 1 - - - 1 - - - 1 - - - 1 - 1 - - - 1 - 1 - - - 1 - - 1 - 1 - 1 - 1 - 1 - 1 - 1 1 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </td <td></td> <td>7,179</td> <td>-</td> <td>8</td> <td>-</td> <td>2</td> <td>-</td> <td>1</td> <td>5</td> <td>394</td> <td>1,693</td> <td>2,405</td> <td>1,977</td> <td></td> <td>22</td> <td>1</td> | | 7,179 | - | 8 | - | 2 | - | 1 | 5 | 394 | 1,693 | 2,405 | 1,977 | | 22 | 1 |
| Not stated 4,423 28 1,063 55 166 236 290 306 1,522 956 593 222 49 - Puerto Rican 67,349 267 12,286 813 1,639 2,667 3,391 3,876 1,7430 13,643 8,801 3,662 724 35 ab child 17,443 288 9,302 766 14,78 2,355 6,437 3,577 2,014 1,065 127 9 3d child 9,774 1,316 3,075 3,022 2,014 1,065 127 19 4th child 4,151 - 725 1 1 6 10 57 549 447 249 65 1 5th child 1639 - - - 1 2 305 73 32 3 Attistated 669 5 163 12 19 34 49 247 151 79 18 6 - Cuban 13,226 25 886 58 | 7th child | 3,212 | - | - | - | - | - | - | - | 79 | 551 | 1,092 | 1,071 | 396 | 23 | - |
| Pueto Rican 57,349 267 12,286 813 1,639 2,567 3,391 3,876 17,930 13,643 8,801 3,662 7,24 35 1st child 77,443 4 2,483 34 168 409 776 1,036 6,303 4,572 2,814 1,085 173 9 41 child 9,151 - 575 1 1 6 10 57 1,045 1,022 120 505 18 15 551 child 1,1619 - 755 1 1 6 10 57 1,045 1471 102 249 55 551 child 1,1619 - 755 1 1 - 1 1 6 10 57 1,045 1471 102 249 55 511 child 0,93 - 1 1 1 2 305 549 147 249 65 511 child 0,93 - 1 1 1 6 193 106 73 19 - 511 child 0,97 - 1 1 6 51 106 73 19 - 511 child 0,97 - 1 1 6 55 110 6 75 39 3 Not stated 669 5 163 12 19 34 49 49 247 151 79 18 6 - Cuban 13,226 25 886 58 128 174 229 297 2,536 3,761 3,771 1,926 307 13 2d child 19,20 - 13 1 1 12 18 466 46 - 511 child 517 - 1 1 1 12 18 466 466 - 51 child 517 - 1 1 1 14 24 31 72 178 1402 1612 760 96 4 3 child 19,20 - 13 1 1 14 4 79 181 166 466 - 51 child 517 - 1 1 1 14 4 79 181 166 466 - 51 child 517 - 1 1 1 44 75 181 8 20 5 - 1 child 517 - 1 1 1 44 79 181 166 466 - 51 child 517 - 1 1 1 14 4 79 181 166 466 - 51 child 517 - 1 1 1 44 79 181 166 466 - 51 child 517 - 1 1 1 44 75 181 8 20 5 - 71 child 19 1 1 12 18 45 42 13 - 52 child 52 1 1 44 75 181 8 20 5 - 71 child 19 1 1 44 75 181 8 20 5 - 71 child 19 1 1 44 75 181 8 20 5 - 71 child 19 | 8th child and over | 2,698 | - | 1 | - | - | - | 1 | - | 43 | 298 | 708 | 1,024 | 569 | 55 | - |
| tst child 22,526 258 9,032 766 1,438 2,061 2,412 2,355 6,847 3,597 2,019 646 120 6 2d child 17,443 4 2,483 34 168 409 776 1,086 3,032 2,216 818 100 4h child 4,151 - 75 1 1 6 10 57 1,441 316 3,075 2,216 818 10 53 1 - - 1 2 53 106 73 19 - - - - - - - 6 51 106 75 39 3 Not stated 669 5 163 12 19 34 49 49 247 151 79 118 6 - - - - - - - - - 6 51 106 75 39 3 3 3 3 142 141 14 149 172 1778 1,402 | Not stated | 4,423 | 28 | 1,053 | 55 | 166 | 236 | 290 | 306 | 1,522 | 956 | 593 | 222 | 49 | - | - |
| 2d chid 17,443 4 2,483 34 168 409 776 1,006 6,303 4,572 2,814 1,085 173 9 4th chid 4,151 75 1 1 6 10 57 1,046 1,417 1,012 505 92 55 5th chid 633 1 - - 1 2 305 649 447 249 65 1 5th chid 633 - 1 - - - 1 85 191 202 130 29 1 Sth chid 633 - - - - 6 51 106 73 19 - Sth chid 665 5 163 12 19 34 49 49 49 147 170 18 66 51 106 73 39 30 771 18.02 51 162 604 44 44 1142 114 243 172 1776 1.402 1612 760 | Puerto Rican | 57,349 | 267 | 12,286 | 813 | 1,639 | 2,567 | 3,391 | 3,876 | 17,930 | 13,643 | 8,801 | 3,662 | 724 | 35 | 1 |
| 2d chid 17,443 4 2,483 34 168 409 776 1,006 6,303 4,572 2,814 1,085 173 9 4th chid 4,151 75 1 1 6 10 57 1,045 1,417 1,012 505 92 5 5th chid 639 - 1 - - - 1 85 191 202 130 29 1 7th chid 639 - 1 - - - 1 85 191 202 130 29 1 Stated 665 5 163 12 19 34 49 49 247 151 75 39 3 Stated 665 5 163 12 19 34 449 49 49 142 141 24 31 778 1,402 1,612 760 6 4 4th chid 517 1 1 - - 1 14 47 75 1 | 1st child | 22,526 | 258 | 9,032 | 766 | 1,438 | 2,061 | 2,412 | 2,355 | 6,847 | 3,597 | 2,019 | 646 | 120 | 6 | 1 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | 17,443 | 4 | 2,483 | 34 | 168 | 409 | 776 | 1,096 | 6,303 | 4,572 | 2,814 | 1,085 | 173 | 9 | - |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | 9,715 | - | | - | | | | | | | | | 181 | 10 | - |
| Sith child 1,619 - 3 - - - 1 2 305 549 447 249 665 1 Th child 307 - - - - - 1 85 191 202 130 29 1 Th child 307 - - - - - - 16 51 106 75 39 3 Not stated 669 5 163 12 19 34 49 49 247 151 79 18 6 - Cuban 13,226 25 886 58 128 174 229 297 2,536 3,761 3,771 1,926 307 13 1st child 4,774 - 142 144 244 31 72 778 14,02 1,612 700 6 7 4 2d child 1,120 - 1 14 24 66 - 1 16 26 - - - <td< td=""><td></td><td></td><td>-</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></td<> | | | - | | 1 | | | | | | | | | | | - |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | - | | - | - | - | | | | | | | | | - |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | - | | - | - | - | - | | | | | | | | - |
| Bith child and over 280 - - - - - - 6 5 106 75 39 3 Not stated 669 5 163 12 19 34 49 49 247 151 79 18 6 - Cuban 13,226 25 886 58 128 174 229 297 2,536 3,761 3,771 1,926 307 13 1st child 4.794 - 142 1 14 24 31 72 778 1,402 1,612 760 96 4 3d child 1.920 - 1 - - - 1 12 18 45 42 13 - - - 1 14 79 18 46 66 44 79 18 166 46 - - 1 12 13 - - 1 12 13 - - 1 13 7 1 10 1 10 | | | - | | - | - | - | - | - | | | | | | | |
| Not stated | | | | | | _ | | | | | | | | | 3 | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | 5 | 163 | 12 | 19 | 34 | 49 | 49 | | | | | | | - |
| 2d child 4794 - 142 1 14 24 31 72 778 1.612 760 96 4 4th child 517 - 1 - - 1 144 79 181 166 46 - 5th child 517 - 1 - - - 1 12 18 45 42 13 - - - 1 12 18 45 42 13 - - - - 1 12 18 45 42 13 - - - - 1 12 18 45 42 13 - - - - 1 12 18 45 42 13 - - - 1 12 18 40 5 12 - - - 1 3 7 10 1 - - 1 3 7 10 1 - - - 1 3 7 10 1 10 <td>Cuban</td> <td>13,226</td> <td>25</td> <td>886</td> <td>58</td> <td>128</td> <td>174</td> <td>229</td> <td>297</td> <td>2,536</td> <td>3,761</td> <td>3,771</td> <td>1,926</td> <td>307</td> <td>13</td> <td>1</td> | Cuban | 13,226 | 25 | 886 | 58 | 128 | 174 | 229 | 297 | 2,536 | 3,761 | 3,771 | 1,926 | 307 | 13 | 1 |
| 2d child 4,794 - 142 1 14 24 31 72 778 1,612 760 96 4 4th child 517 - 1 - - 1 144 79 181 166 46 - 5th child 58 - - - 1 12 18 45 42 13 - - - 1 12 18 45 42 13 - - - - 1 12 18 45 42 13 - - - - 1 12 18 45 42 13 - - - 1 12 18 45 42 13 - - - 1 13 7 10 1 - - - 1 3 7 10 1 - - - 1 3 7 10 1 - - - 1 3 7 10 1 1 - - - | 1st child | 5 739 | 25 | 727 | 57 | 113 | 147 | 197 | 213 | 1 497 | 1 792 | 1 212 | 420 | 63 | 3 | - |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | | | | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | - | | | 14 | | | | | | | | | | - |
| 5h child 131 - 1 - - - 1 12 18 45 42 13 - 6h child 58 - - - - - 2 13 18 20 5 - 7th child 19 - - - - - 1 3 7 10 1 - 8th child and over 22 - - - - 1 3 7 10 1 - Not stated - 1 - 1 3 7 10 1 - - 1 3 7 10 1 - - 1 3 7 10 1 - - - 1 3 7 10 1 - - - 13 3 7 10 1 - - 1 3 7 10 1 - 13 3 6 7 13 390 16 4 4 13 13 | | | - | | - | - | 5 | 1 | | | | | | | 4 | - |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | - | | - | - | - | - | | | | | | | - | - |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | - | 1 | - | - | - | - | 1 | | | | | | - | - |
| 8th child and over 22 | | | - | - | - | - | - | - | - | | | | | | - | - |
| Not stated 26 - 2 - 1 - - 1 3 7 6 7 - 1 Central and South American 98,226 185 9,911 472 1,127 1,793 2,845 3,674 24,430 27,200 22,627 11,361 2,411 101 1st child 37,714 182 7,917 457 1,039 1,538 2,253 2,630 12,480 9,059 5,539 2,131 390 16 2d child 31,603 2 1,670 14 86 218 501 851 8,129 9,894 7,907 3,390 587 24 4th child 6,832 - 19 - - - 1 18 733 1,895 2,272 1,519 380 14 6th child 2,463 2 - - - 1 28 184 311 303 98 7 6th child 912 - 1 - - - - - 4 | | | - | | - | - | - | - | - | | | | | | | 1 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | - | | - | - | - | - | - | | | | | 1 | | - |
| American 98,226 185 9,911 472 1,127 1,793 2,845 3,674 24,430 27,200 22,627 11,361 2,411 101 1st child 37,714 182 7,917 457 1,039 1,538 2,253 2,630 12,480 9,059 5,539 2,131 390 16 2d child 31,603 2 1,670 14 86 218 501 851 8,129 9,894 7,907 3,390 587 24 3d child 6,832 19 - - 4 15 733 1,895 2,272 1,519 380 14 5th child 912 1 - - - 1 28 164 311 303 98 7 7th child 375 - - - - - 4 28 79 118 72 3 Not stated 410 1 46 1 1 11 16 17 107 109 82 53 12 <td>Not stated</td> <td>26</td> <td>-</td> <td>2</td> <td>-</td> <td>1</td> <td>-</td> <td>-</td> <td>1</td> <td>3</td> <td>1</td> <td>6</td> <td>1</td> <td>-</td> <td>1</td> <td>-</td> | Not stated | 26 | - | 2 | - | 1 | - | - | 1 | 3 | 1 | 6 | 1 | - | 1 | - |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | 98,226 | 185 | 9,911 | 472 | 1,127 | 1,793 | 2,845 | 3,674 | 24,430 | 27,200 | 22,627 | 11,361 | 2,411 | 101 | - |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1st child | 37.714 | 182 | 7.917 | 457 | 1,039 | 1,538 | 2.253 | 2.630 | 12.480 | 9.059 | 5.539 | 2.131 | 390 | 16 | - |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2d child | | | | | | | | | | | | | | | - |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | | | | | | | - |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | | | | | | | - |
| 6th child 912 - 1 - - - - 1 28 164 311 303 98 7 7th child 375 - - - - - 7 55 118 143 50 2 8th child and over 304 - - - - - 4 28 79 118 72 3 Not stated 410 1 46 1 1 11 16 17 107 109 82 53 12 - Other and unknown - - - - - 4 28 79 118 72 3 1st child 20,307 256 7,507 630 1,240 1,720 1,920 1,997 6,016 3,594 2,048 745 135 6 2d child 15,423 5 1,808 34 125 281 552 816 5,220 4,320 2,772 1,151 188 9 3d child 3,330 | | | | | - | - | - | - | | | | | | | | - |
| 7th child 375 $ -$ | | | | | - | - | - | _ | | | | | | | | _ |
| 8th child and over 304 $ -$ | | | | | - | - | | | | | | | | | | |
| Not stated 410 1 46 1 1 11 16 17 107 109 82 53 12 - Other and unknown Hispanic 49,849 265 9,821 672 1,387 2,068 2,615 3,079 14,526 12,317 8,363 3,762 764 31 1st child 20,307 256 7,507 630 1,240 1,720 1,920 1,997 6,016 3,594 2,048 745 135 6 2d child 15,423 5 1,808 34 125 281 552 816 5,220 4,320 2,722 1,151 188 9 3d child 3,330 - 44 - - 3 9 32 700 1,129 861 482 111 3 5th child 1,236 - 12 - - 1 11 158 365 416 223 62 - 6th child 501 - 1 - - 1 35 | | | | | | | - | - | - | | | | | | | - |
| Other and unknown Hispanic 49,849 265 9,821 672 1,387 2,068 2,615 3,079 14,526 12,317 8,363 3,762 764 31 1st child 20,307 256 7,507 630 1,240 1,720 1,920 1,997 6,016 3,594 2,048 745 135 6 2d child 15,423 5 1,808 34 125 281 552 816 5,220 4,320 2,772 1,151 188 9 3d child 8,270 349 1 5 37 106 200 2,271 2,577 1,967 920 177 9 4th child 3,330 44 - - 3 9 32 700 1,129 861 482 111 3 5th child 1,236 12 - - 1 11 158 365 416 223 62 - 6th child | | | | | | | | | | | | | | | | - |
| Hispanic 49,849 265 9,821 672 1,387 2,068 2,615 3,079 14,526 12,317 8,363 3,762 764 31 1st child 20,307 256 7,507 630 1,240 1,720 1,920 1,997 6,016 3,594 2,048 745 135 6 2d child 15,423 5 1,808 34 125 281 552 816 5,220 4,320 2,722 1,151 188 9 3d child 8,270 349 1 5 37 106 200 2,271 2,577 1,967 920 177 9 4th child 3,330 44 - - 3 9 32 700 1,129 861 482 111 3 5th child 1,236 12 - - 1 11 158 365 416 223 62 - 6th child 501 1 1 - - - 1 35 163 158 1 | | | | | | | | | | | | | | | | |
| 2d child 15,423 5 1,808 34 125 281 552 816 5,220 4,320 2,722 1,151 188 9 3d child 8,270 - 349 1 5 37 106 200 2,271 2,577 1,967 920 177 9 4th child 3,330 - 44 - - 3 9 32 700 1,129 861 482 111 3 5th child 1,236 - 12 - - 1 11 158 365 416 223 62 - 6th child 501 - 1 - - 1 135 163 158 111 31 2 7th child 202 - - - - 3 48 72 58 20 1 8th child and over 167 - - - - 4 27 57 48 30 1 | | 49,849 | 265 | 9,821 | 672 | 1,387 | 2,068 | 2,615 | 3,079 | 14,526 | 12,317 | 8,363 | 3,762 | 764 | 31 | - |
| 2d child 15,423 5 1,808 34 125 281 552 816 5,220 4,320 2,722 1,151 188 9 3d child 8,270 - 349 1 5 37 106 200 2,271 2,577 1,967 920 177 9 4th child 3,330 - 44 - - 3 9 32 700 1,129 861 482 111 3 5th child 1,236 - 12 - - 1 11 158 365 416 223 62 - 6th child 501 - 1 - - 1 153 158 111 31 2 7th child 202 - - - - 3 48 72 58 20 1 8th child and over 167 - - - - 3 48 72 58 30 1 | 1st child | 20,307 | 256 | 7,507 | 630 | 1,240 | 1,720 | 1,920 | 1,997 | 6,016 | 3,594 | 2,048 | 745 | 135 | 6 | - |
| 3d child 8,270 - 349 1 5 37 106 200 2,271 2,577 1,967 920 177 9 4th child 3,330 - 44 - - 3 9 32 700 1,129 861 482 111 3 5th child 1,236 - 12 - - - 1 111 158 365 416 223 62 - 6th child 501 - 1 - - 1 35 163 158 111 31 2 7th child 202 - - - - 3 48 72 58 20 1 8th child and over 167 - - - - 4 27 57 48 30 1 | | | | | | | | | | | | | | | | - |
| 4th child 3,330 - 44 - - 3 9 32 700 1,129 861 482 111 3 5th child 1,236 - 12 - - 1 11 158 365 416 223 62 - 6th child 501 - 1 - - 1 35 163 158 111 31 2 7th child 202 - - - - 3 48 72 58 20 1 8th child and over 167 - - - - 4 27 57 48 30 1 | | | | | | | | | | | | | | | | - |
| 5th child 1,236 - 12 - - 1 11 158 365 416 223 62 - 6th child 501 - 1 - - - 1 35 163 158 111 31 2 7th child 202 - - - - 3 48 72 58 20 1 8th child and over 167 - - - - 4 27 57 48 30 1 | | | - | | - | - | | | | | | | | | | - |
| 6th child 501 - 1 - - - 1 35 163 158 111 31 2 7th child 202 - - - - 3 48 72 58 20 1 8th child and over 167 - - - - 4 27 57 48 30 1 | 5th child | | - | | - | - | - | | | | | | | | | - |
| 7th child 202 - - - - - 3 48 72 58 20 1 8th child and over 167 - - - - - 4 27 57 48 30 1 | | | | | - | - | - | - | | | | | | | | - |
| 8th child and over 167 4 27 57 48 30 1 | | | | | - | | | _ | | | | | | | | _ |
| | | | | | | | | | | | | | | | | - |
| | | | | | | | | | | | | | | | | - |
| | NOT STATED | 413 | 4 | 100 | (| 17 | 27 | 27 | 22 | 119 | 94 | 62 | 24 | 10 | - | - |

See footnotes at end of table.

Table 7. Live births by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1998 -- Con.

[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only]

| | | | | | | | A | ge of moth | er | | | | | | |
|------------------------------------------|-----------|----------|---------|-------------|-------------|-------------|-------------|-------------|---------|---------|---------|---------|--------|-----------|-------|
| Live-birth order and origin of mother | All | Under | | | 15-19 | years | | | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 |
| | ages | 15 years | Total | 15 years | 16 years | 17 years | 18 years | 19 years | years | years | years | years | years | years | years |
| Non-Hispanic | | | | | | | | | | | | | | | |
| Total ¹ | 3,158,975 | 6,670 | 359,028 | 17,031 | 38,466 | 68,001 | 102,878 | 132,652 | 732,440 | 874,227 | 750,955 | 363,941 | 68,512 | 3,051 | 151 |
| 1st child | 1,286,516 | 6,484 | 280,707 | 16,239 | 35,076 | 58,064 | 79,757 | 91,571 | 339,030 | 338,523 | 221,791 | 83,977 | 15,214 | 745 | 45 |
| 2d child | 1.042.683 | 113 | 63,126 | 633 | 2,880 | 8,416 | 19.037 | 32,160 | 251,593 | 304,899 | 280.353 | 122,019 | 19.815 | 727 | 38 |
| 3d child | | 5 | 10,803 | 26 | 194 | 886 | 2,926 | 6,771 | 98,699 | 145,336 | 150,855 | 84,439 | 14,199 | 522 | 24 |
| 4th child | | - | 1.425 | | 7 | 53 | 315 | 1.049 | 28,821 | 52,381 | 56,573 | 38,589 | 8.003 | 318 | _ |
| 5th child | 66.596 | - | 178 | - | 3 | 5 | 40 | 130 | 7.565 | 18,038 | 20,473 | 15,926 | 4.221 | 185 | 10 |
| 6th child | 27,542 | | 33 | | 2 | 2 | 8 | 21 | 1.885 | 6.673 | 8.843 | 7.619 | 2,348 | 134 | |
| 7th child | 12,977 | | 2 | | - | 2 | 0 | 2 | 441 | 2,557 | 4,332 | 4.078 | 1.461 | 104 | 2 |
| 8th child and over | 14,084 | - | 6 | - | - | | 2 | 4 | 181 | 1,461 | 3,929 | 5,329 | 2,874 | 288 | 16 |
| | | - 68 | | 132 | 304 | 575 | 793 | | | | 3,929 | | 2,874 | 200 28 | 10 |
| Not stated | 17,576 | 60 | 2,748 | 132 | 304 | 5/5 | 793 | 944 | 4,225 | 4,359 | 3,806 | 1,965 | 377 | 28 | |
| White | 2,361,462 | 2,132 | 219,169 | 7,767 | 20,464 | 40,388 | 64,472 | 86,078 | 511,101 | 678,227 | 603,639 | 291,202 | 53,480 | 2,388 | 124 |
| 1st child | 972,642 | 2,092 | 178,863 | 7,532 | 19,245 | 36,047 | 52,766 | 63,273 | 252,410 | 275,688 | 181,840 | 68,682 | 12,413 | 615 | 39 |
| 2d child | 802,093 | 19 | 33,820 | 174 | 1,002 | 3,689 | 9,958 | 18,997 | 178,567 | 243,149 | 230,935 | 99,142 | 15,841 | 585 | 35 |
| 3d child | 374,714 | 1 | 4,313 | 5 | 51 | 278 | 1,134 | 2,845 | 60,270 | 108,103 | 122,106 | 68,513 | 10.975 | 411 | 22 |
| 4th child | 128,132 | | 400 | 1 | 1 | 11 | 83 | 304 | 13,678 | 34,394 | 42,975 | 30,394 | 6,030 | 254 | |
| 5th child | 40.854 | | 33 | | | 3 | 7 | 23 | 2,632 | 9,578 | 13,729 | 11.661 | 3.072 | 140 | Ś |
| 6th child | 15.531 | | 9 | | | 1 | 3 | 20 | 455 | 2.818 | 5.192 | 5.253 | 1.701 | 97 | è |
| 7th child | 6.936 | - | 9 | - | - | 1 | 5 | 5 | 400 | 2,010 | 2,244 | 2,643 | 1.030 | 71 | |
| 8th child and over | 7.829 | | 3 | - | - | - | - 1 | 2 | 53 | 396 | 1.678 | 3.373 | 2.129 | 193 | 4 |
| | 12,731 | 20 | 1,728 | - 55 | - 165 | 359 | 520 | 629 | 2,948 | 3,243 | 2,940 | 3,373 | 2,129 | 22 | 2 |
| Not stated | 12,731 | 20 | 1,720 | 55 | 100 | 228 | 520 | 029 | 2,940 | 3,243 | 2,940 | 1,541 | 209 | 22 | |
| Black | 593,127 | 4,204 | 124,076 | 8,420 | 16,021 | 24,542 | 34,089 | 41,004 | 184,263 | 135,158 | 90,827 | 45,096 | 9,172 | 323 | 8 |
| 1st child | 224,263 | 4,074 | 89,556 | 7,912 | 14,049 | 19,443 | 23,714 | 24,438 | 67,338 | 33,802 | 19,888 | 8,078 | 1,469 | 56 | 2 |
| 2d child | 174,821 | 86 | 26,614 | 424 | 1,727 | 4,330 | 8,252 | 11,881 | 62,010 | 43,299 | 28,017 | 12,609 | 2,127 | 57 | 2 |
| 3d child | | 4 | 5,964 | 18 | 121 | 553 | 1,650 | 3,622 | 34,057 | 29,634 | 20,194 | 10,316 | 1,999 | 59 | - |
| 4th child | 47.480 | | 942 | - | 4 | 36 | 215 | 687 | 13,679 | 14,959 | 10.458 | 6.061 | 1.346 | 35 | |
| 5th child | 21,337 | - | 127 | - | 3 | 2 | 29 | 93 | 4,475 | 7,151 | 5,366 | 3,333 | 851 | 34 | |
| 6th child | 9.773 | - | 21 | _ | 2 | 1 | 25 | 13 | 1,271 | 3,204 | 2,916 | 1,842 | 496 | 23 | |
| 7th child | 4,799 | _ | 2 | _ | - | - | 5 | 2 | 300 | 1,419 | 1,634 | 1,102 | 322 | 20 | |
| 8th child and over | 4,799 | - | 2 | - | - | - | - 1 | 2 | 107 | 889 | 1,750 | 1,468 | 499 | 34 | 3 |
| Not stated | 4,753 | 40 | 847 | - 66 | 115 | 177 | 223 | 266 | 1,026 | 801 | 604 | 287 | 499 | 5 | |
| พบเ รเลเยน | 3,073 | 40 | 047 | 00 | 115 | 177 | 223 | 200 | 1,026 | 001 | 604 | 201 | 03 | 5 | |

Quantity zero.
 Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 8. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1998

[Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

| Live-birth order and origin of mother | | Age of mother | | | | | | | | | | | |
|---------------------------------------|--------------------|----------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|--|--|
| | 15-44 | 10.11 | | 15-19 years | | 00.04 | 05.00 | 00.04 | 05.00 | 10.11 | 15 10 | | |
| | years ¹ | 10-14 years | Total | 15-17 years | 18-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years ² | | |
| Hispanic | | | | | | | | | | | | | |
| Total | 101.1 | 2.1 | 93.6 | 62.3 | 140.1 | 178.4 | 160.2 | 98.9 | 44.9 | 10.8 | 0.6 | | |
| 1st child | 37.7 | 2.1 | 71.1 | 54.2 | 96.2 | 76.2 | 41.9 | 18.6 | 6.6 | 1.4 | 0.1 | | |
| 2d child | 30.9 | 0.0 | 18.7 | 7.3 | 35.5 | 64.3 | 55.7 | 28.9 | 10.8 | 2.0 | 0.1 | | |
| 3d child | 18.6 | * | 3.4 | 0.7 | 7.4 | 27.3 | 38.3 | 26.6 | 11.3 | 2.3 | 0.1 | | |
| 4th child | 8.2 | * | 0.4 | 0.1 | 0.9 | 7.9 | 16.1 | 14.3 | 7.7 | 1.8 | 0.1 | | |
| 5th child | 3.2 | * | 0.0 | * | 0.1 | 1.9 | 5.4 | 6.2 | 4.2 | 1.3 | 0.1 | | |
| 6th and 7th child | 1.9 | * | * | * | * | 0.5 | 2.4 | 3.6 | 3.2 | 1.3 | 0.1 | | |
| 8th child and over | 0.5 | * | * | * | * | 0.0 | 0.3 | 0.8 | 1.1 | 0.7 | 0.1 | | |
| Mexican | 112.1 | 2.2 | 102.7 | 67.0 | 159.1 | 197.6 | 173.5 | 103.7 | 48.4 | 10.9 | 0.6 | | |
| 1st child | 40.7 | 2.2 | 77.5 | 58.1 | 108.0 | 82.4 | 41.3 | 16.1 | 5.8 | 1.1 | 0.1 | | |
| 2d child | 33.7 | 0.0 | 20.9 | 8.0 | 41.3 | 72.3 | 59.6 | 27.3 | 9.6 | 1.5 | 0.1 | | |
| 3d child | 21.2 | * | 3.8 | 0.7 | 8.5 | 31.1 | 43.9 | 29.8 | 12.0 | 2.2 | 0.1 | | |
| 4th child | 9.7 | * | 0.5 | 0.1 | 1.1 | 8.9 | 19.0 | 17.4 | 9.5 | 1.9 | 0.1 | | |
| 5th child | 3.9 | * | 0.0 | * | 0.1 | 2.2 | 6.5 | 7.8 | 5.5 | 1.6 | 0.1 | | |
| | | * | 0.0 | * | 0.1 | | | | | | | | |
| 6th and 7th child | 2.3 | | * | | * | 0.6 | 2.8 | 4.4 | 4.4 | 1.7 | 0.1 | | |
| 8th child and over | 0.6 | î | <u>^</u> | <u>^</u> | <u>^</u> | 0.1 | 0.4 | 0.9 | 1.5 | 0.9 | 0.1 | | |
| Puerto Rican | 75.5 | 1.9 | 81.2 | 55.1 | 120.7 | 164.2 | 104.4 | 67.6 | 26.7 | 7.2 | 0.4 | | |
| 1st child | 30.0 | 1.9 | 60.5 | 47.5 | 80.3 | 63.6 | 27.8 | 15.7 | 4.7 | 1.2 | * | | |
| 2d child | 23.2 | * | 16.6 | 6.8 | 31.5 | 58.5 | 35.4 | 21.8 | 7.9 | 1.7 | * | | |
| 3d child | 12.9 | * | 3.5 | 0.8 | 7.7 | 28.6 | 23.4 | 15.6 | 6.5 | 1.8 | * | | |
| 4th child | 5.5 | * | 0.5 | * | 1.1 | 9.7 | 11.0 | 7.8 | 3.7 | 0.9 | * | | |
| 5th child | 2.2 | * | * | * | * | 2.8 | 4.2 | 3.5 | 1.8 | 0.7 | * | | |
| 6th and 7th child | 1.3 | * | * | * | * | 0.9 | 2.2 | 2.4 | 1.5 | 0.5 | * | | |
| 8th child and over | 0.4 | * | * | * | * | * | 0.4 | 0.8 | 0.5 | 0.4 | * | | |
| Cuban | 50.1 | 0.8 | 24.2 | 15.6 | 38.8 | 85.6 | 95.2 | 64.5 | 34.2 | 7.1 | * | | |
| 1st child | 21.8 | 0.8 | 19.9 | 13.8 | 30.3 | 50.6 | 45.4 | 20.8 | 7.5 | 1.5 | * | | |
| 2d child | 18.2 | * | 3.9 | 1.7 | 7.6 | 26.3 | 35.6 | 27.6 | 13.5 | 2.2 | * | | |
| 3d child | 7.3 | * | * | * | * | 6.7 | 11.3 | 11.7 | 8.8 | 1.8 | * | | |
| 4th child | 2.0 | * | * | * | * | 1.5 | 2.0 | 3.1 | 3.0 | 1.0 | * | | |
| | 0.5 | * | * | * | * | 1.5 | 2.0 | 0.8 | 0.7 | 1.1 | * | | |
| 5th child | | | * | * | | * | | | | * | | | |
| 6th and 7th child | 0.3 | | | | | * | | 0.4 | 0.5 | | <u>.</u> | | |
| 8th child and over | 0.1 | î | â | â | Ŷ | ^ | â | ^ | ^ | • | * | | |
| Other Hispanic ³ | 90.2 | 1.9 | 80.0 | 56.7 | 106.9 | 137.4 | 157.2 | 106.9 | 46.9 | 12.9 | 0.6 | | |
| 1st child | 35.6 | 1.9 | 63.0 | 50.4 | 77.5 | 65.6 | 50.6 | 26.3 | 9.0 | 2.1 | 0.1 | | |
| 2d child | 28.8 | * | 14.2 | 5.8 | 24.0 | 47.3 | 56.8 | 36.8 | 14.2 | 3.2 | 0.2 | | |
| 3d child | 15.9 | * | 2.5 | 0.5 | 4.7 | 18.0 | 32.1 | 25.8 | 12.2 | 3.2 | 0.2 | | |
| 4th child | 6.2 | * | 0.3 | * | 0.5 | 5.1 | 12.1 | 10.9 | 6.2 | 2.0 | * | | |
| 5th child | 2.3 | * | * | * | * | 1.0 | 3.6 | 4.4 | 2.9 | 1.2 | * | | |
| | 1.2 | * | * | * | * | 0.3 | 1.7 | 2.3 | 1.9 | 0.8 | * | | |
| 6th and 7th child | | | | | | | | | | | | | |

See footnotes at end of table.

Table 8. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1998 -- Con.

[Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

| Live-birth order and origin of mother | | Age of mother | | | | | | | | | | | |
|------------------------------------------|--------------------|----------------|-------------|----------------|----------------|-------|----------------|----------------|----------------|----------------|-----------------------------|--|--|
| | 15-44 | 10-14 years | 15-19 years | | | 20-24 | 05.00 | | | | | | |
| | years ¹ | | Total | 15-17 years | 18-19 years | years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years ² | | |
| Non-Hispanic ⁴ | | | | | | | | | | | | | |
| Total ⁵ | 60.7 | 0.8 | 44.3 | 25.4 | 72.8 | 99.9 | 109.3 | 85.7 | 36.5 | 7.0 | 0.4 | | |
| 1st child | 24.8 | 0.8 | 34.9 | 22.7 | 53.3 | 46.5 | 42.5 | 25.5 | 8.5 | 1.6 | 0.1 | | |
| 2d child | 20.1 | 0.0 | 7.9 | 2.5 | 15.9 | 34.5 | 38.3 | 32.2 | 12.3 | 2.0 | 0.1 | | |
| 3d child | 9.8 | * | 1.3 | 0.2 | 3.0 | 13.5 | 18.2 | 17.3 | 8.5 | 1.5 | 0.1 | | |
| 4th child | 3.6 | * | 0.2 | 0.0 | 0.4 | 4.0 | 6.6 | 6.5 | 3.9 | 0.8 | 0.0 | | |
| 5th child | 1.3 | * | 0.0 | * | 0.1 | 1.0 | 2.3 | 2.3 | 1.6 | 0.4 | 0.0 | | |
| 6th and 7th child | 0.8 | * | 0.0 | * | 0.0 | 0.3 | 1.2 | 1.5 | 1.2 | 0.4 | 0.0 | | |
| 8th child and over | 0.3 | * | * | * | * | 0.0 | 0.2 | 0.5 | 0.5 | 0.3 | 0.0 | | |
| White | 57.7 | 0.3 | 35.2 | 18.4 | 60.6 | 90.7 | 109.7 | 88.0 | 36.4 | 6.7 | 0.4 | | |
| 1st child | 23.9 | 0.3 | 29.0 | 17.0 | 47.0 | 45.0 | 44.8 | 26.6 | 8.6 | 1.6 | 0.1 | | |
| 2d child | 19.7 | 0.0 | 5.5 | 1.3 | 11.7 | 31.9 | 39.5 | 33.8 | 12.5 | 2.0 | 0.1 | | |
| 3d child | 9.2 | * | 0.7 | 0.1 | 1.6 | 10.8 | 17.6 | 17.9 | 8.6 | 1.4 | 0.1 | | |
| 4th child | 3.2 | * | 0.1 | * | 0.2 | 2.5 | 5.6 | 6.3 | 3.8 | 0.8 | 0.0 | | |
| 5th child | 1.0 | * | 0.0 | * | 0.0 | 0.5 | 1.6 | 2.0 | 1.5 | 0.4 | 0.0 | | |
| 6th and 7th child | 0.6 | * | * | * | * | 0.1 | 0.6 | 1.1 | 1.0 | 0.3 | 0.0 | | |
| 8th child and over | 0.2 | * | * | * | * | 0.0 | 0.1 | 0.3 | 0.4 | 0.3 | 0.0 | | |
| Black | 73.0 | 3.0 | 88.2 | 58.8 | 130.9 | 146.4 | 104.6 | 66.6 | 31.2 | 6.8 | 0.3 | | |
| 1st child | 27.8 | 3.0 | 64.1 | 50.0 | 84.5 | 53.8 | 26.4 | 14.7 | 5.7 | 1.1 | 0.1 | | |
| 2d child | 21.7 | 0.1 | 19.0 | 7.8 | 35.3 | 49.5 | 33.7 | 20.7 | 8.8 | 1.6 | 0.1 | | |
| 3d child | 12.7 | * | 4.3 | 0.8 | 9.3 | 27.2 | 23.0 | 14.9 | 7.2 | 1.5 | 0.1 | | |
| 4th child | 5.9 | * | 0.7 | 0.0 | 1.6 | 10.9 | 11.6 | 7.7 | 4.2 | 1.0 | 0.0 | | |
| 5th child | 2.6 | * | 0.1 | * | 0.2 | 3.6 | 5.6 | 4.0 | 2.3 | 0.6 | 0.0 | | |
| 6th and 7th child | 1.8 | * | 0.0 | * | 0.0 | 1.3 | 3.6 | 3.4 | 2.0 | 0.6 | 0.0 | | |
| 8th child and over | 0.6 | * | * | * | * | 0.1 | 0.7 | 1.3 | 1.0 | 0.4 | 0.0 | | |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
0.0 Quantity more than zero but less than 0.05.
1 Rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.
2 Rates computed by relating births to women aged 45-54 years to women aged 45-49 years.
3 Includes Central and South American and other and unknown Hispanic.
4 Includes origin not stated.
5 Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 9. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-98

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group, enumerated as of April 1 for 1990, and estimated as of July 1 for all other years]

| | | | Age of mother | | | | | | | | | | | |
|----------------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|--|--|
| Year and origin/race | Total fertility | Fertility | | | 15-19 years | | | | | | | | | |
| of mother | rate | rate 1 | 10-14 years | Total | 15-17 years | 18-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years ² | | |
| All origins | | | | | | | | | | | | | | |
| 1998 | 2,058.5 | 65.6 | 1.0 | 51.1 | 30.4 | 82.0 | 111.2 | 115.9 | 87.4 | 37.4 | 7.3 | 0.4 | | |
| 1997 | | 65.0 | 1.1 | 52.3 | 32.1 | 83.6 | 110.4 | 113.8 | 85.3 | 36.1 | 7.1 | 0.4 | | |
| 1996 | 2,027.0 | 65.3 | 1.2 | 54.4 | 33.8 | 86.0 | 110.4 | 113.1 | 83.9 | 35.3 | 6.8 | 0.3 | | |
| 1995 | | 65.6 | 1.3 | 56.8 | 36.0 | 89.1 | 109.8 | 112.2 | 82.5 | 34.3 | 6.6 | 0.3 | | |
| 1994 | | 66.7 | 1.4 | 58.9 | 37.6 | 91.5 | 111.1 | 113.9 | 81.5 | 33.7 | 6.4 | 0.3 | | |
| 1993 | | 67.6 | 1.4 | 59.6 | 37.8 | 92.1 | 112.6 | 115.5 | 80.8 | 32.9 | 6.1 | 0.3 | | |
| 1992 | | 68.9 | 1.4 | 60.7 | 37.8 | 94.5 | 114.6 | 117.4 | 80.2 | 32.5 | 5.9 | 0.3 | | |
| 1991 | | 69.6 | 1.4 | 62.1 | 38.7 | 94.4 | 115.7 | 118.2 | 79.5 | 32.0 | 5.5 | 0.2 | | |
| 1990 1989 | | 70.9 69.2 | 1.4 1.4 | 59.9 57.3 | 37.5 36.4 | 88.6 84.2 | 116.5 113.8 | 120.2 117.6 | 80.8 77.4 | 31.7 29.9 | 5.5 5.2 | 0.2 0.2 | | |
| Hispanic | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | |
| 1998 | 2,947.5 | 101.1 | 2.1 | 93.6 | 62.3 | 140.1 | 178.4 | 160.2 | 98.9 | 44.9 | 10.8 | 0.6 | | |
| 1997 | | 102.8 | 2.3 | 97.4 | 66.3 | 144.3 | 184.2 | 161.7 | 97.9 | 45.0 | 10.8 | 0.6 | | |
| 1996 1995 | | 104.9 | 2.6 2.7 | 101.8 | 69.0 | 151.1 | 189.5 | 161.0 | 98.1 | 45.1 | 10.8 | 0.6 | | |
| 1995 | | 105.0 105.6 | 2.7 | 106.7 107.7 | 72.9 74.0 | 157.9 158.0 | 188.5 188.2 | 153.8 153.2 | 95.9 95.4 | 44.9 44.3 | 10.8 10.7 | 0.6 0.6 | | |
| 1993 | | 106.9 | 2.7 | 106.8 | 71.7 | 159.1 | 188.3 | 154.0 | 96.4 | 44.7 | 10.7 | 0.6 | | |
| 1992 ³ | 3,043.0 | 108.6 | 2.6 | 100.0 | 71.4 | 159.7 | 190.6 | 154.4 | 96.8 | 45.6 | 10.0 | 0.6 | | |
| 1991 ³ | 3,002.5 | 108.1 | 2.0 | 107.1 | 70.6 | 158.5 | 186.3 | 152.8 | 96.1 | 44.9 | 10.3 | 0.6 | | |
| 1990 4 | 2.959.5 | 107.7 | 2.4 | 100.3 | 65.9 | 147.7 | 181.0 | 153.0 | 98.3 | 45.3 | 10.9 | 0.7 | | |
| 1989 ⁵ | 2,903.5 | 104.9 | 2.3 | 100.8 | | | 184.4 | 146.6 | 92.1 | 43.5 | 10.4 | 0.6 | | |
| Mexican | | | | | | | | | | | | | | |
| 1998 | 3,198.0 | 112.1 | 2.2 | 102.7 | 67.0 | 159.1 | 197.6 | 173.5 | 103.7 | 48.4 | 10.9 | 0.6 | | |
| 1997 | | 116.6 | 2.5 | 112.4 | 77.3 | 165.1 | 204.9 | 176.3 | 104.2 | 49.0 | 11.6 | 0.6 | | |
| 1996 | | 119.3 | 2.8 | 120.7 | 83.4 | 174.3 | 206.3 | 176.9 | 103.7 | 47.6 | 12.0 | 0.7 | | |
| 1995 | | 117.0 | 2.8 | 124.6 | 84.4 | 185.3 | 208.9 | 160.5 | 98.5 | 46.8 | 11.9 | 0.7 | | |
| 1994 | | 115.4 | 2.8 | 116.2 | 78.0 | 175.0 | 202.6 | 165.2 | 96.9 | 46.2 | 11.7 | 0.7 | | |
| 1993 | 3,174.0 | 114.8 | 2.6 | 108.7 | 71.6 | 164.9 | 196.6 | 168.2 | 100.5 | 46.1 | 11.3 | 0.8 | | |
| 1992 ³ | 3,196.5 | 116.0 | 2.5 | 108.8 | | | 202.3 | 166.3 | 99.1 | 47.7 | 11.8 | 0.8 | | |
| 1991 ³ | 3,317.5 | 121.6 | 2.6 | 117.3 | 75.9 | 178.4 | 209.9 | 168.2 | 103.3 | 49.1 | 12.3 | 0.8 | | |
| 1990 ⁴ 1989 ⁵ | 3,214.0 2,916.5 | 118.9 106.6 | 2.5 2.0 | 108.0 94.5 | 69.7 | 162.2 | 200.3 184.3 | 165.3 153.7 | 104.4 96.1 | 49.1 41.0 | 12.4 11.1 | 0.8 0.6 | | |
| Puerto Rican | | | | | | | | | | | | | | |
| 1998 | 2,268.0 | 75.5 | 1.9 | 81.2 | 55.1 | 120.7 | 164.2 | 104.4 | 67.6 | 26.7 | 7.2 | 0.4 | | |
| 1997 | | 71.7 | 1.8 | 74.9 | 48.9 | 120.0 | 154.0 | 109.3 | 59.1 | 27.0 | 6.2 | 0.5 | | |
| 1996 | 2,163.0 | 71.3 | 2.1 | 82.3 | 52.2 | 143.2 | 148.8 | 109.4 | 58.3 | 25.9 | 5.6 | * | | |
| 1995 | | 75.7 | 3.0 | 89.0 | 61.2 | 139.2 | 151.5 | 107.2 | 64.8 | 27.7 | 5.6 | 0.3 | | |
| 1994 | | 81.9 | 3.2 | 106.0 | 72.8 | 168.4 | 181.0 | 111.7 | 62.3 | 28.0 | 5.6 | 0.2 | | |
| 1993 | 2,523.5 | 82.5 | 3.1 | 110.0 | 73.4 | 181.0 | 193.1 | 108.4 | 56.3 | 27.1 | 6.2 | 0.5 | | |
| 1992 ³ | 2,644.5 | 89.9 | 3.5 | 110.4 | | | 204.9 | 106.6 | 66.7 | 30.0 | 6.5 | 0.3 | | |
| 1991 ³ | 2,276.0 | 80.9 | 2.5 | 102.7 | 75.2 | 143.0 | 149.4 | 107.5 | 61.4 | 25.7 | 5.7 | 0.3 | | |
| 1990 ⁴ 1989 ⁵ | 23010 | 82.9 86.6 | 2.9 3.8 | 101.6 112.7 | 71.6 | 141.6 | 150.1 171.0 | 109.9 98.0 | 62.8 65.2 | 26.2 26.9 | 6.2 6.3 | 0.5 0.3 | | |
| | , - | | | | | | - | | | | | | | |
| Cuban | 4 500 0 | 50.4 | 0.0 | 04.0 | 45.0 | 00.0 | 05.0 | 05.0 | 04.5 | 04.0 | 7.4 | | | |
| 1998 | 1,560.0 | 50.1 | 0.8 | 24.2 | 15.6 | 38.8 | 85.6 | 95.2 | 64.5 75.7 | 34.2 | 7.1 6.2 | 0.0 | | |
| 1997 1996 | 1,814.5 1,774.5 | 57.4 58.9 | 1.0 0.9 | 38.3 34.0 | 25.3 19.8 | 53.4 54.5 | 82.7 82.5 | 123.5 110.7 | 75.7 85.9 | 35.1 34.3 | 6.3 6.4 | 0.3 | | |
| 1995 | | 58.9 55.1 | 0.9 | 34.0 29.2 | 19.8 | 54.5 51.2 | 82.5 77.0 | 110.7 | 85.9 88.0 | 34.3 29.8 | 6.4 6.0 | * | | |
| 1995 | 1,680.5 | 55.9 | 0.6 | 40.2 | 23.1 | 77.4 | 72.5 | 98.4 | 87.6 | 29.0 31.3 | 5.5 | * | | |
| 1993 | | 55.5 | * | 33.0 | 20.4 | 49.7 | 68.9 | 102.0 | 86.9 | 31.0 | 4.7 | * | | |
| 1993 | | 50.3 | 1.0 | 26.3 | 20.4 | 49.7 | 51.6 | 98.4 | 86.2 | 28.9 | 4.7 | 0.0 | | |
| 1991 ³ | 1,385.5 | 49.1 | * | 27.7 | 17.5 | 41.3 | 61.2 | 88.8 | 68.2 | 26.7 | 4.0 | * | | |
| 1990 4 | | 52.6 | * | 30.3 | 18.2 | 46.1 | 64.6 | 95.4 | 67.6 | 28.2 | 4.9 | * | | |
| | 1,479.0 | | 0.5 | | | | | | 73.7 | 27.2 | | | | |

See footnotes at end of table.

Table 9. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1989-98 -- Con.

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group, enumerated as of April 1 for 1990, and estimated as of July 1 for all other years]

| | | | Age of mother | | | | | | | | | | | |
|-------------------------------------------------|--------------------|--------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|--|--|
| Year and origin/race | Total fertilty | Fertility | | 15-19 years | | | | | | | | | | |
| of mother | rate | rate 1 | 10-14 years | Total | 15-17 years | 18-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years ² | | |
| Other Hispanic ⁶ | | | | | | | | | | | | | | |
| 1998 | 2.719.0 | 90.2 | 1.9 | 80.0 | 56.7 | 106.9 | 137.4 | 157.2 | 106.9 | 46.9 | 12.9 | 0.6 | | |
| 1997 | 2.653.5 | 87.6 | 2.0 | 72.1 | 48.3 | 106.8 | 146.4 | 147.9 | 104.4 | 45.4 | 11.8 | 0.7 | | |
| 1996 | | 90.2 | 2.4 | 69.8 | 46.6 | 103.1 | 166.5 | 146.3 | 105.3 | 50.4 | 11.0 | 0.7 | | |
| 1995 | | 94.5 | 2.4 | 77.5 | 54.8 | 107.8 | 158.3 | 161.8 | 103.7 | 50.9 | 11.6 | 0.6 | | |
| 1994 | | 97.7 | 2.6 | 87.9 | 66.4 | 112.4 | 162.0 | 147.4 | 109.3 | 49.4 | 11.9 | 0.6 | | |
| 1993 | 3.038.5 | 105.0 | 2.7 | 106.9 | 78.2 | 141.7 | 175.2 | 147.1 | 110.4 | 52.4 | 12.5 | 0.5 | | |
| 1992 ³ | 3.076.0 | 107.0 | 2.5 | 112.1 | | | 172.9 | 157.8 | 106.6 | 50.3 | 12.5 | 0.5 | | |
| 1991 ³ | 2,817.0 | 99.3 | 2.1 | 88.1 | 58.9 | 128.8 | 161.1 | 150.6 | 101.5 | 48.2 | 11.2 | 0.6 | | |
| 1990 ⁴ | | 102.7 | 2.1 | 86.0 | 57.2 | 123.8 | 162.9 | 155.8 | 106.9 | 49.4 | 11.6 | 0.7 | | |
| 1989 ⁵ | 2,683.0 | 95.8 | 1.7 | 66.4 | | | 159.2 | 150.4 | 85.1 | 60.3 | 12.7 | 0.8 | | |
| Non-Hispanic ⁷ Total ⁸ | | | | | | | | | | | | | | |
| 1998 | 1,919.5 | 60.7 | 0.8 | 44.3 | 25.4 | 72.8 | 99.9 | 109.3 | 85.7 | 36.5 | 7.0 | 0.4 | | |
| 1997 | 1,888.5 | 60.1 | 0.9 | 45.5 | 27.0 | 74.3 | 98.6 | 107.0 | 83.5 | 35.1 | 6.7 | 0.4 | | |
| 1996 | 1,881.0 | 60.3 | 1.0 | 47.3 | 28.7 | 76.2 | 98.4 | 106.5 | 82.0 | 34.2 | 6.5 | 0.3 | | |
| 1995 | | 60.8 | 1.1 | 49.6 | 30.7 | 79.0 | 98.5 | 106.4 | 80.9 | 33.2 | 6.2 | 0.3 | | |
| 1994 | | 62.0 | 1.2 | 52.0 | 32.5 | 81.8 | 100.4 | 108.6 | 79.9 | 32.6 | 6.0 | 0.3 | | |
| 1993 | 1,918.5 | 63.1 | 1.2 | 52.9 | 33.1 | 82.6 | 102.5 | 110.4 | 79.0 | 31.7 | 5.7 | 0.3 | | |
| 1992 ³ | 1,941.0 | 64.4 | 1.2 | 54.4 | 33.2 | 85.5 | 104.7 | 112.7 | 78.4 | 31.2 | 5.4 | 0.2 | | |
| 1991 ³ | 1,959.5 | 65.4 | 1.3 | 56.1 | 34.4 | 86.1 | 106.6 | 114.0 | 77.8 | 30.8 | 5.1 | 0.2 | | |
| 1990 ⁴ | 1,979.5 | 67.1 | 1.3 | 54.8 | 33.8 | 81.4 | 108.1 | 116.5 | 79.2 | 30.7 | 5.1 | 0.2 | | |
| 1989 ⁵ | 1,921.0 | 65.7 | 1.3 | 53.4 | | | 107.8 | 113.4 | 74.7 | 28.6 | 4.8 | 0.2 | | |
| White | | | | | | | | | | | | | | |
| 1998 | 1,837.0 | 57.7 | 0.3 | 35.2 | 18.4 | 60.6 | 90.7 | 109.7 | 88.0 | 36.4 | 6.7 | 0.4 | | |
| 1997 | 1,801.0 | 57.0 | 0.4 | 36.0 | 19.4 | 61.9 | 89.8 | 107.2 | 85.2 | 34.9 | 6.4 | 0.3 | | |
| 1996 | 1,795.5 | 57.3 | 0.4 | 37.6 | 20.6 | 63.7 | 90.1 | 107.0 | 83.5 | 34.0 | 6.2 | 0.3 | | |
| 1995 | | 57.6 | 0.4 | 39.3 | 22.0 | 66.1 | 90.0 | 106.5 | 82.0 | 32.9 | 5.9 | 0.3 | | |
| 1994 | | 58.3 | 0.5 | 40.4 | 22.8 | 67.4 | 90.9 | 107.9 | 80.7 | 32.1 | 5.7 | 0.2 | | |
| 1993 | | 59.0 | 0.5 | 40.7 | 22.7 | 67.7 | 92.1 | 109.2 | 79.4 | 31.1 | 5.3 | 0.2 | | |
| 1992 ³ | 1,810.5 | 60.2 | 0.5 | 41.7 | 22.7 | 69.8 | 93.9 | 111.5 | 78.7 | 30.5 | 5.1 | 0.2 | | |
| 1991 ³ | 1,826.5 | 61.0 | 0.5 | 43.4 | 23.6 | 70.5 | 95.7 | 112.7 | 77.9 | 30.2 | 4.7 | 0.2 | | |
| 1990 ⁴ 1989 ⁵ | 1,850.5 1.770.0 | 62.8 60.5 | 0.5 0.4 | 42.5 39.9 | 23.2 | 66.6 | 97.5 94.7 | 115.3 111.7 | 79.4 75.0 | 30.0 27.8 | 4.7 4.3 | 0.2 0.2 | | |
| | 1,770.0 | 00.0 | 0.4 | 00.0 | | | 54.7 | 111.7 | 70.0 | 27.0 | 4.0 | 0.2 | | |
| Black | 2 225 5 | 70.0 | 2.0 | 00.0 | 50.0 | 120.0 | 140.4 | 101 0 | <u> </u> | 24.0 | 6.6 | 0.0 | | |
| 1998 | 2,235.5 | 73.0 | 3.0 | 88.2 | 58.8 | 130.9 | 146.4 | 104.6 | 66.6 | 31.2 | 6.8 | 0.3 | | |
| 1997 1996 | 2,210.5 2.204.0 | 72.4 72.5 | 3.4 3.8 | 90.8 94.2 | 62.6 66.6 | 134.0 136.6 | 143.0 140.9 | 101.9 100.8 | 65.8 64.9 | 30.3 29.7 | 6.6 6.2 | 0.3 0.3 | | |
| | | | | 94.2 99.3 | 66.6 72.1 | 136.6 | 140.9 | 100.8 | 64.9 65.9 | 29.7 29.4 | 6.2 6.1 | 0.3 | | |
| 1995 1994 | | 74.5 79.0 | 4.3 4.7 | 99.3 107.7 | 72.1 78.6 | 141.9 | 141.7 | 102.0 | 65.9 67.5 | 29.4 29.5 | 6.1 6.0 | 0.3 | | |
| 1994 | | 79.0 82.7 | 4.7 4.7 | 107.7 | 78.6 82.5 | 152.9 | 150.3 | 107.0 | 67.5 69.0 | 29.5 29.8 | 6.0 6.0 | 0.3 | | |
| | | | 4.7 4.8 | 112.2 | 82.5 83.9 | 162.9 | 157.4 | | 69.0 69.1 | 29.8 29.4 | 6.0 5.7 | 0.3 | | |
| 1992 ³ 1991 ³ | 2,514.0 2.551.0 | 85.5 87.6 | 4.8 4.9 | 116.0 | 83.9 86.7 | | 163.0 | 114.6 116.3 | 69.1 69.3 | 29.4 28.9 | 5.7 5.6 | 0.2 | | |
| 1991 ^o | 2,551.0 | 87.6 89.0 | 4.9 5.0 | 116.9 | 86.7 84.9 | 163.1 157.5 | 165.1 | 118.4 | 69.3 70.2 | 28.9 28.7 | 5.6 | 0.2 | | |
| 1989 ⁵ | | 89.0 84.8 | 5.0 | 111.9 | 04.9 | | 156.3 | 113.8 | 65.7 | 26.7 | 5.8 | 0.3 | | |
| 1000 | 2,724.0 | 04.0 | 0.2 | 111.3 | | | 130.3 | 113.0 | 00.7 | 20.0 | 0.0 | 0.5 | | |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator. Data not available.

Data not available.
 Quantity more than zero but less that 0.05.
 Rates computed by relating total births, regardless of age of mother, to women 15-44 years.
 Beginning 1997, rates computed by relating births to women aged 45-54 years to women aged 45-49 years.
 Excludes data for New Hampshire, which did not report Hispanic origin.
 Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.
 Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.
 Includes Central and South American and other and unknown Hispanic.

⁷ Includes origin not stated.
 ⁸ Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 10. Number of births, birth rates, fertility rates, total fertility rates, and birth rates for teenagers 15-19 years by age of mother: United States, each State and territory, 1998

[By place of residence. Birth rates per 1,000 estimated population in each area; fertility rates per 1,000 women aged 15-44 years estimated in each area; total fertility rates are sums of birth rates for 5-year age groups multiplied by 5: birth rates by age are live births per 1,000 women in specified age group estimated in each area]

| | | | | | Teenage birth rate | | | |
|------------------------------------------|---------------------|---------------|-------------------|----------------------------|--------------------|--------------|---------------|--|
| | | | | | | 15-19 years | | |
| State | Number of births | Birth rate | Fertility rate | Total fertility rate | Total | 15-17 years | 18-19 years | |
| Jnited States ¹ | 3,941,553 | 14.6 | 65.6 | 2,058.5 | 51.1 | 30.4 | 82.0 | |
| Alabama | 62,074 | 14.3 | 63.2 | 1,958.0 | 65.5 | 40.7 | 100.4 | |
| Alaska | 9,926 | 16.2 | 73.1 | 2,413.0 | 42.4 | 24.8 | 68.6 | |
| Arizona | 78,243 | 16.8 | 78.2 | 2,442.5 | 70.5 | 45.2 | 108.2 | |
| Arkansas | 36,865 | 14.5 | 67.5 | 2,086.5 | 70.8 | 41.4 | 114.0 | |
| California | 521,661 | 16.0 | 70.7 | 2,080.5 | 53.5 | 33.4 | 83.4 | |
| | | | | | | | | |
| Colorado | 59,577 | 15.0 | 67.2 | 2,166.5 | 48.7 | 29.0 | 79.0 | |
| Connecticut | 43,820 | 13.4 | 61.3 | 1,902.0 | 35.8 | 21.4 | 58.6 | |
| Delaware | 10,578 | 14.2 | 61.2 | 1,913.0 | 53.9 | 33.9 | 81.7 | |
| District of Columbia | 7,686 | 14.7 | 60.8 | 1,936.5 | 86.7 | 65.5 | 110.8 | |
| Iorida | 195,637 | 13.1 | 65.1 | 2,080.0 | 55.5 | 33.3 | 90.8 | |
| Georgia | 122,368 | 16.0 | 67.2 | 2,102.0 | 65.4 | 40.3 | 102.5 | |
| ławaii | 17,583 | 14.7 | 69.6 | 2,238.0 | 45.7 | 29.5 | 67.3 | |
| daho | 19,391 | 15.8 | 72.3 | 2,276.0 | 44.8 | 24.5 | 73.1 | |
| llinois | 182,588 | 15.2 | 68.3 | 2,137.5 | 53.2 | 32.7 | 85.0 | |
| ndiana | 85,122 | 14.4 | 64.3 | 2,020.0 | 53.3 | 28.9 | 89.5 | |
| owa | 37,282 | 13.0 | 61.4 | 1,957.5 | 35.2 | 18.6 | 60.3 | |
| Kansas | 38,422 | 14.6 | 67.1 | 2.134.0 | 47.0 | 24.8 | 81.1 | |
| | 54,329 | 13.8 | 61.6 | 1,924.0 | 57.0 | 31.5 | 94.2 | |
| Centucky | 66,888 | | | | | | | |
| ouisiana | 13,733 | 15.3 | 66.7 49.7 | 2,055.5 | 65.4 | 40.4 14.9 | 100.6 | |
| Naine | 13,733 | 11.0 | 49.7 | 1,613.5 | 30.4 | 14.9 | 54.5 | |
| /laryland | 71,972 | 14.0 | 60.1 | 1,891.0 | 43.1 | 26.4 | 69.2 | |
| Aassachusetts | 81,411 | 13.2 | 58.5 | 1,743.0 | 30.8 | 18.2 | 49.5 | |
| lichigan | 133,666 | 13.6 | 60.4 | 1,906.0 | 42.6 | 23.9 | 70.9 | |
| linnesota | 65,202 | 13.8 | 61.8 | 1,976.0 | 30.6 | 16.5 | 52.7 | |
| Aississippi | 42,939 | 15.6 | 68.3 | 2,056.0 | 73.0 | 47.2 | 110.3 | |
| Aissouri | 75,358 | 13.9 | 62.9 | 2,003.5 | 51.2 | 28.6 | 85.7 | |
| Montana | 10,795 | 12.3 | 59.0 | 1,948.5 | 37.1 | 19.8 | 63.3 | |
| Vebraska | 23,534 | 14.2 | 65.2 | 2,081.0 | 37.0 | 20.5 | 61.6 | |
| Vevada | 28,699 | 16.4 | 77.9 | 2,510.0 | 65.7 | 38.2 | 109.5 | |
| New Hampshire | 14,429 | 12.2 | 52.3 | 1,650.0 | 27.1 | 13.1 | 50.0 | |
| | , | | | , | | | | |
| New Jersey | 114,550 | 14.1 | 64.3 | 2,006.0 | 34.6 | 20.2 | 56.9 | |
| New Mexico | 27,318 | 15.7 | 72.2 | 2,302.0 | 69.0 | 44.2 | 107.5 | |
| New York | 258,207 | 14.2 | 63.9 | 1,963.5 | 38.5 | 22.4 | 62.4 | |
| North Carolina | 111,688 | 14.8 | 66.6 | 2,090.5 | 61.0 | 36.2 | 98.5 | |
| Jorth Dakota | 7,932 | 12.4 | 58.3 | 1,846.0 | 30.4 | 16.1 | 52.5 | |
| Dhio | 152,794 | 13.6 | 61.2 | 1,932.0 | 48.1 | 26.7 | 80.3 | |
| Oklahoma | 49,461 | 14.8 | 69.0 | 2,160.5 | 61.6 | 35.0 | 102.6 | |
| Dregon | 45,273 | 13.8 | 64.7 | 2,081.0 | 47.4 | 26.3 | 80.0 | |
| Pennsylvania | 145,899 | 12.2 | 56.9 | 1,804.0 | 36.9 | 21.8 | 60.2 | |
| Rhode Island | 12,599 | 12.7 | 57.5 | 1,773.0 | 41.0 | 24.4 | 65.8 | |
| South Carolina | 53,877 | 14.0 | 61.3 | 1,897.5 | 60.4 | 39.6 | 89.8 | |
| South Dakota | 10,288 | 13.9 | 65.1 | 2,091.0 | 38.5 | 19.6 | 66.0 | |
| ennessee | 77,396 | 14.3 | 63.1 | 1,991.5 | 64.3 | 37.7 | 103.4 | |
| | 342,283 | 17.3 | 76.2 | 2,377.5 | 70.9 | 45.2 | 103.4 | |
| exas | | | | , | | | | |
| Itah | 45,165 | 21.5 | 91.4 | 2,712.0 | 40.9 | 22.2 | 65.6 | |
| /ermont | 6,582 | 11.1 | 49.1 | 1,569.5 | 24.4 | 11.4 | 44.6 | |
| (irginia | 94,351 | 13.9 | 59.1 | 1,825.5 | 43.5 | 24.3 | 70.7 | |
| Vashington | 79,663 | 14.0 | 62.3 | 1,993.5 | 41.7 | 23.2 | 69.6 | |
| Vest Virginia | 20,747 | 11.5 | 53.7 | 1,660.5 | 49.2 | 26.2 | 81.5 | |
| Visconsin | 67,450 | 12.9 | 58.5 | 1,862.5 | 34.8 | 19.6 | 58.1 | |
| Vyoming | 6,252 | 13.0 | 60.9 | 1,956.0 | 47.8 | 22.8 | 86.5 | |
| Puerto Rico | 60,412 | 15.7 | 66.8 | 1,906.5 | 74.3 | 54.4 | 102.3 | |
| | 1,800 | 15.2 | 69.6 | 2,122.5 | 62.0 | 40.1 | 94.5 | |
| /irdin islands | 1,000 | | | | | | | |
| /irgin Islands | 4 318 | 20 0 | 139.0 | 41665 | 104 X | 60.4 | 176 1 | |
| Jirgin Islands Guam American Samoa | 4,318 1,688 | 29.0 27.2 | 139.0 124.6 | 4,166.5 3,718.5 | 104.8 43.9 | 60.4 17.3 | 176.1 86.4 | |

¹ Excludes data for the territories.

Table 11. Live births by race of mother: United States, each State and territory, 1998

[By place of residence]

| _ | | | Number | | |
|------------------------------|-------------------|-------------------|---------------|------------------------------|------------------------------|
| State | All races | White | Black | American Indian ¹ | Asian or Pacific Islander |
| United States ² | 3,941,553 | 3,118,727 | 609,902 | 40,272 | 172,652 |
| Alabama | 62,074 | 41,522 | 20,033 | 144 | 375 |
| Alaska | 9,926 | 6,628 | 401 | 2,407 | 490 |
| Arizona | 78,243 | 68,265 | 2,653 | 5,555 | 1,770 |
| Arkansas | 36,865 | 28,296 | 7,979 | 218 | 372 |
| California | 521,661 | 424,659 | 36,745 | 3,373 | 56,884 |
| Colorado | 59,577 | 54,323 | 2,870 | 651 | 1,733 |
| Connecticut | 43,820 | 36,837 | 5,461 | 112 | 1,410 |
| Delaware | 10,578 | 7,700 | 2,621 | 35 | 222 |
| District of Columbia | 7,686 | 2,043 | 5,469 | 8 | 166 |
| Florida | 195,637 | 146,219 | 44,387 | 910 | 4,121 |
| Georgia | 122,368 | 78,195 | 41,247 | 240 | 2,686 |
| Hawaii | 17,583 | 4,176 | 560 | 187 | 12,660 |
| | 19,391 | 18,773 | 82 | 315 | 221 |
| Illinois | 182,588 | 140,002 | 35,699 | 259 | 6,628 |
| Indiana | 85,122 | 74,646 | 9,262 | 112 | 1,102 |
| | 37,282 | 35,229 | 1,094 | 195 | 764 |
| Kansas | 38,422 | 34,296 | 2,789 | 394 | 943 |
| Kentucky | 54,329 | 48,840 | 4,862 | 92 | 535 |
| Louisiana Maine | 66,888 13,733 | 38,128 13,368 | 27,452 91 | 325 104 | 983 170 |
| Varyland | 71,972 | 44.565 | 24,040 | 204 | 3,163 |
| Massachusetts | 81,411 | 69,494 | 7,872 | 138 | 3,907 |
| Nichigan | 133,666 | 105,599 | 24,264 | 727 | 3,076 |
| Minnesota | 65,202 | 57,291 | 3,664 | 1,174 | 3,073 |
| Mississippi | 42,939 | 22,972 | 19,351 | 235 | 381 |
| Missouri | 75,358 | 62,510 | 11,399 | 275 | 1,174 |
| Montana | 10,795 | 9,467 | 44 | 1,177 | 107 |
| Nebraska | 23,534 | 21,443 | 1,236 | 405 | 450 |
| Nevada | 28,699 | 24,359 | 2,248 | 450 | 1,642 |
| New Hampshire | 14,429 | 14,073 | 134 | 41 | 181 |
| New Jersey | 114,550 | 85,029 | 21,463 | 173 | 7,885 |
| New Mexico | 27,318 | 23,004 | 509 | 3,419 | 386 |
| New York | 258,207 | 186,251 | 54,463 | 666 | 16,827 |
| North Carolina | 111,688 | 79,335 | 28,242 | 1,733 | 2,378 |
| North Dakota | 7,932 | 7,035 | 87 | 737 | 73 |
| Ohio | 152,794 | 127,289 | 22,796 | 293 | 2,416 |
| Oklahoma | 49,461 | 38,917 | 4,803 | 4,866 | 875 |
| Oregon | 45,273 | 41,610 | 966 | 752 | 1,945 |
| Pennsylvania Rhode Island | 145,899 12,599 | 121,436 11,029 | 20,760 967 | 368 147 | 3,335 456 |
| South Carolina | 53,877 | 34,169 | 18,868 | 146 | 694 |
| South Dakota | 10,288 | 8,392 | 85 | 1,719 | 92 |
| Tennessee | 77,396 | 59,308 | 16,884 | 127 | 1.077 |
| Texas | 342,283 | 291,817 | 40,212 | 773 | 9,481 |
| Utah | 45,165 | 42,937 | 282 | 669 | 1,277 |
| Vermont | 6,582 | 6,497 | 24 | 16 | 45 |
| Virginia | 94,351 | 67,815 | 22,016 | 215 | 4,305 |
| Washington | 79,663 | 69,024 | 3,111 | 1,828 | 5,700 |
| West Virginia | 20,747 | 19,850 | 760 | 12 | 125 |
| Wisconsin | 67,450 | 58,184 | 6,541 | 881 | 1,844 |
| Wyoming | 6,252 | 5,881 | 54 | 270 | 47 |
| Puerto Rico | 60,412 | 55,814 | 4,581 | | |
| Virgin Islands | 1,800 | 357 | 1,396 | 45 | 2 |
| Guam | 4,318 | 348 | 46 | 4 | 3,920 |
| American Samoa | 1,688 | 10 | - | - | 1,678 |
| Northern Marianas | 1,462 | 29 | - | - | 1,433 |

Quantity zero.
 --- Data not available.
 1 Includes births to Aleuts and Eskimos.
 2 Excludes data for the territories.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 12. Live births by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, each State and territory, 1998

[By place of residence]

| | | | | | | Origin of mot | her | | | | |
|----------------------------|------------------|--------------|--------------|-----------------|---------|----------------------------------|----------------------------------|--------------------|------------------|-----------------|-------------|
| Ctata | All | | | Hispa | nic | | | N | lon-Hispanic | | Not |
| State | origins | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ¹ | White | Black | stated |
| United States ² | 3,941,553 | 734,661 | 516,011 | 57,349 | 13,226 | 98,226 | 49,849 | 3,158,975 | 2,361,462 | 593,127 | 47,917 |
| Alabama | 62,074 | 1,345 | 883 | 77 | 22 | 140 | 223 | 60,726 | 40,203 | 20,021 | 3 |
| Alaska | 9,926 | 593 | 238 | 47 | 5 | 48 | 255 | 9,280 | 6,148 | 386 | 53 |
| Arizona | 78,243 | 29,682 | 28,385 | 209 | 40 | 567 | 481 | 47,560 | 38,621 | 2,465 | 1,001 |
| Arkansas | 36,865 | 1,724 | 1,436 | 25 | 2 | 225 | 36 | 35,091 | 26,545 | 7,970 | 50 |
| California | 521,661 | 247,854 | 215,600 | 1,956 | 764 | 24,847 | 4,687 | 270,360 | 176,886 | 35,282 | 3,447 |
| Colorado | 59,577 | 14,654 | 9,921 | 184 | 29 | 426 | 4,094 | 44,902 | 39,936 | 2,761 | 21 |
| Connecticut | 43,820 | 6,224 | 417 | 4,170 | 74 | 1,249 | 314 | 35,273 | 28,845 | 4,990 | 2,323 |
| Delaware | 10,578 | 753 | 356 | 265 | 3 | 119 | 10 | 9,795 | 6,937 | 2,604 | 30 |
| District of Columbia | 7,686 | 730 | 44 | 5 | 2 | 619 | 60 | 6,920 | 1,314 | 5,435 | 36 |
| Florida | 195,637 | 39,540 | 8,646 | 7,487 | 9,240 | 13,041 | 1,126 | 155,920 | 107,754 | 43,483 | 177 |
| Georgia | 122,368 | 8,239 | 6,319 | 450 | 124 | 1,037 | 309 | 113,115 | 69,495 | 40,913 | 1,014 |
| Hawaii | 17,583 | 2,240 | 428 | 642 | 12 | 74 | 1,084 | 15,332 | 3,529 | 524 | 11 |
| Idaho | 19,391 | 2,428 | 2,159 | 21 | 6 | 64 | 178 | 16,679 | 16,091 | 80 | 284 |
| Illinois | 182,588 | 34,780 | 28,938 | 2,917 | 163 | 1,012 | 1,750 | 147,733 | 105,367 | 35,481 | 75 |
| Indiana | 85,122 | 3,770 | 2,935 | 301 | 18 | 337 | 179 | 81,038 | 70,642 | 9,222 | 314 |
| lowa | 37,282 | 1,739 | 1,387 | 45 | 3 | 189 | 115 | 35,120 | 33,188 | 1,034 | 423 |
| Kansas | 38,422 | 3,968 | 3,344 | 83 | 21 | 186 | 334 | 34,084 | 30,013 | 2,759 | 370 |
| Kentucky | 54,329 | 751 | 507 | 84 | 32 | 103 | 25 | 53,536 | 48,095 | 4,845 | 42 |
| Louisiana Maine | 66,888 13,733 | 1,327 131 | 480 29 | 83 21 | 65 1 | 135 9 | 564 71 | 65,401 13,012 | 36,756 12,674 | 27,385 78 | 160 590 |
| | | | | | | | | | , | | |
| Maryland | 71,972 | 3,580 | 616 | 266 | 55 | 1,788 | 855 | 67,932 | 40,893 | 23,741 | 460 |
| Massachusetts | 81,411 | 8,684 | 351 | 4,469 | 68 | 3,390 | 406 | 72,404 | 62,073 | 6,322 | 323 |
| Michigan | 133,666 | 5,945 | 4,420 | 467 | 65 | 334 | 659 | 120,556 | 92,972 | 24,007 | 7,165 |
| Minnesota | 65,202 42,939 | 2,967 403 | 2,322 195 | 82 20 | 26 6 | 320 27 | 217 155 | 58,838 42,479 | 51,089 22,523 | 3,594 19,343 | 3,397 57 |
| Mississippi Missouri | 42,939 75,358 | 1,970 | 1,439 | 20 75 | 35 | 224 | 197 | 73,333 | 60,554 | 19,343 | 55 |
| Montana | 10,795 | 336 | 161 | 16 | 3 | 10 | 146 | 10,238 | 8,951 | 38 | 221 |
| Nebraska | 23,534 | 2,192 | 1,729 | 18 | 10 | 243 | 192 | 20,829 | 18,753 | 1,227 | 513 |
| Nevada | 28,699 | 8,727 | 7,086 | 170 | 165 | 640 | 666 | 19,768 | 15,603 | 2,182 | 204 |
| New Hampshire | 14,429 | 256 | 61 | 74 | 2 | 23 | 96 | 13,664 | 13,332 | 116 | 509 |
| New Jersey | 114,550 | 20,493 | 2,707 | 7,090 | 887 | 9,450 | 359 | 93,643 | 66,244 | 19,424 | 414 |
| New Mexico | 27,318 | 13,714 | 4,575 | 54 | 41 | 116 | 8,928 | 13,595 | 9,453 | 468 | 9 |
| New York | 258,207 | 52,259 | 6,660 | 15,333 | 454 | 21,475 | 8,337 | 189,966 | 124,220 | 48,533 | 15,982 |
| North Carolina | 111,688 | 8,104 | 6,011 | 552 | 79 | 1,373 | 89 | 103,537 | 71,294 | 28,153 | 47 |
| North Dakota | 7,932 | 152 | 96 | 10 | 2 | 11 | 33 | 7,535 | 6,707 | 82 | 245 |
| Ohio | 152,794 | 3,470 | 1,674 | 1,234 | 50 | 315 | 197 | 148,711 | 123,800 | 22,286 | 613 |
| Oklahoma | 49,461 | 3,616 | 2,670 | 111 | 13 | 93 | 729 | 45,321 | 35,059 | 4,688 | 524 |
| Oregon | 45,273 | 6,501 | 6,049 | 70 | 26 | 253 | 103 | 38,704 | 35,138 | 949 | 68 |
| Pennsylvania | 145,899 | 6,897 | 998 | 4,670 | 83 | 495 | 651 | 138,162 | 114,265 | 20,272 | 840 |
| Rhode Island | 12,599 | 1,865 | 100 | 630 | 19 | 1,015 | 101 | 9,117 | 7,743 | 828 | 1,617 |
| South Carolina | 53,877 | 1,307 | 859 | 131 | 28 | 231 | 58 | 52,501 | 32,885 | 18,840 | 69 |
| South Dakota | 10,288 | 153 | 113 | 2 | 1 | 20 | 17 | 10,125 | 8,252 | 82 | 10 |
| Tennessee | 77,396 | 1,997 | 1,332 | 150 | 36 | 265 | 214 | 75,381 | 57,345 | 16,853 | 18 |
| Texas | 342,283 | 151,487 | 134,880 | 1,074 | 316 | 7,151 | 8,066 | 189,650 | 139,980 | 39,631 | 1,146 |
| Utah | 45,165 | 4,879 | 3,771 | 94 | 14 | 522 | 478 | 40,152 | 37,982 | 263 | 134 |
| Vermont | 6,582 | 37 | 11 | 9 | 4 | 7 | 6 | 6,377 | 6,297 | 20 | 168 |
| Virginia | 94,351 | 5,806 | 1,232 | 532 | 60 | 3,501 | 481 | 88,476 | 62,119 | 21,913 | 69 |
| Washington | 79,663 | 10,074 | 8,256 | 218 | 31 | 313 | 1,256 | 67,028 | 57,214 | 2,888 | 2,561 |
| West Virginia | 20,747 | 93 | 45 | 8 | 2 | 5 | 33 | 20,621 | 19,728 | 757 | 33 |
| Wisconsin Wyoming | 67,450 6,252 | 3,641 584 | 2,692 448 | 637 11 | 17 2 | 173 16 | 122 107 | 63,791 5,664 | 54,636 5,319 | 6,490 52 | 18 4 |
| | | 504 | 440 | 11 | 2 | 10 | 107 | 5,004 | 5,519 | 52 | 4 |
| Puerto Rico | 60,412 | | | | | | | | | | 60,407 |
| Virgin Islands | 1,800 | 337 | 10 | 230 | - | 34 | 63 | 1,406 | 107 | 1,257 | 57 |
| Guam | 4,318 | 44 | 25 | 4 | 1 | 5 | 9 | 4,257 | 307 | 45 | 17 |
| American Samoa | 1,688 | | | | | | | | | | 1,688 |
| Northern Marianas | 1,462 | | | | | | | | | | 1,462 |

Quantity zero.
 Data not available.
 Includes races other than white and black.
 Excludes data for the territories.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 13. Total number of births, rates, and percent of births with selected demographic characteristics, by specified race of mother and place of birth of mother: United States, 1998

| Ohanna ta via lia | All | 14/1-11- | D/s s/s | American | | | Asian or Pac | cific Islander | | |
|------------------------------------------------------------------|-----------------|-----------------|-----------------|---------------------|-----------------|---------|--------------|----------------|----------|--------|
| Characteristic | races | White | Black | Indian ¹ | Total | Chinese | Japanese | Hawaiian | Filipino | Other |
| | | | | | Num | nber | | | | |
| Births | 3,941,553 | 3,118,727 | 609,902 | 40,272 | 172,652 | 28,058 | 8,893 | 6,025 | 31,170 | 98,506 |
| | | | | | Ra | ite | | | | |
| Birth rate ² | 14.6 | 14.0 | 17.7 | 17.1 | 16.4 | | | | | |
| Fertility rate ³ Total fertility rate ⁴ | 65.6 2,058.5 | 64.6 2,041.0 | 71.0 2,171.0 | 70.7 2,090.5 | 64.0 1,867.5 | | | | | |
| Sex ratio ⁵ | 1,047 | 1,049 | 1,034 | 1,038 | 1,061 | 1,067 | 1,030 | 1,044 | 1,067 | 1,061 |
| | | | | | Perc | cent | | | | |
| All births | | | | | | | | | | |
| Births to mothers under 20 years | 12.5 | 11.1 | 21.5 | 20.9 | 5.4 | 0.9 | 2.4 | 18.8 | 6.2 | 5.8 |
| 4th- and higher-order births | 10.5 | 9.7 | 14.9 | 19.5 | 7.7 | 2.4 | 4.3 | 14.7 | 7.2 | 9.2 |
| Births to unmarried mothers | 32.8 | 26.3 | 69.1 | 59.3 | 15.6 | 6.4 | 9.7 | 51.1 | 19.7 | 15.2 |
| Mothers completing 12 years or more of school | 78.1 | 78.8 | 73.1 | 67.3 | 87.1 | 88.6 | 97.6 | 81.5 | 93.1 | 84.1 |
| Mothers born in the 50 States and | 70.1 | 70.0 | 75.1 | 07.5 | 07.1 | 00.0 | 97.0 | 01.5 | 93.1 | 04.1 |
| DC | 80.5 | 82.2 | 89.1 | 95.8 | 16.6 | 9.8 | 43.7 | 97.9 | 19.4 | 10.2 |
| Mothers born in the 50 States and DC | | | | | | | | | | |
| Births to mothers under 20 years | 13.6 | 11.4 | 23.3 | 21.4 | 16.0 | 3.7 | 4.7 | 19.0 | 17.6 | 21.0 |
| 4th- and higher-order births | 9.9 | 8.7 | 15.0 | 19.8 | 8.1 | 3.9 | 5.5 | 14.8 | 7.5 | 6.5 |
| Births to unmarried mothers | 33.8 | 25.3 | 72.2 | 60.5 | 33.8 | 11.1 | 15.7 | 51.5 | 51.5 | 39.0 |
| Mothers completing 12 years or | | | | | | | | | | |
| more of school | 82.2 | 84.5 | 72.2 | 67.2 | 86.5 | 97.0 | 96.2 | 81.4 | 88.0 | 81.9 |
| Mothers born outside the 50 States and DC | | | | | | | | | | |
| Births to mothers under 20 years | 8.1 | 9.6 | 6.8 | 9.3 | 3.2 | 0.6 | 0.5 | 10.5 | 3.5 | 4.1 |
| 4th- and higher-order births | 12.8 | 14.1 | 13.3 | 11.4 | 7.6 | 2.2 | 3.4 | 6.5 | 7.1 | 9.5 |
| Births to unmarried mothers Mothers completing 12 years or | 28.5 | 31.1 | 42.7 | 31.0 | 11.9 | 5.8 | 5.0 | 31.5 | 15.1 | 13.1 |
| more of school | 61.0 | 51.7 | 81.2 | 70.4 | 87.1 | 87.7 | 98.6 | 86.8 | 94.2 | 84.3 |

--- Data not available.
1 Includes births to Aleuts and Eskimos.
2 Rate per 1,000 population.
3 Rate per 1,000 women aged 15-44 years.
4 Rates are sums of birth rates for 5-year age groups multiplied by 5.
5 Male live births per 1,000 female live births.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 14. Total number of births, rates, and percent of births with selected demographic characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 1998

| | | | | Hispa | anic | | | | Non-Hispanic | |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-------------------------|----------------------------------------------------------------|----------------------------------|-------------------------|-------------------------|-------------------------|
| Characteristic | All origins ¹ | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ² | White | Black |
| | | | | | Nu | mber | | | | |
| Births | 3,941,553 | 734,661 | 516,011 | 57,349 | 13,226 | 98,226 | 49,849 | 3,158,975 | 2,361,462 | 593,127 |
| | | | | | R | Rate | | | | |
| Birth rate ³ Fertility rate ⁴ Total fertility rate ⁵ | 14.6 65.6 2,058.5 | 24.3 101.1 2,947.5 | 26.4 112.1 3,198.0 | 19.0 75.5 2,268.0 | 10.0 50.1 1,560.0 | ⁷ 23.2 ⁷ 90.2 ⁷ 2,719.0 | | 13.4 60.7 1,919.5 | 12.3 57.7 1,837.0 | 18.2 73.0 2,235.5 |
| Sex ratio ⁶ | 1,047 | 1,040 | 1,037 | 1,044 | 1,105 | 1,042 | 1,050 | 1,049 | 1,052 | 1,034 |
| | | | | | Pe | rcent | | | | |
| All births | | | | | | | | | | |
| Births to mothers under 20 years 4th- and higher-order births Births to unmarried mothers Mothers completing 12 years or | 12.5 10.5 32.8 | 16.9 13.6 41.6 | 17.5 14.7 39.6 | 21.9 12.3 59.5 | 6.9 5.7 24.8 | 10.3 11.1 42.0 | 20.2 11.0 45.3 | 11.6 9.8 30.9 | 9.4 8.5 21.9 | 21.6 15.0 69.3 |
| more of school | 78.1 | 50.7 | 44.8 | 64.1 | 87.0 | 61.5 | 66.4 | 84.4 | 87.2 | 73.3 |
| DC | 80.5 | 39.9 | 39.7 | 63.8 | 39.7 | 10.1 | 73.3 | 89.9 | 94.9 | 90.3 |
| Mothers born in the 50 States and DC | | | | | | | | | | |
| Births to mothers under 20 years | 13.6 | 25.4 | 26.4 | 23.7 | 12.1 | 21.8 | 24.0 | 12.4 | 9.7 | 23.3 |
| 4th- and higher-order births | 9.9 | 11.2 | 11.8 | 11.1 | 4.9 | 5.0 | 10.8 | 9.8 | 8.4 | 15.1 |
| Births to unmarried mothers Mothers completing 12 years or | 33.8 | 48.0 | 46.3 | 61.8 | 25.5 | 45.8 | 47.5 | 32.4 | 22.5 | 72.3 |
| more of school | 82.2 | 64.5 | 62.7 | 64.3 | 86.1 | 78.4 | 67.9 | 84.0 | 87.0 | 72.2 |
| Mothers born outside the 50 States and DC | | | | | | | | | | |
| Births to mothers under 20 years | 8.1 | 11.2 | 11.6 | 18.7 | 3.5 | 9.0 | 9.8 | 3.9 | 3.5 | 6.3 |
| 4th- and higher-order births | 12.8 | 15.2 | 16.6 | 14.5 | 6.2 | 11.8 | 11.5 | 9.5 | 9.7 | 13.7 |
| Births to unmarried mothers Mothers completing 12 years or | 28.5 | 37.2 | 35.1 | 55.2 | 24.4 | 41.6 | 37.7 | 16.6 | 10.7 | 40.7 |
| more of school | 61.0 | 41.4 | 32.7 | 63.6 | 87.6 | 59.5 | 62.2 | 87.6 | 90.2 | 83.5 |

Includes origin not stated.
 Includes races other than white and black.
 Rate per 1,000 population.
 Rate per 1,000 women aged 15-44 years.
 Rates are sums of birth rates for 5-year age groups multiplied by 5.
 Male live births per 1,000 female live births.
 Includes Central and South American and other and unknown Hispanic.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 15. Live births by race of mother and observed and seasonally adjusted birth and fertility rates, by month: United States, 1998

[Rates on an annual basis per 1,000 population for specified month. Birth rates based on the total population. Fertility rates based on women aged 15-44 years]

| 14 | | Number | | Obs | served | Seasonally adjusted ¹ | | |
|-----------|------------------------|-----------|---------|------------|----------------|----------------------------------|----------------|--|
| Month | All races ² | White | Black | Birth rate | Fertility rate | Birth rate | Fertility rate | |
| | | | | | | | | |
| Total | 3,941,553 | 3,118,727 | 609,902 | 14.6 | 65.6 | | | |
| January | 319,340 | 249,256 | 52,573 | 14.0 | 62.7 | 14.6 | 65.5 | |
| February | 298,711 | 235,123 | 47,346 | 14.5 | 64.9 | 14.7 | 66.1 | |
| March | 329,436 | 261,164 | 50,651 | 14.4 | 64.6 | 14.7 | 65.1 | |
| April | 319,758 | 255,541 | 46,886 | 14.4 | 64.8 | 14.6 | 65.7 | |
| May | 330,519 | 264,348 | 48,622 | 14.4 | 64.8 | 14.5 | 65.1 | |
| June | 327,091 | 260,351 | 49,363 | 14.7 | 66.2 | 14.6 | 65.4 | |
| July | 348,651 | 276,912 | 53,193 | 15.2 | 68.3 | 14.5 | 65.2 | |
| August | 344,736 | 272,586 | 53,750 | 15.0 | 67.5 | 14.4 | 64.9 | |
| September | 343,384 | 272,190 | 52,859 | 15.4 | 69.5 | 14.6 | 66.0 | |
| October | 332,790 | 263,742 | 50,972 | 14.5 | 65.2 | 14.5 | 65.5 | |
| November | 313,241 | 245,744 | 49,975 | 14.0 | 63.4 | 14.6 | 65.6 | |
| December | 333,896 | 261,770 | 53,712 | 14.5 | 65.4 | 14.7 | 66.2 | |

... Category not applicable.

The method of seasonal adjustment, developed by the U.S. Bureau of the Census, is described in *The X11 Variant of the Census Method II Seasonal Adjustment Program,* Technical Paper No. 15 (1967 revision).
 Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 16. Live births by day of week and index of occurrence by method of delivery, day of week, and race of mother: United States, 1998

| | | | I | Index of occurrence | 1 | |
|-----------------------|---------------------|--------------------|---------|---------------------|-------------|--------|
| Day of week and | – Average number | | | Method | of delivery | |
| race of mother | of births | Total ² | | | Cesarean | |
| | | | Vaginal | Total | Primary | Repeat |
| II races ³ | 10,799 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| unday | 7,829 | 72.5 | 77.6 | 54.0 | 63.4 | 37.9 |
| londay | 10,997 | 101.8 | 100.4 | 107.1 | 98.6 | 121.5 |
| uesday | 12,393 | 114.8 | 112.7 | 122.1 | 118.8 | 127.9 |
| Vednesday | 12,051 | 111.6 | 109.9 | 117.6 | 115.3 | 121.6 |
| hursday | 11,874 | 110.0 | 108.5 | 115.4 | 113.7 | 118.3 |
| riday | 11,700 | 108.3 | 105.4 | 119.2 | 114.3 | 127.5 |
| aturday | 8,726 | 80.8 | 85.4 | 64.3 | 75.6 | 45.1 |
| /hite | 8,544 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| unday | 6,037 | 70.6 | 75.9 | 51.6 | 61.3 | 35.4 |
| Ionday | 8,754 | 102.5 | 100.9 | 107.9 | 99.1 | 122.5 |
| uesday | 9,898 | 115.8 | 113.8 | 123.2 | 120.1 | 128.5 |
| /ednesday | 9,603 | 112.4 | 110.7 | 118.5 | 116.3 | 122.2 |
| hursday | 9,468 | 110.8 | 109.3 | 116.3 | 114.4 | 119.4 |
| riday | 9,290 | 108.7 | 105.6 | 120.3 | 115.1 | 129.1 |
| aturday | 6,744 | 78.9 | 83.6 | 61.9 | 73.4 | 42.6 |
| Black | 1,671 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| unday | 1,323 | 79.1 | 84.1 | 62.5 | 70.9 | 47.9 |
| londay | 1,659 | 99.3 | 98.0 | 104.0 | 96.9 | 116.5 |
| uesday | 1,862 | 111.5 | 109.3 | 118.6 | 114.2 | 126.3 |
| /ednesday | 1,819 | 108.8 | 107.1 | 114.5 | 111.6 | 119.5 |
| nursday | 1.784 | 106.8 | 105.3 | 112.1 | 111.2 | 113.6 |
| riday | 1.780 | 106.5 | 104.1 | 114.5 | 110.9 | 120.9 |
| Saturday | 1,468 | 87.8 | 92.1 | 73.6 | 84.1 | 55.0 |

Index is the ratio of the average number of births by a specified method of delivery on a given day of the week to the average daily number of births by a specified method of delivery for the year, multiplied by 100.
 Includes method of delivery not stated.
 Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 17. Number, rate, and percent of births to unmarried women by age, race, and Hispanic origin of mother: United States, 1998

| | | и | /hite | В | lack | |
|---------------------------------------------------|---------------------------|---------|--------------|---------|--------------|-----------------------|
| Measure and age of mother | All races ¹ | Total | Non-Hispanic | Total | Non-Hispanic | Hispanic ² |
| Number | | | | | | |
| All ages | 1,293,567 | 821,441 | 517,153 | 421,383 | 410,977 | 305,442 |
| Jnder 15 years | 9,137 | 4,514 | 2,044 | 4,270 | 4,186 | 2,516 |
| 5-19 years | 380,868 | 245,832 | 157,517 | 121,458 | 118,851 | 88,529 |
| 15 years | 23,176 | 13,759 | 7,080 | 8,543 | 8,366 | 6,742 |
| 16 years | 49,061 | 30,952 | 17,687 | 16,183 | 15,811 | 13,384 |
| 17 years | 79,320 | 51,875 | 32,716 | 24,542 | 24,025 | 19,251 |
| 18 years | 107,542 | 70,512 | 46,769 | 33,382 | 32,663 | 23,736 |
| 19 years | 121,769 | 78,734 | 53,265 | 38,808 | 37,986 | 25,416 |
| 0-24 years | 460,367 | 291.677 | 185,985 | 151,903 | 148,401 | 106.020 |
| 5-29 years | 243,280 | 153,310 | 92,542 | 79,344 | 77,193 | 61,079 |
| 0-34 years | 124.624 | 77,883 | 47,449 | 40,927 | 39.611 | 30,725 |
| 5-39 years | 61.087 | 38,905 | 25,491 | 19,367 | 18.755 | 13,403 |
| 0 years and over | 14,204 | 9,320 | 6,125 | 4,114 | 3,980 | 3,170 |
| Rate per 1,000 unmarried women in specified group | | | | | | |
| 5-44 years ³ | 44.3 | 37.5 | 28.0 | 73.3 | | 90.1 |
| 5-19 years | 41.5 | 34.0 | 26.1 | 83.4 | | 73.9 |
| 15-17 years | 27.0 | 21.8 | 15.6 | 56.5 | | 53.0 |
| 18-19 years | 64.5 | 53.5 | 42.8 | 123.5 | | 107.8 |
| 0-24 years | 72.3 | 60.5 | 46.0 | 131.0 | | 135.0 |
| 5-29 years | 58.4 | 50.9 | 36.1 | 90.3 | | 136.0 |
| 0-34 years | 39.1 | 34.9 | 25.2 | 51.7 | | 85.4 |
| 5-39 years | 19.0 | 17.0 | 13.1 | 24.7 | | 40.1 |
| 0-44 years ⁴ | 4.6 | 4.0 | 3.0 | 6.1 | | 12.0 |
| Percent of births to | | | | | | |
| unmarried women Il ages | 32.8 | 26.3 | 21.9 | 69.1 | 69.3 | 41.6 |
| | | | | | | |
| nder 15 years | 96.6 | 94.0 | 95.9 | 99.6 | 99.6 | 92.6 |
| 5-19 years | 78.5 | 72.2 | 71.9 | 95.7 | 95.8 | 72.9 |
| 15 years | 93.5 | 90.3 | 91.2 | 99.3 | 99.4 | 89.6 |
| 16 years | 89.1 | 84.9 | 86.4 | 98.6 | 98.7 | 83.2 |
| 17 years | 84.9 | 79.9 | 81.0 | 97.8 | 97.9 | 78.2 |
| 18 years | 78.2 | 72.0 | 72.5 | 95.7 | 95.8 | 71.1 |
| 19 years | 69.9 | 62.4 | 61.9 | 92.5 | 92.6 | 63.9 |
| 0-24 years | 47.7 | 39.6 | 36.4 | 80.3 | 80.5 | 47.5 |
| 5-29 years | 22.5 | 17.4 | 13.6 | 57.0 | 57.1 | 31.2 |
| 0-34 years | 14.0 | 10.6 | 7.9 | 43.6 | 43.6 | 24.4 |
| 5-39 years | 14.4 | 11.1 | 8.8 | 41.5 | 41.6 | 24.7 |
| 0 years and over | 16.7 | 13.6 | 10.9 | 41.8 | 41.9 | 27.5 |

--- Data not available.
 1 Includes races other than white and black and origin not stated.
 2 Includes all persons of Hispanic origin of any race.
 3 Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.
 4 Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.

NOTES: For 48 States and the District of Columbia, marital status is reported on the birth certificate; for Michigan and New York, mother's marital status is inferred; see Technical notes. Rates cannot be computed for unmarried non-Hispanic black women because the necessary populations are not available.

Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-98, and by age, race, and Hispanic origin of mother: United States, 1980-98

[Rates are live births to unmarried women per 1,000 unmarried women in specified group, estimated as of July 1]

| | | | | | Age of Mother | | | | |
|-------------------------------------------------------|-----------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Year and race | | | 15-19 years | | | | | | |
| and Hispanic origin | 15-44 years ¹ | Total | 15-17 years | 18-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years |
| All races ³ | | | | | | | | | |
| 98 4 | 44.3 | 41.5 | 27.0 | 64.5 | 72.3 | 58.4 | 39.1 | 19.0 | 4.6 |
| 97 ⁴ | 44.0 | 42.2 | 28.2 | 65.2 | 71.0 | 56.2 | 39.0 | 19.0 | 4.6 |
| 96 ⁴ | 44.8 | 42.9 | 29.0 | 65.9 | 70.7 | 56.8 | 41.1 | 20.1 | 4.8 |
| 95 ⁴ | 45.1 | 44.4 | 30.5 | 67.6 | 70.3 | 56.1 | 39.6 | 19.5 | 4.7 |
| | | | | | | | | | |
| | 46.9 | 46.4 | 32.0 | 70.1 | 72.2 | 59.0 | 40.1 | 19.8 | 4.7 |
| 93 4 | 45.3 | 44.5 | 30.6 | 66.9 | 69.2 | 57.1 | 38.5 | 19.0 | 4.4 |
| 92 4 | 45.2 | 44.6 | 30.4 | 67.3 | 68.5 | 56.5 | 37.9 | 18.8 | 4.1 |
| 91 ⁴ | 45.2 | 44.8 | 30.9 | 65.7 | 68.0 | 56.5 | 38.1 | 18.0 | 3.8 |
| 90 ⁴ | 43.8 | 42.5 | 29.6 | 60.7 | 65.1 | 56.0 | 37.6 | 17.3 | 3.6 |
| 39 ⁴ | 41.6 | 40.1 | 28.7 | 56.0 | 61.2 | 52.8 | 34.9 | 16.0 | 3.4 |
| 88 ⁴ | 38.5 | 36.4 | 26.4 | 51.5 | 56.0 | 48.5 | 32.0 | 15.0 | 3.2 |
| | | | | | | | | | 2.9 |
| | 36.0 | 33.8 | 24.5 | 48.9 | 52.6 | 44.5 | 29.6 | 13.5 | |
| 86 4 | 34.2 | 32.3 | 22.8 | 48.0 | 49.3 | 42.2 | 27.2 | 12.2 | 2.7 |
| 85 4 | 32.8 | 31.4 | 22.4 | 45.9 | 46.5 | 39.9 | 25.2 | 11.6 | 2.5 |
| 84 4, 5 | 31.0 | 30.0 | 21.9 | 42.5 | 43.0 | 37.1 | 23.3 | 10.9 | 2.5 |
| 83 4, 5 | 30.3 | 29.5 | 22.0 | 40.7 | 41.8 | 35.5 | 22.4 | 10.2 | 2.6 |
| 824, 5 | 30.0 | 28.7 | 21.5 | 39.6 | 41.5 | 35.1 | 21.9 | 10.0 | 2.7 |
| 81 4, 5 | 29.5 | 27.9 | 20.9 | 39.0 | 41.1 | 34.5 | 20.8 | 9.8 | 2.6 |
| 80 ⁴ , ⁵ | 29.4 | | | 39.0 | 40.9 | | | 9.7 | |
| 50 , | 29.4 | 27.6 | 20.6 | 39.0 | 40.9 | 34.0 | 21.1 | 9.7 | 2.6 |
| 80 5, 6 | 28.4 | 27.5 | 20.7 | 38.7 | 39.7 | 31.4 | 18.5 | 8.4 | 2.3 |
| 75 ^{5, 6} | 24.5 | 23.9 | 19.3 | 32.5 | 31.2 | 27.5 | 17.9 | 9.1 | 2.6 |
| 70 6, 7 | 26.4 | 22.4 | 17.1 | 32.9 | 38.4 | 37.0 | 27.1 | 13.6 | 3.5 |
| White, total | | | | | | | | | |
| 98 ⁴ | 37.5 | 34.0 | 21.8 | 53.5 | 60.5 | 50.9 | 34.9 | 17.0 | 4.0 |
| 97 ⁴ | 37.0 | 34.2 | 22.4 | 53.6 | 59.2 | 49.3 | 34.4 | 16.7 | 3.9 |
| | | | | | 59.0 | 49.9 | | 17.8 | 4.3 |
| | 37.6 | 34.5 | 22.7 | 54.1 | | | 36.1 | | |
| 95 4 | 37.5 | 35.5 | 23.6 | 55.4 | 58.0 | 48.7 | 34.2 | 16.9 | 4.2 |
| 94 4 | 38.3 | 36.2 | 24.1 | 56.4 | 58.1 | 49.7 | 34.2 | 17.3 | 4.3 |
| 93 ⁴ | 35.9 | 33.6 | 22.1 | 52.4 | 54.2 | 46.7 | 32.2 | 16.4 | 3.9 |
| 92 ⁴ | 35.2 | 33.0 | 21.6 | 51.5 | 52.7 | 45.4 | 31.5 | 16.2 | 3.6 |
| 91 ⁴ | 34.6 | 32.8 | 21.8 | 49.6 | 51.5 | 44.6 | 31.1 | 15.2 | 3.2 |
| 90 ⁴ | 32.9 | 30.6 | 20.4 | 44.9 | 48.2 | 43.0 | 29.9 | 14.5 | 3.2 |
| 89 ⁴ | 30.2 | 28.0 | 19.3 | 40.2 | 43.8 | 39.1 | 26.8 | 13.1 | 2.9 |
| 88 ⁴ | 27.4 | 25.3 | 17.6 | 36.8 | 39.2 | 35.4 | 20.0 | 12.1 | 2.7 |
| | | | | | | | | | |
| | 25.3 | 23.2 | 16.2 | 34.5 | 36.6 | 32.0 | 22.3 | 10.7 | 2.4 |
| 86 4 | 23.9 | 21.8 | 14.9 | 33.5 | 34.2 | 30.5 | 20.1 | 9.7 | 2.2 |
| 85 ⁴ | 22.5 | 20.8 | 14.5 | 31.2 | 31.7 | 28.5 | 18.4 | 9.0 | 2.0 |
| 84 ^{4, 5} | 20.6 | 19.3 | 13.7 | 27.9 | 28.5 | 25.5 | 16.8 | 8.4 | 2.0 |
| 83 4, 5 | 19.8 | 18.7 | 13.6 | 26.4 | 27.1 | 23.8 | 15.9 | 7.8 | 2.0 |
| 82 ^{4, 5} | 19.3 | 18.0 | 13.1 | 25.3 | 26.5 | 23.1 | 15.3 | 7.4 | 2.1 |
| 81 ^{4, 5} | 18.6 | 17.2 | 12.6 | 24.6 | 25.8 | 22.3 | 14.2 | 7.2 | 1.9 |
| 30 ^{4, 5} | 18.1 | 16.5 | 12.0 | 24.1 | 25.1 | 21.5 | 14.1 | 7.1 | 1.8 |
| White, non-Hispanic | | | | | | | | | |
| 98 ⁴ | 28.0 | 26.1 | 15.6 | 42.8 | 46.0 | 36.1 | 25.2 | 13.1 | 3.0 |
| 97 ⁴ | 27.6 | 26.4 | 16.2 | 43.1 | 44.8 | 35.2 | 25.1 | 12.7 | 2.9 |
| 96 ⁴ | | | | | | | | | |
| | 28.3 | 27.0 | 16.9 | 43.8 | 44.5 | 35.7 | 26.6 | 13.9 | 3.3 |
| ос 4 | 28.2 | 27.7 | 17.6 | 44.5 | 43.8 | 34.9 | 25.3 | 13.0 | 3.2 |
| 95 4 | | | 40.0 | 15 0 | 43.8 | 35.0 | 24.8 | 12.9 | 2 4 |
| 95 ⁴ 94 ⁴ | 28.5 | 28.1 | 18.0 | 45.0 | 40.0 | 00.0 | 24.0 | 12.9 | з. |
| 95 ⁴ 94 ⁴ 93 ⁴ | 28.5 | 28.1 | 18.0 | 45.0 | | | | 12.9 | |
| 95 ⁴ 94 ⁴ 93 ⁴ | | | | | | | | | |
| 95 ⁴ | | | | | | | | | 3.1 |

See footnotes at end of table.

Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-98, and by age, race, and Hispanic origin of mother: United States, 1980-98 -- Con.

[Rates are live births to unmarried women per 1,000 unmarried women in specified group, estimated as of July 1]

| | Age of Mother | | | | | | | | | | | |
|-----------------------|-----------------------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|--|--|--|
| Year and race | 45 44 | | 15-19 years | | 00.04 | 25.00 | 20.04 | 25.20 | 40.44 | | | |
| | 15-44 years ¹ | Total | 15-17 years | 18-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years ² | | | |
| Black, total | | | | | | | | | | | | |
| 998 ⁴ | 73.3 | 83.4 | 56.5 | 123.5 | 131.0 | 90.3 | 51.7 | 24.7 | 6.1 | | | |
| 97 ⁴ | 73.4 | 86.4 | 60.6 | 127.2 | 127.8 | 85.2 | 52.3 | 24.7 | 6.5 | | | |
| 96 ⁴ | 74.4 | 89.2 | 64.0 | 129.2 | 125.8 | 84.5 | 54.5 | 25.5 | 6.1 | | | |
| 95 ⁴ | 75.9 | 92.8 | 68.6 | 131.2 | 127.7 | 84.8 | 54.3 | 25.6 | 6.0 | | | |
| 94 ⁴ | 82.1 | 100.9 | 75.1 | 141.6 | 138.1 | 93.6 | 57.2 | 26.3 | 5.9 | | | |
| 93 ⁴ | 84.0 | 102.4 | 76.8 | 141.6 | 142.2 | 94.5 | 57.3 | 25.9 | 5.8 | | | |
| 92 ⁴ | 86.5 | 105.9 | 78.0 | 147.8 | 144.3 | 98.2 | 57.7 | 25.8 | 5.4 | | | |
| 91 ⁴ | 89.5 | 108.5 | 80.4 | 148.7 | 147.5 | 100.9 | 60.1 | 25.6 | 5.4 | | | |
| 90 ⁴ | 90.5 | 106.0 | 78.8 | 143.7 | 144.8 | 105.3 | 61.5 | 25.5 | 5.1 | | | |
| 39 ⁴ | 90.7 | 104.5 | 78.9 | 140.9 | 142.4 | 102.9 | 60.5 | 24.9 | 5.0 | | | |
| 88 ⁴ | 86.5 | 96.1 | 73.5 | 130.5 | 133.6 | 97.2 | 57.4 | 24.0 | 5.0 | | | |
| 37 ⁴ | 82.6 | 90.9 | 69.9 | 123.0 | 126.1 | 91.6 | 53.1 | 22.4 | 4.7 | | | |
| 36 ⁴ | 79.0 | 88.5 | 67.0 | 123.0 | 118.0 | 84.6 | 50.0 | 20.6 | 4.4 | | | |
| 35 ⁴ | 75.0 | 87.6 | 66.8 | 117.9 | 113.1 | 79.3 | 47.5 | 20.0 | 4.4 | | | |
| 4 E | 75.2 | 86.1 | 66.5 | 113.6 | 107.9 | 75.8 | 43.8 | 19.4 | 4.3 | | | |
| | 76.2 | 85.5 | 66.8 | 111.9 | 107.2 | 79.7 | 43.8 | | 4.8 | | | |
| | | | | | | | | 19.4 | 4.c 5.2 | | | |
| | 77.9 79.4 | 85.1 | 66.3 65.9 | 112.7 114.2 | 109.3 110.7 | 82.7 83.1 | 44.1 | 19.5 | 5.2 5.6 | | | |
| | 79.4 81.1 | 85.0 87.9 | 68.8 | 114.2 | 112.3 | 81.4 | 45.5 46.7 | 19.6 | 5.5 | | | |
| | 01.1 | 67.9 | 00.0 | 110.2 | 112.3 | 01.4 | 40.7 | 19.0 | 5.5 | | | |
| Hispanic ⁹ | | | | | | | | | | | | |
| 98 4 | 90.1 | 73.9 | 53.0 | 107.8 | 135.0 | 136.0 | 85.4 | 40.1 | 12.0 | | | |
| 97 ⁴ | 91.4 | 75.2 | 55.0 | 109.5 | 139.1 | 135.0 | 86.1 | 42.0 | 12.2 | | | |
| 96 ⁴ | 93.2 | 74.5 | 53.4 | 110.4 | 146.5 | 139.1 | 90.8 | 42.3 | 12.3 | | | |
| 95 ⁴ | 95.0 | 78.7 | 56.3 | 117.9 | 148.9 | 133.8 | 89.2 | 43.4 | 12.2 | | | |
| 94 ⁴ | 101.2 | 82.6 | 59.0 | 123.6 | 154.8 | 141.6 | 95.5 | 48.4 | 14.0 | | | |
| 93 ⁴ | 95.2 | 74.6 | 51.9 | 114.6 | 140.5 | 137.7 | 90.9 | 47.8 | 14.1 | | | |
| 92 ⁴ | 95.3 | 72.9 | 51.0 | 110.5 | 142.2 | 138.3 | 91.8 | 48.1 | 14.5 | | | |
| 91 ⁴ | 93.7 | 72.4 | 50.5 | 109.6 | 135.4 | 137.5 | 89.1 | 47.7 | 14.2 | | | |
| 90 ⁴ | 89.6 | 65.9 | 45.9 | 98.9 | 129.8 | 131.7 | 88.1 | 50.8 | 13.7 | | | |

--- Data not available. 1 Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.

2 Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years. 3 Includes races other than white and black.

4 Data for States in which marital status was not reported have been inferred and included with data from the remaining States; see Technical notes. 5 Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes. 6 Births to unmarried women are estimated for the United States from data for registration areas in which marital status of mother was reported; see Technical notes. 7 Based on a 50-percent sample of births.

8 Rates for 1990 based on data for 48 States and the District of Columbia which reported Hispanic origin on the birth certificate. Rate shown for ages 35-39 years is based on births to unmarried women aged 35-44 years. 9 Includes all persons of Hispanic origin of any race.

NOTE: Rates cannot be computed for unmarried non-Hispanic black women because the necessary populations are not available.

Table 19. Number and percent of births to unmarried women by race and Hispanic origin of mother: United States, each State and territory, 1998

[By place of residence]

| | | Bir | ths to unma | arried wom | en | | | | Percent ι | Inmarried | | |
|-----------------------------|---------------------------|-----------------|------------------|----------------|------------------|-----------------------|---------------------------|--------------|------------------|--------------|------------------|-----------------------|
| | | Wł | nite | Bla | ack | | | WI | nite | Bla | ack | |
| State | All races ¹ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ² | All races ¹ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ² |
| United States ³ | 1,293,567 | 821,441 | 517,153 | 421,383 | 410,977 | 305,442 | 32.8 | 26.3 | 21.9 | 69.1 | 69.3 | 41.6 |
| Alabama | 21,147 | 7,165 | 6,870 | 13,891 | 13,883 | 310 | 34.1 | 17.3 | 17.1 | 69.3 | 69.3 | 23.0 |
| Alaska | 3,088 | 1,445 | 1,308 | 159 | 155 | 171 | 31.1 | 21.8 | 21.3 | 39.7 | 40.2 | 28.8 |
| Arizona | 30,011 | 24,253 | 9,635 | 1,670 | 1,544 | 14,751 | 38.4 | 35.5 | 24.9 | 62.9 | 62.6 | 49.7 |
| Arkansas | 12,911 | 6,818 | 6,231 | 5,937 | 5,931 | 587 | 35.0 | 24.1 | 23.5 | 74.4 61.9 | 74.4 | 34.0 |
| California | 170,866 | 137,920 | 37,840 | 22,760 | 21,990 | 100,868 | 32.8 25.6 | 32.5 24.1 | 21.4 18.5 | 54.6 | 62.3 54.3 | 40.7 39.8 |
| Colorado | 15,227 13,676 | 13,080 9,563 | 7,395 5,301 | 1,568 3,753 | 1,499 3,441 | 5,825 3,987 | 31.2 | 24.1 | 18.5 | 68.7 | 69.0 | 59.0 64.1 |
| Delaware | 3,924 | 1,991 | 1,623 | 1,902 | 1,896 | 3,907 | 37.1 | 20.0 | 23.4 | 72.6 | 72.8 | 48.1 |
| District of Columbia | 4,834 | 477 | 1023 | 4,323 | 4,305 | 370 | 62.9 | 23.3 | 8.2 | 72.0 | 72.0 | 50.7 |
| Florida | 71,626 | 40,822 | 27,690 | 29,792 | 29,315 | 13,738 | 36.6 | 27.9 | 25.7 | 67.1 | 67.4 | 34.7 |
| Georgia | 44,270 | 16,223 | 13,529 | 27,676 | 27,526 | 2,664 | 36.2 | 20.7 | 19.5 | 67.1 | 67.3 | 32.3 |
| Hawaii | 5,544 | 648 | 512 | 124 | 112 | 1,016 | 31.5 | 15.5 | 14.5 | 22.1 | 21.4 | 45.4 |
| ldaho | 4,265 | 3,993 | 3,152 | 33 | 33 | 779 | 22.0 | 21.3 | 19.6 | 40.2 | 41.3 | 32.1 |
| Illinois | 62,211 | 33,832 | 20,255 | 27,802 | 27,652 | 13,708 | 34.1 | 24.2 | 19.2 | 77.9 | 77.9 | 39.4 |
| Indiana | 28,553 | 21,223 | 19,561 | 7,150 | 7,126 | 1,592 | 33.5 | 28.4 | 27.7 | 77.2 | 77.3 | 42.2 |
| lowa | 10,155 | 9,074 | 8,270 | 791 | 746 | 713 | 27.2 | 25.8 | 24.9 | 72.3 | 72.1 | 41.0 |
| Kansas | 10,663 | 8,384 | 6,823 | 1,925 | 1,903 | 1,534 | 27.8 | 24.4 | 22.7 | 69.0 | 69.0 | 38.7 |
| Kentucky | 16,327 | 12,736 | 12,517 | 3,474 | 3,465 | 216 | 30.1 | 26.1 | 26.0 | 71.5 | 71.5 | 28.8 |
| Louisiana Maine | 30,041 4,197 | 9,300 4,051 | 8,877 3,817 | 20,378 45 | 20,342 40 | 423 43 | 44.9 30.6 | 24.4 30.3 | 24.2 30.1 | 74.2 49.5 | 74.3 51.3 | 31.9 32.8 |
| Maryland | 24,734 | 9,544 | 8,153 | 14,837 | 14,661 | 1,355 | 34.4 | 21.4 | 19.9 | 61.7 | 61.8 | 37.8 |
| Massachusetts | 21,210 | 15,887 | 11,537 | 4,597 | 3,710 | 5,207 | 26.1 | 22.9 | 18.6 | 58.4 | 58.7 | 60.0 |
| Michigan | 45,372 | 26,544 | 21,758 | 18,124 | 17,964 | 2,496 | 33.9 | 25.1 | 23.4 | 74.7 | 74.8 | 42.0 |
| Vinnesota | 16,723 | 12,644 | 10,964 | 2,411 | 2,365 | 1,418 | 25.6 | 22.1 | 21.5 | 65.8 | 65.8 | 47.8 |
| Vississippi | 19,502 | 4,683 | 4,557 | 14,615 | 14,613 | 125 | 45.4 | 20.4 | 20.2 | 75.5 | 75.5 | 31.0 |
| Missouri | 25,668 | 16,545 | 15,817 | 8,773 | 8,752 | 745 | 34.1 | 26.5 | 26.1 | 77.0 | 77.0 | 37.8 |
| Montana | 3,230 | 2,372 | 2,184 | 22 | 20 | 133 | 29.9 | 25.1 | 24.4 | 50.0 | 52.6 | 39.6 |
| Nebraska | 6,168 | 4,964 | 3,960 | 851 | 847 | 862 | 26.2 | 23.1 | 21.1 | 68.9 | 69.0 | 39.3 |
| Nevada New Hampshire | 10,033 3,482 | 7,905 3,384 | 4,299 3,135 | 1,487 60 | 1,449 53 | 3,597 97 | 35.0 24.1 | 32.5 24.0 | 27.6 23.5 | 66.1 44.8 | 66.4 45.7 | 41.2 37.9 |
| New Jersey | 32,369 | 17,705 | 8,464 | 14,128 | 13,058 | 10,222 | 28.3 | 20.8 | 12.8 | 65.8 | 67.2 | 49.9 |
| New Mexico | 12,033 | 9,200 | 2,432 | 310 | 277 | 6,890 | 44.0 | 40.0 | 25.7 | 60.9 | 59.2 | 50.2 |
| New York | 90,089 | 51,174 | 21,687 | 36,133 | 32,048 | 30,276 | 34.9 | 27.5 | 17.5 | 66.3 | 66.0 | 57.9 |
| North Carolina | 36,614 | 16,535 | 13,269 | 18,851 | 18,810 | 3,302 | 32.8 | 20.8 | 18.6 | 66.7 | 66.8 | 40.7 |
| North Dakota | 2,143 | 1,573 | 1,479 | 25 | 23 | 45 | 27.0 | 20.0 | 22.1 | 28.7 | 28.0 | 29.6 |
| Ohio | 51,940 | 34,062 | 32,416 | 17,493 | 17,068 | 1,703 | 34.0 | 26.8 | 26.2 | 76.7 | 76.6 | 49.1 |
| Oklahoma | 16,433 | 10,607 | 9,290 | 3,321 | 3,247 | 1,285 | 33.2 | 27.3 | 26.5 | 69.1 | 69.3 | 35.5 |
| Oregon | 13,458 | 12,044 | 9,575 | 632 | 624 | 2,492 | 29.7 | 28.9 | 27.2 | 65.4 | 65.8 | 38.3 |
| Pennsylvania | 47,925 | 31,222 | 26,964 | 16,083 | 15,727 | 4,217 | 32.8 | 25.7 | 23.6 | 77.5 | 77.6 | 61.1 |
| Rhode Island | 4,269 | 3,371 | 1,984 | 642 | 555 | 1,066 | 33.9 | 30.6 | 25.6 | 66.4 | 67.0 | 57.2 |
| South Carolina | 20,907 | 7,538 | 7,096 | 13,182 | 13,168 | 464 | 38.8 | 22.1 | 21.6 | 69.9 | 69.9 | 35.5 |
| South Dakota | 3,296 | 1,947 | 1,888 | 32 | 32 | 65 | 32.0 | 23.2 | 22.9 | 37.6 | 39.0 | 42.5 |
| Tennessee | 26,999 | 14,313 | 13,584 | 12,455 | 12,436 | 749 | 34.9 | 24.1 | 23.7 | 73.8 | 73.8 | 37.5 |
| Texas | 107,742 | 81,188 | 27,943 | 25,343 | 24,945 | 53,199 | 31.5 | 27.8 | 20.0 | 63.0 | 62.9 | 35.1 |
| Utah | 7,740 | 7,007 | 5,115 | 139 | 133 | 1,883 | 17.1 | 16.3 | 13.5 | 49.3 | 50.6 | 38.6 |
| Vermont | 1,841 | 1,811 | 1,739 11,603 | 13 005 | 13 045 | 2 1 1 4 | 28.0 | 27.9 | 27.6 | 60 6 | 63.6 | 36.4 |
| Virginia | 28,124 | 13,658 | 14,018 | 13,995 | 13,945 | 2,114 | 29.8 | 20.1 | 18.7 24.5 | 63.6 | 63.6 55.1 | 36.4 38.3 |
| Washington West Virginia | 22,211 6,715 | 18,254 6,108 | 6,067 | 1,693 583 | 1,592 581 | 3,859 30 | 27.9 32.4 | 26.4 30.8 | 24.5 30.8 | 54.4 76.7 | 76.8 | 38.3 |
| Wisconsin | 19,211 | 13,016 | 11,455 | 5,373 | 5,332 | 1,633 | 32.4 28.5 | 22.4 | 21.0 | 82.1 | 82.2 | 44.9 |
| Wyoming | 1,850 | 1,638 | 1,407 | 5,373 | 5,332 25 | 249 | 20.5 | 22.4 | 26.5 | 50.0 | 48.1 | 44.9 |
| Puerto Rico | 28,368 | 25,489 | | 2,872 | | | 47.0 | 45.7 | | 62.7 | | |
| Virgin Islands | 1,253 | 205 | 45 | 1,037 | 939 | 225 | 69.6 | 57.4 | 42.1 | 74.3 | 74.7 | 66.8 |
| Guam | 2,341 | 67 | 59 | 11 | 11 | 7 | 54.2 | 19.3 | 19.2 | * | * | |
| American Samoa | 578 | 1 | | - | | | 34.2 | * | | * | | |
| Northern Marianas | 667 | 6 | | - | | | 45.6 | * | | * | | |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.
Quantity zero.
--- Data not available.
1 Includes races other than white and black and origin not stated.
2 Includes all persons of Hispanic origin of any race.
3 Excludes data for the territories.

Table 20. Birth rates by age and race of father: United States, 1980-98

[Rates are live births per 1,000 men in specified group, enumerated as of April 1 for 1980 and 1990 and estimated as of July 1 for all other years. Figures for age of father not stated are distributed]

| Veer and rese of | 15 5 4 | Age of father | | | | | | | | | | | |
|----------------------------------------|-----------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|--|--|--|
| Year and race of father | 15-54 years ¹ | 15-19 years ² | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years | 50-54 years | 55 years and over | | | |
| All races ³ | | | | | | | | | | | | | |
| 1998 | 51.0 | 21.6 | 84.8 | 112.6 | 99.2 | 53.9 | 20.9 | 7.2 | 2.5 | 0.3 | | | |
| 1997 | 50.4 | 22.2 | 83.4 | 108.5 | 95.7 | 52.1 | 20.6 | 7.1 | 2.5 | 0.3 | | | |
| 1996 | 51.1 | 23.0 | 84.4 | 107.7 | 94.3 | 51.5 | 20.4 | 6.9 | 2.5 | 0.3 | | | |
| 1995 | 52.0 | 24.3 | 86.0 | 107.2 | 93.3 | 51.0 | 20.3 | 7.1 | 2.6 | 0.3 | | | |
| 1994 | 53.2 | 25.0 | 87.3 | 108.8 | 93.3 | 50.9 | 20.2 | 7.2 | 2.6 | 0.3 | | | |
| 1993 | 54.4 | 24.8 | 87.1 | 110.8 | 93.5 | 51.1 | 20.2 | 7.3 | 2.7 | 0.4 | | | |
| 1992 | 55.8 | 24.6 | 87.7 | 113.1 | 94.2 | 51.3 | 20.4 | 7.3 | 2.7 | 0.4 | | | |
| 1991 1990 | 57.1 58.4 | 24.8 23.5 | 88.0 88.0 | 114.7 116.4 | 95.1 97.8 | 51.8 53.0 | 20.2 21.0 | 7.5 7.5 | 2.7 2.8 | 0.4 0.4 | | | |
| 1989 | 57.2 | 23.5 | 85.4 | 114.3 | 94.8 | 51.3 | 20.4 | 7.4 | 2.0 | 0.4 | | | |
| 1988 | 55.8 | 19.6 | 82.4 | 111.6 | 93.2 | 49.9 | 19.9 | 7.1 | 2.7 | 0.4 | | | |
| 1987 | 55.0 | 18.3 | 80.5 | 109.9 | 91.2 | 48.6 | 19.0 | 6.9 | 2.6 | 0.4 | | | |
| 1986 | 54.8 | 17.9 | 80.3 | 109.6 | 90.3 | 46.8 | 18.3 | 6.7 | 2.6 | 0.4 | | | |
| 1985 | 55.6 | 18.0 | 81.2 | 112.3 | 91.1 | 47.3 | 18.1 | 6.6 | 2.5 | 0.4 | | | |
| 1984 ⁴ | 55.0 | 17.8 | 80.7 | 111.4 | 89.9 | 46.0 | 17.8 | 6.3 | 2.4 | 0.4 | | | |
| 1983 4 | 55.1 | 18.2 | 82.6 | 113.0 | 89.1 | 45.2 | 17.4 | 6.4 | 2.3 | 0.4 | | | |
| 1982 ⁴ | 56.4 | 18.6 | 86.5 | 117.3 | 90.3 | 44.5 | 17.5 | 6.4 | 2.3 | 0.4 | | | |
| 1981 ⁴ 1980 ⁴ | 56.3 | 18.4 | 88.4 | 119.1 | 88.7 | 43.3 | 17.0 | 6.2 | 2.3 | 0.4 | | | |
| | 57.0 | 18.8 | 92.0 | 123.1 | 91.0 | 42.8 | 17.1 | 6.1 | 2.2 | 0.3 | | | |
| White | | | | | | | | | | | | | |
| 998 | 48.3 | 18.0 | 77.5 | 110.9 | 99.1 | 52.5 | 19.4 | 6.4 | 2.2 | 0.3 | | | |
| 1997 | 47.7 | 18.2 | 76.1 | 106.8 | 95.3 | 50.6 | 19.1 | 6.3 | 2.1 | 0.3 | | | |
| 1996 | 48.4 | 18.8 | 77.2 | 106.4 | 94.0 | 50.2 | 19.0 | 6.2 | 2.1 | 0.2 | | | |
| 1995 1994 | 49.2 50.0 | 19.7 19.8 | 78.5 78.5 | 105.7 106.4 | 92.9 92.5 | 49.6 49.3 | 19.0 18.9 | 6.3 6.3 | 2.2 2.2 | 0.2 0.3 | | | |
| 1993 | 50.0 | 19.2 | 77.9 | 108.0 | 92.4 | 49.2 | 18.6 | 6.4 | 2.2 | 0.3 | | | |
| 1992 | 52.2 | 18.9 | 78.2 | 110.1 | 93.2 | 49.3 | 18.8 | 6.4 | 2.2 | 0.3 | | | |
| 1991 | 53.3 | 19.1 | 78.4 | 111.5 | 93.6 | 49.7 | 18.5 | 6.5 | 2.2 | 0.3 | | | |
| 1990 | 54.6 | 18.1 | 78.3 | 113.2 | 96.1 | 50.9 | 19.2 | 6.5 | 2.2 | 0.3 | | | |
| 1989 | 53.3 | 16.7 | 75.9 | 110.8 | 93.0 | 49.1 | 18.7 | 6.3 | 2.1 | 0.4 | | | |
| 1988 | 52.2 | 14.8 | 73.7 | 108.3 | 91.2 | 47.6 | 18.1 | 6.1 | 2.1 | 0.3 | | | |
| 1987 | 51.6 | 13.9 | 72.8 | 107.0 | 89.5 | 46.2 | 17.3 | 5.9 | 2.0 | 0.3 | | | |
| 1986 1985 | 51.7 52.6 | 13.8 14.0 | 73.3 74.7 | 107.0 109.9 | 88.7 89.5 | 44.4 44.8 | 16.6 16.3 | 5.7 5.6 | 2.0 1.9 | 0.3 0.3 | | | |
| 1984 ⁴ | 51.8 | 14.0 | 74.3 | 108.8 | 87.9 | 43.5 | 16.0 | 5.3 | 1.9 | 0.3 | | | |
| 1983 ⁴ | 52.0 | 14.4 | 76.3 | 110.2 | 86.8 | 42.6 | 15.5 | 5.3 | 1.8 | 0.3 | | | |
| 1982 4 | 53.1 | 14.9 | 80.1 | 114.2 | 87.5 | 41.7 | 15.6 | 5.3 | 1.9 | 0.3 | | | |
| 1981 ⁴ | 52.9 | 15.0 | 81.7 | 115.8 | 85.8 | 40.3 | 15.0 | 5.2 | 1.8 | 0.3 | | | |
| 1980 ⁴ | 53.4 | 15.4 | 84.9 | 119.4 | 87.8 | 39.7 | 15.0 | 5.1 | 1.8 | 0.3 | | | |
| Black | | | | | | | | | | | | | |
| 1998 | 68.1 | 43.3 | 136.8 | 134.4 | 94.3 | 54.9 | 26.7 | 11.9 | 5.3 | 1.0 | | | |
| 1997 | 68.0 | 45.6 | 136.6 | 130.2 | 91.8 | 53.3 | 26.1 | 11.7 | 5.5 | 1.1 | | | |
| 1996 | 68.3 | 47.2 | 138.0 | 127.2 | 89.3 | 52.3 | 25.7 | 11.6 | 5.5 | 1.1 | | | |
| 1995 | 70.1 | 50.5 | 140.5 | 126.6 | 89.6 | 52.6 | 25.7 | 12.1 | 5.6 | 1.1 | | | |
| 1994 | 74.9 | 54.6 | 150.5 | 131.9 | 92.9 | 54.2 | 26.4 | 13.0 | 6.0 | 1.1 | | | |
| 1993 | 78.3 | 56.6 | 153.8 | 136.0 | 95.3 | 56.6 | 27.7 | 13.5 | 6.4 | 1.3 | | | |
| 1992 1991 | 81.0 83.4 | 57.4 58.0 | 158.0 158.5 | 140.1 143.3 | 96.8 100.1 | 56.9 58.8 | 28.4 29.4 | 13.9 14.2 | 6.2 6.7 | 1.4 1.4 | | | |
| 1990 | 84.9 | 55.2 | 158.2 | 143.3 | 103.2 | 60.4 | 31.1 | 15.0 | 7.1 | 1.4 | | | |
| 989 | 84.1 | 52.9 | 153.4 | 143.5 | 101.4 | 59.9 | 31.1 | 14.9 | 6.9 | 2.7 | | | |
| 1988 | 80.7 | 48.1 | 144.1 | 137.9 | 100.0 | 58.0 | 30.6 | 14.3 | 6.9 | 1.4 | | | |
| 1987 | 78.3 | 44.6 | 136.1 | 133.9 | 97.4 | 58.0 | 30.0 | 13.8 | 6.6 | 1.3 | | | |
| 1986 | 77.2 | 42.6 | 131.4 | 131.6 | 97.4 | 58.0 | 29.1 | 13.5 | 6.7 | 1.3 | | | |
| 1985 | 77.2 | 41.8 | 129.5 | 132.7 | 97.3 | 59.4 | 29.5 | 13.3 | 6.5 | 1.2 | | | |
| 1984 ⁴ | 76.7 | 40.9 | 128.0 | 132.2 | 98.3 | 58.4 | 29.3 | 13.3 | 6.1 | 1.2 | | | |
| 1983 ⁴ 1982 ⁴ | 77.2 79.5 | 40.7 40.3 | 129.1 133.4 | 134.4 141.2 | 99.0 103.6 | 59.6 61.1 | 29.6 29.6 | 13.5 13.9 | 6.0 6.0 | 1.2 1.2 | | | |
| 981 ⁴ | 80.4 | 38.9 | 138.4 | 141.2 | 104.3 | 61.3 | 29.0 | 13.3 | 5.7 | 1.2 | | | |
| 980 ⁴ | | | | 0.0 | | 01.0 | | | 0.1 | | | | |

Rates computed by relating total births, regardless of age of father, to men aged 15-54 years.
 Rates computed by relating births of fathers under 20 years of age to men aged 15-19 years.
 Includes races other than white and black.
 Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all men (including Hispanic men) are classified only according to their race; see Technical notes.

Table 21. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of school, by age and race and Hispanic origin of mother: United States, 1998

| | - | | Year | Years of school completed by mother | | | | | | |
|----------------------------------|----------------------|------------------|--------------------|-------------------------------------|--------------------|---------------------|------------------|---------------------|---------------------|--|
| Age and race of mother | Total | 0-8 years | 9-11 years | 12 years | 13-15 years | 16 years or more | Not Stated | 12 years or more | 16 years or more | |
| All races ¹ | | | | | | | | | | |
| All ages | 3,941,553 | 220,175 | 627,981 | 1,266,102 | 859,688 | 907,220 | 60,387 | 78.1 | 23.4 | |
| Under 15 years | 9,462 | 7,226 | 1,930 | | - | - | 306 | - | | |
| 15-19 years 15 years | 484,895 24,777 | 40,539 7,923 | 255,263 16,163 | 157,085 | 23,469 | - | 8,539 691 | 37.9 | | |
| 16 years | 55,033 | 7,035 | 45,555 | 1,282 | - | - | 1,161 | 2.4 | | |
| 17 years | 93,421 | 7,293 | 70,027 | 14,089 | 313 | - | 1,699 | 15.7 | | |
| 18 years | 137,567 | 8,583 | 65,914 | 56,645 | 4,142 | - | 2,283 | 44.9 | | |
| 19 years | 174,097 | 9,705 | 57,604 | 85,069 | 19,014 | - | 2,705 | 60.7 73.2 | 5.2 | |
| 20-24 years 25-29 years | 965,122 1,083,010 | 59,000 53,115 | 195,708 101,186 | 423,593 341,622 | 222,605 287,684 | 49,613 284,171 | 14,603 15,232 | 73.2 85.5 | 26.6 | |
| 30-34 years | 889,365 | 35,933 | 48,999 | 222,470 | 211,046 | 358,152 | 12,765 | 90.3 | 40.9 | |
| 35-39 years | 424,890 | 18,830 | 20,678 | 102,106 | 96,496 | 179,773 | 7,007 | 90.5 | 43.0 | |
| 40 years and over | 84,809 | 5,532 | 4,217 | 19,226 | 18,388 | 35,511 | 1,935 | 88.2 | 42.8 | |
| White, total | | | | | | | | | | |
| All ages | 3,118,727 | 193,814 | 459,077 | 972,793 | 677,997 | 772,352 | 42,694 | 78.8 | 25.1 | |
| Under 15 years | 4,801 | 3,655 | 994 | - | - | - | 152 | - | | |
| 15-19 years | 340,694 | 33,532 | 175,469 | 110,209 | 15,790 | - | 5,694 | 37.6 | | |
| 15 years | 15,233 | 5,185 | 9,630 | - | - | - | 418 | - | | |
| 16 years | 36,439 64,951 | 5,481 6,280 | 29,342 47,719 | 853 9,583 | - 223 | - | 763 1,146 | 2.4 15.4 | | |
| 17 years 18 years | 97,971 | 7,752 | 46,719 | 39,168 | 2,811 | - | 1,521 | 43.5 | | |
| 19 years | 126,100 | 8,834 | 42,059 | 60,605 | 12,756 | - | 1,846 | 59.0 | | |
| 20-24 years | 736,664 | 54,858 | 148,106 | 318,400 | 166,183 | 38,765 | 10,352 | 72.1 | 5.3 | |
| 25-29 years | 880,688 | 48,475 | 79,388 | 270,295 | 230,804 | 240,819 | 10,907 | 85.3 | 27.7 | |
| 30-34 years | 737,532 | 32,038 | 37,328 | 178,073 | 172,422 | 308,541 | 9,130 | 90.5 | 42.4 | |
| 35-39 years 40 years and over | 349,799 68,549 | 16,579 4,677 | 14,924 2,868 | 81,030 14,786 | 78,124 14,674 | 154,086 30,141 | 5,056 1,403 | 90.9 88.8 | 44.7 44.9 | |
| White, non-Hispanic | | | | | | | | | | |
| All ages | 2,361,462 | 41,601 | 258,189 | 753,356 | 575,079 | 712,350 | 20,887 | 87.2 | 30.4 | |
| Under 15 years | 2,132 | 1,724 | 363 | - | - | - | 45 | - | | |
| 15-19 years | 219,169 | 12,459 | 110,348 | 81,760 | 12,070 | - | 2,532 | 43.3 | | |
| 15 years | 7,767 | 2,560 | 5,043 | - | - | - | 164 | - | | |
| 16 years | 20,464 40,388 | 2,412 2,430 | 17,187 30,731 | 557 6,569 | - 152 | - | 308 506 | 2.8 16.9 | | |
| 17 years 18 years | 64.472 | 2,430 | 30,311 | 28,786 | 2,029 | - | 724 | 48.3 | | |
| 19 years | 86,078 | 2,435 | 27,076 | 45,848 | 9,889 | - | 830 | 65.4 | | |
| 20-24 years | 511,101 | 11,307 | 84,569 | 241,572 | 135,277 | 33,964 | 4,412 | 81.1 | 6.7 | |
| 25-29 years | 678,227 | 8,058 | 37,380 | 209,180 | 196,774 | 221,351 | 5,484 | 93.2 | 32.9 | |
| 30-34 years 35-39 years | 603,639 291,202 | 4,793 2,484 | 16,456 7,599 | 142,127 66,628 | 149,392 68,699 | 285,993 143,006 | 4,878 2,786 | 96.5 96.5 | 47.8 49.6 | |
| 40 years and over | 55,992 | 776 | 1,474 | 12,089 | 12,867 | 28,036 | 750 | 95.9 | 50.8 | |
| Black, total | | | | | | | | | | |
| All ages | 609,902 | 16,426 | 144,252 | 234,052 | 137,671 | 65,610 | 11,891 | 73.1 | 11.0 | |
| Under 15 years | 4,289 | 3,298 | 852 | - | - | - | 139 | - | | |
| 15-19 years | 126,937 | 5,922 | 70,819 | 41,239 | 6,634 | - | 2,323 | 38.4 | | |
| 15 years 16 years | 8,599 16,414 | 2,475 1,322 | 5,892 14,389 | 375 | - | - | 232 328 | 2.3 | | |
| 17 years | 25,090 | 826 | 19,769 | 3,972 | 70 | - | 453 | 16.4 | | |
| 18 years | 34,885 | 652 | 16,993 | 15,485 | 1,142 | - | 613 | 48.5 | | |
| 19 years | 41,949 | 647 | 13,776 | 21,407 | 5,422 | - | 697 | 65.0 | | |
| 20-24 years | 189,088 | 2,523 | 41,178 | 88,552 | 46,265 | 7,460 | 3,110 | 76.5 | 4.(| |
| 25-29 years | 139,302 | 1,886 | 17,136 | 53,834 | 41,968 | 21,789 | 2,689 | 86.1 | 15.9 | |
| 30-34 years | 93,785 46,657 | 1,540 937 | 8,881 4,361 | 32,149 15,182 | 27,356 12,899 | 21,691 12,101 | 2,168 1,177 | 88.6 88.4 | 23.7 26.6 | |
| 35-39 years | | | | | 12 099 | 12 101 | | | Zn r | |

See footnotes at end of table.

| Table 21. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of |)f |
|-----------------------------------------------------------------------------------------------------------------------------|----|
| school, by age and race of mother: United States, 1998 Con. | |

| | | | Year | s of school com | pleted by moth | er | | Percent | Percent |
|------------------------|---------|--------------|---------------|-----------------|----------------|---------------------|---------------|---------------------|---------------------|
| Age and race of mother | Total | 0-8 years | 9-11 years | 12 years | 13-15 years | 16 years or more | Not Stated | 12 years or more | 16 years or more |
| | | | | | | | | | |
| Black, non-Hispanic | | | | | | | | | |
| All ages | 593,127 | 15,218 | 140,374 | 228,391 | 134,525 | 64,117 | 10,502 | 73.3 | 11. |
| Under 15 years | 4,204 | 3,252 | 821 | - | - | - | 131 | - | |
| 15-19 years | 124,076 | 5,719 | 69,264 | 40,453 | 6,490 | - | 2,150 | 38.5 | |
| 15 years | 8,420 | 2,430 | 5,766 | - | - | - | 224 | - | |
| 16 years | 16,021 | 1,284 | 14,069 | 366 | - | - | 302 | 2.3 | |
| 17 years | 24,542 | 790 | 19,379 | 3,887 | 69 | - | 417 | 16.4 | |
| 18 years | 34,089 | 618 | 16,599 | 15,198 | 1,115 | - | 559 | 48.7 | |
| 19 years | 41,004 | 597 | 13,451 | 21,002 | 5,306 | - | 648 | 65.2 | |
| 20-24 years | 184,263 | 2,243 | 40,059 | 86,689 | 45,175 | 7,295 | 2,802 | 76.7 | 4. |
| 25-29 years | 135,158 | 1,580 | 16,512 | 52,377 | 40,978 | 21,331 | 2,380 | 86.4 | 16. |
| 30-34 years | 90.827 | 1,313 | 8,515 | 31,182 | 26,774 | 21,184 | 1,859 | 89.0 | 23. |
| 35-39 years | 45,096 | 825 | 4,221 | 14,677 | 12,614 | 11,800 | 959 | 88.6 | 26. |
| 40 years and over | 9,503 | 286 | 982 | 3,013 | 2,494 | 2,507 | 221 | 86.3 | 27. |
| Hispanic ² | | | | | | | | | |
| All ages | 734,661 | 152,984 | 201,439 | 215,440 | 98,754 | 50,546 | 15,498 | 50.7 | 7. |
| Under 15 years | 2,716 | 1,965 | 658 | - | - | - | 93 | - | |
| 15-19 years | 121,388 | 21,142 | 65,440 | 28,406 | 3,746 | - | 2,654 | 27.1 | |
| 15 years | 7,525 | 2,636 | 4,662 | - | · - | - | 227 | - | |
| 16 years | 16,079 | 3,083 | 12,293 | 300 | - | - | 403 | 1.9 | |
| 17 years | 24,630 | 3,855 | 17,093 | 3,062 | 72 | - | 548 | 13.0 | |
| 18 years | 33,400 | 5,138 | 16,406 | 10,411 | 787 | - | 658 | 34.2 | |
| 19 years | 39,754 | 6,430 | 14,986 | 14,633 | 2,887 | - | 818 | 45.0 | |
| 20-24 years | 223,113 | 43,717 | 63,536 | 75,949 | 30,602 | 4,576 | 4,733 | 50.9 | 2. |
| 25-29 years | 196,012 | 40,628 | 42,086 | 59,819 | 32,604 | 16,929 | 3,946 | 56.9 | 8. |
| 30-34 years | 125,702 | 27,431 | 20,975 | 34,858 | 21,424 | 18,395 | 2,619 | 60.7 | 14. |
| 35-39 years | 54,195 | 14,179 | 7,344 | 13,827 | 8,716 | 8,962 | 1,167 | 59.4 | 16. |
| 40 years and over | 11,535 | 3,922 | 1,400 | 2,581 | 1,662 | 1,684 | 286 | 52.7 | 15. |

Quantity zero.
 Includes races other than white and black.
 Includes all persons of Hispanic origin of any race.

Table 22. Number of live births and percent distribution by weight gain of mother during pregnancy and median weight gain, according to period of gestation, race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 1998

| | | | | | Wei | ght gain du | ring pregna | ancy | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------|
| Period of gestation ¹ and race and Hispanic origin of mother | All births | Less than 16 pounds | 16-20 pounds | 21-25 pounds | 26-30 pounds | 31-35 pounds | 36-40 pounds | 41-45 pounds | 46 pounds or more | Not stated | Median weight gain in pounds |
| | | | | | | Number | | | | | |
| All gestation periods ² All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴ | 3,419,892 2,694,068 2,184,576 573,157 557,845 486,807 | 354,491 253,864 196,210 85,827 84,284 55,677 | 336,238 253,423 198,566 66,653 65,085 53,310 | 440,076 348,561 285,431 69,930 68,039 60,739 | 576,052 465,053 386,210 84,121 81,938 74,897 | 441,365 364,338 308,247 57,884 55,963 53,141 | 400,595 327,116 275,964 57,185 55,533 48,671 | 213,799 175,901 149,549 29,928 28,913 25,008 | 373,720 298,892 254,242 62,858 61,001 42,808 | 283,556 206,920 130,157 58,771 57,089 72,556 | |
| Under 37 weeks | | | | | | | | | | | |
| All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴ | 401,538 284,427 224,932 100,650 98,630 57,708 | 62,946 39,268 29,822 21,260 20,977 9,229 | 48,966 33,173 25,814 13,657 13,414 7,192 | 52,014 37,681 30,596 11,977 11,696 6,923 | 59,305 43,571 35,505 13,199 12,952 7,852 | 40,435 30,906 25,633 7,912 7,700 5,096 | 36,469 27,531 22,788 7,574 7,403 4,612 | 19,149 14,817 12,436 3,644 3,544 2,307 | 36,846 27,776 23,499 8,006 7,846 4,116 | 45,408 29,704 18,839 13,421 13,098 10,381 | ···· ··· ··· ··· |
| 37-39 weeks All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴ | 1,622,245 1,279,913 1,039,733 266,817 259,796 230,166 | 163,251 118,355 91,688 37,768 37,097 25,782 | 162,370 123,042 96,713 31,190 30,445 25,622 | 217,188 172,202 141,199 33,795 32,919 29,906 | 283,205 228,694 190,070 40,755 39,699 36,665 | 213,809 176,009 148,951 28,166 27,240 25,707 | 190,026 154,523 130,203 27,387 26,605 23,264 | 99,326 81,340 69,040 14,190 13,746 11,779 | 167,109 132,978 113,047 28,596 27,743 19,250 | 125,961 92,770 58,822 24,970 24,302 32,191 | |
| 40 weeks and over | | | | | | | | | | | |
| All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴ | 1,383,990 1,122,104 914,798 203,526 197,365 196,895 | 127,260 95,655 74,310 26,513 25,935 20,497 | 124,279 96,846 75,794 21,666 21,088 20,383 | 169,808 138,094 113,221 24,013 23,286 23,727 | 232,633 192,209 160,194 30,025 29,150 30,252 | 186,445 157,010 133,355 21,715 20,934 22,235 | 173,521 144,715 122,700 22,119 21,423 20,720 | 95,036 79,554 67,934 12,046 11,576 10,869 | 169,207 137,788 117,438 26,157 25,317 19,344 | 105,801 80,233 49,852 19,272 18,656 28,868 | |
| | | | | | Perce | ent distribut | ion | | | | |
| All gestation periods ² All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴ | 100.0 100.0 100.0 100.0 100.0 100.0 | 11.3 10.2 9.6 16.7 16.8 13.4 | 10.7 10.2 9.7 13.0 13.0 12.9 | 14.0 14.0 13.9 13.6 13.6 14.7 | 18.4 18.7 18.8 16.4 16.4 18.1 | 14.1 14.6 15.0 11.3 11.2 12.8 | 12.8 13.2 13.4 11.1 11.1 11.7 | 6.8 7.1 7.3 5.8 5.8 6.0 | 11.9 12.0 12.4 12.2 12.2 10.3 | | 30.5 30.7 30.8 29.9 29.8 30.0 |
| Under 37 weeks All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic | 100.0 100.0 100.0 100.0 100.0 | 17.7 15.4 14.5 24.4 24.5 | 13.7 13.0 12.5 15.7 15.7 | 14.6 14.8 14.8 13.7 13.7 | 16.7 17.1 17.2 15.1 15.1 | 11.4 12.1 12.4 9.1 9.0 | 10.2 10.8 11.1 8.7 8.7 | 5.4 5.8 6.0 4.2 4.1 | 10.3 10.9 11.4 9.2 9.2 | | 27.9 29.0 29.8 25.4 25.4 |
| Hispanic ⁴ | 100.0 | 19.5 | 15.2 | 14.6 | 16.6 | 10.8 | 9.7 | 4.9 | 8.7 | | 26.3 |
| 37-39 weeks All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴ | 100.0 100.0 100.0 100.0 100.0 100.0 | 10.9 10.0 9.3 15.6 15.8 13.0 | 10.9 10.4 9.9 12.9 12.9 12.9 | 14.5 14.5 14.4 14.0 14.0 15.1 | 18.9 19.3 19.4 16.9 16.9 18.5 | 14.3 14.8 15.2 11.6 11.6 13.0 | 12.7 13.0 13.3 11.3 11.3 11.8 | 6.6 6.9 7.0 5.9 5.8 5.8 | 11.2 11.2 11.5 11.8 11.8 9.7 | | 30.5 30.6 30.7 30.0 30.0 29.9 |
| 40 weeks and over All races ³ | 100.0 100.0 100.0 100.0 100.0 100.0 | 10.0 9.2 8.6 14.4 14.5 12.2 | 9.7 9.3 8.8 11.8 11.8 12.1 | 13.3 13.3 13.1 13.0 13.0 14.1 | 18.2 18.4 18.5 16.3 16.3 18.0 | 14.6 15.1 15.4 11.8 11.7 13.2 | 13.6 13.9 14.2 12.0 12.0 12.3 | 7.4 7.6 7.9 6.5 6.5 6.5 | 13.2 13.2 13.6 14.2 14.2 11.5 | | 30.9 31.0 31.6 30.4 30.4 30.3 |

Category not applicable.
 Expressed in completed weeks.
 Includes births with period of gestation not stated.
 Includes races other than white and black and origin not stated.
 Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

Table 23. Percent low birthweight by weight gain of mother during pregnancy, period of gestation, and race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 1998

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

| Period of gestation ¹ | | | | | Weight | gain during pr | egnancy | | | |
|-------------------------------------------|-------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|---------------|
| and race and Hispanic origin of mother | Total | Less than 16 pounds | 16-20 pounds | 21-25 pounds | 26-30 pounds | 31-35 pounds | 36-40 pounds | 41-45 pounds | 46 pounds or more | Not stated |
| All gestation periods ² | | | | | | | | | | |
| All races ³ | 7.8 | 14.2 | 10.7 | 7.9 | 6.3 | 5.4 | 5.1 | 5.1 | 5.4 | 11.8 |
| White, total | 6.7 | 11.9 | 9.2 | 7.0 | 5.5 | 4.8 | 4.6 | 4.6 | 5.0 | 9.9 |
| White, non-Hispanic | 6.6 | 12.1 | 9.4 | 7.0 | 5.5 | 4.8 | 4.5 | 4.7 | 5.0 | 10.6 |
| Black, total | 13.1 | 21.4 | 16.4 | 12.9 | 10.8 | 9.1 | 8.2 | 7.7 | 7.3 | 18.8 |
| Black, non-Hispanic | 13.3 | 21.4 | 16.5 | 13.0 | 10.9 | 9.2 | 8.3 | 7.8 | 7.4 | 18.9 |
| | | | | | | | | | | |
| lispanic, total ⁴ | 6.9 | 11.3 | 8.6 | 6.6 | 5.7 | 4.8 | 4.8 | 4.4 | 4.7 | 8.7 |
| Mexican ⁴ | 6.3 | 10.1 | 7.4 | 6.0 | 5.1 | 4.2 | 4.3 | 4.0 | 4.3 | 8.0 |
| Puerto Rican ⁴ | 9.7 | 17.0 | 13.1 | 9.3 | 8.4 | 7.3 | 6.7 | 5.7 | 5.8 | 15.4 |
| Cuban ⁴ | 6.4 | 12.1 | 11.2 | 6.3 | 5.8 | 4.3 | 4.4 | 5.7 | 4.8 | 11.0 |
| Central and South American ⁴ | 6.5 | 11.4 | 8.8 | 6.3 | 5.3 | 5.0 | 4.7 | 4.1 | 4.9 | 8.3 |
| Other and unknown Hispanic 4 | 7.8 | 12.9 | 10.9 | 7.8 | 6.7 | 5.0 | 4.8 | 4.8 | 4.7 | 11.0 |
| Under 37 weeks | | | | | | | | | | |
| All races ³ | 44.0 | 57.4 | 49.1 | 42.7 | 38.6 | 36.3 | 34.9 | 35.8 | 35.7 | 52.9 |
| Vhite, total | 41.9 | 54.6 | 47.3 | 41.1 | 37.4 | 35.4 | 34.2 | 35.4 | 35.7 | 50.2 |
| White, non-Hispanic | 43.1 | 56.6 | 49.1 | 42.5 | 38.4 | 36.4 | 35.2 | 36.2 | 36.7 | 54.5 |
| Black, total | 50.3 | 63.3 | 54.0 | 48.3 | 43.0 | 40.6 | 37.8 | 38.3 | 36.1 | 59.7 |
| Black, non-Hispanic | 50.4 | 63.4 | 54.1 | 48.5 | 43.1 | 40.0 | 37.8 | 38.5 | 36.2 | 59.7 |
| | | | | | | | | | | |
| lispanic 4 | 37.1 | 47.8 | 40.8 | 34.7 | 32.6 | 30.0 | 29.4 | 29.7 | 29.5 | 41.9 |
| 37-39 weeks | | | | | | | | | | |
| All races ³ | 4.2 | 6.6 | 5.6 | 4.5 | 3.7 | 3.2 | 3.1 | 3.1 | 3.2 | 5.2 |
| Vhite, total | 3.6 | 5.6 | 4.8 | 3.9 | 3.1 | 2.8 | 2.8 | 2.8 | 2.9 | 4.3 |
| White, non-Hispanic | 3.5 | 5.7 | 4.8 | 3.9 | 3.1 | 2.8 | 2.7 | 2.8 | 2.8 | 4.4 |
| Black, total | 6.9 | 9.7 | 8.4 | 7.1 | 6.3 | 5.5 | 4.9 | 4.9 | 4.5 | 8.4 |
| Black, non-Hispanic | 6.9 | 9.7 | 8.5 | 7.2 | 6.4 | 5.6 | 5.0 | 5.0 | 4.5 | 8.5 |
| lispanic ⁴ | 3.9 | 5.6 | 4.9 | 4.1 | 3.5 | 3.0 | 3.1 | 2.7 | 3.1 | 4.3 |
| • | 0.0 | 0.0 | 4.5 | 7.1 | 0.0 | 0.0 | 0.1 | 2.1 | 0.1 | 4.0 |
| 40 weeks and over | | | | | | | | | | |
| Il races ³ | 1.5 | 2.7 | 2.2 | 1.7 | 1.4 | 1.1 | 1.0 | 0.9 | 1.0 | 1.9 |
| Vhite, total | 1.2 | 2.2 | 1.8 | 1.4 | 1.1 | 0.9 | 0.8 | 0.8 | 0.9 | 1.5 |
| White, non-Hispanic | 1.2 | 2.2 | 1.8 | 1.4 | 1.1 | 0.9 | 0.8 | 0.8 | 0.8 | 1.4 |
| Black, total | 3.0 | 4.6 | 4.1 | 3.3 | 2.8 | 2.2 | 2.1 | 1.7 | 1.6 | 3.7 |
| Black, non-Hispanic | 3.0 | 4.6 | 4.1 | 3.3 | 2.8 | 2.3 | 2.1 | 1.8 | 1.6 | 3.8 |
| Hispanic ⁴ | 1.5 | 2.2 | 1.9 | 1.6 | 1.3 | 1.2 | 1.2 | 0.9 | 1.0 | 1.7 |
| lispanic · | 1.5 | 2.2 | 1.3 | 1.0 | 1.5 | 1.4 | 1.4 | 0.9 | 1.0 | 1.7 |

Expressed in completed weeks.
 Includes births with period of gestation not stated.
 Includes races other than white and black and origin not stated.
 Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

Table 24. Percent of births with selected medical or health characteristics, by specified race of mother, by place of birth of mother: United States, 1998 .

| All Births Mother enatal care beginning in the first trimester te or no prenatal care noker ² | <i>races</i> 82.8 | White | Black | Indian ¹ | Total | Chinese | Japanese | Hawaiian | Filipino | Othe |
|-------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|----------------|---------------------|---------------|---------------|----------------|-----------------|--------------|----------|
| Mother enatal care beginning in the first trimester te or no prenatal care noker 2 | 82.8 | | | | | | | | | |
| enatal care beginning in the first trimester te or no prenatal care noker ² | 82.8 | | | | | | | | | |
| trimester te or no prenatal care noker ² | 82.8 | | | | | | | | | |
| ite or no prenatal care noker ² | 02.0 | 84.8 | 73.3 | 68.8 | 83.1 | 88.5 | 90.2 | 78.8 | 84.2 | 80. |
| noker ² | 3.9 | 3.3 | 7.0 | 8.5 | 3.6 | 2.2 | 2.1 | 4.7 | 3.1 | 4 |
| inker ³ | 12.9 | 14.0 | 9.5 | 20.2 | 3.1 | 0.8 | 4.8 | 16.8 | 3.3 | 2 |
| | 1.1 | 1.0 | 1.4 | 3.2 | 0.4 | 0.2 | 0.9 | 1.4 | 0.4 | 0 |
| eight gain of less than 16 lbs 4 | 11.3 | 10.2 | 16.7 | 15.3 | 9.6 | 5.9 | 11.0 | 9.8 | 7.9 | 10 |
| edian weight gain ⁴ esarean delivery rate | 30.5 21.2 | 30.7 21.0 | 29.9 22.4 | 30.2 18.6 | 30.1 19.4 | 30.4 19.3 | 26.0 15.6 | 31.9 16.2 | 30.5 22.8 | 29 18 |
| - | 21.2 | 21.0 | 22.4 | 10.0 | 19.4 | 19.5 | 15.0 | 10.2 | 22.0 | 10 |
| Infant | | | | | | | | | | |
| eterm births ⁵ | 11.6 | 10.5 | 17.5 | 12.2 | 10.4 | 7.6 | 8.7 | 12.0 | 11.8 | 10 |
| /erv low birthweight ⁶ | 1.4 | 1.1 | 3.1 | 1.2 | 1.1 | 0.7 | 0.8 | 1.5 | 1.3 | 1 |
| ow birthweight 7 | 7.6 | 6.5 | 13.0 | 6.8 | 7.4 | 5.3 | 7.5 | 7.2 | 8.2 | 7. |
| 4,000 grams or more ⁸ minute Apgar score of less than 7 ⁹ | 10.1 1.4 | 11.2 | 5.4 | 12.4 | 5.9 | 6.3 | 4.7 | 9.5 | 6.1 | 5 1 |
| 10 | 1.4 | 1.2 | 2.4 | 1.4 | 1.1 | 0.7 | 0.7 | 1.3 | 1.2 | 1 |
| Births to mothers born in the 50 States and D.C. Mother | | | | | | | | | | |
| enatal care beginning in the first | | | | | | | | | | |
| trimester | 84.2 | 86.8 | 73.0 | 68.7 | 82.4 | 91.4 | 91.8 | 78.8 4.7 | 81.6 | 79 5 |
| ite or no prenatal care noker ² | 3.4 14.9 | 2.6 15.8 | 7.0 10.4 | 8.5 20.9 | 3.9 10.7 | 1.4 5.9 | 1.6 7.5 | 4.7 | 3.8 8.4 | с 8 |
| inker ³ | 1.2 | 1.1 | 1.5 | 3.3 | 1.0 | * | * | 1.4 | 0.9 | 0 |
| eight gain of less than 16 lbs 4 | 11.1 | 9.8 | 17.1 | 15.5 | 8.5 | 6.7 | 9.5 | 9.7 | 7.8 | 7 |
| edian weight gain ⁴ | 30.6 | 30.8 | 29.9 | 30.2 | 30.7 | 30.3 | 27.7 | 31.8 | 30.8 | 30 |
| esarean delivery rate | 21.3 | 21.2 | 22.1 | 18.6 | 16.8 | 16.9 | 18.4 | 16.2 | 16.4 | 16 |
| Infant | | | | | | | | | | |
| eterm births ⁵ | 11.8 | 10.5 | 17.9 | 12.2 | 11.2 | 9.5 | 10.6 | 12.1 | 11.5 | 11 |
| /ery low birthweight ⁶ | 1.5 | 1.2 | 3.1 | 1.2 | 1.3 | 0.9 | 1.1 | 1.5 | 1.4 | 1 |
| ow birthweight 7 | 7.8 | 6.6 | 13.4 | 6.8 | 7.7 | 7.6 | 8.0 | 7.2 | 8.4 | 7 |
| ,000 grams or more ⁸ | 10.3 | 11.4 | 5.0 | 12.6 | 7.5 | 6.3 | 5.7 | 9.5 | 6.4 | 8 |
| minute Apgar score of less than 7 9 | 1.5 | 1.3 | 2.4 | 1.4 | 1.3 | * | 1.0 | 1.4 | 1.1 | 1 |
| Births to mothers orn outside the 50 Sates and D.C. Mother | | | | | | | | | | |
| enatal care beginning in the first | | | | | | | | | | |
| trimester | 77.1 | 75.7 6.3 | 76.2 | 71.4 | 83.3 3.5 | 88.3 | 88.9 2.5 | 77.4 | 84.8 | 81 |
| noker ² | 5.8 2.6 | 6.3 3.0 | 6.4 1.8 | 9.9 5.3 | 3.5 1.6 | 2.2 0.4 | 2.5 2.8 | * | 2.9 2.0 | 4 |
| inker ³ | 0.5 | 0.5 | 0.4 | * | 0.3 | * | 1.0 | * | 0.2 | 0 |
| eight gain of less than 16 lbs 4 | 12.2 | 12.7 | 13.5 | 11.8 | 9.8 | 5.8 | 12.0 | * | 7.9 | 11 |
| edian weight gain ⁴ | 30.0 | 29.9 | 30.1 | 30.1 | 29.9 | 30.4 | 25.6 | 33.0 | 30.4 | 29 |
| esarean delivery rate | 20.6 | 20.2 | 24.7 | 18.7 | 19.9 | 19.6 | 13.7 | 17.4 | 24.4 | 19 |
| Infant | | | | | | | | | | |
| eterm births ⁵ | 10.8 | 10.6 | 13.9 | 12.1 | 10.2 | 7.4 | 7.3 | * | 11.9 | 10 |
| /erv low birthweight ⁶ | 1.2 | 1.0 | 2.6 | 1.4 | 1.1 | 0.7 | 0.7 | * | 1.3 | 1 |
| /ery low birthweight ⁶ .ow birthweight ⁷ | 6.5 | 5.9 | 9.6 | 7.3 | 7.3 | 5.1 | 7.1 | * | 8.2 | 7. |
| ,000 grams or more ° | 9.0 | 10.0 | 8.4 | 8.0 | 5.6 | 6.3 | 4.0 | * | 6.0 | 5 |
| minute Apgar score of less than 7 9 | 1.2 | 1.1 | 1.9 | * | 1.0 | 0.6 | * | * | 1.2 | 1 |
| Figure does not most standards of self-tilles | r progiciana ba | and on former th | 20 binte ' | n the numerol | or donom'r | ator | | | | |
| Figure does not meet standards of reliability of Includes births to Aleuts and Eskimos. | | | | | | | | | | |
| Excludes data for California, Indiana, New Yor Excludes data for California and South Dakota | k State (but in | cludes New Yor | k City), and S | outh Dakota, wh | ich did not i | eport tobacco | use on the bir | th certificate. | | |

Born prior to 37 complete Birthweight of less than 1,500 grams (3 lb 4 oz).
Birthweight of less than 2,500 grams (5 lb 8 oz).
Equivalent to 8 lb 14 oz.
Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate. NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes. Table 25. Percent of births with selected medical or health characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 1998

| | | | | | | Origin of mot | her | | | |
|---------------------------------------------------------------------------------------|-----------------------------|--------------|--------------|-----------------|--------------|----------------------------------|----------------------------------|--------------------|--------------|------------|
| | | | | Hisp | oanic | | | / | lon-Hispani | с |
| Characteristic | All origins ¹ | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ² | White | Black |
| All Births | | | | | | | | | | |
| Mother | | | | | | | | | | |
| Prenatal care beginning in the first | | 74.0 | 70.0 | 70.0 | | 70.0 | 74.0 | | 07.0 | 70 (|
| trimester | 82.8 | 74.3 6.3 | 72.8 6.8 | 76.9 5.1 | 91.8 1.2 | 78.0 4.9 | 74.8 6.0 | 84.8 3.4 | 87.9 2.4 | 73.: 7. |
| Late or no prenatal care Smoker ³ | 3.9 12.9 | 4.0 | 2.8 | 10.7 | 3.7 | 4.9 | 8.0 | 3.4 14.4 | 16.2 | 9.0 |
| Drinker ⁴ | 1.1 | 0.6 | 0.5 | 0.9 | 0.5 | 0.4 | 1.3 | 1.2 | 1.1 | 1.4 |
| Weight gain of less than 16 lbs 5 | 11.3 | 13.4 | 14.7 | 12.7 | 7.8 | 11.1 | 12.0 | 11.0 | 9.6 | 16. |
| Median weight gain ⁵ | 30.5 | 30.0 | 28.6 | 30.5 | 32.2 | 30.3 | 30.4 | 30.6 | 30.8 | 29. |
| Cesarean delivery rate | 21.2 | 20.6 | 20.0 | 21.1 | 31.0 | 22.2 | 19.8 | 21.3 | 21.2 | 22. |
| | | | | | | | | | | |
| Infant | | | | | | | | | | |
| Preterm births ⁶ | 11.6 | 11.4 | 11.0 | 13.9 | 11.4 | 11.6 | 12.1 | 11.6 | 10.2 | 17. |
| Birthweight | | | 4.0 | 4.0 | 4.0 | 4.0 | | 4 5 | | ~ |
| Very low birthweight ⁷ | 1.4 | 1.1 | 1.0 | 1.9 | 1.3 | 1.2 | 1.4 | 1.5 | 1.1 | 3. |
| Low birthweight ⁸ | 7.6 | 6.4 | 6.0 | 9.7 | 6.5 | 6.5 | 7.6 | 7.8 | 6.6 | 13. |
| 4,000 grams or more ⁹ i-minute Apgar score of less than 7 ¹⁰ | 10.1 1.4 | 9.0 1.2 | 9.3 1.2 | 7.1 1.4 | 10.0 0.7 | 9.1 1.0 | 7.7 1.2 | 10.3 1.5 | 11.8 1.3 | 5. 2. |
| Births to mothers born in the 50 States and D.C. Mother | | | | | | | | | | |
| Prenatal care beginning in the first | | | | | | | | | | |
| trimester | 84.2 | 76.4 | 76.0 | 76.8 | 91.5 | 81.7 | 75.0 | 85.0 | 88.1 | 73. |
| ate or no prenatal care | 3.4 | 5.1 | 5.2 | 5.0 | 1.4 | 3.5 | 5.9 | 3.3 | 2.3 | 7. |
| Smoker ³ | 14.9 | 7.1 | 5.4 | 12.1 | 5.1 | 4.7 | 10.0 | 15.5 | 16.7 | 10. |
| Drinker ⁴ | 1.2 | 1.0 | 0.9 | 0.9 | 0.7 | 0.7 | 1.6 | 1.2 | 1.1 | 1. |
| Veight gain of less than 16 lbs 5 | 11.1 | 12.4 | 12.9 | 12.1 | 7.8 | 8.2 | 12.3 | 11.0 | 9.6 | 17. |
| Median weight gain ⁵ | 30.6 | 30.0 | 28.6 | 30.5 | 32.2 | 30.3 | 30.4 | 30.6 | 30.8 | 29. |
| Cesarean delivery rate | 21.3 | 20.7 | 20.7 | 20.8 | 27.0 | 20.5 | 19.6 | 21.4 | 21.3 | 22. |
| Infant | | | | | | | | | | |
| Preterm births ⁶ | 11.8 | 12.1 | 11.7 | 13.6 | 11.3 | 11.4 | 12.6 | 11.7 | 10.3 | 17. |
| Birthweight Very low birthweight ⁷ | 1.5 | 1.3 | 1.2 | 1.8 | 1.3 | 1.4 | 1.4 | 1.5 | 1.1 | 3. |
| Low birthweight ⁸ | 7.8 | 7.2 | 6.7 | 9.7 | 7.0 | 7.1 | 8.1 | 7.9 | 6.6 | 13. |
| 4,000 grams or more ⁹ | 10.3 | 8.1 | 8.4 | 7.2 | 8.9 | 8.4 | 7.1 | 10.5 | 11.9 | 5 |
| -minute Apgar score of less than 7 ¹⁰ | 1.5 | 1.3 | 1.2 | 1.4 | 0.8 | 1.1 | 1.3 | 1.5 | 1.3 | 2 |
| Births to mothers born outside the 50 States and D.C. Mother | | | | | | | | | | |
| Prenatal care beginning in the first | | | | | | | | | | |
| trimester | 77.1 | 72.9 | 70.7 | 77.2 | 92.0 | 77.6 | 74.7 | 83.0 | 85.5 | 76. |
| ate or no prenatal care | 5.8 | 7.0 | 7.9 | 5.1 | 1.2 | 5.0 | 5.9 | 4.0 | 3.5 | 6. |
| Smoker ³ | 2.6 | 1.6 | 0.9 | 8.3 | 2.8 | 1.2 | 1.9 | 3.8 | 6.9 | 1. |
| Drinker ⁴ | 0.5 | 0.3 | 0.3 | 0.9 | 0.3 | 0.3 | 0.5 | 0.6 | 1.0 | 0. |
| Veight gain of less than 16 lbs ⁵ | 12.2 | 14.3 | 16.2 | 13.7 | 7.8 | 11.5 | 11.0 | 10.1 | 8.5 | 13. |
| Cesarean delivery rate | 30.0 20.6 | 28.5 20.5 | 26.9 19.6 | 30.2 21.8 | 32.2 33.7 | 30.2 22.4 | 30.2 20.5 | 30.3 20.7 | 30.7 19.7 | 29. 24. |
| Infant | | | | | | | | | | |
| Preterm births ⁶ | 10.8 | 11.0 | 10.6 | 14.5 | 11.5 | 11.7 | 10.3 | 10.5 | 9.2 | 14. |
| Birthweight | 4.0 | | | | | | 4.0 | | | ~ |
| Very low birthweight ⁷ | 1.2 | 1.0 | 0.9 | 1.9 | 1.3 | 1.2 | 1.0 | 1.4 | 1.1 | 2. |
| Low birthweight ⁸ 4,000 grams or more ⁹ | 6.5 | 5.9 | 5.5 | 9.6 | 6.1 | 6.4 | 5.9 | 7.3 | 6.0 | 9. |
| 5-minute Apgar score of less than 7 ¹⁰ | 9.0 1.2 | 9.7 1.1 | 10.0 1.1 | 6.9 1.5 | 10.8 0.7 | 9.2 1.0 | 9.4 0.8 | 8.1 1.2 | 11.2 1.0 | 8. 2. |

Includes origin not stated.
 Includes races other than white and black.
 Excludes data for California, Indiana, New York State (but includes New York City), and South Dakota, which did not report tobacco use on the birth certificate.
 Excludes data for California and South Dakota, which did not report alcohol use on the birth certificate.
 Excludes data for California, which did not report weight gain on the birth certificate.
 Born prior to 37 completed weeks of gestation.
 Birthweight of less than 1,500 grams (3 lb 4 oz).
 Birthweight of less than 2,500 grams (5 lb 8 oz).
 Equivalent to 8 lb 14 oz.
 Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 26. Live births to mothers with selected medical risk factors and rates by age of mother, by race of mother: United States, 1998

[Rates are number of live births with specified medical risk factor per 1,000 live births in specified group]

| | | Medical | | | ŀ | Age of mothe | ər | | | |
|-------------------------------------------------------------|----------------------------|-------------------------|-------------|-------------------|----------------|----------------|----------------|----------------|----------------|------------------|
| Medical risk factor and race of mother | All births ¹ | risk factor reported | All ages | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years | Not stated |
| All races ² | | | | | | | | | | |
| Anemia | 3,941,553 | 84,795 | 21.8 | 30.6 | 26.3 | 19.8 | 17.3 | 16.9 | 17.6 | 54,872 |
| Cardiac disease | 3,941,553 | 20,528 | 5.3 | 2.9 | 3.6 | 5.2 | 6.9 | 8.1 | 9.0 | 54,872 |
| Acute or chronic lung disease | 3,941,553 | 40,190 | 10.3 | 13.3 | 11.4 | 9.4 | 9.1 | 9.3 | 10.4 | 54,872 |
| Diabetes | 3,941,553 | 103,691 | 26.7 | 8.2 | 16.0 | 26.2 | 35.5 | 47.4 | 65.7 | 54,872 |
| Genital herpes ³ | 3,599,270 | 32,969 | 9.3 | 6.4 | 8.3 | 9.0 | 10.5 | 12.3 | 12.1 | 53,169 |
| Hydramnios/Oligohydramnios | 3,941,553 | 51,296 | 13.2 | 14.5 | 13.5 | 12.4 | 12.4 | 14.0 | 17.3 | 54,872 |
| Hemoglobinopathy | 3,941,553 3,941,553 | 3,202 27,442 | 0.8 7.1 | 1.0 2.4 | 1.0 4.2 | 0.7 6.3 | 0.7 8.9 | 0.7 13.6 | 0.9 24.8 | 54,872 54,872 |
| Hypertension, chronic Hypertension, pregnancy-associated | 3,941,553 | 146,320 | 37.6 | 43.4 | 4.2 37.6 | 36.8 | 8.9 34.5 | 38.0 | 24.0 48.0 | 54,872 |
| Eclampsia | 3,941,553 | 12,345 | 37.0 | 43.4 | 37.0 | 2.9 | 2.6 | 3.0 | 40.0 | 54.872 |
| Incompetent cervix | 3,941,553 | 10,704 | 2.8 | 1.2 | 2.0 | 2.8 | 3.5 | 4.3 | 4.6 | 54,872 |
| Previous infant 4000+ grams | 3,941,553 | 42,802 | 11.0 | 1.4 | 6.3 | 11.3 | 16.2 | 19.1 | 22.2 | 54,872 |
| Previous preterm or small-for- | 3,8,500 | ,002 | | | 0.0 | | | | | 0.,01L |
| gestational-age infant | 3,941,553 | 47,429 | 12.2 | 4.9 | 12.5 | 12.6 | 13.6 | 15.2 | 15.9 | 54,872 |
| Renal disease | 3,941,553 | 11,141 | 2.9 | 3.0 | 3.1 | 2.9 | 2.7 | 2.4 | 2.5 | 54,872 |
| Rh sensitization ⁴ | 3,903,131 | 25,783 | 6.7 | 5.3 | 6.1 | 6.9 | 7.5 | 7.6 | 6.8 | 56,374 |
| Uterine bleeding ³ | 3,599,270 | 23,241 | 6.6 | 4.8 | 5.8 | 6.7 | 7.2 | 8.0 | 9.4 | 53,169 |
| White | | | | | | | | | | |
| Anemia | 3,118,727 | 59,071 | 19.2 | 27.1 | 22.6 | 17.7 | 15.9 | 15.5 | 16.2 | 42,643 |
| Cardiac disease | 3,118,727 | 17,262 | 5.6 | 2.9 | 3.6 | 5.4 | 7.4 | 8.5 | 9.6 | 42,643 |
| Acute or chronic lung disease | 3,118,727 | 30,483 | 9.9 | 12.3 | 10.6 | 9.2 | 9.2 | 9.2 | 10.3 | 42,643 |
| Diabetes | 3,118,727 | 79,560 | 25.9 | 8.5 | 15.9 | 25.1 | 33.2 | 43.8 | 60.8 | 42,643 |
| Genital herpes ³ | 2,826,910 | 25,912 | 9.3 | 5.6 | 7.4 | 8.8 | 11.0 | 13.4 | 13.9 | 41,352 |
| Hydramnios/Oligohydramnios | 3,118,727 3.118,727 | 38,537 | 12.5 0.4 | 13.3 0.2 | 12.9 0.4 | 11.9 0.4 | 11.8 0.4 | 13.3 0.5 | 16.6 0.5 | 42,643 42.643 |
| Hemoglobinopathy Hypertension, chronic | 3,118,727 | 1,181 18,798 | 0.4 6.1 | 2.0 | 0.4 3.7 | 0.4 5.5 | 0.4 7.5 | 11.0 | 19.8 | 42,643 |
| Hypertension, pregnancy-associated | 3,118,727 | 116,590 | 37.9 | 43.1 | 38.5 | 37.7 | 34.6 | 37.5 | 46.8 | 42,643 |
| Eclampsia | 3,118,727 | 9,206 | 3.0 | 4.0 | 3.2 | 2.8 | 2.6 | 2.8 | 3.8 | 42,643 |
| Incompetent cervix | 3.118.727 | 7,418 | 2.4 | 1.2 | 1.6 | 2.3 | 3.0 | 3.9 | 4.7 | 42.643 |
| Previous infant 4000+ grams | 3,118,727 | 38,267 | 12.4 | 1.5 | 7.0 | 12.4 | 17.7 | 21.0 | 25.2 | 42,643 |
| Previous preterm or small-for- | | , | | | | | | | | , |
| gestational-age infant | 3,118,727 | 36,471 | 11.9 | 4.4 | 11.9 | 12.2 | 13.1 | 14.9 | 15.9 | 42,643 |
| Renal disease | 3,118,727 | 9,351 | 3.0 | 3.4 | 3.3 | 3.1 | 2.9 | 2.6 | 2.6 | 42,643 |
| Rh sensitization ⁴ | 3,084,431 | 23,264 | 7.7 | 6.3 | 6.9 | 7.8 | 8.4 | 8.5 | 7.8 | 43,982 |
| Uterine bleeding ³ | 2,826,910 | 19,242 | 6.9 | 5.1 | 6.1 | 7.0 | 7.5 | 8.2 | 9.7 | 41,352 |
| Black | | | | | | | | | | |
| Anemia | 609,902 | 20,792 | 34.4 | 38.1 | 38.9 | 32.6 | 27.6 | 27.1 | 25.9 | 6,330 |
| Cardiac disease | 609,902 | 2,617 | 4.3 | 2.9 | 3.7 | 4.7 | 5.5 | 6.9 | 8.4 | 6,330 |
| Acute or chronic lung disease | 609,902 | 8,414 | 13.9 | 16.0 | 15.0 | 12.8 | 11.6 | 12.0 | 12.9 | 6,330 |
| Diabetes | 609,902 | 15,146 | 25.1 | 7.1 | 14.9 | 28.4 | 43.7 | 58.3 | 77.7 | 6,330 |
| Genital herpes ³ | 569,690 | 6,205 | 11.0 | 8.7 | 12.4 | 12.7 | 10.8 | 8.5 | 6.0 | 6,024 |
| Hydramnios/Oligohydramnios | 609,902 | 10,105 1,886 | 16.7 | 17.8 | 15.6 | 15.6 | 17.5 2.9 | 19.1 2.4 | 22.9 | 6,330 6,330 |
| Hemoglobinopathy Hypertension, chronic | 609,902 609,902 | 7,579 | 3.1 12.6 | 3.1 3.4 | 3.4 6.2 | 3.1 12.4 | 2.9 21.5 | 2.4 36.0 | 3.6 63.1 | 6,330 |
| Hypertension, pregnancy-associated | 609,902 | 24.500 | 40.6 | 3.4 45.0 | 6.2 36.2 | 38.4 | 21.5 41.2 | 36.0 48.0 | 57.7 | 6,330 |
| Eclampsia | 609,902 | 2,602 | 40.0 | 43.0 5.4 | 30.2 | 4.0 | 3.8 | 40.0 | 7.1 | 6,330 |
| Incompetent cervix | 609,902 | 2,869 | 4.8 | 1.5 | 3.4 | 6.3 | 7.8 | 8.3 | 5.7 | 6,330 |
| Previous infant 4000+ grams | 609,902 | 2,951 | 4.9 | 1.1 | 3.5 | 6.3 | 8.2 | 9.3 | 8.9 | 6,330 |
| Previous preterm or small-for- | 609,902 | 9,052 | 15.0 | 6.3 | 15.7 | 17.4 | 19.4 | 19.8 | 17 6 | 6 000 |
| gestational-age infant Renal disease | 609,902 609,902 | 9,052 | 2.2 | 6.3 2.2 | 2.4 | 2.3 | 2.1 | 19.8 | 17.6 | 6,330 6,330 |
| Rh sensitization ⁴ | 607,113 | 2,122 | 3.5 | 3.0 | 2.4 3.6 | 2.5 | 3.8 | 3.7 | 3.8 | 6,474 |
| Uterine bleeding ³ | 569,690 | 2,852 | 5.1 | 4.0 | 4.6 | 5.3 | 6.0 | 6.9 | 6.8 | 6,024 |
| | 000,000 | 2,002 | 0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0,021 |

Total number of births to residents of areas reporting specified medical risk factor.
 Includes races other than white and black.
 Texas does not report this risk factor.
 Kansas does not report this risk factor.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 27. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by specified race of mother: United States, 1998

[Rates are number of live births with specified risk factors, complications, or procedures per 1,000 live births in specified group]

| Medical risk factor, | | | | American | | | Asian or Pac | ific Islander | | |
|------------------------------------------|--------------|--------------|--------------|---------------------|--------------|-------------|--------------|---------------|--------------|--------------|
| complication, and obstetric procedure | All races | White | Black | Indian ¹ | Total | Chinese | Japanese | Hawaiian | Filipino | Other |
| | | | | | Num | iber | | | | |
| Medical risk factors | | | | | | | | | | |
| Anemia | 84,795 | 59.071 | 20,792 | 1.940 | 2,992 | 265 | 139 | 205 | 453 | 1,930 |
| Diabetes | 103,691 | 79,560 | 15,146 | 1,885 | 7,100 | 1,228 | 239 | 178 | 1,327 | 4,12 |
| Hypertension, pregnancy-associated | 146,320 | 116,590 | 24,500 | 1,819 | 3,411 | 393 | 144 | 156 | 935 | 1,78 |
| Uterine bleeding ² | 23,241 | 19,242 | 2,852 | 279 | 868 | 120 | 69 | 61 | 157 | 46 |
| Complications of labor and/or delivery | | | | | | | | | | |
| Meconium,moderate/heavy | 214,627 | 156,452 | 46,722 | 2,217 | 9,236 | 1,449 | 336 | 301 | 1,822 | 5,328 |
| Premature rupture of membrane | 104,453 | 79,701 | 18,944 | 1,507 | 4,301 | 610 | 248 | 190 | 747 | 2,50 |
| Dysfunctional labor | 106,709 | 85,116 | 15,677 | 1,343 | 4,573 | 784 | 260 | 189 | 844 | 2,496 |
| Breech/Malpresentation | 150,685 | 125,303 | 18,239 | 1,372 | 5,771 | 960 | 320 | 200 | 1,036 | 3,25 |
| Cephalopelvic disproportion | 75,406 | 61,677 | 9,231 | 663 | 3,835 | 643 | 158 | 97 | 826 | 2,11 |
| Fetal distress ³ | 140,844 | 104,826 | 29,165 | 1,372 | 5,481 | 851 | 192 | 126 | 972 | 3,34 |
| Obstetric procedures | | | | | | | | | | |
| Amniocentesis | 112,778 | 95,579 | 9,998 | 656 | 6,545 | 1,970 | 701 | 158 | 1,075 | 2,64 |
| Electronic fetal monitoring | 3,278,992 | 2,603,263 | 509,250 | 32,072 | 134,407 | 21,919 | 6,652 | 4,350 | 23,928 | 77,558 |
| Induction of labor | 751,389 | 630,676 | 91,037 | 7,620 | 22,056 | 3,415 | 1,203 | 772 | 3,440 | 13,220 |
| Ultrasound | 2,538,927 | 2,052,224 | 359,350 | 23,269 | 104,084 | 17,822 | 5,594 | 3,362 | 18,565 | 58,74 |
| Stimulation of labor | 694,303 | 560,376 | 98,086 | 6,140 | 29,701 | 5,261 | 1,403 | 595 | 4,594 | 17,848 |
| | | | | | Ra | te | | | | |
| Medical risk factors | | | | | | | | | | |
| Anomia | 04.0 | 10.0 | 24.4 | 40.0 | 17.0 | 0.0 | 10.0 | 20.0 | 15.0 | 20.0 |
| Anemia Diabetes | 21.8 26.7 | 19.2 25.9 | 34.4 25.1 | 49.9 48.5 | 17.8 42.2 | 9.6 44.3 | 16.8 28.9 | 38.9 33.7 | 15.0 43.9 | 20.0 42.7 |
| Hypertension, pregnancy-associated | 37.6 | 37.9 | 40.6 | 46.8 | 20.3 | 14.2 | 17.4 | 29.6 | 30.9 | 18.5 |
| Uterine bleeding ² | 6.6 | 6.9 | 5.1 | 7.3 | 5.5 | 4.5 | 8.6 | 11.7 | 5.4 | 5.1 |
| Complications of labor and/or delivery | | | | | | | | | | |
| Meconium,moderate/heavy | 55.1 | 50.8 | 77.2 | 57.0 | 54.4 | 52.0 | 39.0 | 53.4 | 59.4 | 55.0 |
| Premature rupture of membrane | 26.8 | 25.9 | 31.3 | 38.7 | 25.3 | 21.9 | 28.8 | 33.7 | 24.4 | 25.9 |
| Dysfunctional labor | 27.4 | 27.6 | 25.9 | 34.5 | 27.0 | 28.1 | 30.2 | 33.6 | 27.5 | 25.8 |
| Breech/Malpresentation | 38.7 | 40.7 | 30.1 | 35.3 | 34.0 | 34.5 | 37.2 | 35.5 | 33.8 | 33.6 |
| Cephalopelvic disproportion | 19.4 | 20.0 | 15.3 | 17.0 | 22.6 | 23.1 | 18.4 | 17.2 | 26.9 | 21.8 |
| Fetal distress ³ | 39.7 | 37.6 | 51.7 | 36.0 | 34.2 | 32.0 | 22.9 | 22.7 | 32.9 | 37.1 |
| Obstetric procedures | | | | | | | | | | |
| Amniocentesis | 28.9 | 30.9 | 16.5 | 16.8 | 38.5 | 70.7 | 82.0 | 28.4 | 35.1 | 27.2 |
| Electronic fetal monitoring | 839.8 | 842.6 | 840.2 | 821.2 | 791.6 | 786.7 | 778.3 | 781.8 | 780.9 | 798.2 |
| Induction of labor | 192.4 | 204.1 | 150.2 | 195.1 | 129.9 | 122.6 | 140.8 | 138.7 | 112.3 | 136.1 |
| Ultrasound | 650.3 | 664.2 | 592.9 | 595.8 | 613.0 | 639.7 | 654.5 | 604.2 | 605.9 | 604.5 |
| Stimulation of labor | 177.8 | 181.4 | 161.8 | 157.2 | 174.9 | 188.8 | 164.2 | 106.9 | 149.9 | 183.7 |

Includes births to Aleuts and Eskimos.
 Texas does not report this risk factor.
 Texas does not report this complication.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 28. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1998

[Rates are number of live births with specified risk factors, complications or procedures per 1,000 live births in specified group]

| | | | | | | Origin of mo | ther | | | |
|------------------------------------------------------------|--------------------------|-------------------|-------------------|-----------------|----------------|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| Medical risk factor, complication, | au · · 1 | | | His | panic | | | Ν | lon-Hispanic | |
| and obstetric procedure | All origins ¹ | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ² | White | Black |
| | | | | | | Number | | | | |
| Medical risk factors | | | | | | | | | | |
| | | | | | | | | | | |
| Anemia Diabetes | | 15,800 19,411 | 10,156 13,010 | 1,802 1,941 | 183 278 | 1,485 2,827 | 2,174 1,355 | 67,746 82,792 | 42,722 59,490 | 20,33 14,63 |
| Hypertension, pregnancy-associated | | 20,268 | 13,634 | 1,781 | 386 | 2,673 | 1,794 | 124,385 | 95,440 | 23,96 |
| Jterine bleeding ³ | 23,241 | 2,605 | 1,563 | 363 | 49 | 407 | 223 | 20,190 | 16,366 | 2,75 |
| Complications of labor and/or delivery | | | | | | | | | | |
| /leconium,moderate/heavy | 214,627 | 41,246 | 28,113 | 3,486 | 479 | 6,306 | 2,862 | 170,727 | 114,325 | 45,41 |
| Premature rupture of membrane | 104,453 | 14,181 | 8,835 | 1,663 | 281 | 1,991 | 1,411 | 88,562 | 64,493 | 18,49 |
| Dysfunctional labor | | 16,272 | 9,284 | 1,928 | 546 | 2,741 | 1,773 | 88,571 | 67,699 | 15,17 |
| Breech/Malpresentation | | 21,825 | 14,429 | 2,025 | 498 | 3,069 | 1,804 | 126,867 | 102,313 | 17,70 |
| Cephalopelvic disproportion Fetal distress ⁴ | | 10,681 18,483 | 7,486 11,302 | 799 2,261 | 183 308 | 1,453 3,033 | 760 1,579 | 63,909 120,585 | 50,570 85,486 | 9,01 28,48 |
| | 140,044 | 10,405 | 11,302 | 2,201 | 300 | 3,033 | 1,579 | 120,303 | 85,480 | 20,40 |
| Obstetric procedures | | | | | | | | | | |
| Amniocentesis | | 9,744 | 4,669 | 1,306 | 370 | 2,314 | 1,085 | 100,537 | 83,959 | 9,60 |
| Electronic fetal monitoring | | 578,012 | 397,813 | 49,386 | 11,707 | 78,201 | 40,905 | 2,663,051 | 2,007,746 | 495,22 |
| nduction of labor Jltrasound | | 94,233 401,403 | 62,493 271.096 | 8,645 36,642 | 2,397 7,682 | 11,943 54,672 | 8,755 31,311 | 646,713 2,105,176 | 529,565 1,633,761 | 88,72 349,20 |
| Stimulation of labor | | 119,436 | 79,996 | 11,923 | 2,187 | 16,762 | 8,568 | 566,227 | 436,522 | 95,03 |
| | | | | | | Rate | | | | |
| Medical risk factors | | | | | | | | | | |
| | 04.0 | 21.7 | 19.8 | 32.2 | 13.9 | 15.3 | 44.4 | 21.8 | 10.4 | 24.0 |
| Anemia Diabetes | | 21.7 | 25.4 | 32.2 34.7 | 21.1 | 29.1 | 44.4 27.7 | 21.8 26.6 | 18.4 25.6 | 34.6 24.9 |
| Hypertension, pregnancy-associated | | 27.9 | 26.6 | 31.9 | 29.3 | 27.5 | 36.6 | 39.9 | 41.0 | 40.8 |
| Iterine bleeding ³ | 6.6 | 4.5 | 4.1 | 6.6 | 3.8 | 4.5 | 5.4 | 6.9 | 7.5 | 5.0 |
| Complications of labor and/or delivery | | | | | | | | | | |
| leconium,moderate/heavy | | 56.5 | 54.7 | 62.1 | 36.3 | 64.6 | 58.2 | 54.7 | 49.1 | 77.2 |
| Premature rupture of membrane | 26.8 | 19.4 | 17.2 | 29.6 | 21.3 | 20.4 | 28.7 | 28.4 | 27.7 | 31.4 |
| Dysfunctional labor | | 22.3 | 18.1 | 34.4 | 41.4 | 28.1 | 36.1 | 28.4 | 29.1 | 25.8 |
| Breech/Malpresentation | | 29.9 14.6 | 28.1 14.6 | 36.1 14.2 | 37.8 13.9 | 31.5 14.9 | 36.7 15.5 | 40.7 20.5 | 43.9 21.7 | 30.1 15.3 |
| Fetal distress ⁴ | 19.4 39.7 | 32.0 | 29.9 | 41.1 | 23.9 | 33.6 | 38.4 | 41.2 | 39.1 | 51.9 |
| Obstetric procedures | | | | | | | | | | |
| mniocentesis | 28.9 | 13.3 | 9.1 | 23.2 | 28.0 | 23.6 | 22.0 | 32.1 | 35.9 | 16.3 |
| electronic fetal monitoring | 839.8 | 790.6 | 773.2 | 876.9 | 886.7 | 799.1 | 830.7 | 851.5 | 859.0 | 840.0 |
| nduction of labor | | 128.9 | 121.5 | 153.5 | 181.5 | 122.0 | 177.8 | 206.8 | 226.6 | 150.5 |
| Jitrasound | | 549.0 | 526.9 | 650.6 | 581.8 | 558.7 | 635.8 | 673.1 | 699.0 | 592.3 |
| Stimulation of labor | 177.8 | 163.4 | 155.5 | 211.7 | 165.6 | 171.3 | 174.0 | 181.1 | 186.8 | 161.2 |

Includes origin not stated.
 Includes races other than white and black.
 Texas does not report this risk factor.
 Texas does not report this complication.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 29. Number of live births by smoking status of mother, percent smokers, and percent distribution by average number of cigarettes smoked by mothers per day, according to age and race of mother: Total of 46 reporting States, the District of Columbia, and New York City, 1998

| | | | | | Age of m | nother | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|------------------------------------------------|
| Smoking status, smoking | | | 1 | 15-19 years | | 00.04 | 05.00 | 00.04 | 05.00 | 10 5 1 |
| measure, and race of mother | All ages | Under 15 years | Total | 15-17 years | 18-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years |
| | | | | - | Num | ber | | | | |
| All races ¹ | | | | | | | | | | |
| Total | 3,186,186 | 8,056 | 403,166 | 143,799 | 259,367 | 793,176 | 877,765 | 707,569 | 332,045 | 64,409 |
| Smoker Nonsmoker Not stated | 404,520 2,732,416 49,250 | 612 7,350 94 | 70,938 326,496 5,732 | 21,949 119,889 1,961 | 48,989 206,607 3,771 | 128,652 652,708 11,816 | 98,568 765,713 13,484 | 64,880 631,254 11,435 | 34,560 291,956 5,529 | 6,310 56,939 1,160 |
| White | | | | | | | | | | |
| Total | 2,492,290 | 3,759 | 274,055 | 92,917 | 181,138 | 592,477 | 709,323 | 587,178 | 273,519 | 51,979 |
| Smoker Nonsmoker Not stated | 343,042 2,109,916 39,332 | 473 3,233 53 | 60,779 209,062 4,214 | 18,594 72,933 1,390 | 42,185 136,129 2,824 | 110,234 473,014 9,229 | 84,630 613,655 11,038 | 54,007 523,796 9,375 | 27,911 241,112 4,496 | 5,008 46,044 927 |
| Black | | | | | | | | | | |
| Total | 548,653 | 4,003 | 115,957 | 45,921 | 70,036 | 171,505 | 124,996 | 82,730 | 40,880 | 8,582 |
| Smoker Nonsmoker Not stated | 51,371 490,797 6,485 | 103 3,872 28 | 8,090 106,779 1,088 | 2,594 42,909 418 | 5,496 63,870 670 | 15,059 154,667 1,779 | 11,662 111,811 1,523 | 9,413 72,074 1,243 | 5,885 34,327 668 | 1,159 7,267 156 |
| | | | | | Perc | ent | | | | |
| Smoker ¹ | 12.9 | 7.7 | 17.8 | 15.5 | 19.2 | 16.5 | 11.4 | 9.3 | 10.6 | 10.0 |
| White Black | 14.0 9.5 | 12.8 2.6 | 22.5 7.0 | 20.3 5.7 | 23.7 7.9 | 18.9 8.9 | 12.1 9.4 | 9.3 11.6 | 10.4 14.6 | 9.8 13.8 |
| | | | | | Percent dis | stribution | | | | |
| All races ¹ | | | | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1-5 cigarettes 6-10 cigarettes 11-15 cigarettes 12-20 cigarettes 21-30 cigarettes 21-40 cigarettes 31-40 cigarettes or more | 27.7 40.9 6.3 21.2 2.7 1.0 0.1 | 47.3 35.6 4.4 10.3 * | 35.8 41.6 4.6 15.8 1.6 0.4 0.1 | 40.6 40.4 3.9 13.4 1.2 0.4 0.1 | 33.7 42.2 4.9 16.9 1.8 0.4 0.1 | 28.3 41.9 5.9 20.6 2.3 0.8 0.1 | 24.7 41.1 7.0 23.0 3.0 1.0 0.1 | 24.5 39.6 7.4 23.5 3.5 1.3 0.2 | 23.7 38.2 7.5 24.7 4.0 1.6 0.2 | 22.8 36.3 7.5 25.9 4.7 2.5 |
| White | | | | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1-5 cigarettes 6-10 cigarettes 11-15 cigarettes 12-20 cigarettes 21-30 cigarettes 31-40 cigarettes 41 cigarettes or more | 24.8 41.3 6.9 22.8 3.0 1.0 0.1 | 41.7 38.5 5.5 11.5 * | 32.3 43.2 5.0 17.2 1.7 0.4 0.1 | 37.0 42.3 4.2 14.7 1.3 0.4 | 30.3 43.6 5.3 18.3 1.9 0.5 0.1 | 25.1 42.7 6.4 22.3 2.5 0.8 0.1 | 22.2 41.2 7.5 24.6 3.3 1.0 0.1 | 22.0 39.3 8.1 25.1 3.9 1.4 0.2 | 21.0 37.4 8.3 26.8 4.5 1.8 0.2 | 20.5 35.0 8.0 28.0 5.4 2.7 * |
| Black | | | | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1-5 cigarettes 6-10 cigarettes 11-15 cigarettes 11-15 cigarettes 12-20 cigarettes 21-30 cigarettes 21-40 cigarettes 31-40 cigarettes or more | 44.7 38.3 3.1 11.9 1.2 0.7 0.1 | 69.7 23.2 * * * | 58.5 31.3 2.1 7.3 0.5 * | 63.0 28.1 2.1 5.9 * | 56.3 32.8 2.2 7.9 0.5 * | 49.2 36.5 2.5 10.2 1.0 0.5 | 40.9 40.7 3.3 12.9 1.3 0.8 | 37.4 41.7 3.8 14.7 1.4 0.8 | 35.8 42.0 3.9 15.4 1.8 1.0 | 32.5 41.1 5.7 17.5 * |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator. 1 Includes races other than white and black.

NOTE: Excludes data for California, Indiana, New York State (but includes New York City), and South Dakota, which did not require reporting of tobacco use during pregnancy. Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes. Table 30. Number of live births by smoking status of mother and percent of mothers who smoked cigarettes during pregnancy, by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: Total of 46 reporting States, the District of Columbia, and New York City, 1998

| | | Smoking | g status | | Age of mother | | | | | | | | | | | |
|----------------------------------------------------|-----------------------------------|-----------------------|-----------------------------|---------------------------|---------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|----------------------|----------------------|------------------|--|--|
| Origin of mother | | | | | | | 1 | 5-19 yea | rs | | | | | | | |
| | Total births | Smoker | Non- smoker | Not stated | All ages | Under 15 years | Total | 15-17 years | 18-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years | | |
| All origins ¹ | 3,186,186 | 404,520 | 2,732,416 | 49,250 | 12.9 | 7.7 | 17.8 | 15.5 | 19.2 | 16.5 | 11.4 | 9.3 | 10.6 | 10.0 | | |
| Hispanic | 470,272 | 18,395 | 446,111 | 5,766 | 4.0 | 4.1 | 4.9 | 4.6 | 5.1 | 4.2 | 3.3 | 3.4 | 4.2 | 4.4 | | |
| Mexican Puerto Rican Cuban | 296,175 52,615 12,280 | 8,210 5,533 453 | 284,890 46,040 11,774 | 3,075 1,042 53 | 2.8 10.7 3.7 | 3.8 * * | 3.5 10.5 6.1 | 3.3 9.5 7.2 | 3.6 11.2 5.4 | 2.9 11.3 3.8 | 2.3 10.4 3.0 | 2.4 10.2 3.2 | 3.1 11.8 4.5 | 3.3 10.6 * | | |
| Central and South American Other and unknown | 68,788 | 1,041 | 67,052 | 695 | 1.5 | * | 2.0 | 1.6 | 2.2 | 1.6 | 1.3 | 1.3 | 1.8 | 2.9 | | |
| Hispanic Non-Hispanic ² | 40,414 2,686,387 | 3,158 381,797 | 36,355 2,264,752 | 901 39,838 | 8.0 14.4 | * 8.8 | 8.7 21.1 | 7.9 18.6 | 9.4 22.4 | 8.8 19.2 | 7.1 12.7 | 7.0 10.0 | 7.8 11.3 | 7.3 10.6 | | |
| White Black | 2,000,307 2,013,456 533,983 | 321,934 50,454 | 1,660,891 477,421 | 39,638 30,631 6,108 | 14.4 16.2 9.6 | 0.0 21.4 2.5 | 29.8 7.0 | 28.6 5.7 | 30.4 7.9 | 23.5 8.9 | 13.9 9.5 | 10.0 10.2 11.8 | 11.3 11.2 14.9 | 10.6 14.0 | | |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.
 1 includes origin not stated.
 2 includes races other than white and black.

NOTES: Excludes data for California, Indiana, New York State (but includes New York City), and South Dakota, which did not require reporting of tobacco use during pregnancy. Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 31. Number of live births, percent of mothers who smoked cigarettes during pregnancy, and percent distribution of average number of cigarettes smoked by mothers per day, according to educational attainment and race and Hispanic origin of mother: Total of 46 reporting States, the District of Columbia, and New York City, 1998

| Smoking measure, and | _ | | Yea | ars of school com | pleted by mother | | |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| race and Hispanic origin of mother | Total | 0-8 years | 9-11 years | 12 years | 13-15 years | 16 years or more | Not Stated |
| - | | | | All births | | | |
| All races ¹ | 3,186,186 | 148,228 | 502,784 | 1,040,555 | 700,923 | 744,939 | 48,757 |
| White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ² | 2,492,290 2,013,456 548,653 533,983 470,272 | 126,212 36,437 15,463 14,309 90,726 | 352,375 225,437 131,856 128,350 128,176 | 786,621 646,829 210,802 205,702 139,097 | 551,216 485,489 121,699 119,001 64,434 | 642,007 601,054 58,518 57,221 36,117 | 33,859 18,210 10,315 9,400 11,722 |
| - | | | | Percent | | | |
| - Smoker | 12.9 | 11.7 | 25.5 | 16.8 | 9.6 | 2.2 | 12.8 |
| White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ² | 14.0 16.2 9.5 9.6 4.0 | 12.1 35.4 10.4 10.9 2.6 | 29.3 42.0 16.4 16.5 6.2 | 19.3 22.4 9.1 9.2 3.9 | 10.6 11.6 5.8 5.9 3.1 | 2.3 2.4 2.1 2.1 1.1 | 13.6 19.3 13.0 13.0 4.0 |
| - | | | Pe | rcent distribution | | | |
| All races ¹ | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less 11-20 cigarettes 21 cigarettes or more | 68.6 27.6 3.8 | 62.6 31.2 6.2 | 68.4 27.4 4.2 | 67.9 28.4 3.7 | 70.4 26.4 3.2 | 75.4 22.4 2.2 | 70.2 25.8 4.1 |
| White, total | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less 11-20 cigarettes 21 cigarettes or more | 66.1 29.7 4.1 | 60.4 32.9 6.6 | 64.9 30.4 4.7 | 65.7 30.3 4.0 | 68.6 27.9 3.4 | 74.6 23.0 2.3 | 67.3 28.3 4.4 |
| White, non-Hispanic | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less 11-20 cigarettes 21 cigarettes or more | 65.3 30.5 4.3 | 56.7 35.9 7.4 | 63.5 31.6 4.9 | 65.2 30.8 4.0 | 68.2 28.3 3.5 | 74.4 23.2 2.4 | 66.3 29.2 4.6 |
| Black, total | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less 11-20 cigarettes 21 cigarettes or more | 83.0 15.0 2.0 | 79.0 18.1 2.9 | 83.5 14.5 2.1 | 83.1 15.0 1.9 | 83.5 15.1 1.4 | 82.9 15.8 * | 77.8 19.1 3.1 |
| Black, non-Hispanic | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less 11-20 cigarettes 21 cigarettes or more | 83.1 15.0 2.0 | 79.0 18.0 3.0 | 83.5 14.4 2.1 | 83.1 15.0 1.9 | 83.4 15.1 1.4 | 82.7 15.9 * | 77.4 19.5 3.1 |
| Hispanic ² | | | | | | | |
| Smoker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less 11-20 cigarettes 21 cigarettes or more | 83.3 14.9 1.8 | 82.9 15.2 1.9 | 84.3 13.9 1.8 | 82.7 15.6 1.7 | 83.0 15.5 1.5 | 84.3 14.9 * | 74.9 21.5 * |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.
 1 Includes races other than white and black and origin not stated.
 2 Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for California, Indiana, New York State (but includes New York City), and South Dakota, which did not require reporting of tobacco use during pregnancy.

Revised as of 3/24/03

Table 32. Percent low birthweight by smoking status, age, and race and Hispanic origin of mother: Total of 46 reporting States, the District of Columbia, and New York City, 1998

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

| | | | | | | Age of mothe | r | | | |
|-----------------------------------|----------------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|
| Smoking status and | | | | 15-19 years | | | | | | |
| race of mother | All ages | Under 15 years | Total | 15-17 years | 18-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years |
| All races ¹ | | | | | | | | | | |
| Total | 7.8 | 13.4 | 9.9 | 10.8 | 9.4 | 7.8 | 6.9 | 7.2 | 8.6 | 10.5 |
| Smoker Nonsmoker Not stated | 12.0 7.2 8.9 | 14.1 13.3 * | 11.6 9.5 10.5 | 12.2 10.5 10.9 | 11.4 8.9 10.3 | 10.5 7.3 8.4 | 11.0 6.3 8.0 | 13.6 6.5 8.2 | 16.9 7.6 10.9 | 19.1 9.5 11.7 |
| White, total | | | | | | | | | | |
| Total | 6.7 | 11.2 | 8.3 | 9.0 | 7.9 | 6.6 | 5.9 | 6.3 | 7.5 | 9.4 |
| Smoker Nonsmoker Not stated | 10.7 6.0 8.0 | 13.0 10.8 * | 10.9 7.5 9.3 | 11.4 8.4 9.6 | 10.7 7.0 9.1 | 9.8 5.8 7.5 | 9.7 5.4 7.2 | 11.6 5.7 7.3 | 14.3 6.7 10.1 | 16.3 8.6 11.4 |
| White, non-Hispanic | | | | | | | | | | |
| Total | 6.6 | 11.5 | 8.4 | 9.2 | 8.0 | 6.6 | 5.9 | 6.2 | 7.4 | 9.3 |
| Smoker Nonsmoker Not stated | 10.6 5.8 7.9 | 12.9 10.9 * | 10.9 7.3 9.1 | 11.3 8.3 9.7 | 10.7 6.8 8.8 | 9.7 5.6 7.3 | 9.5 5.3 7.4 | 11.4 5.6 7.2 | 14.2 6.5 9.7 | 16.4 8.5 11.2 |
| Black, total | | | | | | | | | | |
| Total | 13.1 | 15.7 | 13.8 | 14.5 | 13.4 | 12.1 | 12.2 | 13.8 | 16.0 | 17.5 |
| Smoker Nonsmoker Not stated | 20.9 12.3 15.2 | * 15.6 * | 17.2 13.5 16.0 | 18.3 14.2 15.9 | 16.7 13.0 16.1 | 16.2 11.7 13.1 | 20.5 11.3 15.1 | 25.4 12.3 15.5 | 29.1 13.7 18.8 | 32.1 15.2 15.6 |
| Black, non-Hispanic | | | | | | | | | | |
| Total | 13.3 | 15.6 | 13.9 | 14.6 | 13.4 | 12.2 | 12.3 | 14.0 | 16.1 | 17.6 |
| Smoker Nonsmoker Not stated | 21.0 12.4 15.4 | * 15.5 * | 17.3 13.6 16.2 | 18.4 14.3 16.5 | 16.8 13.1 16.0 | 16.3 11.8 13.1 | 20.6 11.4 15.3 | 25.6 12.4 15.6 | 29.3 13.7 19.2 | 31.9 15.3 16.4 |
| Hispanic ² | | | | | | | | | | |
| Total | 6.8 | 11.0 | 7.9 | 8.6 | 7.5 | 6.4 | 6.0 | 6.6 | 8.1 | 9.4 |
| Smoker Nonsmoker Not stated | 12.7 6.5 7.4 | * (10.7) * | 11.8 7.7 7.9 | 12.4 8.4 8.3 | 11.4 7.3 7.7 | 11.4 6.2 7.1 | 12.9 5.7 6.1 | 15.1 6.2 7.7 | 15.5 7.7 9.9 | 15.1 (9.0) (11.6) |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.Å
 ¹ Includes races other than white and black and origin not stated.Å
 ² Includes all persons of Hispanic origin of any race.Å

NOTE: Excludes data for California, Indiana, New York State (but includes New York City), and South Dakota, which did not require reporting of tobacco use during pregnancy.

Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race and Hispanic origin of mother: United States, 1998

| | | | | | Month of preg | nancy prena | atal care bega | n | | | |
|-------------------------------------|-------------------|-------------------|----------------------|-----------------|-------------------|----------------|-------------------|--------------|----------------|------------------|--------------------|
| Age and race and Hispanic origin | All births | | 1st trimester | | 2d trimester | La | ate or no care | | Not | Perce | ent |
| of mother | Diruis | Total | 1st and 2d months | 3d month | 4th-6th months | Total | 7th-9th months | No care | Not stated | 1st trimester | Late or no care |
| All races ¹ | 3,941,553 | 3,174,194 | 2,447,530 | 726,664 | 508,373 | 149,645 | 103,482 | 46,163 | 109,341 | 82.8 | 3.9 |
| Under 15 years | 9,462 | 4,329 | 2,629 | 1,700 | 3,286 | 1,443 | 1,030 | 413 | 404 | 47.8 | 15.9 |
| 15-19 years | 484,895 | 321,931 | 217,163 | 104,768 | 114,400 | 33,538 | 23,964 | 9,574 | 15,026 | 68.5 | 7.1 |
| 15 years | 24,777 | 13,579 | 8,558 | 5,021 | 7,615 | 2,665 | 1,935 | 730 | 918 | 56.9 | 11.2 |
| 16 years | 55,033 | 33,044 | 21,259 | 11,785 | 15,376 | 4,709 | 3,349 | 1,360 | 1,904 | 62.2 | 8.9 |
| 17 years | 93,421 | 60,530 | 39,934 | 20,596 | 23,204 | 6,772 | 4,841 | 1,931 | 2,915 | 66.9 | 7.5 |
| 18 years | 137,567 | 93,187 | 63,017 | 30,170 | 31,372 | 8,918 | 6,389 | 2,529 | 4,090 | 69.8 | 6.7 |
| 19 years | 174,097 | 121,591 | 84,395 | 37,196 | 36,833 | 10,474 | 7,450 | 3,024 | 5,199 | 72.0 | 6.2 |
| 20-24 years | 965,122 | 727,391 | 533,672 | 193,719 | 163,042 | 46,862 | 33,272 | 13,590 | 27,827 | 77.6 | 5.0 |
| 25-29 years | 1,083,010 | 911,612 | 720,837 | 190,775 | 111,604 | 32,374 | 22,249 | 10,125 | 27,420 | 86.4 | 3.1 |
| 30-34 years | 889,365 | 774,029 | 625,993 | 148,036 | 70,935 | 21,280 | 13,973 | 7,307 | 23,121 | 89.4 | 2.5 |
| 35-39 years | 424,890 | 365,259 | 292,782 | 72,477 | 36,032 | 11,140 | 7,095 | 4,045 | 12,459 | 88.6 | 2.7 |
| 40 years and over | 84,809 | 69,643 | 54,454 | 15,189 | 9,074 | 3,008 | 1,899 | 1,109 | 3,084 | 85.2 | 3.7 |
| White, total | 3,118,727 | 2,581,679 | 2,009,201 | 572,478 | 362,420 | 99,608 | 71,460 | 28,148 | 75,020 | 84.8 | 3.3 |
| Under 15 years | 4,801 | 2,454 | 1,491 | 963 | 1,495 | 667 | 459 | 208 | 185 | 53.2 | 14.4 |
| 15-19 years | 340,694 | 234,662 | 159,246 | 75,416 | 75,391 | 21,261 | 15,610 | 5,651 | 9,380 | 70.8 | 6.4 |
| 15 years | 15,233 | 8,907 | 5,677 | 3,230 | 4,327 | 1,490 | 1,091 | 399 | 509 | 60.5 | 10.1 |
| 16 years | 36,439 | 23,025 | 14,958 | 8,067 | 9,479 | 2,810 | 2,049 | 761 | 1,125 | 65.2 | 8.0 |
| 17 years | 64,951 | 43,611 | 28,955 | 14,656 | 15,176 | 4,314 | 3,163 | 1,151 | 1,850 | 69.1 | 6.8 |
| 18 years | 97,971 | 68,495 | 46,518 | 21,977 | 21,112 | 5,811 | 4,286 | 1,525 | 2,553 | 71.8 | 6.1 |
| 19 years | 126,100 | 90,624 | 63,138 | 27,486 | 25,297 | 6,836 | 5,021 | 1,815 | 3,343 | 73.8 | 5.6 |
| 20-24 years | 736,664 | 569,391 | 420,126 | 149,265 | 116,619 | 31,692 | 23,171 | 8,521 | 18,962 | 79.3 | 4.4 |
| 25-29 years | 880,688 | 756,688 | 602,540 | 154,148 | 82,562 | 22,341 | 15,981 | 6,360 | 19,097 | 87.8 | 2.6 |
| 30-34 years | 737,532 | 654,105 | 532,679 | 121,426 | 52,901 | 14,182 | 9,877 | 4,305 | 16,344 | 90.7 | 2.0 |
| 35-39 years | 349,799 | 306,850 | 247,740 | 59,110 | 26,728 | 7,395 | 4,998 | 2,397 | 8,826 | 90.0 | 2.2 |
| 40 years and over | 68,549 | 57,529 | 45,379 | 12,150 | 6,724 | 2,070 | 1,364 | 706 | 2,226 | 86.7 | 3.1 |
| White, non-Hispanic | 2,361,462 | 2,035,753 | 1,614,399 | 421,354 | 223,984 | 55,044 | 39,644 | 15,400 | 46,681 | 87.9 | 2.4 |
| Under 15 years | 2,132 | 1,118 | 679 | 439 | 660 | 294 | 215 | 79 | 60 | 54.0 | 14.2 |
| 15-19 years | 219,169 | 158,579 | 108,593 | 49,986 | 44,768 | 10,961 | 8,214 | 2,747 | 4,861 | 74.0 | 5.1 |
| 15 years | 7,767 | 4,769 | 3,022 | 1,747 | 2,095 | 696 | 513 | 183 | 207 | 63.1 | 9.2 |
| 16 years | 20,464 | 13,540 | 8,868 | 4,672 | 5,028 | 1,396 | 1,042 | 354 | 500 | 67.8 | 7.0 |
| 17 years | 40,388 | 28,510 | 18,993 | 9,517 | 8,794 | 2,166 | 1,605 | 561 | 918 | 72.2 | 5.5 |
| 18 years | 64,472 | 47,088 | 32,199 | 14,889 | 13,027 | 3,005 | 2,277 | 728 | 1,352 | 74.6 | 4.8 |
| 19 years | 86,078 | 64,672 | 45,511 | 19,161 | 15,824 | 3,698 | 2,777 | 921 | 1,884 | 76.8 | 4.4 |
| 20-24 years | 511,101 | 413,228 | 309,780 | 103,448 | 70,564 | 16,627 | 12,354 | 4,273 | 10,682 | 82.6 | 3.3 |
| 25-29 years | 678,227 | 603,733 | 489,557 | 114,176 | 50,263 | 12,277 | 8,793 | 3,484 | 11,954 | 90.6 | 1.8 |
| 30-34 years | 603,639 | 549,417 | 453,688 | 95,729 | 34,408 | 8,549 | 5,844 | 2,705 | 11,265 | 92.7 | 1.4 |
| 35-39 years 40 years and over | 291,202 55,992 | 261,412 48,266 | 213,526 38,576 | 47,886 9,690 | 18,609 4,712 | 4,917 1,419 | 3,303 921 | 1,614 498 | 6,264 1,595 | 91.7 88.7 | 1.7 2.6 |
| Black, total | 609,902 | 428,102 | 314,811 | 113,291 | 115,158 | 40,793 | 24,904 | 15,889 | 25,849 | 73.3 | 7.0 |
| Under 15 years | 4,289 | 1,752 | 1,065 | 687 | 1,639 | 703 | 513 | 190 | 195 | 42.8 | 17.2 |
| 15-19 years | 126,937 | 77,158 | 51,485 | 25,673 | 34,124 | 10,717 | 7,169 | 3,548 | 4,938 | 63.2 | 8.8 |
| 15 years | 8,599 | 4,220 | 2,606 | 1,614 | 2,976 | 1,037 | 742 | 295 | 366 | 51.3 | 12.6 |
| 16 years | 16,414 | 8,888 | 5,647 | 3,241 | 5,174 | 1,670 | 1,129 | 541 | 682 | 56.5 | 10.6 |
| 17 years | 25,090 | 14,999 | 9,779 | 5,220 | 7,019 | 2,128 | 1,428 | 700 | 944 | 62.1 | 8.8 |
| 18 years | 34,885 | 21,837 | 14,677 | 7,160 | 8,982 | 2,715 | 1,803 | 912 | 1,351 | 65.1 | 8.1 |
| 19 years | 41,949 | 27,214 | 18,776 | 8,438 | 9,973 | 3,167 | 2,067 | 1,100 | 1,595 | 67.4 | 7.8 |
| 20-24 years | 189,088 | 130,722 | 94,500 | 36,222 | 38,409 | 12,739 | 8,208 | 4,531 | 7,218 | 71.9 | 7.0 |
| 25-29 years | 139,302 | 104,856 | 80,119 | 24,737 | 20,965 | 7,662 | 4,420 | 3,242 | 5,819 | 78.6 | 5.7 |
| 30-34 years | 93,785 | 71,848 | 55,734 | 16,114 | 12,057 | 5,300 | 2,740 | 2,560 | 4,580 | 80.5 | 5.9 |
| 35-39 years | 46,657 | 34,810 | 26,747 | 8,063 | 6,395 | 2,935 | 1,480 | 1,455 | 2,517 | 78.9 | 6.6 |
| 40 years and over | 9,844 | 6,956 | 5,161 | 1,795 | 1,569 | 737 | 374 | 363 | 582 | 75.1 | 8.0 |

See footnotes at end of table.

Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race and Hispanic origin of mother: United States, 1998 -- Con.

| | | | | | Month of preg | gnancy pren | atal care bega | in | | | |
|-------------------------------------|----------|---------|----------------------|-------------|-------------------|-------------|-------------------|------------|---------------|------------------|--------------------|
| Age and race and Hispanic origin | All | | 1st trimester | | 2d trimester | La | ate or no care | | Mot | Perc | ent |
| of mother | births - | Total | 1st and 2d months | 3d month | 4th-6th months | Total | 7th-9th months | No care | Not stated | 1st trimester | Late or no care |
| Black, non-Hispanic | 593,127 | 416,966 | 306,711 | 110,255 | 112,080 | 39,683 | 24,081 | 15,602 | 24,398 | 73.3 | 7.0 |
| Under 15 years | 4,204 | 1,719 | 1,045 | 674 | 1,615 | 684 | 500 | 184 | 186 | 42.8 | 17.0 |
| 15-19 years | 124,076 | 75,480 | 50,367 | 25,113 | 33,408 | 10,468 | 6,977 | 3,491 | 4,720 | 63.2 | 8.8 |
| 15 years | 8,420 | 4,122 | 2,536 | 1,586 | 2,924 | 1,014 | 724 | 290 | 360 | 51.1 | 12.6 |
| 16 years | 16,021 | 8,674 | 5,507 | 3,167 | 5,062 | 1,633 | 1,099 | 534 | 652 | 56.4 | 10.6 |
| 17 years | 24,542 | 14,689 | 9,574 | 5,115 | 6,882 | 2,066 | 1,383 | 683 | 905 | 62.1 | 8.7 |
| 18 years | 34,089 | 21,374 | 14,373 | 7,001 | 8,787 | 2,651 | 1,754 | 897 | 1,277 | 65.1 | 8.1 |
| 19 years | 41,004 | 26,621 | 18,377 | 8,244 | 9,753 | 3,104 | 2,017 | 1,087 | 1,526 | 67.4 | 7.9 |
| 20-24 years | 184,263 | 127,620 | 92,258 | 35,362 | 37,408 | 12,425 | 7,986 | 4,439 | 6,810 | 71.9 | 7.0 |
| 25-29 years | 135,158 | 101,986 | 78,001 | 23,985 | 20,282 | 7,405 | 4,225 | 3,180 | 5,485 | 78.6 | 5.7 |
| 30-34 years | 90,827 | 69,726 | 54,133 | 15,593 | 11,665 | 5,140 | 2,619 | 2,521 | 4,296 | 80.6 | 5.9 |
| 35-39 years | 45,096 | 33,700 | 25,909 | 7,791 | 6.193 | 2.844 | 1,410 | 1,434 | 2.359 | 78.9 | 6.7 |
| 40 years and over | 9,503 | 6,735 | 4,998 | 1,737 | 1,509 | 717 | 364 | 353 | 542 | 75.2 | 8.0 |
| Hispanic ² | 734,661 | 526,798 | 378,969 | 147,829 | 137,846 | 44,492 | 31,944 | 12,548 | 25,525 | 74.3 | 6.3 |
| Under 15 years | 2,716 | 1,350 | 815 | 535 | 857 | 388 | 257 | 131 | 121 | 52.0 | 15.0 |
| 15-19 years | 121,388 | 75,940 | 50,574 | 25,366 | 30,725 | 10,357 | 7,454 | 2,903 | 4,366 | 64.9 | 8.9 |
| 15 years | 7,525 | 4,187 | 2,704 | 1,483 | 2,256 | 795 | 579 | 216 | 287 | 57.8 | 11.0 |
| 16 years | 16,079 | 9,540 | 6,131 | 3,409 | 4,499 | 1,428 | 1,019 | 409 | 612 | 61.7 | 9.2 |
| 17 years | 24,630 | 15,143 | 9,985 | 5,158 | 6,419 | 2,166 | 1,577 | 589 | 902 | 63.8 | 9.1 |
| 18 years | 33,400 | 21,335 | 14,258 | 7,077 | 8,084 | 2,818 | 2,023 | 795 | 1,163 | 66.2 | 8.7 |
| 19 years | 39,754 | 25,735 | 17,496 | 8,239 | 9,467 | 3,150 | 2,256 | 894 | 1,402 | 67.1 | 8.2 |
| 20-24 years | 223,113 | 154,217 | 108,857 | 45,360 | 45,948 | 15,091 | 10,862 | 4,229 | 7,857 | 71.6 | 7.0 |
| 25-29 years | 196,012 | 147,404 | 108,383 | 39,021 | 32,134 | 10,044 | 7,224 | 2,820 | 6,430 | 77.8 | 5.3 |
| 30-34 years | 125,702 | 97,547 | 72,951 | 24,596 | 18,277 | 5,589 | 4,038 | 1,551 | 4,289 | 80.3 | 4.6 |
| 35-39 years | 54,195 | 41,829 | 31,207 | 10,622 | 7,949 | 2,417 | 1,686 | 731 | 2,000 | 80.1 | 4.6 |
| 40 years and over | 11,535 | 8,511 | 6,182 | 2,329 | 1,956 | 606 | 423 | 183 | 462 | 76.9 | 5.5 |

 $\frac{1}{2}$ Includes races other than white and black and origin not stated. Includes all persons of Hispanic origin of any race.

Table 34. Percent of mothers beginning prenatal care in the first trimester and percent of mothers with late or no prenatal care by race and Hispanic origin of mother: United States, each State and territory, 1998

[By place of residence]

| | | Percent b | eginning ca | re in first t | rimester | | | | Percent late | ¹ or no ca | re | |
|--------------------------------|---------------------------|--------------|------------------|---------------|------------------|-----------------------|---------------------------|------------|------------------|-----------------------|------------------|-----------------------|
| | | Wh | ite | Bla | ack | | | Wh | nite | Bla | ack | |
| State | All races ² | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ³ | All races ² | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ³ |
| United States ⁴ | 82.8 | 84.8 | 87.9 | 73.3 | 73.3 | 74.3 | 3.9 | 3.3 | 2.4 | 7.0 | 7.0 | 6.3 |
| Alabama | 82.4 | 88.3 | 89.1 | 70.1 | 70.1 | 62.9 | 3.9 | 2.3 | 2.1 | 7.1 | 7.1 | 11.3 |
| Alaska | 81.4 | 83.5 | 83.7 | 82.3 | 82.6 | 81.3 | 4.5 | 3.7 | 3.7 | 5.1 | * | 3.6 |
| Arizona | 75.1 | 76.0 | 84.7 | 73.5 | 73.9 | 64.7 | 7.2 | 6.9 | 3.4 | 7.4 | 7.3 | 11.5 |
| Arkansas California | 77.8 | 80.7 | 82.0 | 67.6 | 67.6 | 61.6 | 5.1 | 4.3 | 3.6 | 8.3 | 8.3 | 14.0 |
| Colorado | 82.4 82.2 | 82.4 82.7 | 88.2 87.9 | 79.5 75.9 | 79.5 76.2 | 78.1 68.3 | 3.6 4.3 | 3.7 4.1 | 2.4 2.6 | 4.5 6.5 | 4.5 6.4 | 4.6 8.4 |
| Connecticut | 88.0 | 89.3 | 91.3 | 79.0 | 70.2 | 78.2 | 3.0 | 2.8 | 2.0 | 4.6 | 4.5 | 5.3 |
| Delaware | 83.4 | 86.4 | 88.2 | 74.2 | 74.3 | 69.7 | 3.6 | 2.7 | 2.3 | 6.1 | 6.1 | 6.6 |
| District of Columbia | 72.0 | 84.8 | 91.0 | 66.9 | 66.9 | 69.5 | 10.2 | 5.0 | 3.5 | 12.3 | 12.3 | 8.2 |
| Florida | 83.6 | 86.9 | 88.6 | 72.8 | 72.7 | 81.9 | 3.5 | 2.6 | 2.1 | 6.5 | 6.6 | 4.0 |
| Georgia | 86.4 | 90.0 | 91.4 | 79.4 | 79.4 | 78.2 | 2.8 | 1.9 | 1.5 | 4.4 | 4.4 | 5.7 |
| Hawaii | 85.4 | 90.2 | 90.9 | 91.5 | 91.9 | 83.5 | 3.1 | 2.1 | 2.0 | * | * | 3.7 |
| Idaho | 78.7 | 79.1 | 81.7 | 69.1 | 68.4 | 61.5 | 4.4 | 4.3 | 3.5 | * | * | 9.8 |
| Illinois | 82.7 | 85.7 | 89.7 | 70.1 | 70.0 | 73.7 | 3.9 | 2.8 | 1.9 | 8.2 | 8.3 | 5.6 |
| Indiana | 79.9 | 81.6 | 82.6 | 65.3 | 65.3 | 64.7 | 4.0 | 3.5 | 3.2 | 8.4 | 8.4 | 8.4 |
| lowa | 87.3 | 87.9 | 88.6 | 74.8 | 74.4 | 73.0 | 2.4 | 2.2 | 2.0 | 6.3 | 6.5 | 6.5 |
| Kansas Kentucky | 85.8 86.4 | 86.7 87.3 | 89.2 87.5 | 76.1 78.0 | 76.0 78.1 | 68.1 73.8 | 2.8 2.5 | 2.5 2.3 | 1.9 2.3 | 5.7 4.2 | 5.8 4.2 | 7.6 6.0 |
| Louisiana | 82.2 | 89.4 | 89.6 | 78.0 | 70.1 | 85.3 | 3.9 | 1.8 | 1.8 | 7.0 | 7.0 | 2.8 |
| Maine | 88.9 | 89.1 | 89.3 | 85.6 | 85.7 | 77.9 | 1.7 | 1.7 | 1.6 | * | * | * |
| Maryland | 87.8 | 91.5 | 92.3 | 80.3 | 80.3 | 82.3 | 3.0 | 1.8 | 1.7 | 5.2 | 5.2 | 3.8 |
| Massachusetts | 89.5 | 90.9 | 92.3 | 80.1 | 80.0 | 79.2 | 2.4 | 2.0 | 1.7 | 5.6 | 5.8 | 4.7 |
| Michigan | 84.3 | 87.1 | 88.4 | 71.1 | 71.1 | 72.8 | 3.4 | 2.4 | 2.1 | 7.9 | 7.8 | 6.0 |
| Minnesota | 84.5 | 87.1 | 87.9 | 66.7 | 66.6 | 63.8 | 2.9 | 2.2 | 2.0 | 7.9 | 8.0 | 8.5 |
| Mississippi | 80.6 | 89.3 | 89.6 | 70.2 | 70.2 | 73.8 | 4.0 | 1.7 | 1.6 | 6.7 | 6.7 | 7.4 |
| Missouri | 86.1 | 88.2 | 88.6 | 74.5 | 74.5 | 77.7 | 2.9 | 2.1 | 2.0 | 6.9 | 6.9 | 5.4 |
| Montana | 82.3 | 84.8 | 84.9 | 77.3 | 73.7 | 78.6 | 3.2 | 2.4 | 2.3 | ~ ~ ~ | o - 7 | 7 0 |
| Nebraska | 83.9 74.6 | 84.9 75.3 | 86.9 82.5 | 71.0 66.3 | 70.9 66.5 | 68.8 62.2 | 3.2 7.0 | 2.9 6.8 | 2.4 4.0 | 6.7 9.5 | 6.7 9.4 | 7.6 11.8 |
| Nevada New Hampshire | 89.7 | 89.8 | 90.0 | 76.9 | 78.6 | 78.4 | 1.9 | 1.9 | 1.8 | 9.5 * | 3.4 | * |
| Now Jorgov | 81.6 | 85.5 | 89.6 | 65.1 | 64.8 | 71.0 | 4.6 | 3.0 | 2.1 | 11.1 | 11.5 | 6.3 |
| New Jersey New Mexico | 67.6 | 69.1 | 75.1 | 58.5 | 59.4 | 64.8 | 8.5 | 7.9 | 5.7 | 11.1 | 11.3 | 9.4 |
| New York | 81.2 | 84.4 | 88.2 | 70.8 | 71.0 | 72.1 | 4.8 | 3.7 | 2.7 | 8.5 | 8.5 | 6.9 |
| North Carolina | 84.5 | 88.1 | 90.3 | 75.2 | 75.2 | 68.5 | 2.9 | 2.0 | 1.5 | 5.4 | 5.4 | 6.6 |
| North Dakota | 85.6 | 87.3 | 87.7 | 78.8 | 78.8 | 73.6 | 2.5 | 1.9 | 1.6 | * | * | 5 |
| Ohio | 85.5 | 87.6 | 87.9 | 73.3 | 73.3 | 77.4 | 4.2 | 3.1 | 3.0 | 10.4 | 10.1 | 5.7 |
| Oklahoma | 78.6 | 80.7 | 81.8 | 69.7 | 69.6 | 68.3 | 5.1 | 4.5 | 4.0 | 7.5 | 7.6 | 9.5 |
| Oregon | 80.2 84.8 | 80.4 87.3 | 82.8 88.2 | 79.4 70.8 | 79.6 70.8 | 67.2 72.4 | 3.8 3.5 | 3.7 2.7 | 3.2 2.5 | 4.1 8.4 | 4.0 8.4 | 6.7 5.7 |
| Pennsylvania Rhode Island | 89.7 | 90.9 | 92.1 | 70.8 | 70.8 | 82.4 | 1.5 | 1.3 | 1.1 | 3.9 | 3.2 | 2.0 |
| South Carolina | 81.4 | 87.2 | 88.0 | 71.0 | 71.0 | 65.9 | 4.2 | 2.3 | 2.1 | 75 | 75 | 8.2 |
| South Carolina South Dakota | 81.4 82.7 | 87.2 | 88.0 86.8 | 71.0 75.3 | 71.0 76.8 | 65.9 74.3 | 4.2 3.2 | 2.3 1.8 | 2.1 | 7.5 | 7.5 | 8.2 |
| Tennessee | 84.1 | 87.3 | 88.1 | 73.3 | 70.8 | 64.8 | 3.6 | 2.5 | 2.2 | 7.7 | 7.7 | 11.7 |
| Texas | 79.3 | 79.6 | 86.9 | 75.7 | 75.8 | 72.7 | 5.3 | 5.2 | 2.7 | 6.1 | 6.1 | 7.6 |
| Utah | 82.1 | 82.9 | 85.3 | 64.7 | 63.6 | 64.9 | 4.1 | 3.7 | 3.0 | 10.7 | 11.5 | 9.2 |
| Vermont | 87.4 | 87.5 | 87.6 | * | * | 85.3 | 2.0 | 2.0 | 2.0 | * | * | * |
| Virginia | 85.2 | 88.8 | 90.2 | 74.4 | 74.5 | 73.2 | 3.3 | 2.3 | 2.0 | 6.1 | 6.1 | 5.8 |
| Washington | 83.0 | 83.6 | 85.8 | 77.1 | 77.3 | 71.0 | 3.2 | 2.9 | 2.4 | 5.0 | 4.9 | 6.0 |
| West Virginia Wisconsin | 83.7 84.3 | 84.2 87.0 | 84.2 88.0 | 70.2 67.5 | 70.1 67.4 | 84.0 71.9 | 2.6 3.4 | 2.5 2.7 | 2.5 2.4 | 5.5 8.7 | 5.5 8.7 | 6.9 |
| Wyoming | 64.3 81.3 | 82.2 | 83.4 | 67.3 | 67.4 68.0 | 71.9 | 3.4 4.1 | 3.8 | 2.4 3.4 | 0.1 | o. <i>1</i> * | 7.9 |
| Puerto Rico | 78.8 | 79.4 | | 70.5 | | | 3.1 | 2.9 | | 5.5 | | |
| Virgin Islands | 59.3 | 60.5 | 76.6 | 58.6 | 57.9 | 55.0 | 12.8 | 11.3 | * | 13.3 | 13.4 | 11.8 |
| Guam | 63.0 | 86.0 | 86.8 | 81.8 | 81.4 | 83.7 | 12.7 | * | * | * | * | 11.0 |
| American Samoa | | | | | | | | | | | | |
| Northern Marianas | 26.3 | * | | * | | | 34.7 | * | | * | | |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.
-- Data not available.
1 Care beginning in 3rd trimester.
2 Includes races other than white and black and origin not stated.
3 Includes all persons of Hispanic origin of any race.
4 Excludes data for the territories.

NOTE: Data on prenatal care are not available for American Samoa. Data on month prenatal care began for the Northern Marianas are substantially incomplete; see Table I in the Technical notes.

Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 1998

| Induit months months months months months months care All races 1 3.941,653 3.174,194 2.447,530 726,664 508,373 149,665 103,482 46,163 109,1 1-2 visits 40,129 0.1680 5759 3.410 9,565 18,500 46,163 109,2 3-4 visits 173,204 73,046 3.402 9,0635 114,167 12,854 10,850 11,2 25,854 10,850 14,849 12,854 10,850 14,849 14,89 -2,854 14,89 -4,89 -4,80 3,456 -6,853 3,545 12,854 14,849 -3,355 3,544 12,77 2,77 -2,2 14,949 -3,355 3,544 12,77 2,77 -2,27 -2,2 14,444 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 -4,44 | | | | | Month of | pregnancy pre | natal care be | egan | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------|-----------|---------------|----------|---------------|---------------|----------------|--------|---------|
| Total Total <th< th=""><th></th><th></th><th></th><th>1st trimester</th><th></th><th>2d trimester</th><th>La</th><th>ate or no care</th><th></th><th>Not</th></th<> | | | | 1st trimester | | 2d trimester | La | ate or no care | | Not |
| No visits 46,163 11.2 46,163 12 46,163 12 46,163 12 46,163 12 46,163 12 46,163 12 46,163 12 46,163 12 46,163 12 46,163 12 46,163 12 12 13 13 13 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 <th>and race and Hispanic origin of mother</th> <th>DITTNS</th> <th>Total</th> <th></th> <th></th> <th></th> <th>Total</th> <th></th> <th></th> <th>stated</th> | and race and Hispanic origin of mother | DITTNS | Total | | | | Total | | | stated |
| 1-2 visits 40,129 10,169 6,759 3,410 9,555 16,8500 16,850 12,25 5-4 visits 172,025 70,024 13,027 70,025 22,030 25,550 12,25 5-4 visits 172,025 70,024 13,007 70,025 25,550 12,355 9-10 visits 174,275 855,33 334,745 14,4172 8,584 8,684 9,69 1-12 visits 1,015,518 252,544 105,208 25,254 14,939 14,899 1,49 3,459 1-14 visits 661,192,554 22,752 52,254 10,508 12,256 10,207 1,27 1,27 2,2 19 visits or more 146,163 13,530 10,206 2,2,470 2,470 7,47 Median number of visits 12,3 12,6 12,8 11,7 9,6 5,4 5,4 - 1 19 visits or more 146,85 5,6,167 2,009,201 77,479 8,24 1,9 2,8,148 7,6 2,4,14 1,14 1,24 1,14 1,24 1,14 1,24 | All races ¹ | 3,941,553 | 3,174,194 | 2,447,530 | 726,664 | 508,373 | 149,645 | 103,482 | 46,163 | 109,341 |
| 1-2 visits 40,129 10,169 6,759 3,410 9,555 16,8500 16,850 12,25 5-4 visits 172,025 70,024 13,027 70,025 22,030 25,550 12,25 5-4 visits 172,025 70,024 13,007 70,025 25,550 12,355 9-10 visits 174,275 855,33 334,745 14,4172 8,584 8,684 9,69 1-12 visits 1,015,518 252,544 105,208 25,254 14,939 14,899 1,49 3,459 1-14 visits 661,192,554 22,752 52,254 10,508 12,256 10,207 1,27 1,27 2,2 19 visits or more 146,163 13,530 10,206 2,2,470 2,470 7,47 Median number of visits 12,3 12,6 12,8 11,7 9,6 5,4 5,4 - 1 19 visits or more 146,85 5,6,167 2,009,201 77,479 8,24 1,9 2,8,148 7,6 2,4,14 1,14 1,24 1,14 1,24 1,14 1,24 | No visito | 46 162 | | | | | 46 162 | | 46 162 | |
| 3-4 visits 81,466 23,444 13,582 9,862 29,224 28,300 26,300 | | | 10 169 | | 3 410 | | | | | 1,815 |
| 5-6 wists | | | | | | | | | | 2,448 |
| $\begin{array}{c} 7-3 \ \ visits \\ -7-3 \ \ visits \\ -7-3 \ \ visits \\ -7-4 \ \ visits \\ -7-4 \ \ visits \\ -7-4 \ \ visits \\ -7-5 \ \ visits \ $ | | | | | | | | | | 3,726 |
| 9-10 valits 744,757 585,38 394,745 190,583 141,672 8,854 8,684 9 11-12 visits (105,191 925,001 715,544 105,803 34,599 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,489 1,484 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 1,414 | | | | | | | | | | 4,904 |
| 11-12 visits (1015):18 926,001 715,554 210,447 80,158 3,459 3,459 3,459 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 3,459 1,489 1,489 3,459 1,489 1,489 3,459 1,489 1,489 2,470 2,470 7,4,4 Motistis 12,3 12,6 12,8 11,7 9,6 5,4 5,4 1,449 1,325 2,418 2,2148 2,2148 2,2148 2,2148 2,2148 2,2148 2,2148 2,2148 2,2148 2,2148 < | | | | - / - | | | | | | 9,163 |
| | | , | | , | , | , | | | | 6,300 |
| | | | | | | , | | | | 3,09 |
| 17-18 visits 98.254 93.993 80.638 13.365 3.5.41 227 227 4 19 visits or more 145.113 138.06 12.266 15.940 6.065 4.14 4.4 74. Metian number of visits 12.3 12.6 12.8 11.7 9.6 5.4 5.4 n 74. White, total 3.118,727 2.581,679 2.009.201 572,478 362,420 99,606 71,460 28,148 75.0 No visits 28,143 22,148 22,148 22,148 28,148 1.1 1.365 visits 28,148 21,143 1.1,410 71,819 17,899 22,148 1.1,936 1.1,936 21,143 26,23 41,41 71,410 71,413 1.1,41 71,413 1.1,41 71,413 1.1,41 71,413 1.1,41 71,413 1.1,413 42,41 | | | | | | | | | | 2,12 |
| 19 visits or more 145,813 138,506 122,566 15,940 6,026 2,470 2,470 74. Median number of visits 12.3 12.6 12.8 11.7 9.6 5.4 5.4 1 White, total 3,118,727 2,581,679 2,009,201 572,478 362,420 99,608 71,460 28,148 1 1 1 1 1 3 1 1 3,118,727 2,581,679 2,009,201 572,478 362,420 99,608 71,460 28,148 1 1 3,4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | 493 |
| Not stated 141,470 54,346 42,090 12,266 10,206 2,470 2,470 74,4 Median number of visits 12,3 12,6 12,8 11,7 9,6 5,4 5,4 1,4 White, total 3,118,727 2,581,679 2,009,201 572,478 362,420 99,608 71,460 28,148 28,148 28,148 28,148 28,148 28,148 28,148 28,148 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>828</td></td<> | | | | | | | | | | 828 |
| Median number of visits 12.3 12.6 12.8 11.7 9.6 5.4 5.4 1 White, total 3,118,727 2,581,679 2,009,201 572,478 362,420 99,608 71,460 28,148 75,0 12. visits 28,148 28,148 28,148 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,336 11,436 12,423 14,444 103,085 6,167 6,167 6,167 11,43 11,436 12,423 11,43 11,436 12,423 11,43 11,436 12,423 14,444 103,085 6,167 6,167 6,167 1,43 14,443 13,148 10,065 12,427 14,44 103,085 6,167 6,167 1,40 1,42,42 1,41 1,42,64 12,41 14,413,11 11,413,11,143 1,42,64 1,41,41,413,11,143 1,42,64 1,42,64 1,42,64 1,42, | | , | , | | , | , | | | | 74,448 |
| White, total 3,118,727 2,581,679 2,009,201 572,478 362,420 99,608 71,460 28,148 75,1 No visits 24,852 6,440 4,395 2,035 5,391 11,396 11,396 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 11,1 | | , | , | , | 12,200 | 10,200 | 2,470 | 2,470 | | 74,440 |
| No visits 28,148 28,143 28,143 28,143 28,143 11,336 11,336 11,336 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,136 11,139 11,139 11,139 11,139 11,139 11,139 11,139 11,139 11,1 | Median number of visits | 12.3 | 12.6 | 12.8 | 11.7 | 9.6 | 5.4 | 5.4 | | 10.3 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | White, total | 3,118,727 | 2,581,679 | 2,009,201 | 572,478 | 362,420 | 99,608 | 71,460 | 28,148 | 75,020 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | No visits | 28.148 | | | _ | | 28.148 | | 28.148 | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | 6 430 | 4 395 | 2 035 | 5 391 | | 11 936 | , | 1,095 |
| | | | | | | | | | | 1,555 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | | | 2,559 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | | | 3,524 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | | | 6,71 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | 4,93 |
| 15-16 visits 381.674 364.992 316.003 48.999 14.257 825 825 14 17-18 visits 81.358 76.124 67.359 10.765 2.652 179 179 179 19 visits or more 118.371 113.168 100.847 12.321 4.264 308 308 6 Not stated 98.810 40.879 31.981 8.898 6.744 1,629 1,629 49.4 Median number of visits 12.4 12.7 12.9 11.8 9.8 5.6 5.6 1 White, non-Hispanic 2.361.462 2.035.753 1.614.399 421.354 223.984 55.044 39.644 15.400 46.4 No visits 15.400 16.63 864 9.861 9.831 9.391 15.400 24.614 9.310 5.616 3.694 9.963 9.837 9.837 1 1 1 1 1 1 1 1 <td></td> <td></td> <td> ,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,453</td> | | | , | | | | | | | 2,453 |
| 17-8 visits 81,358 78,124 67,359 10,765 2,652 179 179 19 visits or more 118,371 113,186 100,047 12,321 4,264 308 308 49,3 Median number of visits 12.4 12.7 12.9 11.8 9.8 5.6 5.6 1 White, non-Hispanic 2,361,462 2,035,753 1,614,399 421,354 223,984 55,044 39,644 15,400 15,400 15,400 15,400 15,400 15,400 15,400 15,400 15,400 15,400 12,417 12,9116 2,879 6,342 6,342 16,540 11,540 12,540 13,471 23,399 9,637 9,637 9,637 1,12,54 12,471 14,373 14,3471 23,999 25,642 13,471 26,523 12,573 14,449,153 430,696 362,410 30,474 3,694 4,44 4,44 4,44 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1,600</td> | | | | | | | | | | 1,600 |
| 19 visits or more 118.371 113.168 100.847 12.321 4.264 308 308 49.3 Median number of visits 12.4 12.7 12.9 11.8 9.8 5.6 5.6 1 White, non-Hispanic 2,361,462 2,035,753 1,614,399 421,354 223,984 55,044 39,644 15,400 15,400 15,400 15,400 15,400 15,400 15,400 15,400 15,400 15,400 15,400 15,400 15,400 15,400 13,544 3,715 2,599 1,116 2,879 6,342 14,78 13,333 33,333 33,333 33,333 33,333 33,333 33,333 33,333 33,333 33,333 33,333 33,124 44,575 6,329 6,329 2,44 11-12 visits 166,492 618,680 488,642 13,0138 40,777 1,732 1,732 1,33 11,748 13,544 <td></td> <td> , -</td> <td>,</td> <td>,</td> <td>,</td> <td>,</td> <td></td> <td></td> <td></td> <td>403</td> | | , - | , | , | , | , | | | | 403 |
| Not stated 98,810 40,879 31,981 8,898 6,744 1,629 1,629 43,4 Median number of visits 12.4 12.7 12.9 11.8 9.8 5.6 5.6 1 White, non-Hispanic 2,361,462 2,035,753 1,614,399 421,354 223,984 55,044 39,644 15,400 46,6 No visits 13,544 3,715 2,599 1,116 2,879 6,342 6,342 66,342 66,329 1,5400 1,7-8 visits 12,614 3,694 9,966 9,331 9,337 1,7-8 visits 146,639 10,470 7,953 35,171 46,575 6,329 2,2,9-1 1,11-12 visits 1,11-12 visits 1,668,928 616,806 486,421 130,138 40,777 1,732 3,31 1,3-14 visits 449,153 430,696 362,310 66,326 1,24,193,114 14,112,91 1,629 <t< td=""><td></td><td></td><td></td><td></td><td>- ,</td><td></td><td></td><td></td><td></td><td>63</td></t<> | | | | | - , | | | | | 63 |
| White, non-Hispanic 2,361,462 2,035,753 1,614,399 421,354 223,984 55,044 39,644 15,400 46,6 No visits 13,544 3,715 2,599 1,116 2,879 6,342 6,342 6,342 6,342 6,342 6,342 6,342 6,342 6,342 6,342 6,342 6,342 6,342 6,343 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,391 9,313 9,317 14,33 3,131 4423,333 351,244 245,321 105,973 63,299 6,329 6,329 6,329 1,323 1,332 1,333 1,414 11-2,435 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>49,558</td></td<> | | | | | | | | | | 49,558 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | Median number of visits | 12.4 | 12.7 | 12.9 | 11.8 | 9.8 | 5.6 | 5.6 | | 10.5 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | White, non-Hispanic | 2,361,462 | 2,035,753 | 1,614,399 | 421,354 | 223,984 | 55,044 | 39,644 | 15,400 | 46,681 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | No visits | 15,400 | | | | | 15,400 | | 15,400 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | 2,599 | | 2.879 | , | | | 608 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | 945 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | 1,569 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | 2,324 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | 4,66 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | 3,73 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | / - | | | | | | 1,890 |
| 17-18 visits 66,862 64,502 56,073 8,429 1,924 116 116 12 19 visits or more 97,241 93,714 84,189 9,525 2,836 208 208 4 Not stated 59,619 26,738 21,880 4,858 3,144 855 855 28,8 Median number of visits 12.5 12.7 12.9 11.9 10.0 5.7 5.7 1 Black, total 609,902 428,102 314,811 113,291 115,158 40,793 24,904 15,889 25,8 No visits 12,665 3,131 1,983 1,148 3,571 5,375 4 3-4 visits 22,996 6,680 3,792 2,888 9,000 6,600 15,889 1-2 visits 12,665 3,131 1,983 1,148 3,571 5,375 4 3-4 visits 12,665 3,131 1,983 1,148 3,571 5,375 4 5,618 24, | | | | | | | | | | 1,254 |
| 19 visits or more 97,241 93,714 84,189 9,525 2,836 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 208 209 15,889 25,88 24,904 15,889 25,88 24,904 15,889 25,89 24,904 15,889 25,89 24,904 15,889 25,89 24,904 15,889 25,88 24,900 6,600 26,600 26,600 26,600 26,600 26,600 26,600 26,600 26,600 26,600 26,600 26,600 26,600 26,600 26,600 | | | | | | | | | | 32 |
| Median number of visits 12.5 12.7 12.9 11.9 10.0 5.7 5.7 1 Black, total 609,902 428,102 314,811 113,291 115,158 40,793 24,904 15,889 25,8 No visits 15,889 15,889 15,889 15,889 15,889 15,889 | | 97,241 | 93,714 | 84,189 | 9,525 | 2,836 | 208 | 208 | | 483 |
| Black, total 609,902 428,102 314,811 113,291 115,158 40,793 24,904 15,889 25,8 No visits 15,889 15,889 15,889 1-2 visits 12,665 3,131 1,983 1,148 3,571 5,375 5,375 4 3-4 visits 22,996 6,680 3,792 2,888 9,000 6,600 6,600 | Not stated | 59,619 | 26,738 | 21,880 | 4,858 | 3,144 | 855 | 855 | | 28,882 |
| No visits 15,889 15,889 15,889 1-2 visits 12,665 3,131 1,983 1,148 3,571 5,375 5,375 4 3-4 visits 22,996 6,680 3,792 2,888 9,000 6,600 5 5-6 visits 41,540 16,653 9,768 6,885 18,069 5,909 5,909 10 7-8 visits 58,547 30,704 18,353 12,351 23,531 3,274 3,274 1,0 9-10 visits 117,402 83,508 53,716 29,922 30,227 1,865 1,865 1,6 11-12 visits 127,800 110,504 81,582 28,922 15,707 621 621 1,6 13-14 visits 78,877 72,560 58,984 13,576 5,618 242 242 4 15-16 visits 66,274 61,439 51,518 9,921 4,231 205 205 5 | Median number of visits | 12.5 | 12.7 | 12.9 | 11.9 | 10.0 | 5.7 | 5.7 | | 10.6 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Black, total | 609,902 | 428,102 | 314,811 | 113,291 | 115,158 | 40,793 | 24,904 | 15,889 | 25,849 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | No visits | 15.889 | | | | | 15.889 | | 15.889 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | 1.983 | 1.148 | 3.571 | | | | 588 |
| 5-6 visits 41,540 16,653 9,768 6,885 18,069 5,909 5,909 9,789 7-8 visits 58,547 30,704 18,353 12,351 23,531 3,274 3,274 1,0 9-10 visits 117,402 83,508 53,716 29,792 30,227 1,865 1,865 1,0 11-12 visits 127,800 110,504 81,582 28,922 15,707 621 621 9,0 13-14 visits 78,877 72,560 58,984 13,576 5,618 242 242 4,00 15-16 visits 66,274 61,439 51,518 9,921 4,231 205 205 3,00 17-18 visits 12,866 11,861 9,852 2,009 721 35 35 19 visits or more 21,864 20,085 17,110 2,975 1,543 83 83 18,7 Not stated 33,362 10,977 8,153 2,824 2,940 695 695 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>710</td></td<> | | | | | | | | | | 710 |
| 7-8 visits58,54730,70418,35312,35123,5313,2743,2741,9-10 visits117,40283,50853,71629,79230,2271,8651,8651,811-12 visits127,800110,50481,58228,92215,7076216219,213-14 visits78,87772,56058,98413,5765,618242242415-16 visits66,27461,43951,5189,9214,231205205317-18 visits12,68611,8619,8522,0097213535319 visits or more21,86420,08517,1102,9751,5438383Not stated33,36210,9778,1532,8242,94069569518,1 | | | | | | | | | | 90 |
| 9-10 visits 117,402 83,508 53,716 29,792 30,227 1,865 1,865 1,1 11-12 visits 127,800 110,504 81,582 28,922 15,707 621 621 9 13-14 visits 78,877 72,560 58,984 13,576 5,618 242 242 9 15-16 visits 66,274 61,439 51,518 9,921 4,231 205 205 3 17-18 visits 12,686 11,861 9,852 2,009 721 35 35 19 visits or more 21,864 20,085 17,110 2,975 1,543 83 83 Not stated 33,362 10,977 8,153 2,824 2,940 695 695 18,1 | | | | | | | | | | 1,03 |
| 11-12 visits127,800110,50481,58228,92215,7076216216213-14 visits78,87772,56058,98413,5765,6182422426215-16 visits66,27461,43951,5189,9214,2312052056217-18 visits12,68611,8619,8522,00972135356319 visits or more21,66420,08517,1102,9751,543838369518,7Not stated33,36210,9778,1532,8242,94069569518,7 | | | | | | | | | | 1,802 |
| 13-14 visits 78,877 72,560 58,984 13,576 5,618 242 242 4 15-16 visits 66,274 61,439 51,518 9,921 4,231 205 205 3 17-18 visits 12,686 11,861 9,852 2,009 721 35 35 19 visits or more 21,864 20,085 17,110 2,975 1,543 83 83 78,77 Not stated 33,362 10,977 8,153 2,824 2,940 695 695 18,77 | | | | | | | | | | 96 |
| 15-16 visits66,27461,43951,5189,9214,23120520520517-18 visits12,68611,8619,8522,009721353519 visits or more21,86420,08517,1102,9751,5438383Not stated33,36210,9778,1532,8242,94069569518,1 | | | | | | | | | | 45 |
| 17-18 visits12,68611,8619,8522,009721353519 visits or more21,86420,08517,1102,9751,5438383Not stated33,36210,9778,1532,8242,94069569518,7 | | | | | | | | | | 39 |
| 19 visits or more 21,864 20,085 17,110 2,975 1,543 83 83 Not stated | | | | | | | | | | 6 |
| Not stated | | | | | | | | | | 15 |
| | | | - , | , - | | | | | | 18,75 |
| Median number of visits 11.8 12.5 12.7 11.2 9.2 5.0 5.0 | Median number of visits | 11.8 | 12 5 | 12 7 | 11 2 | 9.2 | 5.0 | 5.0 | | 9. |

See footnotes at end of table.

Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 1998 -- Con.

| | | | | Month of | f pregnancy pre | enatal care be | egan | | |
|----------------------------------------|------------------|---------|----------------------|-------------|-------------------|----------------|-------------------|------------|---------------|
| Number of prenatal visits | All | | 1st trimester | | 2d trimester | L | ate or no care | | |
| and race and Hispanic origin of mother | births - | Total | 1st and 2d months | 3d month | 4th-6th months | Total | 7th-9th months | No care | Not stated |
| Black, non-Hispanic | 593,127 | 416,966 | 306,711 | 110,255 | 112,080 | 39,683 | 24,081 | 15,602 | 24,398 |
| No visits | 15.602 | | | | | 15.602 | | 15,602 | |
| 1-2 visits | 12,396 | 3.075 | 1.944 | 1.131 | 3.499 | 5.252 | 5.252 | | 570 |
| 3-4 visits | 22,458 | 6,548 | 3,713 | 2,835 | 8,809 | 6,417 | 6,417 | | 684 |
| 5-6 visits | 40.400 | 16,230 | 9,508 | 6.722 | 17.603 | 5.707 | 5.707 | | 860 |
| 7-8 visits | 56,687 | 29,752 | 17,803 | 11,949 | 22,843 | 3,129 | 3,129 | | 963 |
| 9-10 visits | 113.495 | 80.717 | 51.823 | 28.894 | 29.331 | 1.772 | 1.772 | | 1.675 |
| 11-12 visits | 124.274 | 107.504 | 79,317 | 28,187 | 15,290 | 591 | 591 | | 889 |
| 13-14 visits | 77.067 | 70.948 | 57.735 | 13.213 | 5.465 | 232 | 232 | | 422 |
| 15-16 visits | 64,904 | 60,189 | 50,482 | 9,707 | 4,135 | 196 | 196 | | 384 |
| 17-18 visits | 12,411 | 11,611 | 9,648 | 1,963 | 703 | 33 | 33 | | 64 |
| 19 visits or more | | 19.703 | 9,040 16.786 | 2,917 | | | 82 | | 150 |
| Not stated | 21,456 31.977 | 10.689 | 7.952 | 2,917 | 1,521 2.881 | 82 670 | 670 | | 17.737 |
| Median number of visits | 11.8 | 12.5 | 12.8 | 11.2 | 9.2 | 5.0 | 5.0 | | 9.6 |
| Hispanic ² | 734,661 | 526,798 | 378,969 | 147,829 | 137,846 | 44,492 | 31,944 | 12,548 | 25,525 |
| No visits | 12.548 | | | | | 12.548 | | 12,548 | |
| 1-2 visits | 11,305 | 2.699 | 1.785 | 914 | 2.528 | 5.604 | 5.604 | , | 474 |
| 3-4 visits | 23,141 | 5,844 | 3,224 | 2,620 | 8,211 | 8,481 | 8,481 | | 605 |
| 5-6 visits | 46,590 | 16.828 | 9,243 | 7,585 | 20,501 | 8,288 | 8.288 | | 973 |
| 7-8 visits | 76,117 | 39.427 | 22,837 | 16,590 | 30,860 | 4,659 | 4,659 | | 1.171 |
| 9-10 visits | 158.317 | 114.571 | 71.719 | 42.852 | 39.206 | 2,483 | 2.483 | | 2.057 |
| 11-12 visits | 162,319 | 141,206 | 102,813 | 38,393 | 19,061 | 886 | 886 | | 1,166 |
| 13-14 visits | 97,640 | 90,218 | 72.759 | 17,459 | 6,534 | 348 | 348 | | 540 |
| 15-16 visits | 76,397 | 70,553 | 58,103 | 12,450 | 5,248 | 272 | 272 | | 324 |
| 17-18 visits | 13,915 | 13,064 | 10,823 | 2,241 | 715 | 64 | 64 | | 72 |
| 19 visits or more | 20.377 | 18,717 | 15,985 | 2,732 | 1.418 | 101 | 101 | | 141 |
| Not stated | 35,995 | 13,671 | 9,678 | 3,993 | 3,564 | 758 | 758 | | 18,002 |
| Median number of visits | 11.6 | 12.4 | 12.7 | 11.1 | 9.4 | 5.4 | 5.4 | | 10.0 |

Category not applicable.
 Includes races other than white and black and origin not stated.
 Includes all persons of Hispanic origin of any race.

Table 36. Live births to mothers with selected obstetric procedures and rates by age of mother, by race of mother: United States, 1998

[Rates are number of live births with specified procedure per 1,000 live births in specified group]

| | A.11 | Obstetric | | | / | Age of mothe | ər | | | |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------|--------------------------------------------------|--------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| Obstetric procedure and race of mother | All births | procedure reported | All ages | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years | Not stated |
| All races ¹ | | | | | | | | | | |
| Amniocentesis Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound | 3,941,553 3,941,553 3,941,553 3,941,553 3,941,553 3,941,553 3,941,553 | 112,778 3,278,992 751,389 694,303 89,120 2,538,927 | 28.9 839.8 192.4 177.8 22.8 650.3 | 7.5 849.4 173.9 189.0 24.8 625.5 | 9.0 845.3 188.8 183.5 23.7 639.9 | 12.9 842.0 200.8 180.2 22.5 658.2 | 24.5 836.2 196.8 173.0 21.6 661.2 | 121.0 824.3 191.8 161.3 21.8 659.8 | 168.0 808.1 192.5 150.4 22.9 647.6 | 37,033 37,033 37,033 37,033 37,033 37,033 37,033 |
| White | | | | | | | | | | |
| Amniocentesis Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound | 3,118,727 3,118,727 3,118,727 3,118,727 3,118,727 3,118,727 3,118,727 | 95,579 2,603,263 630,676 560,376 71,229 2,052,224 | 30.9 842.6 204.1 181.4 23.1 664.2 | 7.9 851.6 186.8 196.1 25.8 644.1 | 9.1 847.5 201.9 188.5 24.2 654.8 | 13.1 845.3 212.1 183.4 22.8 671.0 | 25.3 840.2 206.7 175.7 21.7 672.2 | 127.3 827.9 201.1 164.1 21.5 671.4 | 179.4 811.0 200.9 154.4 22.7 658.3 | 29,171 29,171 29,171 29,171 29,171 29,171 |
| Black | | | | | | | | | | |
| Amniocentesis Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound | 609,902 609,902 609,902 609,902 609,902 609,902 | 9,998 509,250 91,037 98,086 13,103 359,350 | 16.5 840.2 150.2 161.8 21.6 592.9 | 6.3 850.1 144.1 173.8 21.5 580.8 | 8.6 845.9 147.3 167.7 21.7 590.8 | 12.0 838.1 154.9 159.8 21.0 599.9 | 18.7 829.0 154.3 150.4 21.5 602.6 | 69.9 823.3 153.5 140.8 23.5 594.6 | 93.9 815.5 164.8 127.9 23.5 592.7 | 3,778 3,778 3,778 3,778 3,778 3,778 3,778 |

¹ Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 37. Live births to mothers with selected complications of labor and/or delivery and rates by age of mother, by race of mother: United States, 1998

[Rates are number of live births with specified complication per 1,000 live births in specified group]

| | | 0 " " | | | A | ge of moth | er | | | |
|--------------------------------------|----------------------------|--------------------------|----------|-------------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Complication and race of mother | All births ¹ | Complication reported | All ages | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years | Not stated |
| All races ² | | | | | | | | | | |
| Febrile | 3,941,553 | 59.633 | 15.3 | 18.3 | 15.6 | 15.6 | 14.6 | 12.6 | 11.6 | 47.091 |
| Meconium, moderate/heavy | 3,941,553 | 214,627 | 55.1 | 59.6 | 55.3 | 53.5 | 53.6 | 56.0 | 59.0 | 47.091 |
| Premature rupture of membrane | 3.941.553 | 104.453 | 26.8 | 27.7 | 25.5 | 26.1 | 27.0 | 29.2 | 32.4 | 47.091 |
| Abruptio placenta | 3,941,553 | 21,834 | 5.6 | 5.3 | 5.1 | 5.2 | 5.8 | 6.9 | 8.9 | 47,091 |
| Placenta previa | 3,941,553 | 12,408 | 3.2 | 1.1 | 1.8 | 2.9 | 4.3 | 6.3 | 8.5 | 47,091 |
| Other excessive bleeding | 3,941,553 | 23,198 | 6.0 | 5.4 | 5.6 | 5.9 | 6.1 | 6.9 | 8.1 | 47,091 |
| | | | 0.0 | 0.8 | 0.4 | 0.2 | 0.1 | 0.3 | 0.1 | 47,091 |
| Seizures during labor | 3,941,553 | 1,359 | | | | | | | | , |
| Precipitous labor | 3,941,553 | 79,933 | 20.5 | 14.5 | 19.2 | 20.7 | 22.8 | 24.4 | 25.1 | 47,091 |
| Prolonged labor | 3,941,553 | 31,922 | 8.2 | 8.7 | 8.3 | 8.2 | 8.0 | 7.8 | 8.5 | 47,091 |
| Dysfunctional labor | 3,941,553 | 106,709 | 27.4 | 26.1 | 26.0 | 28.0 | 28.2 | 28.4 | 31.0 | 47,091 |
| Breech/Malpresentation | 3,941,553 | 150,685 | 38.7 | 29.4 | 31.9 | 38.6 | 44.2 | 49.8 | 57.8 | 47,091 |
| Cephalopelvic disproportion | 3,941,553 | 75,406 | 19.4 | 18.0 | 17.5 | 20.3 | 20.5 | 20.0 | 20.7 | 47,091 |
| Cord prolapse | 3,941,553 | 7,833 | 2.0 | 1.6 | 1.8 | 1.9 | 2.2 | 2.6 | 2.9 | 47,091 |
| Anesthetic complication ³ | 3,599,270 | 2,091 | 0.6 | 0.4 | 0.5 | 0.6 | 0.7 | 0.7 | 0.7 | 49,580 |
| Fetal distress ³ | 3,599,270 | 140,844 | 39.7 | 43.7 | 38.5 | 37.7 | 38.9 | 42.6 | 48.7 | 49,580 |
| White | | | | | | | | | | |
| Febrile | 3,118,727 | 45,045 | 14.6 | 17.4 | 15.1 | 15.0 | 14.0 | 11.8 | 10.9 | 37,880 |
| Meconium, moderate/heavy | 3.118.727 | 156.452 | 50.8 | 53.4 | 50.8 | 49.5 | 49.9 | 52.3 | 56.0 | 37,880 |
| Premature rupture of membrane | 3,118,727 | 79,701 | 25.9 | 26.0 | 24.4 | 25.4 | 26.2 | 28.2 | 31.6 | 37,880 |
| Abruptio placenta | 3,118,727 | 16,590 | 5.4 | 5.2 | 4.9 | 5.0 | 5.5 | 6.6 | 8.7 | 37.880 |
| Placenta previa | 3.118.727 | 9,696 | 3.1 | 1.1 | 1.8 | 2.7 | 4.2 | 6.0 | 7.9 | 37.880 |
| Other excessive bleeding | 3.118.727 | 18,511 | 6.0 | 5.7 | 5.7 | 5.9 | 6.0 | 6.7 | 8.1 | 37,880 |
| Seizures during labor | 3,118,727 | 947 | 0.3 | 0.7 | 0.4 | 0.2 | 0.2 | 0.3 | 0.3 | 37,880 |
| | 3,118,727 | 62,200 | 20.2 | 13.3 | 18.2 | 20.2 | 22.8 | 24.5 | 25.5 | 37,880 |
| Precipitous labor | | 25,930 | | 9.0 | 8.7 | | | 24.5 8.0 | 25.5 | 37,880 |
| Prolonged labor | 3,118,727 | | 8.4 | | 26.3 | 8.4 | 8.1 28.2 | 28.2 | | |
| Dysfunctional labor | 3,118,727 | 85,116 | 27.6 | 26.1 | | 28.3 | | | 31.1 | 37,880 |
| Breech/Malpresentation | 3,118,727 | 125,303 | 40.7 | 32.2 | 33.6 | 40.3 | 45.6 | 50.8 | 58.9 | 37,880 |
| Cephalopelvic disproportion | 3,118,727 | 61,677 | 20.0 | 18.7 | 18.6 | 21.1 | 20.7 | 20.1 | 20.8 | 37,880 |
| Cord prolapse | 3,118,727 | 6,103 | 2.0 | 1.5 | 1.8 | 1.9 | 2.1 | 2.6 | 2.8 | 37,880 |
| Anesthetic complication ³ | 2,826,910 | 1,674 | 0.6 | 0.5 | 0.5 | 0.6 | 0.7 | 0.7 | 0.7 | 39,967 |
| Fetal distress ³ | 2,826,910 | 104,826 | 37.6 | 40.7 | 36.6 | 36.0 | 36.8 | 40.6 | 46.6 | 39,967 |
| Black | | | | | | | | | | |
| Febrile | 609,902 | 10,035 | 16.6 | 20.3 | 16.4 | 15.8 | 14.7 | 13.7 | 12.8 | 4,861 |
| Meconium, moderate/heavy | 609,902 | 46,722 | 77.2 | 76.3 | 73.1 | 78.0 | 81.8 | 84.3 | 82.6 | 4,861 |
| Premature rupture of membrane | 609,902 | 18,944 | 31.3 | 31.2 | 28.9 | 30.4 | 33.8 | 37.3 | 39.5 | 4,861 |
| Abruptio placenta | 609,902 | 4,176 | 6.9 | 5.9 | 6.3 | 6.7 | 8.1 | 9.3 | 11.9 | 4,861 |
| Placenta previa | 609,902 | 1,791 | 3.0 | 1.1 | 1.9 | 3.4 | 4.7 | 6.6 | 9.9 | 4,861 |
| Other excessive bleeding | 609,902 | 2,794 | 4.6 | 3.8 | 4.4 | 4.4 | 4.9 | 7.4 | 6.9 | 4,861 |
| Seizures during labor | 609,902 | 346 | 0.6 | 1.0 | 0.5 | 0.4 | 0.4 | * | * | 4,861 |
| Precipitous labor | 609.902 | 13.208 | 21.8 | 16.8 | 22.1 | 24.1 | 23.4 | 24.2 | 24.1 | 4.861 |
| Prolonged labor | 609.902 | 3,970 | 6.6 | 7.4 | 6.5 | 6.4 | 6.2 | 5.7 | 6.9 | 4,861 |
| Dysfunctional labor | 609.902 | 15.677 | 25.9 | 25.7 | 24.5 | 25.8 | 27.6 | 28.5 | 29.2 | 4.861 |
| Breech/Malpresentation | 609,902 | 18,239 | 30.1 | 22.4 | 25.7 | 31.3 | 37.7 | 46.6 | 53.5 | 4,861 |
| Cephalopelvic disproportion | 609,902 | 9,231 | 15.3 | 16.5 | 13.7 | 15.0 | 16.7 | 15.7 | 17.2 | 4.861 |
| | 609,902 | 1,334 | 2.2 | 1.8 | 1.8 | 2.4 | 2.9 | 2.9 | 3.1 | / |
| Cord prolapse | , | | | | | | | | 3.I * | 4,861 |
| Anesthetic complication ~ | 569,690 | 320 | 0.6 | 0.4 | 0.5 | 0.5 | 0.7 | 1.0 | GE 4 | 5,216 |
| Fetal distress ³ | 569,690 | 29,165 | 51.7 | 52.4 | 47.1 | 49.9 | 56.6 | 60.6 | 65.1 | 5,216 |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.
 Total number of births to residents of areas reporting specified complication.
 Includes races other than white and black.
 Texas does not report this complication.

NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 38. Live births by attendant, place of delivery, and race and Hispanic origin of mother: United States, 1998

| | | | Physician | | | Midwife | | | |
|----------------------------------------------------------------|---------------------|--------------------|-----------------------|----------------------|-------------------|-------------------------------|------------------|----------------|-------------|
| Place of delivery and race and Hispanic origin of mother | All births | Total | Doctor of medicine | Doctor of osteopathy | Total | Certified nurse midwife | Other midwife | Other | Unspecified |
| All races ¹ | | | | | | | | | |
| Total | 3,941,553 | 3,625,043 | 3,468,219 | 156,824 | 293,386 | 277,811 | 15,575 | 21,852 | 1,272 |
| In hospital ² | 3,903,770 | 3,619,406 | 3,463,660 | 155,746 | 272,261 | 268,288 | 3,973 | 11,516 | 587 |
| Not in hospital | 37,049 | 5,517 | 4,453 | 1,064 | 20,897 | 9,322 | 11,575 | 10,101 | 534 |
| Freestanding birthing center Clinic or doctor's office | 10,693 857 | 1,767 336 | 1,121 265 | 646 71 | 8,714 233 | 6,175 144 | 2,539 89 | 206 282 | 6 6 |
| Residence | 23,232 | 2,664 | 2,349 | 315 | 11,634 | 2,840 | 8,794 | 8,538 | 396 |
| Other Not specified | 2,267 734 | 750 120 | 718 106 | 32 14 | 316 228 | 163 201 | 153 27 | 1,075 235 | 126 151 |
| White, total | 704 | 120 | 100 | 14 | 220 | 201 | 21 | 200 | 101 |
| Total | 3,118,727 | 2,871,663 | 2,736,866 | 134,797 | 229,429 | 215,104 | 14,325 | 16,753 | 882 |
| | | | | , | * | , | | , | |
| In hospital ² Not in hospital | 3,085,755 32,307 | 2,867,476 4,080 | 2,733,707 3,064 | 133,769 1,016 | 209,329 19,880 | 206,250 8,661 | 3,079 11,219 | 8,523 8,007 | 427 340 |
| Freestanding birthing center | 10,090 | 1,699 | 1,057 | 642 | 8,202 | 5,746 | 2,456 | 184 | 5 |
| Clinic or doctor's office Residence | 733 20,019 | 268 1,730 | 202 1,446 | 66 284 | 222 11.178 | 136 2,644 | 86 8,534 | 240 6,846 | 3 265 |
| Other | 1,465 | 383 | 359 | 24 | 278 | 135 | 143 | 737 | 67 |
| Not specified | 665 | 107 | 95 | 12 | 220 | 193 | 27 | 223 | 115 |
| White, non-Hispanic | | | | | | | | | |
| Total | 2,361,462 | 2,189,411 | 2,078,392 | 111,019 | 158,883 | 147,004 | 11,879 | 12,579 | 589 |
| In hospital ² | 2,334,394 | 2,185,841 | 2,075,821 | 110,020 | 142,388 | 139,851 | 2,537 9,317 | 5,822 6,548 | 343 215 |
| Not in hospital Freestanding birthing center | 26,541 7,425 | 3,477 1,529 | 2,489 892 | 988 637 | 16,301 5,754 | 6,984 4,459 | 1,295 | 140 | 215 |
| Clinic or doctor's office | 637 | 238 | 176 | 62 | 165 | 86 | 79 | 231 | 3 |
| Residence Other | 17,499 980 | 1,450 260 | 1,181 240 | 269 20 | 10,176 206 | 2,365 74 | 7,811 132 | 5,693 484 | 180 30 |
| Not specified | 527 | 93 | 82 | 11 | 194 | 169 | 25 | 209 | 31 |
| Black, total | | | | | | | | | |
| Total | 609,902 | 559,799 | 543,140 | 16,659 | 46,043 | 45,158 | 885 | 3,754 | 306 |
| In hospital ² | 606,286 | 558,639 | 542,013 | 16,626 | 45,425 | 44,688 | 737 | 2,093 | 129 |
| Not in hospital Freestanding birthing center | 3,559 395 | 1,152 23 | 1,119 21 | 33 2 | 610 357 | 462 303 | 148 54 | 1,652 14 | 145 1 |
| Clinic or doctor's office | 53 | 30 | 29 | 1 | 5 | 5 | - | 15 | 3 |
| Residence | 2,505 | 813 | 789 280 | 24 | 225 | 133 21 | 92 | 1,370 | 97 44 |
| Other Not specified | 606 57 | 286 8 | 200 | 6 - | 23 8 | 8 | 2 | 253 9 | 32 |
| Black, non-Hispanic | | | | | | | | | |
| Total | 593,127 | 545,774 | 529,866 | 15,908 | 43,425 | 42,558 | 867 | 3,644 | 284 |
| In hospital ² | 589,660 | 544,648 | 528,773 | 15,875 | 42,847 | 42,121 | 726 | 2,036 | 129 |
| Not in hospital | 3,425 | 1,118 | 1,085 | 33 | 570 | 429 | 141 | 1,600 | 137 |
| Freestanding birthing center Clinic or doctor's office | 371 53 | 23 30 | 21 29 | 2 1 | 334 5 | 283 5 | 51 | 13 15 | 1 |
| Residence | 2,418 | 788 | 764 | 24 | 211 | 123 | 88 | 1,327 | 92 |
| Other Not specified | 583 42 | 277 8 | 271 8 | 6 | 20 8 | 18 8 | 2 | 245 8 | 41 18 |
| Hispanic ³ | 42 | 0 | 0 | - | 0 | 0 | - | 0 | 10 |
| Total | 734,661 | 661,440 | 638,798 | 22,642 | 69,347 | 67,103 | 2,244 | 3,734 | 140 |
| In hospital ² | 729,638 | 660.892 | 638,277 | 22,642 | 66,040 | 65,536 | 504 | 2,653 | 53 |
| Not in hospital | 729,638 5,001 | 660,892 543 | 638,277 517 | 22,615 | 66,040 3,300 | 1,562 | 504 1,738 | 2,653 | 53 82 |
| Freestanding birthing center | 2,654 | 167 | 163 | 4 | 2,440 | 1,279 | 1,161 | 44 | 3 |
| Clinic or doctor's office Residence | 93 1,827 | 29 236 | 25 222 | 4 14 | 56 742 | 50 183 | 6 559 | 8 794 | - 55 |
| Other | 427 | 111 | 107 | 4 | 62 | 50 | 12 | 230 | 24 |
| Not specified | 22 | 5 | 4 | 1 | 7 | 5 | 2 | 5 | 5 |

Quantity zero.
Includes races other than white and black and origin not stated.
Includes births occurring en route to or on arrival at hospital.
Includes all persons of Hispanic origin of any race.

Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989-98

| | | | Births by | method of de | livery | | | Cesarean | delivery rate | - Doto of |
|--------------------------------------|------------------------|------------------------|-------------------------------|--------------------|--------------------|--------------------|------------------|--------------------|----------------------|-----------------------------------------------|
| Year and race | | Vagi | nal | | Cesarean | | | | | Rate of vaginal birti |
| and Hispanic origin of mother | All births | Total | After previous cesarean | Total | Primary | Repeat | Not stated | Total ¹ | Primary ² | after previous cesarean ³ |
| All races ⁴ | | | | | | | | | | |
| 998 | 3,941,553 | 3,078,537 | 108,903 | 825,870 | 519,975 | 305,895 | 37,146 | 21.2 | 14.9 | 26.3 |
| 1997 | 3,880,894 | 3,046,621 | 112,145 | 799,033 | 502,526 | 296,507 | 35,240 | 20.8 | 14.6 | 27.4 |
| 1996 | 3,891,494 | 3,061,092 | 116,045 | 797,119 | 503,724 | 293,395 | 33,283 | 20.7 | 14.6 | 28.3 |
| 1995 1994 | 3,899,589 3,952,767 | 3,063,724 3,087,576 | 112,439 110,341 | 806,722 830,517 | 510,104 520,647 | 296,618 309,870 | 29,143 34,674 | 20.8 21.2 | 14.7 14.9 | 27.5 26.3 |
| 993 | 4,000,240 | 3,098,796 | 103,581 | 861,987 | 539,251 | 322,736 | 39,457 | 21.2 | 15.3 | 20.3 |
| 992 | 4,065,014 | 3,100,710 | 97,549 | 888,622 | 554,662 | 333,960 | 75,682 | 22.3 | 15.6 | 22.6 |
| 991 | 4,110,907 | 3,100,891 | 90,690 | 905,077 | 569,195 | 335,882 | 104,939 | 22.6 | 15.9 | 21.3 |
| 990 ⁵ | 4,110,563 | 3,111,421 | 84,299 | 914,096 | 575,066 | 339,030 | 85,046 | 22.7 | 16.0 | 19.9 |
| 989 ⁶ | 3,798,734 | 2,793,463 | 71,019 | 826,955 | 521,873 | 305,082 | 178,316 | 22.8 | 16.1 | 18.9 |
| White, total | | | | | | | | | | |
| 998 | 3,118,727 | 2,440,113 | 86,495 | 649,987 | 406,439 | 243,548 | 28,627 | 21.0 | 14.7 | 26.2 |
| 997 | 3,072,640 | 2,415,236 | 89,522 | 630,613 | 393,603 | 237,010 | 26,791 | 20.7 | 14.5 | 27.4 |
| 996 | 3,093,057 | 2,434,079 | 93,783 | 631,409 | 395,851 | 235,558 | 27,569 | 20.6 | 14.5 | 28.5 |
| 995 994 | 3,098,885 3,121,004 | 2,435,191 2,435,965 | 90,940 88,471 | 639,818 656,400 | 401,098 407,946 | 238,720 248,454 | 23,876 28,639 | 20.8 21.2 | 14.6 14.8 | 27.6 26.3 |
| 993 | 3,149,833 | 2,435,905 | 82,995 | 682,355 | 423,540 | 258,815 | 32,249 | 21.2 | 15.3 | 20.3 |
| 992 | 3,201,678 | 2,434,959 | 77,977 | 705,841 | 437,398 | 268,443 | 60,878 | 22.5 | 15.7 | 22.5 |
| 991 | 3,241,273 | 2,434,900 | 72,564 | 723,088 | 452,534 | 270,554 | 83,285 | 22.9 | 16.1 | 21.1 |
| 990 5 | 3,252,473 | 2,453,857 | 67,191 | 732,713 | 458,656 | 274,057 | 65,903 | 23.0 | 16.1 | 19.7 |
| 989 6 | 3,022,537 | 2,212,843 | 56,851 | 667,114 | 418,177 | 248,937 | 142,580 | 23.2 | 16.2 | 18.6 |
| White, non-Hispanic | | | | | | | | | | |
| 998 | 2,361,462 | 1,842,420 | 67,787 | 495,550 | 315,138 | 180,412 | 23,492 | 21.2 | 15.1 | 27.3 |
| 1997 | 2,333,363 | 1,829,213 | 70,284 | 481,982 | 305,605 | 176,377 | 22,168 | 20.9 | 14.8 | 28.5 |
| 1996 1995 | 2,358,989 2,382,638 | 1,851,058 1,867,024 | 73,973 72,124 | 485,530 496,103 | 308,482 313,933 | 177,048 182,170 | 22,401 19,511 | 20.8 21.0 | 14.8 14.9 | 29.5 28.4 |
| 994 | 2,438,855 | 1,896,609 | 71,597 | 518,021 | 324,236 | 193,785 | 24,225 | 21.5 | 15.1 | 27.0 |
| 993 | 2,472,031 | 1,902,433 | 67,536 | 542,013 | 338,236 | 203,777 | 27,585 | 22.2 | 15.6 | 24.9 |
| 0 | 2,527,207 | 1,916,414 | 63,828 | 566,788 | 352,470 | 214,318 | 44,005 | 22.8 | 16.0 | 22.9 |
| 991 ⁸ | 2,589,878 | 1,941,726 | 60,174 | 587,802 | 368,721 | 219,081 | 60,350 | 23.2 | 16.4 | 21.5 |
| 992 8 991 8 990 5, 9 | 2,626,500 | 1,972,754 | 55,952 | 603,467 | 378,508 | 224,959 | 50,279 | 23.4 | 16.5 | 19.9 |
| 989 6, 10 | 2,526,367 | 1,806,753 | 47,559 | 556,585 | 349,858 | 206,727 | 163,029 | 23.6 | 16.6 | 18.7 |
| Black, total | | | | | | | | | | |
| 998 | 609,902 | 470,088 | 17,062 | 135,727 | 86,438 | 49,289 | 4,087 | 22.4 | 16.0 | 25.7 |
| 997 996 | 599,913 594,781 | 466,001 462,378 | 16,986 16,866 | 130,142 128,357 | 83,025 82,646 | 47,117 45,711 | 3,770 4,046 | 21.8 21.7 | 15.6 15.6 | 26.5 27.0 |
| 995 | 603,139 | 468,984 | 16,224 | 130,482 | 84,441 | 46,041 | 3,673 | 21.7 | 15.7 | 27.0 |
| 994 | 636,391 | 493,879 | 16,970 | 138,067 | 88,636 | 49,431 | 4,445 | 21.8 | 15.7 | 25.6 |
| 993 | 658,875 | 509,816 | 16,179 | 143,452 | 91,677 | 51,775 | 5,607 | 22.0 | 15.7 | 23.8 |
| 992 | 673,633 | 514,929 | 15,382 | 146,480 | 93,165 | 53,315 | 12,224 | 22.1 | 15.7 | 22.4 |
| 991 | 682,602 | 519,047 | 14,213 | 145,583 | 92,645 | 52,938 | 17,972 | 21.9 | 15.5 | 21.2 |
| 990 ⁵ 989 ⁶ | 679,236 611,147 | 516,581 452,291 | 13,496 11,104 | 146,472 127,907 | 93,476 82,695 | 52,996 45,212 | 16,183 30,319 | 22.1 22.0 | 15.7 15.8 | 20.3 19.7 |
| Black, non-Hispanic | , | , | , | , | , | , | , | | | |
| 998 | 593,127 | 457,186 | 16,510 | 131,999 | 84,169 | 47,830 | 3,942 | 22.4 | 16.0 | 25.7 |
| 997 | 581,431 | 451,744 | 16,353 | 126,138 | 80,599 | 45,539 | 3,549 | 21.8 | 15.6 | 26.4 |
| 996 | 578,099 | 449,544 | 16,322 | 124,836 | 80,457 | 44,379 | 3,719 | 21.7 | 15.7 | 26.9 |
| 995 | 587,781 | 457,104 | 15,721 | 127,171 | 82,395 | 44,776 | 3,506 | 21.8 | 15.7 | 26.0 |
| 994 | 619,198 | 480,551 | 16,478 | 134,526 | 86,411 | 48,115 | 4,121 | 21.9 | 15.7 | 25.5 |
| 993 | 641,273 | 496,333 | 15,675 | 139,702 | 89,315 | 50,387 | 5,238 | 22.0 | 15.7 | 23.7 |
| 992 ⁸ | 657,450 666,758 | 502,669 507,522 | 14,950 13,847 | 143,153 142,417 | 91,086 90,664 | 52,067 51,753 | 11,628 16,819 | 22.2 21.9 | 15.7 15.5 | 22.3 21.1 |
| 991 ° 990 5, 9 989 6, 10 | 661,701 | 507,522 | 13,847 | 142,417 | 90,664 91,175 | 51,753 | 15,143 | 21.9 | 15.5 | 20.3 |
| | 001,701 | 440,310 | 10,107 | 125,290 | 51,175 | 44,113 | 45,669 | | 10.7 | 20.0 |

See footnotes at end of table.

Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989-98 -- Con.

| _ | | | Births by | method of de | livery | | | Cesarean | delivery rate | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Year and race | | Vagi | nal | | Cesarean | | | | | Rate of vaginal birth |
| and Hispanic origin of mother | All births | Total | After previous cesarean | Total | Primary | Repeat | Not stated | Total ¹ | Primary ² | after previous cesarean ³ |
| Hispanic ⁷ | | | | | | | | | | |
| 1998 1997 1996 1995 1993 1993 1994 1993 1995 1994 1995 1995 1998 1991 1995 1990 1990 1990 1990 1990 1990 1989 10 | 734,661 709,767 701,339 679,768 665,026 654,418 643,271 623,085 595,073 532,249 | 580,143 563,114 558,105 539,731 525,928 514,493 494,338 472,126 458,242 385,462 | 17,803 17,942 18,491 17,396 16,206 14,586 13,111 11,615 10,395 8,549 | 150,317 142,907 139,554 136,640 135,569 136,279 133,369 129,752 122,969 105,268 | 88,763 84,410 83,392 82,662 81,961 82,576 81,211 80,228 76,027 64,905 | 61,554 58,497 56,162 53,978 53,608 53,703 52,158 49,524 46,942 40,363 | 4,201 3,746 3,680 3,397 3,529 3,646 15,564 21,207 13,862 41,519 | 20.6 20.2 20.0 20.2 20.5 20.9 21.2 21.6 21.2 21.5 | 13.6 13.4 13.4 13.7 13.9 14.2 14.4 14.8 14.5 14.5 | 22.4 23.5 24.8 24.4 23.2 21.4 20.1 19.0 18.1 17.5 |

Percent of all live births by cesarean delivery.
 Number of primary cesareans per 100 live births to women who have not had a previous cesarean.
 Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.
 Includes races other than white and black and origin not stated.
 Excludes data for Collahoma, which did not report method of delivery on the birth certificate.
 Excludes data for Colusiana, Maryland, Nebraska, Nevada, and Oklahoma, which did not report method of delivery on the birth certificate.
 Includes atl persons of Hispanic origin of any race.
 Excludes data for New Hampshire which did not report Hispanic origin.
 Excludes data for New Hampshire and Oklahoma which did not report Hispanic origin.
 Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

Table 40. Live births by method of delivery, and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by age and race and Hispanic origin of mother: United States, 1998

| Age and race and Hispanic origin of mother | Births by method of delivery | | | | | | Cesarean delivery rate | | | |
|-----------------------------------------------|------------------------------|-----------|-------------------------------|----------|---------|---------|------------------------|--------------------|----------------------|--------------------------------------------------|
| | All births | Vaginal | | Cesarean | | | | | | Rate of vaginal |
| | | Total | After previous cesarean | Total | Primary | Repeat | Not stated | Total ¹ | Primary ² | birth after previous cesarean ³ |
| All races ⁴ | 3,941,553 | 3,078,537 | 108,903 | 825,870 | 519,975 | 305,895 | 37,146 | 21.2 | 14.9 | 26.3 |
| Under 20 years | 494,357 | 418,743 | 3,614 | 71,195 | 63,425 | 7,770 | 4,419 | 14.5 | 13.3 | 31.7 |
| | 965.122 | 789,395 | 20.742 | 166.403 | 114.822 | 51.581 | 9,324 | 17.4 | 13.0 | 28.7 |
| 20-24 years | 1,083,010 | 847,952 | 31,292 | 224,878 | 140,031 | 84,847 | 9,324 10,180 | 21.0 | 14.6 | 26.9 |
| 25-29 years | | | | | | | | | | |
| 30-34 years | 889,365 | 666,110 | 32,966 | 215,010 | 121,144 | 93,866 | 8,245 | 24.4 | 16.1 | 26.0 |
| 35-39 years | 424,890 | 300,150 | 17,228 | 120,604 | 64,451 | 56,153 | 4,136 | 28.7 | 18.6 | 23.5 |
| 40-54 years | 84,809 | 56,187 | 3,061 | 27,780 | 16,102 | 11,678 | 842 | 33.1 | 23.3 | 20.8 |
| White, total | 3,118,727 | 2,440,113 | 86,495 | 649,987 | 406,439 | 243,548 | 28,627 | 21.0 | 14.7 | 26.2 |
| Under 20 years | 345,495 | 294,036 | 2,174 | 48,452 | 43,524 | 4,928 | 3,007 | 14.1 | 13.0 | 30.6 |
| 20-24 years | 736,664 | 604,682 | 14,991 | 125,070 | 87,234 | 37,836 | 6,912 | 17.1 | 12.9 | 28.4 |
| 25-29 years | 880,688 | 691,236 | 24,889 | 181,313 | 113,175 | 68,138 | 8,139 | 20.8 | 14.5 | 26.8 |
| 30-34 years | 737,532 | 555,115 | 27,408 | 175,776 | 98,335 | 77,441 | 6,641 | 24.0 | 15.7 | 26.1 |
| 35-39 years | 349,799 | 249,156 | 14,466 | 97,363 | 51,490 | 45,873 | 3,280 | 28.1 | 18.0 | 24.0 |
| 40-54 years | 68,549 | 45,888 | 2,567 | 22,013 | 12,681 | 9,332 | 648 | 32.4 | 22.6 | 21.6 |
| White, non-Hispanic | 2,361,462 | 1,842,420 | 67,787 | 495,550 | 315,138 | 180,412 | 23,492 | 21.2 | 15.1 | 27.3 |
| Under 20 years | 221,301 | 187,475 | 1,287 | 31,520 | 28,770 | 2,750 | 2,306 | 14.4 | 13.4 | 31.9 |
| 20-24 years | 511,101 | 418,333 | 10,234 | 87,174 | 62,220 | 24,954 | 5,594 | 17.2 | 13.2 | 29.1 |
| 25-29 years | 678,227 | 532,733 | 18,854 | 138,657 | 89,758 | 48,899 | 6,837 | 20.7 | 14.9 | 27.8 |
| 30-34 years | 603,639 | 456,854 | 22,735 | 141,278 | 81,273 | 60,005 | 5,507 | 23.6 | 15.8 | 27.5 |
| 35-39 years | 291.202 | 209,283 | 12.451 | 79,175 | 42.683 | 36,492 | 2.744 | 27.4 | 17.8 | 25.4 |
| 40-54 years | 55,992 | 37,742 | 2,226 | 17,746 | 10,434 | 7,312 | 504 | 32.0 | 22.7 | 23.3 |
| Black, total | 609,902 | 470,088 | 17,062 | 135,727 | 86,438 | 49,289 | 4,087 | 22.4 | 16.0 | 25.7 |
| Under 20 years | 131,226 | 109,684 | 1,312 | 20,758 | 18,091 | 2,667 | 784 | 15.9 | 14.3 | 33.0 |
| 20-24 years | 189,088 | 151,617 | 5,057 | 36,110 | 23,663 | 12,447 | 1,361 | 19.2 | 13.9 | 28.9 |
| 25-29 years | 139,302 | 105,613 | 5,002 | 32,754 | 19,024 | 13,730 | 935 | 23.7 | 15.9 | 26.7 |
| 30-34 years | 93,785 | 66,272 | 3,684 | 26,873 | 14,926 | 11,947 | 640 | 28.9 | 19.3 | 23.6 |
| 35-39 years | 46,657 | 30,754 | 1,715 | 15,614 | 8,589 | 7,025 | 289 | 33.7 | 22.8 | 19.6 |
| 40-54 years | 9,844 | 6,148 | 292 | 3,618 | 2,145 | 1,473 | 78 | 37.0 | 26.8 | 16.5 |
| Black, non-Hispanic | 593,127 | 457,186 | 16,510 | 131,999 | 84,169 | 47,830 | 3,942 | 22.4 | 16.0 | 25.7 |
| Under 20 years | 128,280 | 107,166 | 1,281 | 20,350 | 17,718 | 2,632 | 764 | 16.0 | 14.3 | 32.7 |
| 20-24 years | 184.263 | 147.727 | 4.915 | 35,222 | 23.040 | 12.182 | 1.314 | 19.3 | 13.9 | 28.7 |
| 25-29 years | 135,158 | 102,471 | 4,833 | 31,779 | 18,477 | 13,302 | 908 | 23.7 | 15.9 | 26.7 |
| 30-34 years | 90,827 | 64,160 | 3,548 | 26,054 | 14,530 | 11,524 | 613 | 28.9 | 19.3 | 23.5 |
| 35-39 years | 45,096 | 29,703 | 1,649 | 15,121 | 8,342 | 6,779 | 272 | 33.7 | 22.9 | 19.6 |
| 40-54 years | 9,503 | 5,959 | 284 | 3,473 | 2,062 | 1,411 | 71 | 36.8 | 26.7 | 16.8 |
| Hispanic ⁵ | 734,661 | 580,143 | 17,803 | 150,317 | 88,763 | 61,554 | 4,201 | 20.6 | 13.6 | 22.4 |
| Under 20 years | 124,104 | 106,475 | 898 | 16,896 | 14,736 | 2,160 | 733 | 13.7 | 12.2 | 29.4 |
| 20-24 years | 223.113 | 184,168 | 4,692 | 37,683 | 24,909 | 12,774 | 1.262 | 17.0 | 12.2 | 26.9 |
| 25-29 years | 196,012 | 153,363 | 5,819 | 41,594 | 22,658 | 18,936 | 1,202 | 21.3 | 13.3 | 23.5 |
| 30-34 years | 125.702 | 92.030 | 4.316 | 32.915 | 16.082 | 16.833 | 757 | 26.3 | 15.5 | 20.4 |
| 35-39 years | 54,195 | 36,690 | 1,779 | 17,179 | 8,257 | 8,922 | 326 | 31.9 | 19.1 | 16.6 |
| 40-54 years | 11,535 | 7,417 | 299 | 4,050 | 2,121 | 1,929 | 68 | 35.3 | 23.0 | 13.4 |
| 10 07 yours | 11,000 | 7,417 | 200 | -1,000 | ۲ ۲ ۲ | 1,523 | 00 | 00.0 | 20.0 | 10.4 |

Percent of all live births by cesarean delivery.
 Number of primary cesareans per 100 live births to women who have not had a previous cesarean.
 Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.
 Includes races other than white and black and origin not stated.
 Includes all persons of Hispanic origin of any race.

Table 41. Rates of cesarean delivery and vaginal birth after previous cesarean delivery by race and Hispanic origin of mother: United States, each State and territory, 1998

[By place of residence]

| | | С | esarean del | ivery rate | 1 | | <i>R</i> | ate of vag | inal births af | ter previol | is cesareai | 12 |
|----------------------|---------------------------|--------------|------------------|--------------|------------------|-----------------------|---------------------------|--------------|------------------|-------------|------------------|-----------------------|
| | | Wł | nite | Bla | nck | | | Wł | nite | Bla | ack | |
| State | All races ³ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ⁴ | All races ³ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ⁴ |
| United States 5 | 21.2 | 21.0 | 21.2 | 22.4 | 22.4 | 20.6 | 26.3 | 26.2 | 27.3 | 25.7 | 25.7 | 22.4 |
| Alabama | 24.0 | 24.7 | 24.8 | 22.8 | 22.8 | 20.7 | 21.6 | 21.1 | 20.8 | 22.6 | 22.6 | 29.2 |
| Alaska | 14.7 | 16.5 | 16.4 | 18.0 | 17.9 | 17.6 | 35.2 | 29.5 | 29.6 | * | * | |
| Arizona | 17.0 | 17.2 | 18.3 | 20.1 | 20.1 | 15.6 | 23.9 | 22.2 | 23.7 | 23.0 | 23.7 | 20.5 |
| Arkansas | 24.9 | 24.7 | 25.0 | 26.1 | 26.1 | 20.8 | 19.5 | 19.1 | 18.5 | 20.3 | 20.3 | 29.5 |
| California | 21.7 | 21.6 | 22.5 | 24.8 | 24.9 | 20.9 | 18.4 | 18.4 | 19.8 | 16.2 | 16.0 | 17.4 |
| Colorado | 16.4 | 16.4 | 16.7 | 16.9 | 17.1 | 15.7 | 34.9 | 34.9 | 34.4 | 33.5 | 33.5 | 36.0 |
| Connecticut | 20.1 | 20.1 | 20.4 | 20.6 | 20.7 | 18.7 | 31.8 | 32.3 | 32.8 | 29.0 | 28.7 | 31.6 |
| Delaware | 23.2 | 22.7 | 23.3 | 24.8 | 24.8 | 18.2 | 30.8 | 32.0 | 30.0 | 28.7 | 28.7 | 49.5 |
| District of Columbia | 20.8 | 17.8 | 21.3 | 22.1 | 22.0 | 12.2 | 25.6 | 24.5 | * | 25.4 | 25.3 | * |
| Florida | 22.4 | 22.9 | 22.1 | 21.2 | 21.1 | 24.9 | 22.8 | 22.7 | 25.0 | 22.8 | 23.1 | 17.0 |
| Georgia Hawaii | 20.8 15.6 | 20.7 16.8 | 21.3 16.4 | 21.5 18.7 | 21.5 19.1 | 15.1 17.1 | 23.3 39.7 | 23.6 33.3 | 23.3 33.8 | 22.5 | 22.4 | 24.8 37.4 |
| | | | | 10.7 | 19.1 | | | | | * | * | |
| Idaho Illinois | 15.7 19.4 | 15.6 19.4 | 15.5 20.3 | 19.5 | 19.5 | 16.5 16.9 | 36.4 31.6 | 36.7 32.2 | 36.1 31.9 | 28.5 | 28.5 | 39.4 33.4 |
| Indiana | 20.0 | 20.0 | 20.3 | 19.5 | 19.5 | 20.3 | 27.6 | 27.5 | 27.8 | 28.9 | 28.5 | 24.2 |
| lowa | 19.6 | 19.7 | 19.7 | 19.9 | 20.3 | 19.8 | 30.8 | 30.7 | 30.9 | 34.1 | 34.1 | 24.2 |
| Kansas | 18.6 | 18.5 | 18.7 | 20.6 | 20.3 | 17.2 | 23.8 | 23.8 | 23.3 | 24.6 | 24.4 | 28.5 |
| Kentucky | 22.8 | 22.9 | 22.9 | 20.0 | 20.8 | 17.2 | 23.0 | 23.6 | 23.5 | 24.0 | 24.4 | 30.7 |
| Louisiana | 26.0 | 26.8 | 26.8 | 25.1 | 25.2 | 26.4 | 13.1 | 10.8 | 10.8 | 16.6 | 16.6 | 30.7 |
| Maine | 19.7 | 19.8 | 19.8 | 23.1 | 26.9 | 22.1 | 30.3 | 30.0 | 30.2 | * | * | * |
| Maryland | 21.3 | 20.7 | 21.0 | 22.5 | 22.6 | 17.9 | 30.3 | 30.2 | 30.2 | 30.4 | 30.4 | 30.8 |
| Massachusetts | 20.9 | 21.1 | 21.5 | 21.6 | 22.0 | 17.9 | 32.8 | 32.6 | 32.4 | 30.9 | 31.8 | 33.3 |
| Michigan | 20.6 | 20.6 | 20.7 | 20.6 | 20.7 | 19.3 | 25.8 | 25.6 | 25.4 | 27.0 | 26.9 | 26.6 |
| Minnesota | 18.0 | 18.4 | 18.5 | 17.2 | 17.1 | 17.4 | 29.4 | 29.1 | 29.0 | 37.6 | 38.0 | 31.8 |
| Mississippi | 27.0 | 27.9 | 28.0 | 26.0 | 26.0 | 24.9 | 15.0 | 14.2 | 14.2 | 15.8 | 15.7 | * |
| Missouri | 20.6 | 20.7 | 20.8 | 20.0 | 20.0 | 19.3 | 29.6 | 29.4 | 29.5 | 30.5 | 30.6 | 24.9 |
| Montana | 18.9 | 18.6 | 18.5 | * | * | 21.7 | 31.8 | 32.6 | 33.3 | * | * | * |
| Nebraska | 20.6 | 20.7 | 21.0 | 21.8 | 21.9 | 18.3 | 28.0 | 28.4 | 27.8 | 20.7 | 20.9 | 33.9 |
| Nevada | 21.4 | 20.8 | 22.1 | 25.7 | 25.9 | 18.6 | 19.8 | 20.2 | 19.6 | 18.1 | 18.1 | 21.5 |
| New Hampshire | 18.5 | 18.5 | 18.6 | 17.2 | 17.2 | 18.0 | 38.5 | 38.3 | 38.0 | * | * | * |
| New Jersey | 25.4 | 25.5 | 25.4 | 25.5 | 25.0 | 26.3 | 33.4 | 32.4 | 33.3 | 37.1 | 38.8 | 28.4 |
| New Mexico | 16.4 | 16.8 | 17.7 | 20.5 | 20.8 | 16.1 | 35.2 | 33.5 | 35.2 | 40.4 | 40.0 | 32.7 |
| New York | 22.9 | 22.9 | 23.5 | 23.5 | 23.5 | 22.0 | 32.0 | 32.5 | 32.3 | 30.8 | 30.6 | 30.7 |
| North Carolina | 21.5 | 21.3 | 21.8 | 22.3 23.0 | 22.3 | 16.6 | 27.2 30.6 | 27.3 | 27.0 | 27.0 | 27.0 | 30.2 |
| North Dakota | 19.4 18.9 | 19.2 18.9 | 18.9 18.9 | 19.0 | 24.4 19.0 | 30.3 17.9 | 30.0 | 30.1 33.9 | 30.4 33.8 | 35.6 | 35.6 | 35.3 |
| Oklahoma | 22.8 | 22.6 | 22.8 | 24.2 | 24.1 | 20.2 | 22.0 | 22.4 | 21.7 | 23.6 | 24.5 | 29.2 |
| Oregon | 17.8 | 17.6 | 17.9 | 21.6 | 21.4 | 16.6 | 36.0 | 36.1 | 35.2 | 33.0 | 33.3 | 40.6 |
| Pennsylvania | 19.6 | 19.8 | 19.9 | 19.3 | 19.4 | 18.1 | 34.3 | 33.2 | 33.1 | 39.7 | 39.6 | 35.9 |
| Rhode Island | 19.5 | 19.9 | 21.3 | 19.4 | 19.7 | 16.7 | 30.9 | 31.0 | 29.1 | 27.4 | 27.5 | 34.8 |
| South Carolina | 23.4 | 23.5 | 23.6 | 23.4 | 23.4 | 19.4 | 21.5 | 21.9 | 21.6 | 20.7 | 20.7 | 31.3 |
| South Dakota | 21.5 | 21.5 | 21.5 | 29.8 | 28.4 | 27.0 | 21.6 | 22.6 | 22.3 | * | * | * |
| Tennessee | 22.6 | 22.5 | 22.7 | 23.0 | 23.0 | 18.3 | 22.6 | 21.8 | 21.6 | 25.0 | 25.1 | 26.8 |
| Texas | 23.5 | 23.3 | 24.1 | 25.1 | 25.2 | 22.7 | 18.2 | 18.1 | 19.4 | 17.4 | 17.5 | 17.0 |
| Utah | 16.0 | 15.9 | 15.9 | 23.8 | 24.7 | 16.4 | 33.5 | 33.3 | 32.7 | * | * | 37.3 |
| Vermont | 16.5 | 16.5 | 16.7 | * | * | * | 40.6 | 40.4 | 39.9 | * | * | * |
| Virginia | 21.2 | 20.8 | 21.1 | 22.5 | 22.5 | 17.9 | 30.7 | 30.6 | 30.1 | 30.0 | 30.1 | 37.2 |
| Washington | 17.9 | 17.7 | 17.8 | 22.7 | 22.5 | 17.2 | 33.4 | 33.6 | 32.5 | 24.1 | 24.4 | 38.6 |
| West Virginia | 24.1 | 24.1 | 24.1 | 23.3 | 23.4 | 21.5 | 23.1 | 22.9 | 22.9 | 26.7 | 26.7 | * |
| Wisconsin Wyoming | 16.0 18.6 | 16.5 18.4 | 16.5 18.2 | 14.1 | 14.1 | 15.4 19.5 | 33.8 31.0 | 34.1 31.3 | 34.0 32.2 | 28.5 | 28.4 | 35.7 |
| Puerto Rico | | | | 20 7 | | | | | | 0.0 | | |
| Virgin Islands | 35.1 | 35.4 27.0 | 29.1 | 30.7 | | 24.9 | 7.4 16.7 | 7.3 | * | 9.0 18.2 | * | * |
| Guam | 22.7 14.7 | 27.0 | 29.1 | 21.5 | 21.1 | ∠4.9 * | 16.7 35.3 | * | * | 18.2 | * | * |
| American Samoa | | 20.0 | 20.0 | | | | | | | | | |
| Northern Marianas | 17.1 | * | | * | | | * | * | | * | | |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.
 - Data not available.
 1 Percent of all live births by cesarean delivery.
 2 Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.
 3 Includes races other than white and black and origin not stated.
 4 Includes all persons of Hispanic origin of any race.
 5 Excludes data for the territories.

NOTE: Data on method of delivery for the Northern Marianas are substantially incomplete; see Table I in the Technical notes.

Table 42. Rates of cesarean delivery and vaginal birth after previous cesarean delivery, by selected maternal medical risk factors and complications of labor and/or delivery: United States, 1998

| | All births to mothers | Cesarean | delivery rate | Rate of |
|----------------------------------------|-------------------------------------------------|--------------------|----------------------|-------------------------------------------------------------|
| Medical risk factor and complication | with specified condition and/or procedure | Total ¹ | Primary ² | vaginal birth after previous cesarean ³ |
| Medical risk factors | | | | |
| Anemia | | 21.9 | 15.3 | 30.2 |
| Cardiac disease | | 25.1 | 18.2 | 30.7 |
| Acute or chronic lung disease | | 24.4 | 17.6 | 30.2 |
| Diabetes | | 36.1 | 25.9 | 19.2 |
| Genital herpes ⁴ | | 33.9 | 28.1 | 30.5 |
| Hydramnios/Oligohydramnios | | 36.4 | 31.0 | 24.1 |
| Hemoglobinopathy | | 24.8 | 18.5 | 31.3 |
| Hypertension, chronic | | 40.2 | 30.9 | 17.6 |
| Hypertension, pregnancy-associated | | 36.1 | 31.1 | 20.2 |
| Eclampsia | , | 48.8 | 44.6 | 17.9 |
| ncompetent cervix | | 32.9 | 26.4 | 27.4 |
| Renal disease | | 25.4 | 18.2 | 26.3 |
| Rh sensitization ⁵ | | 21.2 | 14.6 | 30.3 |
| Jterine bleeding ⁴ | | 31.2 | 24.6 | 25.7 |
| Complications of labor and/or delivery | | | | |
| -ebrile | | 30.2 | 28.4 | 47.1 |
| Meconium, moderate/heavy | | 20.4 | 17.4 | 45.9 |
| Premature rupture of membrane | | 25.4 | 22.4 | 40.7 |
| Abruptio placenta | | 59.0 | 54.6 | 17.8 |
| Placenta previa | | 81.5 | 77.5 | 4.1 |
| Other excessive bleeding ⁶ | | 30.3 | 24.0 | 30.0 |
| Seizures during labor | | 53.9 | 51.6 | 23.1 |
| Precipitous labor (less than 3 hours) | | 2.4 | 1.6 | 78.4 |
| Prolonged labor (more than 20 hours) | | 35.0 | 33.5 | 46.1 |
| Dysfunctional labor | | 64.9 | 62.5 | 16.7 |
| Breech/Malpresentation | | 84.2 | 82.6 | 5.5 |
| Cephalopelvic disproportion | | 96.2 | 95.8 | 1.6 |
| Cord prolapse | | 67.2 | 64.9 | 12.6 |
| Anesthetic complication | | 43.8 | 36.4 | 19.2 |
| Fetal distress | | 55.7 | 53.0 | 21.6 |

Percent of all live births by cesarean delivery.
Number of primary cesareans per 100 live births to women who have not had a previous cesarean.
Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.
Texas does not report this risk factor.
Kansas does not report this complication.

Table 43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 1998

| | | | | | | Per | iod of gestati | on ² | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Birthweight ¹ and | All | | | Preterm | | | | Term | ו | | Postterm | |
| race and Hispanic origin of mother | births | Total under 37 weeks | Under 28 weeks | 28-31 weeks | 32-35 weeks | 36 weeks | Total 37-41 weeks | 37-39 weeks | 40 weeks | 41 weeks | 42 weeks and over | Not stated |
| | | | | | | Nu | mber | | | | | |
| All races ³ | 3,941,553 | 452,275 | 29,037 | 47,486 | 212,210 | 163,542 | 3,156,116 | 1,859,198 | 853,416 | 443,502 | 292,766 | 40,396 |
| Less than 500 grams 500-999 grams 1,000-1,499 grams 2,000-2,499 grams 2,500-2,999 grams 3,000-3,499 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated | 5,950 22,471 28,555 58,921 182,311 649,658 1,457,401 1,135,572 335,087 54,809 6,200 4,618 | 5,755 21,836 26,536 48,671 92,678 118,357 90,571 37,552 7,696 1,265 202 1,156 | 5,524 16,104 3,968 977 667 1,069 - - - 728 | 217 5,044 15,087 11,194 4,105 4,243 4,944 2,542 - - - - 110 | 11 627 6,921 31,469 60,004 53,651 37,703 17,137 3,794 586 100 207 | 3 61 560 5,031 27,902 59,394 47,924 17,873 3,902 679 102 111 | 16 194 1,357 8,718 82,348 490,289 1,245,928 985,558 288,932 46,346 5,150 1,280 | 13 125 988 7,184 67,528 362,438 772,698 501,222 125,210 18,686 2,350 756 | 3 48 244 987 10,165 88,946 321,039 314,083 99,968 16,004 1,612 317 | 21 125 547 4,655 38,905 152,191 170,253 63,754 11,656 1,188 207 | 23 222 805 5,538 34,760 106,916 101,907 35,252 6,633 748 162 | 179 418 440 727 1,947 6,252 13,986 10,555 3,207 565 100 2,020 |
| | | | | | | Pe | rcent | | | | | |
| Very low birthweight ⁴ Low birthweight ⁵ | 1.4 7.6 | 12.0 43.3 | | 43.0 75.2 | 3.6 46.7 | 0.4 20.5 | 0.0 2.9 | 0.1 4.1 | 0.0 1.3 | 0.0 1.2 | 0.1 2.2 | 2.7 9.7 |
| | | | | | | Nu | mber | | | | | |
| White, total | 3,118,727 | 324,284 | 17,020 | 31,415 | 152,717 | 123,132 | 2,529,526 | 1,470,983 | 693,703 | 364,840 | 234,996 | 29,921 |
| Less than 500 grams 500-999 grams 1,000-1,499 grams 2,000-2,499 grams 2,000-2,499 grams 3,000-3,499 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated | 3,271 13,676 18,878 40,733 126,666 465,221 1,140,245 958,560 294,288 48,671 5,348 3,170 | 3,156 13,238 17,541 33,898 65,723 86,235 67,407 28,989 6,159 1,011 152 775 | 3,020 9,593 2,413 541 398 605 - - - - 450 | 128 3,184 10,040 7,781 2,565 2,496 3,283 1,860 - - - 78 | 6 427 4,701 22,107 43,114 38,852 26,941 12,890 2,978 469 73 159 | 2 34 387 3,469 19,646 44,282 37,183 14,239 3,181 542 79 88 | 9 141 902 5,838 56,001 350,263 979,405 835,568 254,587 41,300 4,452 1,060 | 7 90 663 4,843 46,062 259,390 607,113 424,057 109,766 16,381 1,992 619 | 2 34 151 653 6,850 62,985 252,155 266,497 88,337 14,372 1,406 261 | 17 88 342 3,089 27,888 120,137 145,014 56,484 10,547 1,054 1,054 | 19 138 521 3,644 24,531 83,134 85,469 30,858 5,883 662 137 | 106 278 297 476 1,298 4,192 10,299 8,534 2,684 477 82 1,198 |
| | | | | | | Pe | rcent | | | | | |
| Very low birthweight ⁴ Low birthweight ⁵ | 1.1 6.5 | 10.5 41.3 | | 42.6 75.6 | 3.4 46.1 | 0.3 19.1 | 0.0 2.5 | 0.1 3.5 | 0.0 1.1 | 0.0 1.0 | 0.1 1.8 | 2.4 8.5 |
| | | | | | | Nu | mber | | | | | |
| White, non-Hispanic | 2,361,462 | 240,300 | 12,523 | 23,219 | 111,691 | 92,867 | 1,930,558 | 1,118,994 | 530,325 | 281,239 | 176,615 | 13,989 |
| Less than 500 grams 500-999 grams 1,000-1,499 grams 2,000-2,499 grams 2,500-2,999 grams 3,000-3,499 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated | 2,426 10,205 14,486 31,418 96,061 341,150 843,988 740,782 235,239 39,319 4,146 2,242 | 2,370 9,966 13,586 26,359 50,799 64,852 47,309 19,434 4,233 714 102 576 | - - - - | 87 2,472 7,872 6,016 1,823 1,597 2,075 1,223 - - - 54 | 5 330 3,698 17,279 33,475 28,764 17,619 8,087 1,949 317 47 121 | 2 24 289 2,697 15,230 34,088 27,615 10,124 2,284 397 55 62 | 8 93 648 4,426 41,948 256,673 731,314 652,240 205,274 33,610 3,479 845 | 6 62 484 3,718 191,480 455,126 330,486 87,810 13,139 1,524 481 | 2 19 108 463 5,016 45,044 186,684 208,279 71,634 11,760 1,101 215 | 12 56 245 2,254 20,149 89,504 113,475 45,830 8,711 854 149 | 9 95 380 2,666 17,735 60,808 66,095 24,440 4,440 4,4757 525 105 | 48 137 157 253 648 1,890 4,557 4,013 1,292 238 40 716 |
| | | | | | | Pe | rcent | | | | | |
| Very low birthweight ⁴ Low birthweight ⁵ | 1.1 6.6 | 10.8 43.0 | | 45.0 78.9 | 3.6 49.1 | 0.3 19.7 | 0.0 2.4 | 0.0 3.5 | 0.0 1.1 | 0.0 0.9 | 0.1 1.8 | 2.6 9.4 |

Table 43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 1998 -- Con.

| | | | | | | Peri | od of gestatio | on 2 | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Birthweight ¹ and | All | | | Preterm | | | | Term | 1 | | Postterm | |
| race and Hispanic origin of mother | births | Total under 37 weeks | Under 28 weeks | 28-31 weeks | 32-35 weeks | 36 weeks | Total 37-41 weeks | 37-39 weeks | 40 weeks | 41 weeks | 42 weeks and over | Not stated |
| | | | | | | Nur | nber | | | | | |
| Black, total | 609,902 | 105,773 | 10,899 | 13,988 | 48,954 | 31,932 | 455,212 | 282,824 | 114,888 | 57,500 | 43,931 | 4,986 |
| Less than 500 grams 500-999 grams 1,000-1,499 grams 2,000-2,499 grams 2,500-2,999 grams 3,000-3,499 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated | 2,425 7,909 8,427 15,369 45,354 141,095 230,862 124,959 27,965 4,168 584 785 | 2,365 7,753 7,868 12,550 22,395 25,941 18,503 6,722 1,137 187 38 314 | 2,280 5,908 1,396 396 248 419 - - - 252 | 82 1,665 4,453 2,935 1,351 1,511 1,418 552 - - - 21 | 3 157 1,876 7,955 14,092 12,087 8,676 3,335 628 96 19 30 | 23 143 1,264 6,704 11,924 8,409 2,835 509 91 19 11 | 6 45 387 2,419 21,103 105,757 192,488 105,325 23,615 3,441 486 140 | 5 29 276 1,952 17,074 77,670 119,100 54,141 10,630 1,613 248 86 | 1 12 79 2,750 19,557 49,669 33,305 7,927 1,107 1,47 37 | 4 32 170 1,279 8,530 23,719 17,879 5,058 721 91 17 | 4 74 239 1,440 8,303 18,259 12,045 2,992 507 51 17 | 54 107 98 161 416 1,094 1,612 867 221 33 9 314 |
| | | | | | | Per | cent | | | | | |
| Very low birthweight ⁴ Low birthweight ⁵ | 3.1 13.0 | 17.1 50.2 | 90.0 96.1 | 44.4 75.1 | 4.2 49.2 | 0.5 25.5 | 0.1 5.3 | 0.1 6.8 | 0.1 2.7 | 0.1 2.6 | 0.2 4.0 | 5.5 17.9 |
| | | | | | | Nur | nber | | | | | |
| Black, non-Hispanic | 593,127 | 103,588 | 10,683 | 13,742 | 47,976 | 31,187 | 442,230 | 275,194 | 111,396 | 55,640 | 42,606 | 4,703 |
| Less than 500 grams 500-999 grams 1,000-1,499 grams 2,000-2,499 grams 2,500-2,999 grams 3,000-3,499 grams 3,000-3,499 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated | 2,380 7,741 8,304 15,120 44,467 137,883 224,378 120,741 26,839 3,980 557 737 | 2,322 7,591 7,758 12,344 21,957 25,378 18,051 6,553 1,103 1,84 37 310 | 2,237 5,781 1,375 386 244 411 - - - 249 | 82 1,634 4,393 2,876 1,323 1,486 1,389 539 | 3 154 1,850 7,837 13,834 11,823 8,468 3,253 611 94 19 30 | 22 140 1,245 6,556 11,658 8,194 2,761 492 90 18 11 | 6 45 381 20,695 103,334 187,046 101,793 22,662 3,281 464 136 | 5 29 272 1,926 16,755 75,907 115,788 52,384 10,261 1,544 239 84 | 1 12 78 294 2,682 19,113 48,287 32,136 7,570 1,047 140 36 | 4 31 167 1,258 8,314 22,971 17,273 4,831 690 85 16 | 4 73 235 1,411 8,113 17,750 11,602 2,869 483 50 16 | 52 101 92 154 404 1,058 1,531 793 205 32 6 275 |
| | | | | | | Per | cent | | | | | |
| Very low birthweight ⁴ Low birthweight ⁵ | 3.1 13.2 | 17.1 50.3 | 90.0 96.1 | 44.5 75.1 | 4.2 49.4 | 0.5 25.5 | 0.1 5.3 | 0.1 6.9 | 0.1 2.8 | 0.1 2.6 | 0.2 4.0 | 5.5 18.1 |
| | | | | | | Nur | nber | | | | | |
| Hispanic ⁶ | 734,661 | 82,282 | 4,332 | 8,052 | 40,264 | 29,634 | 580,496 | 342,311 | 157,931 | 80,254 | 56,900 | 14,983 |
| Less than 500 grams 500-999 grams 1,000-1,499 grams 1,500-1,999 grams 2,000-2,499 grams 2,500-2,999 grams 3,000-3,499 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated | 773 3,383 4,260 9,018 29,861 121,614 288,934 209,923 56,227 8,846 1,153 669 | 724 3,196 3,838 7,286 14,492 20,931 19,888 9,461 1,926 296 51 193 | 684 2,378 665 177 121 205 - - - 102 | 38 708 2,084 1,710 740 898 1,214 633 - - - 27 | 2 99 988 4,654 9,314 9,910 9,284 4,769 1,026 152 27 39 | 11 101 745 4,317 9,918 9,390 4,059 900 144 24 25 | 1 248 1,385 13,792 91,746 241,668 176,345 46,870 7,261 937 197 | 1 26 173 1,099 11,165 66,552 148,197 90,400 21,012 3,095 462 129 | - 43 189 1,811 17,579 63,760 55,907 15,816 2,481 289 41 | 5 32 97 816 7,615 29,711 30,038 10,042 1,685 186 27 | 8 42 142 968 6,731 21,892 19,789 6,113 1,059 126 30 | 48 133 132 205 609 2,206 5,486 4,328 1,318 230 39 249 |
| | | | | | | Per | cent | | | | | |
| Very low birthweight ⁴ Low birthweight ⁵ | 1.1 6.4 | 9.5 36.0 | | 35.3 65.8 | 2.7 37.4 | 0.4 17.5 | 0.1 2.7 | 0.1 3.6 | 0.0 1.3 | 0.0 1.2 | 0.1 2.0 | 2.1 7.6 |

Quantity zero.
Q.0 Quantity more than zero but less than 0.05.
Equivalents of the gram weights in pounds and ounces are shown in the Technical notes.
Expressed in completed weeks.
Includes races other than white and black and origin not stated.
Birthweight of less than 1,500 grams (3 lb 4 oz).
Birthweight of less than 2,500 grams (5 lb 8 oz).
Includes all persons of Hispanic origin of any race.

Table 44. Percent of live births very preterm and preterm and percent of live births of very low birthweight and low birthweight, by race and Hispanic origin of mother: United States, 1981-98

| | | | Very pre | eterm ¹ | | | | | Prete | ərm ² | | |
|-------------------|---------------------------|-------|------------------|--------------------|------------------|-----------------------|---------------------------|-------|------------------|------------------|------------------|-----------------------|
| Year | | W | hite | BI | lack | _ | | W | /hite | B | lack | |
| | All races ³ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ⁴ | All races ³ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ⁴ |
| 1998 | 1.96 | 1.57 | 1.52 | 4.11 | 4.15 | 1.72 | 11.6 | 10.5 | 10.2 | 17.5 | 17.6 | 11.4 |
| 1997 | 1.94 | 1.53 | 1.49 | 4.17 | 4.19 | 1.68 | 11.4 | 10.2 | 9.9 | 17.5 | 17.6 | 11.2 |
| 1996 | 1.89 | 1.48 | 1.43 | 4.13 | 4.17 | 1.66 | 11.0 | 9.8 | 9.5 | 17.4 | 17.5 | 10.9 |
| 1995 | 1.89 | 1.46 | 1.41 | 4.25 | 4.29 | 1.66 | 11.0 | 9.7 | 9.4 | 17.7 | 17.8 | 10.9 |
| 1994 | 1.91 | 1.45 | 1.39 | 4.32 | 4.36 | 1.67 | 11.0 | 9.6 | 9.3 | 18.1 | 18.2 | 10.9 |
| 1993 | 1.93 | 1.45 | 1.39 | 4.41 | 4.45 | 1.67 | 11.0 | 9.5 | 9.1 | 18.5 | 18.6 | 11.0 |
| 1992 ⁷ | 1.91 | 1.40 | 1.33 | 4.47 | 4.50 | 1.64 | 10.7 | 9.1 | 8.7 | 18.4 | 18.5 | 10.7 |
| 1991 ⁷ | 1.94 | 1.41 | 1.35 | 4.62 | 4.65 | 1.65 | 10.8 | 9.1 | 8.7 | 18.9 | 19.0 | 11.0 |
| 1990 ⁸ | 1.92 | 1.39 | 1.33 | 4.61 | 4.63 | 1.69 | 10.6 | 8.9 | 8.5 | 18.8 | 18.9 | 11.0 |
| 1989 ⁹ | 1.95 | 1.41 | 1.34 | 4.64 | 4.68 | 1.76 | 10.6 | 8.8 | 8.4 | 18.9 | 19.0 | 11.1 |
| 1988 | 1.96 | 1.42 | | 4.72 | | | 10.2 | 8.5 | | 18.7 | | |
| 1987 | 1.96 | 1.44 | | 4.61 | | | 10.2 | 8.5 | | 18.4 | | |
| 1986 | 1.90 | 1.41 | | 4.47 | | | 10.0 | 8.4 | | 18.0 | | |
| 1985 | 1.88 | 1.42 | | 4.37 | | | 9.8 | 8.2 | | 17.8 | | |
| 1984 | 1.83 | 1.38 | | 4.22 | | | 9.4 | 7.9 | | 17.1 | | |
| 1983 | 1.86 | 1.40 | | 4.34 | | | 9.6 | 8.0 | | 17.7 | | |
| 1982 | 1.84 | 1.40 | | 4.22 | | | 9.5 | 8.0 | | 17.4 | | |
| 1981 | 1.81 | 1.37 | | 4.13 | | | 9.4 | 7.9 | | 17.3 | | |

| | | | Very low bir | thweight ⁵ | | | | | Low birth | nweight ⁶ | | |
|-------------------|---------------------------|-------|------------------|-----------------------|------------------|-----------------------|---------------------------|-------|------------------|----------------------|------------------|-----------------------|
| | | W | hite | Bl | ack | _ | | W | <i>(hite</i> | Bi | lack | |
| | All races ³ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ⁴ | All races ³ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ⁴ |
| 1998 | 1.45 | 1.15 | 1.15 | 3.08 | 3.11 | 1.15 | 7.6 | 6.5 | 6.6 | 13.0 | 13.2 | 6.4 |
| 1997 | 1.42 | 1.13 | 1.12 | 3.04 | 3.05 | 1.13 | 7.5 | 6.5 | 6.5 | 13.0 | 13.1 | 6.4 |
| 1996 | 1.37 | 1.09 | 1.08 | 2.99 | 3.02 | 1.12 | 7.4 | 6.3 | 6.4 | 13.0 | 13.1 | 6.3 |
| 1995 | 1.35 | 1.06 | 1.04 | 2.97 | 2.98 | 1.11 | 7.3 | 6.2 | 6.2 | 13.1 | 13.2 | 6.3 |
| 1994 | 1.33 | 1.02 | 1.01 | 2.96 | 2.99 | 1.08 | 7.3 | 6.1 | 6.1 | 13.2 | 13.3 | 6.2 |
| 1993 | 1.33 | 1.01 | 1.00 | 2.96 | 2.99 | 1.06 | 7.2 | 6.0 | 5.9 | 13.3 | 13.4 | 6.2 |
| 1992 ⁷ | 1.29 | 0.96 | 0.94 | 2.96 | 2.97 | 1.04 | 7.1 | 5.8 | 5.7 | 13.3 | 13.4 | 6.1 |
| 1991 ⁷ | 1.29 | 0.96 | 0.94 | 2.96 | 2.97 | 1.02 | 7.1 | 5.8 | 5.7 | 13.6 | 13.6 | 6.1 |
| 1990 ⁸ | 1.27 | 0.95 | 0.93 | 2.92 | 2.93 | 1.03 | 7.0 | 5.7 | 5.6 | 13.3 | 13.3 | 6.1 |
| 1989 ⁹ | 1.28 | 0.95 | 0.93 | 2.95 | 2.97 | 1.05 | 7.0 | 5.7 | 5.6 | 13.5 | 13.6 | 6.2 |
| 1988 | 1.24 | 0.93 | | 2.86 | | | 6.9 | 5.7 | | 13.3 | | |
| 1987 | 1.24 | 0.94 | | 2.79 | | | 6.9 | 5.7 | | 13.0 | | |
| 1986 | 1.21 | 0.93 | | 2.73 | | | 6.8 | 5.7 | | 12.8 | | |
| 1985 | 1.21 | 0.93 | | 2.71 | | | 6.8 | 5.7 | | 12.6 | | |
| 1984 | 1.19 | 0.93 | | 2.60 | | | 6.7 | 5.6 | | 12.6 | | |
| 1983 | 1.19 | 0.92 | | 2.60 | | | 6.8 | 5.7 | | 12.8 | | |
| 1982 | 1.18 | 0.91 | | 2.56 | | | 6.8 | 5.6 | | 12.6 | | |
| 1981 | 1.16 | 0.91 | | 2.52 | | | 6.8 | 5.7 | | 12.7 | | |

Data not available.
Births of less than 32 completed weeks of gestation.
Births of less than 37 completed weeks of gestation.
Includes races other than white and black and origin not stated.
Includes all persons of Hispanic origin of any race.
Less than 1,500 grams (3 lb. 4 oz.).
Less than 2,500 grams (5 lb. 8 oz.).
Data by Hispanic origin exclude New Hampshire, which did not report Hispanic origin.
Data by Hispanic origin exclude New Hampshire, Oklahoma, which did not report Hispanic origin.

| | Low birthw | veight ¹ | | | | | | | Birthweight ² | | | | | | |
|----------------------------------------------------------|--------------|---------------------|-----------------|------------------------------|----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------------|----------------|
| Age and race and Hispanic origin of mother | Number | Percent | Total | Less than 500 grams | 500- 999 grams | 1,000- 1,499 grams | 1,500- 1,999 grams | 2,000- 2,499 grams | 2,500- 2,999 grams | 3,000- 3,499 grams | 3,500- 3,999 grams | 4,000- 4,499 grams | 4,500- 4,999 grams | 5,000- grams or more | Not stated |
| All races ³ | | | | | | | | | | | | | | | |
| All ages | 298,208 | 7.6 | 3,941,553 | 5,950 | 22,471 | 28,555 | 58,921 | 182,311 | 649,658 | 1,457,401 | 1,135,572 | 335,087 | 54,809 | 6,200 | 4,618 |
| Under 15 years | 1,241 | 13.1 | 9,462 | 34 | 134 | 142 | 242 | 689 | 2,343 | 3,755 | 1,785 | 309 | 17 | 4 | 8 |
| 15-19 years | 46,107 | 9.5 | 484,895 | 881 | 3,546 | 4,333 | 8,522 | 28,825 | 104,571 | 194,310 | 112,412 | 23,759 | 2,898 | 246 | 592 |
| 15 years | 2,853 | 11.5 | 24,777 | 59 | 280 | 272 | 576 | 1,666 | 5,819 | 10,063 | 5,004 | 915 | 93 | 6 | 24 |
| 16 years | 5,964 | 10.9 | 55,033 | 123 | 463 | 618 | 1,091 | 3,669 | 12,679 | 22,157 | 11,674 | 2,216 | 246 | 19 | 78 |
| 17 years | 9,129 | 9.8 | 93,421 | 167 | 713 | 831 | 1,696 | 5,722 | 20,787 | 37,561 | 21,144 | 4,175 | 461 | 46 | 118 |
| 18 years | 12,863 | 9.4 | 137,567 | 258 | 999 | 1,208 | 2,338 | 8,060 | 29,552 | 55,245 | 32,123 | 6,713 | 836 | 70 | 165 |
| 19 years | 15,298 | 8.8 | 174,097 | 274 | 1,091 | 1,404 | 2,821 | 9,708 | 35,734 | 69,284 | 42,467 | 9,740 | 1,262 | 105 | 207 |
| 20-24 years | 72,449 | 7.5 | 965,122 | 1,391 | 5,407 | 6,533 | 13,422 | 45,696 | 175,299 | 374,751 | 261,907 | 68,521 | 10,019 | 1,078 | 1,098 |
| 25-29 years | 71,960 | 6.7 | 1,083,010 | 1,528 | 5,447 | 6,745 | 14,264 | 43,976 | 165,650 | 398,043 | 329,127 | 99,177 | 16,176 | 1,723 | 1,154 |
| 30-34 years | 62,075 | 7.0 | 889,365 | 1,269 | 4,709 | 6,165 | 12,820 | 37,112 | 125,931 | 313,825 | 277,951 | 90,984 | 15,748 | 1,841 | 1,010 |
| 35-39 years | 35,636 | 8.4 | 424,890 | 682 | 2,609 | 3,696 | 7,678 | 20,971 | 62,387 | 144,795 | 128,302 | 43,755 | 8,359 | 1,043 | 613 |
| 40-44 years | 8,037 703 | 9.9 18.6 | 81,027 3.782 | 157 8 | 561 58 | 850 91 | 1,804 169 | 4,665 377 | 12,786 691 | 26,772 1,150 | 23,218 870 | 8,280 302 | 1,548 44 | 254 11 | 132 11 |
| White, total | | 1010 | 0,1 02 | 0 | | 0. | 100 | 0.11 | | ., | 0.0 | 001 | | | |
| All ages | 203,224 | 6.5 | 3,118,727 | 3,271 | 13,676 | 18,878 | 40,733 | 126,666 | 465,221 | 1,140,245 | 958,560 | 294,288 | 48,671 | 5,348 | 3,170 |
| Under 15 years | 522 | 10.9 | 4,801 | 18 | 59 | 67 | 99 | 279 | 1,033 | 1,953 | 1,068 | 206 | 12 | 3 | 4 |
| 15-19 years | 27,319 | 8.0 | 340,694 | 425 | 1,933 | 2,479 | 5,062 | 17,420 | 66,641 | 137,261 | 87,130 | 19,386 | 2,417 | 198 | 342 |
| 15 years | 1,448 | 9.5 | 15,233 | 29 | 129 | 134 | 313 | 843 | 3,156 | 6,339 | 3,515 | 691 | 68 | 6 | 10 |
| 16 years | 3,383 | 9.3 | 36,439 | 66 | 274 | 341 | 613 | 2,089 | 7,615 | 14,821 | 8,611 | 1,747 | 202 | 13 | 47 |
| 17 years | 5,346 | 8.2 | 64,951 | 72 | 392 | 479 | 1,028 | 3,375 | 13,189 | 26,251 | 16,262 | 3,408 | 397 | 36 | 62 |
| 18 years | 7,806 | 8.0 | 97,971 | 122 | 548 | 684 | 1,395 | 5,057 | 19,217 | 39,500 | 25,100 | 5,519 | 681 | 52 | 96 |
| 19 years | 9,336 | 7.4 | 126,100 | 136 | 590 | 841 | 1,713 | 6,056 | 23,464 | 50,350 | 33,642 | 8,021 | 1,069 | 91 | 127 |
| 20-24 years | 46,926 | 6.4 | 736,664 | 691 | 3,101 | 4,125 | 8,770 | 30,239 | 121,628 | 284,953 | 214,318 | 58,526 | 8,699 | 913 | 701 |
| 25-29 years | 50,913 | 5.8 | 880,688 | 888 | 3,369 | 4,614 | 10,278 | 31,764 | 122,832 | 319,637 | 282,660 | 87,926 | 14,400 | 1,490 | 830 |
| 30-34 years | 45,299 | 6.1 | 737,532 | 710 | 3,070 | 4,350 | 9,460 | 27,709 | 95,618 | 256,365 | 242,049 | 81,649 | 14,192 | 1,611 | 749 |
| 35-39 years | 25,872 | 7.4 | 349,799 | 434 | 1,730 | 2,562 | 5,610 | 15,536 | 47,327 | 117,792 | 110,866 | 39,065 | 7,541 | 897 | 439 |
| 40-44 years | 5,792 | 8.9 | 65,485 | 101 | 367 | 602 | 1,317 | 3,405 | 9,604 | 21,389 | 19,732 | 7,275 | 1,371 | 225 | 97 |
| 45-54 years | 581 | 19.0 | 3,064 | 4 | 47 | 79 | 137 | 314 | 538 | 895 | 737 | 255 | 39 | 11 | 8 |
| White, non-Hispanic | 454 500 | | 0.004.400 | 0.400 | 10.005 | 4.4.400 | 04.440 | 00.004 | 044.450 | 0.40,000 | 740 700 | 005 000 | 00.040 | 4.4.40 | 0.040 |
| All ages | 154,596 | 6.6 | 2,361,462 | 2,426 | 10,205 | 14,486 | 31,418 | 96,061 | 341,150 | 843,988 | 740,782 | 235,239 | 39,319 | 4,146 | 2,242 |
| Under 15 years | 243 | 11.4 | 2,132 | 11 | 37 | 29 | 57 | 109 | 414 | 846 | 499 | 122 | 6 | - | 2 |
| 15-19 years | 18,147 | 8.3 | 219,169 | 296 | 1,352 | 1,703 | 3,405 | 11,391 | 41,232 | 85,619 | 58,122 | 13,896 | 1,800 | 138 | 215 |
| 15 years | 770 | 9.9 | 7,767 | 23 | 75 | 74 | 178 | 420 | 1,495 | 3,076 | 1,924 | 444 | 47 | 4 | 7 |
| 16 years | 2,021 | 9.9 | 20,464 | 45 | 190 | 209 | 377 | 1,200 | 4,054 | 8,021 | 5,066 | 1,135 | 135 | 7 | 25 |
| 17 years | 3,456 | 8.6 | 40,388 | 44 | 269 | 323 | 657 | 2,163 | 7,824 | 15,872 | 10,495 | 2,404 | 280 | 25 | 32 |
| 18 years | 5,275 | 8.2 | 64,472 | 78 | 384 | 484 | 964 | 3,365 | 12,234 | 25,360 | 16,986 | 3,989 | 523 | 37 | 68 |
| 19 years | 6,625 | 7.7 | 86,078 | 106 | 434 | 613 | 1,229 | 4,243 | 15,625 | 33,290 | 23,651 | 5,924 | 815 | 65 | 83 |
| 20-24 years | 33,256 | 6.5 | 511,101 | 480 | 2,187 | 3,003 | 6,285 | 21,301 | 82,762 | 192,491 | 151,498 | 43,314 | 6,662 | 664 | 454 |
| 25-29 years | 39,366 | 5.8 | 678,227 | 656 | 2,578 | 3,540 | 7,966 | 24,626 | 92,974 | 241,941 | 220,369 | 70,244 | 11,550 | 1,175 | 608 |
| ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | 37,016 | 6.1 | 603,639 | 559 | 2,400 | 3,544 | 7,832 | 22,681 | 76,694 | 207,587 | 200,270 | 68,393 | 11,835 | 1,283 | 561 |
| 30-34 years | | | | | | a' | | | | a= | | | a' = = ' | | |
| 30-34 years | 21,353 | 7.3 | 291,202 | 341 | 1,327 | 2,098 | 4,673 | 12,914 | 38,910 | 97,372 | 93,163 | 33,030 | 6,339 | 710 | 325 |
| 30-34 years 35-39 years 40-44 years 45-54 years | | | | | | 2,098 497 72 | 4,673 1,082 118 | 12,914 2,789 250 | 38,910 7,724 440 | 97,372 17,391 741 | 93,163 16,269 592 | 33,030 6,027 213 | 6,339 1,098 29 | 710 166 10 | 325 71 6 |

Table 45. Number and percent low birthweight and number of live births by birthweight, by age and race and Hispanic origin of mother: United States, 1998

| | Low birthw | eight ¹ | | | | | | | Birthweight ² | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Age and race and Hispanic origin of mother | Number | Percent | Total | Less than 500 grams | 500- 999 grams | 1,000- 1,499 grams | 1,500- 1,999 grams | 2,000- 2,499 grams | 2,500- 2,999 grams | 3,000- 3,499 grams | 3,500- 3,999 grams | 4,000- 4,499 grams | 4,500- 4,999 grams | 5,000- grams or more | Not stated |
| Black, total | | | | | | | | | | | | | | | |
| All ages | 79,484 | 13.0 | 609,902 | 2,425 | 7,909 | 8,427 | 15,369 | 45,354 | 141,095 | 230,862 | 124,959 | 27,965 | 4,168 | 584 | 785 |
| Under 15 years | 673 17,330 1,309 2,362 3,494 4,663 5,502 22,700 16,835 12,790 7,441 1,654 61 | 15.7 13.7 15.2 14.4 13.9 13.4 13.1 12.0 12.1 13.7 16.0 17.5 17.6 | 4,289 126,937 8,599 16,414 25,090 34,885 41,949 189,088 139,302 93,785 46,657 9,496 348 | 16 425 27 55 90 124 129 660 589 478 215 38 4 | 71 1,525 144 171 306 429 475 2,149 1,873 1,394 740 154 3 | 68 1,730 258 329 498 515 2,227 1,816 1,483 915 182 6 | 135 3,198 242 439 615 870 1,032 4,186 3,264 2,602 1,608 360 16 | 383 10,452 766 1,439 2,154 2,742 3,351 13,478 9,293 6,833 3,963 3,963 920 32 | 1,216 34,005 2,426 4,563 6,832 9,267 10,917 45,296 29,661 19,048 9,748 2,044 77 | 1,659 50,192 3,365 6,464 9,936 13,875 16,552 73,896 52,343 33,615 15,920 3,121 116 | 647 21,396 1,287 2,608 4,113 5,955 7,433 38,181 31,338 21,236 10,102 1,994 65 | 87 3,454 178 362 619 956 1,339 7,677 7,601 5,807 2,760 552 27 | 4 368 22 32 50 115 149 986 1,188 1,002 523 96 1 | 1 33 6 13 11 116 166 159 93 16 | 2 159 12 20 40 41 46 236 170 128 70 128 70 19 1 |
| Black, non-Hispanic | | | | | | | | | | | | | | | |
| All ages | 78,012 | 13.2 | 593,127 | 2,380 | 7,741 | 8,304 | 15,120 | 44,467 | 137,883 | 224,378 | 120,741 | 26,839 | 3,980 | 557 | 737 |
| Under 15 years | 656 17,053 1,294 2,322 3,436 4,587 5,414 22,307 16,537 12,542 7,253 1,607 57 | 15.6 13.8 15.4 14.5 13.5 13.2 12.1 12.3 13.8 16.1 17.6 17.2 | 4,204 124,076 8,420 16,021 24,542 34,089 41,004 184,263 135,158 90,827 45,096 9,172 331 | 16 420 27 55 90 119 129 648 580 469 206 38 3 | 67 1,500 143 170 298 424 465 2,112 1,831 1,368 711 150 2 | 67 1,705 130 253 326 489 507 2,200 1,790 1,454 903 179 6 | 130 3,155 238 435 607 864 1,011 4,111 3,221 2,560 1,580 347 16 | 376 10,273 756 1,409 2,115 2,691 3,302 13,236 9,115 6,691 3,853 893 30 | 1,199 33,308 2,370 4,450 6,703 9,074 10,711 44,363 28,847 18,573 9,531 1,987 75 | 1,627 49,051 3,288 6,315 9,702 13,562 16,184 71,936 50,808 32,484 15,338 3,018 116 | 629 20,784 1,261 2,526 4,006 5,790 7,201 37,001 30,216 20,445 9,703 1,905 58 | 86 3,346 176 355 601 919 1,295 7,393 7,284 5,559 2,615 532 24 | 4 353 20 32 50 107 144 935 1,139 953 504 91 1 | 1 31 2 6 12 11 107 162 152 89 15 | 2 150 11 19 38 38 44 221 165 119 63 17 |
| All ages | 47,295 | 6.4 | 734,661 | 773 | 3,383 | 4,260 | 9,018 | 29,861 | 121,614 | 288,934 | 209,923 | 56,227 | 8,846 | 1,153 | 669 |
| Under 15 years 15-19 years 15 years 16 years 17 years 18 years 19 years 20-24 years 20-24 years 30-34 years 35-39 years 40-44 years 45-54 years | 285 9,145 665 1,375 1,899 2,519 2,687 13,519 11,157 7,847 4,262 997 83 | 10.5 7.5 8.8 8.6 7.7 7.5 6.8 6.1 5.7 6.2 7.9 9.0 17.4 | 2,716 121,388 7,525 16,079 24,630 33,400 39,754 223,113 196,012 125,702 54,195 11,056 479 | 6 121 4 19 27 43 28 197 214 132 82 82 19 2 | 23 577 51 82 124 160 906 754 642 399 74 8 | 37 787 61 137 155 202 232 1,089 1,030 764 442 105 6 | 45 1,646 135 237 375 418 481 2,468 2,212 1,546 868 217 16 | 174 6,014 414 900 1,218 1,696 1,786 8,859 6,947 4,763 2,471 582 51 | 630 25,575 1,682 3,628 5,421 6,999 7,845 38,640 29,156 17,960 7,824 1,744 85 | 1,123 51,673 3,314 6,829 10,422 14,139 16,969 91,672 75,505 46,077 19,014 3,732 138 | 583 28,793 1,591 3,550 5,759 8,025 9,868 61,973 60,089 38,973 16,228 3,157 127 | 82 5,424 246 608 985 1,513 2,072 14,882 16,924 12,236 5,528 1,115 36 | 7 602 22 61 110 162 247 1,978 2,720 2,176 1,108 247 8 | 3 61 2 7 10 16 26 245 306 307 174 57 | 3 115 3 21 24 27 40 204 155 126 57 7 2 |

Table 45. Number and percent low birthweight and number of live births by birthweight, by age and race and Hispanic origin of mother: United States, 1998--Con.

- Quantity zero. 1 Less than 2,500 grams (5 lb 8 oz). 2 Equivalents of gram weights in terms of pounds and ounces are shown in Technical notes. 3 Includes races other than white and black and origin not stated.

Includes faces offer than write and block and signal
 Includes all persons of Hispanic origin of any race.

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Table 46. Number and percent of births of low birthweight by race and Hispanic origin of mother: United States, each State and territory, 1998

[By place of residence. Low birthweight is birthweight of less than 2,500 grams (5 lb 8 oz)]

| | | | Numi | ber | | | | | Per | cent | | |
|------------------------------|---------------------------|-----------------|------------------|----------------|------------------|-----------------------|---------------------------|------------|------------------|--------------|------------------|-----------------------|
| | | Wł | nite | Bla | ack | | | W | nite | Bla | ack | _ |
| State | All races ¹ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ² | All races ¹ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ² |
| United States ³ | 298,208 | 203,224 | 154,596 | 79,484 | 78,012 | 47,295 | 7.6 | 6.5 | 6.6 | 13.0 | 13.2 | 6.4 |
| Alabama | 5,747 | 3,040 | 2,963 | 2,663 | 2,661 | 80 | 9.3 | 7.3 | 7.4 | 13.3 | 13.3 | 5.9 |
| Alaska | 593 | 373 | 341 | 42 | 42 | 38 | 6.0 | 5.6 | 5.6 | 10.5 | 10.9 | 6.4 |
| Arizona | 5,326 | 4,503 | 2,546 | 323 | 311 | 1,947 | 6.8 | 6.6 | 6.6 | 12.2 | 12.6 | 6.6 |
| Arkansas | 3,271 | 2,128 | 2,014 | 1,109 | 1,109 | 113 | 8.9 | 7.5 | 7.6 | 13.9 | 13.9 | 6.6 |
| California | 32,476 | 24,060 | 10,170 | 4,268 | 4,124 | 13,875 | 6.2 | 5.7 | 5.8 | 11.6 | 11.7 | 5.6 |
| Colorado | 5,138 3,406 | 4,519 2,579 | 3,318 1,873 | 382 726 | 368 655 | 1,230 605 | 8.6 7.8 | 8.3 7.0 | 8.3 6.5 | 13.3 13.3 | 13.3 13.1 | 8.4 9.7 |
| Delaware | 885 | 480 | 420 | 388 | 388 | 58 | 8.4 | 6.2 | 6.1 | 14.8 | 14.9 | 7.7 |
| District of Columbia | 1,003 | 120 | 75 | 865 | 861 | 43 | 13.1 | 5.9 | 5.7 | 15.8 | 15.9 | 5.9 |
| Florida | 15,752 | 9,943 | 7,435 | 5,419 | 5,344 | 2,583 | 8.1 | 6.8 | 6.9 | 12.2 | 12.3 | |
| Georgia | 10,458 | 5,018 | 4,563 | 5,243 | 5,215 | 439 | 8.5 | 6.4 | 6.6 | 12.7 | 12.7 | 5.3 |
| Hawaii Idaho | 1,284 1,164 | 254 1,131 | 217 945 | 59 5 | 57 5 | 169 164 | 7.5 6.0 | 6.2 6.0 | 6.2 5.9 | 10.7 | 11.0 | 7.7 6.8 |
| Illinois | 14,568 | 8,955 | 945 6,794 | 5,048 | 5,024 | 2,181 | 6.0 8.0 | 6.4 | 5.9 6.5 | 14.2 | 14.2 | 6.3 |
| Indiana | 6,718 | 5,388 | 5,116 | 1,241 | 1,236 | 2,101 | 7.9 | 7.2 | 7.3 | 13.5 | 13.5 | 6.9 |
| lowa | 2,385 | 2,178 | 2,044 | 140 | 135 | 106 | 6.4 | 6.2 | 6.2 | 12.8 | 13.1 | 6.1 |
| Kansas | 2,691 | 2,226 | 1,966 | 362 | 361 | 235 | 7.0 | 6.5 | 6.6 | 13.0 | 13.1 | 5.9 |
| Kentucky | 4,416 | 3,719 | 3,668 | 653 | 651 | 52 | 8.1 | 7.6 | 7.6 | 13.5 | 13.5 | 6.9 |
| Louisiana | 6,757 | 2,656 | 2,561 | 3,999 | 3,995 | 97 | 10.1 | 7.0 | 7.0 | 14.6 | 14.6 | 7.3 |
| Maine | 800 | 774 | 744 | 7 | 7 | 11 | 5.8 | 5.8 | 5.9 | * | * | * |
| Maryland | 6,232 | 2,859 | 2,627 | 3,113 | 3,097 | 217 | 8.7 | 6.4 | 6.4 | 13.0 | 13.1 | 6.1 |
| Massachusetts | 5,630 | 4,532 | 3,923 | 798 | 701 | 677 | 6.9 | 6.5 | 6.3 | 10.2 | 11.1 | 7.8 |
| Michigan | 10,403 | 6,781 | 5,847 | 3,341 | 3,315 | 392 | 7.8 | 6.4 | 6.3 | 13.8 | 13.9 | 6.6 |
| Minnesota | 3,788 | 3,108 | 2,839 | 404 | 397 | 169 | 5.8 | 5.4 | 5.6 | 11.0 | 11.1 | 5.7 |
| Mississippi | 4,337 5,890 | 1,655 4,189 | 1,639 | 2,644 1,599 | 2,642 | 16 | 10.1 7.8 | 7.2 6.7 | 7.3 6.7 | 13.7 | 13.7 | 6.3 |
| Missouri Montana | 5,890 | 4,189 | 4,067 605 | 1,599 | 1,596 3 | 123 25 | 7.0 | 6.9 | 6.8 | 14.0 | 14.1 | 7.4 |
| Nebraska | 1,534 | 1,323 | 1,144 | 151 | 151 | 145 | 6.5 | 6.2 | 6.1 | 12.2 | 12.3 | 6.6 |
| Nevada | 2,172 | 1,689 | 1,137 | 299 | 294 | 552 | 7.6 | 6.9 | 7.3 | 13.3 | 13.5 | 6.3 |
| New Hampshire | 821 | 789 | 739 | 10 | 7 | 11 | 5.7 | 5.6 | 5.5 | * | * | * |
| New Jersey | 9,155 | 5,663 | 4,256 | 2,842 | 2,679 | 1,513 | 8.0 | 6.7 | 6.4 | 13.3 | 13.8 | 7.4 |
| New Mexico New York | 2,039 20,198 | 1,739 12,430 | 749 7,826 | 57 6,472 | 52 5,996 | 1,010 4,060 | 7.6 7.8 | 7.7 6.7 | 8.1 6.3 | 11.4 11.9 | 11.3 12.4 | 7.5 7.8 |
| North Carolina | 9,854 | 5,578 | 5,089 | 3,924 | 3,990 | 4,000 | 8.8 | 7.0 | 7.1 | 13.9 | 13.9 | 6.2 |
| North Dakota | 518 | 456 | 437 | 16 | 15 | 7 | 6.5 | 6.5 | 6.5 | * | * | * |
| Ohio | 11,817 | 8,586 | 8,324 | 3,009 | 2,950 | 268 | 7.7 | 6.7 | 6.7 | 13.2 | 13.2 | 7.7 |
| Oklahoma | 3,529 | 2,571 | 2,328 | 595 | 579 | 214 | 7.2 | 6.6 | 6.7 | 12.5 | 12.5 | 6.0 |
| Oregon | 2,426 | 2,161 | 1,787 | 95 | 94 | 378 | 5.4 | 5.2 | 5.1 | 9.8 | 9.9 | 5.8 |
| Pennsylvania Rhode Island | 11,077 949 | 8,000 778 | 7,333 529 | 2,795 110 | 2,748 97 | 647 146 | 7.6 7.6 | 6.6 7.1 | 6.4 6.9 | 13.5 11.4 | 13.6 11.8 | 9.4 7.9 |
| South Carolina | 5,129 | 2,418 | 2,345 | 2,648 | 2,644 | 76 | 9.5 | 7.1 | 7.1 | 14.0 | 14.0 | 5.8 |
| South Dakota | 599 | 480 | 472 | 9 | 9 | 9 | 5.8 | 5.7 | 5.7 | * | * | * |
| Tennessee | 7,008 | 4,483 | 4,359 | 2,411 | 2,408 | 130 | 9.1 | 7.6 | 7.6 | 14.3 | 14.3 | 6.5 |
| Texas | 25,402 | 19,538 | 9,397 | 5,061 | 4,990 | 10,135 | 7.4 | 6.7 | 6.7 | 12.6 | 12.6 | 6.7 |
| Utah | 3,044 | 2,853 | 2,493 | 42 | 41 | 352 | 6.7 | 6.6 | 6.6 | 14.9 | 15.6 | 7.2 |
| Vermont | 428 | 424 4,355 | 412 3,994 | - 2 770 | - 2,762 | 1 379 | 6.5 7.9 | 6.5 | 6.6 | 12.7 | 12.6 | |
| Virginia Washington | 7,468 4,543 | 4,355 3,704 | 3,994 3,023 | 2,779 311 | 2,762 | 572 | 7.9 5.7 | 6.4 5.4 | 6.4 5.3 | 12.7 | 9.8 | |
| West Virginia | 1,669 | 1,556 | 1,550 | 102 | 102 | 5 | 8.0 | 7.8 | 7.9 | 13.4 | 13.5 | |
| Wisconsin | 4,400 | 3,314 | 3,080 | 889 | 885 | 238 | 6.5 | 5.7 | 5.6 | 13.6 | 13.7 | 6.5 |
| Wyoming | 557 | 518 | 473 | 13 | 13 | 44 | 8.9 | 8.8 | 8.9 | * | * | 7.5 |
| Puerto Rico | 6,600 | 6,115 | | 483 | | | 10.9 | 11.0 | | 10.5 | | |
| Virgin Islands | 165 | 14 | 4 | 144 | 129 | 18 | 9.2 | * | * | 10.3 | 10.3 | * |
| Guam American Samoa | 328 51 | 21 | 18 | 5 | 5 | 3 | 7.6 3.0 | 6.1 | | * | | |
| | 51 | - | | - | | | 3.0 | | | | | |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.
 1 Data not available.
 1 Includes races other than white and black and origin not stated.
 2 Includes all persons of Hispanic origin of any race.
 3 Excludes data for the territories.

Table 47. Number and percent of births of very low birthweight by race and Hispanic origin of mother: United States, each State and territory, 1998

[By place of residence. Very low birthweight is birthweight of less than 1,500 grams (3 lb 4 oz)]

| | | | Numl | ber | | | | | Per | cent | | |
|----------------------------|---------------------------|--------------|------------------|-------------|------------------|-----------------------|---------------------------|------------|------------------|------------|------------------|-----------------------|
| | | WI | nite | Bla | ack | | | WI | nite | Bla | ack | _ |
| State | All races ¹ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ² | All races ¹ | Total | Non- Hispanic | Total | Non- Hispanic | Hispanic ² |
| United States ³ | 56,976 | 35,825 | 27,117 | 18,761 | 18,425 | 8,416 | 1.4 | 1.1 | 1.1 | 3.1 | 3.1 | 1.1 |
| Alabama | 1,214 | 544 | 530 | 661 | 661 | 14 | 2.0 | 1.3 | 1.3 | 3.3 | 3.3 | * |
| Alaska | 123 | 80 | 73 | 13 | 13 | 7 | 1.2 | 1.2 | 1.2 | * | * | * |
| Arizona | 881 | 726 | 404 | 69 | 68 | 319 | 1.1 | 1.1 | 1.0 | 2.6 | 2.8 | 1.1 |
| Arkansas | 617 | 393 | 371 | 221 | 221 | 22 | 1.7 | 1.4 | 1.4 | 2.8 | 2.8 | 1.3 |
| California | 5,986 | 4,358 | 1,773 | 968 | 938 | 2,581 | 1.1 | 1.0 | 1.0 | 2.6 | 2.7 | 1.0 |
| Colorado Connecticut | 794 734 | 683 505 | 482 341 | 86 218 | 84 191 | 203 140 | 1.3 1.7 | 1.3 1.4 | 1.2 1.2 | 3.0 4.0 | 3.0 3.8 | 1.4 2.3 |
| Delaware | 178 | 81 | 73 | 94 | 94 | 6 | 1.7 | 1.4 | 1.1 | 3.6 | 3.6 | 2.0 |
| District of Columbia | 234 | 17 | 14 | 214 | 212 | 4 | 3.0 | * | * | 3.9 | 3.9 | * |
| Florida | 3,095 | 1,800 | 1,330 | 1,239 | 1,215 | 492 | 1.6 | 1.2 | 1.2 | 2.8 | 2.8 | 1.2 |
| Georgia Hawaii | 2,150 231 | 885 51 | 801 47 | 1,241 17 | 1,235 17 | 80 25 | 1.8 1.4 | 1.1 1.2 | 1.2 1.3 | 3.0 | 3.0 | 1.0 1.1 |
| Idaho | 189 | 180 | 150 | 1 | 1 | 23 | 1.4 | 1.2 | 0.9 | * | * | 1.1 |
| Illinois | 2,868 | 1,648 | 1,252 | 1,135 | 1,128 | 401 | 1.6 | 1.2 | 1.2 | 3.2 | 3.2 | 1.2 |
| Indiana | 1,170 | 893 | 848 | 265 | 265 | 44 | 1.4 | 1.2 | 1.2 | 2.9 | 2.9 | 1.2 |
| lowa | 461 | 404 | 377 | 43 | 43 | 21 | 1.2 | 1.1 | 1.1 | 3.9 | 4.2 | 1.2 |
| Kansas | 533 | 429 | 379 | 89 | 89 | 47 | 1.4 | 1.3 | 1.3 | 3.2 | 3.2 | 1.2 |
| Kentucky | 881 | 733 | 727 | 145 | 145 | 7 | 1.6 | 1.5 | 1.5 | 3.0 | 3.0 | * |
| Louisiana | 1,416 | 462 | 441 | 942 | 942 | 21 | 2.1 | 1.2 | 1.2 | 3.4 | 3.4 | 1.6 |
| Maine | 132 | 129 | 124 | 3 | 3 | 1 | 1.0 | 1.0 | 1.0 | * | * | * |
| Maryland | 1,322 | 483 | 423 | 791 | 789 | 54 | 1.8 | 1.1 | 1.0 | 3.3 | 3.3 | 1.5 |
| Massachusetts | 1,047 | 818 | 670 | 187 | 161 | 162 | 1.3 | 1.2 | 1.1 | 2.4 | 2.6 | 1.9 |
| Michigan | 2,038 | 1,214 | 1,036 | 780 | 772 | 69 | 1.5 | 1.2 | 1.1 | 3.2 | 3.2 | 1.2 |
| Minnesota | 678 | 559 | 523 | 86 | 85 | 30 | 1.0 | 1.0 | 1.0 | 2.3 | 2.4 | 1.0 |
| Mississippi Missouri | 850 1,053 | 274 675 | 269 654 | 573 364 | 573 364 | 5 19 | 2.0 1.4 | 1.2 1.1 | 1.2 1.1 | 3.0 3.2 | 3.0 3.2 | * |
| Montana | 113 | 91 | 83 | 2 | 2 | 6 | 1.4 | 1.0 | 0.9 | 3.2 | 3.2 | * |
| Nebraska | 300 | 246 | 227 | 45 | 45 | 17 | 1.3 | 1.1 | 1.2 | 3.6 | 3.7 | * |
| Nevada | 355 | 260 | 171 | 63 | 61 | 91 | 1.2 | 1.1 | 1.1 | 2.8 | 2.8 | 1.0 |
| New Hampshire | 158 | 151 | 141 | 2 | - | 1 | 1.1 | 1.1 | 1.1 | * | * | * |
| New Jersey New Mexico | 1,860 288 | 1,023 250 | 746 126 | 728 10 | 685 10 | 293 126 | 1.6 1.1 | 1.2 1.1 | 1.1 1.4 | 3.4 | 3.5 | 1.4 0.9 |
| New York | 3,886 | 2,147 | 1,318 | 1,578 | 1,486 | 704 | 1.1 | 1.1 | 1.4 | 2.9 | 3.1 | 1.3 |
| North Carolina | 2,102 | 1,004 | 928 | 1,037 | 1,036 | 77 | 1.9 | 1.3 | 1.3 | 3.7 | 3.7 | 1.0 |
| North Dakota | 107 | 92 | 87 | 4 | 4 | 2 | 1.3 | 1.3 | 1.3 | * | * | * |
| Ohio | 2,291 | 1,604 | 1,539 | 660 | 648 | 65 | 1.5 | 1.3 | 1.2 | 2.9 | 2.9 | 1.9 |
| Oklahoma | 647 | 495 | 448 | 108 | 108 | 37 | 1.3 | 1.3 | 1.3 | 2.3 | 2.3 | 1.0 |
| Oregon | 400 | 360 | 287 | 11 | 10 | 78 | 0.9 | 0.9 | 0.8 | * | * | 1.2 |
| Pennsylvania | 2,222 | 1,516 | 1,366 | 666 | 653 | 136 | 1.5 | 1.2 | 1.2 | 3.2 | 3.2 | 2.0 |
| Rhode Island | 209 | 164 | 120 | 31 | 28 | 23 | 1.7 | 1.5 | 1.6 | 3.2 | 3.4 | 1.2 |
| South Carolina | 1,064 | 430 | 412 | 625 | 624 | 16 | 2.0 | 1.3 | 1.3 | 3.3 | 3.3 | * |
| South Dakota | 120 | 88 | 88 | 3 | 3 | - | 1.2 | 1.0 | 1.1 | * | * | * |
| Tennessee | 1,302 | 733 | 720 | 552 | 551 | 15 | 1.7 | 1.2 | 1.3 | 3.3 | 3.3 | ، د د |
| Texas | 4,517 | 3,224 | 1,584 | 1,171 | 1,154 | 1,639 | 1.3 | 1.1 | 1.1 | 2.9 | 2.9 | 1.1 |
| Utah | 453 90 | 418 90 | 364 87 | (| 1 | 49 | 1.0 1.4 | 1.0 1.4 | 1.0 1.4 | * | * | 1.0 |
| Vermont Virginia | 90 1,574 | 820 | 737 | 699 | - 697 | 85 | 1.4 | 1.4 | 1.4 | 3.2 | 3.2 | 1.5 |
| Washington | 854 | 663 | 552 | 92 | 83 | 94 | 1.1 | 1.0 | 1.0 | 3.0 | 2.9 | 0.9 |
| West Virginia | 302 | 277 | 277 | 24 | 24 | - | 1.5 | 1.4 | 1.4 | 3.2 | 3.2 | |
| Wisconsin | 814 | 588 | 534 | 196 | 195 | 56 | 1.2 | 1.0 | 1.0 | 3.0 | 3.0 | 1.5 |
| Wyoming | 73 | 67 | 63 | 2 | 2 | | 1.2 | 1.1 | 1.2 | * | * | 1 |
| Puerto Rico | 800 | 740 2 | 1 | 58 33 | 30 | 3 | 1.3 | 1.3 | * | 1.3 | 2.4 | |
| Virgin Islands Guam | 36 33 | 2 | 1 | - 33 | 30 | | 2.0 0.8 | * | * | 2.4 | Z.4 * | |
| American Samoa | 33 11 | - | | - | | | 0.0 | * | | * | | |
| Northern Marianas | 9 | | | | | | * | * | | * | | |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.
- Quantity zero.
--- Data not available.
1 Includes races other than white and black and origin not stated.
2 Includes all persons of Hispanic origin of any race.
3 Excludes data for the territories.

Table 48. Live births with selected abnormal conditions of the newborn and rates by age of mother, by race of mother: United States, 1998

[Rates are number of live births with specified abnormal condition per 1,000 live births in specified group]

| | A.U. | Abnormal | | | A | ge of moth | er | | | N/- (|
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------|
| Abnormal condition and race of mother | All births ¹ | condition reported | All ages | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years | Not stated |
| All races ² | | | | | | | | | | |
| Anemia Birth injury ³ Fetal alcohol syndrome ⁴ Hyaline membrane disease/RDS Meconium aspiration syndrome Assisted ventilation less than 30 minutes ⁵ Assisted ventilation 30 minutes or longer ⁵ Seizures | 3,941,553 3,575,736 3,874,103 3,941,553 3,941,553 3,821,642 3,821,642 3,941,553 | 4,133 10,966 272 24,734 8,042 81,206 34,251 2,105 | 1.1 3.2 0.1 6.4 2.1 21.8 9.2 0.5 | 1.2 3.2 0.1 7.3 2.4 21.5 11.0 0.6 | 1.0 3.1 0.0 6.6 2.1 20.4 9.0 0.5 | 1.0 3.3 0.1 6.2 1.9 22.1 8.5 0.5 | 1.1 3.1 0.1 6.0 2.1 22.7 8.7 0.5 | 1.1 3.0 0.1 6.5 2.0 22.8 9.8 0.6 | 1.2 2.5 * 7.6 2.4 24.0 12.3 0.4 | 94,142 97,438 95,263 94,142 94,142 103,170 103,170 94,142 |
| White | | | | | | | | | | |
| Anemia Birth injury ³ Fetal alcohol syndrome ⁴ Hyaline membrane disease/RDS Meconium aspiration syndrome Assisted ventilation less than 30 minutes ⁵ Assisted ventilation 30 minutes or longer ⁵ Seizures | 3,118,727 2,805,467 3,060,543 3,118,727 3,118,727 3,051,216 3,051,216 3,118,727 | 2,960 9,120 149 20,010 5,914 66,491 26,399 1,666 | 1.0 3.3 0.0 6.6 1.9 22.4 8.9 0.5 | 1.1 3.5 * 7.5 2.3 22.0 10.6 0.6 | 0.9 3.4 0.0 6.6 2.0 20.8 8.6 0.5 | 0.9 3.5 0.0 6.4 1.8 22.6 8.3 0.5 | 1.0 3.3 0.0 6.1 1.9 23.2 8.5 0.5 | 1.0 3.1 0.1 6.7 1.9 23.4 9.5 0.6 | 1.1 2.5 * 7.7 2.3 24.6 12.1 0.4 | 71,189 73,895 72,267 71,189 71,189 78,503 78,503 71,189 |
| Black Anemia Birth injury ³ Fetal alcohol syndrome ⁴ Hyaline membrane disease/RDS Meconium aspiration syndrome Assisted ventilation less than 30 minutes ⁵ Assisted ventilation 30 minutes or longer ⁵ Seizures | 609,902 568,454 603,361 609,902 570,596 570,596 609,902 | 958 1,090 53 4,001 1,748 11,170 6,579 346 | 1.6 2.0 0.1 6.7 2.9 20.1 11.8 0.6 | 1.5 2.1 * 7.0 2.5 19.6 12.4 0.6 | 1.5 1.9 * 6.7 2.6 18.8 11.1 0.5 | 1.7 2.0 * 6.3 3.1 20.7 11.2 0.6 | 1.6 2.0 * 6.5 3.6 21.8 12.1 0.6 | 1.6 1.8 * 7.1 3.4 21.0 14.0 0.7 | 2.5 * 9.3 3.5 23.1 15.2 * | 13,568 13,913 13,591 13,568 13,568 14,487 14,487 13,568 |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.
0.0 Quantity more than zero but less than 0.05.
1 Total number of births to residents of areas reporting specified condition.
1 Includes races other than white and black.
3 Nebrask and Texas do not report this condition.
4 Wisconsin does not report this condition.
5 New York City does not report this condition.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes

Table 49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 1998

[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

| | A.11 | Congenital | | | A | ge of moth | er | | | NI-1 |
|-----------------------------------------------|----------------------------|---------------------|--------------|-------------------|----------------|----------------|----------------|----------------|----------------|------------------|
| Congenital anomaly and race of mother | All births ¹ | anomaly reported | All ages | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years | Not stated |
| All races ² | | | | | | | | | | |
| Anencephalus | 3,914,235 | 398 | 10.3 | 11.4 | 9.6 | 10.7 | 10.1 | 9.9 | * | 67,290 |
| Spina bifida/Meningocele | 3.914.235 | 838 | 21.8 | 26.4 | 23.7 | 19.9 | 21.9 | 16.6 | * | 67.290 |
| Hydrocephalus | 3,914,235 | 941 | 24.5 | 29.9 | 27.3 | 20.3 | 22.9 | 25.1 | 26.6 | 67,290 |
| Microcephalus | 3,914,235 | 240 | 6.2 | 29.9 | 6.3 | 5.6 | 6.1 | 5.3 | 20.0 | 67.290 |
| Other central nervous system anomalies | 3,914,235 | 833 | 21.7 | 26.8 | 21.8 | 18.3 | 21.2 | 22.9 | 31.4 | 67,290 |
| | 0,014,200 | 000 | 21.7 | 20.0 | 21.0 | 10.0 | 21.2 | 22.0 | 01.4 | 07,200 |
| Heart malformations | 3,914,235 | 4,639 | 120.6 | 109.3 | 111.6 | 117.9 | 123.3 | 140.3 | 195.7 | 67,290 |
| Other circulatory/respiratory anomalies | 3,914,235 | 5,140 | 133.6 | 126.3 | 132.9 | 131.9 | 132.9 | 140.1 | 182.5 | 67,290 |
| Rectal atresia/stenosis | 3,914,235 | 364 | 9.5 | 8.5 | 9.9 | 10.2 | 8.9 | 8.4 | * | 67,290 |
| Tracheo-esophageal fistula/Esophageal atresia | 3,914,235 | 499 | 13.0 | 9.6 | 13.0 | 13.1 | 13.1 | 15.7 | * | 67,290 |
| Omphalocele/Gastroschisis | 3,914,235 | 1,171 | 30.4 | 69.6 | 44.0 | 20.0 | 15.6 | 16.2 | * | 67,290 |
| Other gastrointestinal anomalies | 3,914,235 | 1,214 | 31.6 | 31.8 | 30.3 | 29.4 | 34.5 | 31.6 | 41.1 | 67,290 |
| Malformed genitalia | 3.914.235 | 2.938 | 76.4 | 74.4 | 76.9 | 77.8 | 76.3 | 74.0 | 77.3 | 67.290 |
| Renal agenesis | 3.914.235 | 515 | 13.4 | 12.9 | 12.6 | 14.3 | 13.8 | 13.7 | * | 67.290 |
| Other urogenital anomalies | 3,914,235 | 4,121 | 107.1 | 101.4 | 102.7 | 104.6 | 115.0 | 112.4 | 113.6 | 67,290 |
| | 0,01.1,200 | ., | | | | | | | | 0.,200 |
| Cleft lip/palate | 3,914,235 | 3,127 | 81.3 | 88.9 | 84.8 | 76.7 | 78.2 | 80.8 | 90.6 | 67,290 |
| Polydactyly/Syndactyly/Adactyly | 3,914,235 | 3,258 | 84.7 | 114.7 | 95.2 | 78.1 | 72.2 | 70.2 | 78.5 | 67,290 |
| Clubfoot | 3,914,235 | 2,178 | 56.6 | 64.4 | 61.4 | 53.3 | 51.2 | 53.3 | 72.5 | 67,290 |
| Diaphragmatic hernia | 3,914,235 | 529 | 13.8 | 11.4 | 14.0 | 13.8 | 12.0 | 18.1 | * | 67,290 |
| Other musculoskeletal/integumental anomalies | 3,914,235 | 9,095 | 236.4 | 256.8 | 229.9 | 224.5 | 237.4 | 254.1 | 245.3 | 67,290 |
| Down's syndrome | 3,914,235 | 1,681 | 43.7 | 25.1 | 25.0 | 25.3 | 40.8 | 104.9 | 322.6 | 67,290 |
| Other chromosomal anomalies | 3,914,235 | 1,321 | 34.3 | 28.0 | 27.8 | 27.3 | 30.1 | 56.2 | 169.2 | 67,290 |
| White | | | | | | | | | | |
| Anencephalus | 3,095,723 | 319 | 10.5 | 12.2 | 9.2 | 10.7 | 10.7 | 10.0 | * | 51,831 |
| Spina bifida/Meningocele | 3,095,723 | 693 | 22.8 | 27.1 | 25.2 | 21.2 | 22.7 | 17.6 | * | 51,831 |
| Hydrocephalus | 3,095,723 | 742 | 24.4 | 29.5 | 27.0 | 21.7 | 23.0 | 23.1 | * | 51,831 |
| Microcephalus | 3,095,723 | 187 | 6.1 | 8.0 | 6.0 | 5.6 | 6.0 | * | * | 51,831 |
| Other central nervous system anomalies | 3,095,723 | 693 | 22.8 | 27.4 | 24.5 | 19.4 | 21.9 | 23.7 | * | 51,831 |
| Heart malformations | 3,095,723 | 3,696 | 121.4 | 116.7 | 111.4 | 118.5 | 122.6 | 136.4 | 200.2 | 51.831 |
| Other circulatory/respiratory anomalies | 3,095,723 | 4,134 | 135.8 | 133.4 | 137.3 | 132.6 | 133.5 | 138.8 | 182.3 | 51,831 |
| Rectal atresia/stenosis | 3,095,723 | 309 | 10.2 | 8.3 | 10.4 | 10.8 | 10.3 | 8.8 | * | 51,831 |
| Tracheo-esophageal fistula/Esophageal atresia | 3,095,723 | 428 | 10.2 | 10.7 | 14.3 | 13.7 | 13.9 | 0.0 17.3 | * | 51,831 |
| Omphalocele/Gastroschisis | 3,095,723 | 901 | 29.6 | 77.7 | 44.2 | 19.5 | 14.0 | 14.3 | * | 51.831 |
| Other gastrointestinal anomalies | 3,095,723 | 947 | 31.1 | 31.0 | 29.5 | 28.8 | 33.8 | 31.9 | 44.8 | 51,831 |
| с С | | | | | | | | | | |
| Malformed genitalia | 3,095,723 3,095,723 | 2,412 415 | 79.2 13.6 | 78.6 13.7 | 79.4 13.0 | 80.4 14.8 | 80.2 14.1 | 74.4 12.6 | 80.7 | 51,831 51,831 |
| Renal agenesis Other urogenital anomalies | 3,095,723 | 3,522 | 115.7 | 113.4 | 110.7 | 14.0 | 124.2 | 117.7 | 124.0 | 51,831 |
| | 3,033,723 | 5,522 | 115.7 | 113.4 | 110.7 | 112.2 | 124.2 | 117.7 | 124.0 | 51,051 |
| Cleft lip/palate | 3,095,723 | 2,676 | 87.9 | 103.3 | 95.3 | 80.7 | 82.5 | 85.2 | 97.1 | 51,831 |
| Polydactyly/Syndactyly/Adactyly | 3,095,723 | 1,757 | 57.7 | 67.0 | 60.3 | 54.6 | 55.2 | 56.8 | 55.3 | 51,831 |
| Clubfoot | 3,095,723 | 1,886 | 62.0 | 73.8 | 66.7 | 59.0 | 55.9 | 56.8 | 80.7 | 51,831 |
| Diaphragmatic hernia | 3,095,723 | 439 | 14.4 | 12.2 | 14.9 | 14.6 | 11.8 | 19.6 | * | 51,831 |
| Other musculoskeletal/integumental anomalies | 3,095,723 | 6,036 | 198.3 | 221.2 | 186.8 | 190.1 | 201.8 | 212.5 | 201.7 | 51,831 |
| Down's syndrome | 3,095,723 | 1,502 | 49.3 | 30.1 | 28.8 | 28.4 | 44.2 | 114.8 | 357.1 | 51,831 |
| Down's syndrome | 0,000,. 20 | | | | | | | | | |

Table 49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 1998 -- Con.

[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

| | A.11 | Congenital | | | A | Age of moth | er | | | |
|-----------------------------------------------|----------------------------|---------------------|----------|-------------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Congenital anomaly and race of mother | All births ¹ | anomaly reported | All ages | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years | Not stated |
| Black | | | | | | | | | | |
| Anencephalus | 609,393 | 61 | 10.1 | * | * | * | * | * | * | 7,915 |
| Spina bifida/Meningocele | 609.393 | 119 | 19.8 | 25.5 | 19.3 | 16.0 | * | * | * | 7,915 |
| Hydrocephalus | 609,393 | 155 | 25.8 | 27.0 | 30.6 | * | 25.9 | 43.5 | * | 7,915 |
| Microcephalus | 609,393 | 40 | 6.7 | * | * | * | * | * | * | 7,915 |
| Other central nervous system anomalies | 609,393 | 104 | 17.3 | 22.4 | 12.9 | * | * | * | * | 7,915 |
| Heart malformations | 609,393 | 711 | 118.2 | 88.0 | 109.5 | 125.2 | 125.4 | 182.5 | 216.9 | 7,915 |
| Other circulatory/respiratory anomalies | 609,393 | 694 | 115.4 | 99.6 | 104.1 | 124.5 | 120.0 | 163.0 | * | 7,915 |
| Rectal atresia/stenosis | 609,393 | 39 | 6.5 | * | * | * | * | * | * | 7,915 |
| Tracheo-esophageal fistula/Esophageal atresia | 609,393 | 52 | 8.6 | * | * | * | * | * | * | 7,915 |
| Omphalocele/Gastroschisis | 609,393 | 226 | 37.6 | 44.8 | 45.6 | 28.4 | 32.4 | * | * | 7,915 |
| Other gastrointestinal anomalies | 609,393 | 215 | 35.7 | 33.2 | 32.7 | 37.1 | 41.1 | * | * | 7,915 |
| Malformed genitalia | 609,393 | 390 | 64.8 | 64.1 | 66.5 | 69.2 | 54.0 | 67.4 | * | 7,915 |
| Renal agenesis | 609,393 | 77 | 12.8 | * | * | * | * | * | * | 7,915 |
| Other urogenital anomalies | 609,393 | 399 | 66.3 | 69.5 | 65.5 | 67.0 | 55.1 | 80.4 | * | 7,915 |
| Cleft lip/palate | 609,393 | 276 | 45.9 | 40.1 | 45.1 | 50.2 | 47.6 | 43.5 | * | 7,915 |
| Polydactyly/Syndactyly/Adactyly | 609,393 | 1,407 | 233.9 | 241.6 | 236.1 | 240.2 | 227.0 | 189.0 | 278.8 | 7,915 |
| Clubfoot | 609,393 | 228 | 37.9 | 37.1 | 41.3 | 32.8 | 34.6 | 50.0 | * | 7,915 |
| Diaphragmatic hernia | 609,393 | 70 | 11.6 | * | 10.7 | * | * | * | * | 7,915 |
| Other musculoskeletal/integumental anomalies | 609,393 | 1,928 | 320.5 | 288.7 | 312.9 | 312.3 | 349.1 | 397.6 | 371.7 | 7,915 |
| Down's syndrome | 609,393 | 127 | 21.1 | * | * | * | 27.0 | 63.0 | 206.5 | 7,915 |
| Other chromosomal anomalies | 609,393 | 169 | 28.1 | 27.8 | 16.6 | 28.4 | * | 58.7 | * | 7,915 |

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.
 1 Total number of births.
 2 Includes races other than white and black.

NOTES: Excludes data for New Mexico, which did not report congenital anomalies. Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 50. Live births by plurality of birth and ratios, by age and race and Hispanic origin of mother: United States, 1998

| | | | | | | Age of n | nother | | | | |
|--------------------------------------------------------------|-------------|----------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|----------------|
| Plurality and race and Hispanic origin | All | Under | 1 | 5-19 years | | | | | 05.00 | | |
| of mother | ages | 15 years | Total | 15-17 years | 18-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-54 years |
| | | | | | | Number | | | | | |
| All live births | | | | | | | | | | | |
| All races ¹ | . 3,941,553 | 9,462 | 484,895 | 173,231 | 311,664 | 965,122 | 1,083,010 | 889,365 | 424,890 | 81,027 | 3,782 |
| White, total | | 4,801 | 340,694 | 116,623 | 224,071 | 736,664 | 880,688 | 737,532 | 349,799 | 65,485 | 3,064 |
| White, non-Hispanic Black, total | | 2,132 4,289 | 219,169 126,937 | 68,619 50,103 | 150,550 76,834 | 511,101 189,088 | 678,227 139,302 | 603,639 93,785 | 291,202 46,657 | 53,480 9,496 | 2,512 348 |
| Black, non-Hispanic | . 593,127 | 4,204 | 124,076 | 48,983 | 75,093 | 184,263 | 135,158 | 90,827 | 45,096 | 9,172 | 331 |
| Hispanic ² | 734,661 | 2,716 | 121,388 | 48,234 | 73,154 | 223,113 | 196,012 | 125,702 | 54,195 | 11,056 | 479 |
| Live births in single deliveries | | | | | | | | | | | |
| All races ¹ | | 9,373 | 477,422 | 170,982 | 306,440 | 943,745 | 1,051,417 | 855,379 | 405,473 | 77,339 | 3,110 |
| White, total White, non-Hispanic | | 4,760 2,114 | 336,122 216,054 | 115,279 67,780 | 220,843 148,274 | 721,818 500,180 | 855,318 657,590 | 708,777 578,804 | 333,174 276,619 | 62,263 50.655 | 2,461 1,970 |
| Black, total | | 4,243 | 124,246 | 49,265 | 74,981 | 183,222 | 134,328 | 90,051 | 44,739 | 9,209 | 334 |
| Black, non-Hispanic | . 574,020 | 4,158 | 121,422 | 48,157 | 73,265 | 178,521 | 130,296 | 87,187 | 43,223 | 8,896 | 317 |
| Hispanic ² | 719,093 | 2,697 | 119,947 | 47,730 | 72,217 | 219,239 | 191,551 | 122,114 | 52,400 | 10,708 | 437 |
| Live births in twin deliveries | | | | | | | | | | | |
| All races ¹ | | 87 | 7,388 | 2,217 | 5,171 | 20,916 | 29,901 | 30,781 | 17,676 | 3,337 | 584 |
| White, total White, non-Hispanic | | 39 18 | 4,514 3,072 | 1,326 828 | 3,188 2,244 | 14,470 10,626 | 23,835 19,255 | 25,834 22,153 | 15,043 13,140 | 2,907 2,535 | 521 471 |
| Black, total | | 46 | 2,664 | 824 | 1,840 | 5,785 | 4,838 | 3,551 | 1,831 | 2,333 | 14 |
| Black, non-Hispanic | . 18,589 | 46 | 2,627 | 812 | 1,815 | 5,661 | 4,726 | 3,462 | 1,792 | 261 | 14 |
| Hispanic ² | 15,015 | 17 | 1,426 | 497 | 929 | 3,804 | 4,342 | 3,388 | 1,665 | 339 | 34 |
| Live births in higher-order multiple deliveries ³ | | | | | | | | | | | |
| All races 1 | | 2 | 85 | 32 | 53 | 461 | 1,692 | 3,205 | 1,741 | 351 | 88 |
| White, total White, non-Hispanic | | 2 | 58 43 | 18 11 | 40 32 | 376 295 | 1,535 1,382 | 2,921 2,682 | 1,582 1,443 | 315 290 | 82 71 |
| Black, total | | - | 27 | 14 | 13 | 81 | 136 | 183 | 87 | 15 | |
| Black, non-Hispanic | | - | 27 | 14 | 13 | 81 | 136 | 178 | 81 | 15 | - |
| Hispanic ² | 553 | 2 | 15 | 7 | 8 | 70 | 119 | 200 | 130 | 9 | 8 |
| | | | | | Ratio p | er 1,000 live | births | | | | |
| All multiple births | | | | | | | | | | | |
| All races ¹ | | 9.4 | 15.4 | 13.0 | 16.8 | 22.1 | 29.2 | 38.2 | 45.7 | 45.5 | 177.7 |
| White, total | | 8.5 | 13.4 14.2 | 11.5 | 14.4 | 20.2 | 28.8 | 39.0 | 47.5 50.1 | 49.2 52.8 | 196.8 215.8 |
| White, non-Hispanic Black, total | | 10.7 | 21.2 | 12.2 16.7 | 15.1 24.1 | 21.4 31.0 | 30.4 35.7 | 41.1 39.8 | 41.1 | 30.2 | 215.0 |
| Black, non-Hispanic | | 10.9 | 21.4 | 16.9 | 24.3 | 31.2 | 36.0 | 40.1 | 41.5 | 30.1 | , |
| Hispanic ² | 21.2 | * | 11.9 | 10.4 | 12.8 | 17.4 | 22.8 | 28.5 | 33.1 | 31.5 | 87.7 |
| Twin births | | | | | | | | | | | |
| All races ¹ | | 9.2 | 15.2 | 12.8 | 16.6 | 21.7 | 27.6 | 34.6 | 41.6 | 41.2 | 154.4 |
| White, total | | 8.1 | 13.2 | 11.4 | 14.2 | 19.6 | 27.1 | 35.0 | 43.0 | 44.4 | 170.0 |
| White, non-Hispanic Black, total | | 10.7 | 14.0 21.0 | 12.1 16.4 | 14.9 23.9 | 20.8 30.6 | 28.4 34.7 | 36.7 37.9 | 45.1 39.2 | 47.4 28.6 | 187.5 |
| Black, non-Hispanic | | 10.7 | 21.0 | 16.4 | 23.9 | 30.8 | 34.7 | 37.9 | 39.2 39.7 | 28.5 | te te |
| Hispanic ² | | * | 11.7 | 10.3 | 12.7 | 17.0 | 22.2 | 27.0 | 30.7 | 30.7 | 71.0 |
| | | | | | Ratio pe | r 100,000 live | e births | | | | |
| Higher-order multiple births ³ | | | | | | | | | | | |
| All races ¹ | 193.5 | * | 17.5 | 18.5 | 17.0 | 47.8 | 156.2 | 360.4 | 409.8 | 433.2 | |
| White, total | 220.3 | * | 17.0 | * | 17.9 | 51.0 | 174.3 | 396.1 | 452.3 | 481.0 | 2676.2 |
| White, non-Hispanic | | * | 19.6 | * | 21.3 | 57.7 | 203.8 | 444.3 | 495.5 | 542.3 | 2826.4 |
| Black, total Black, non-Hispanic | | * | 21.3 21.8 | * | * | 42.8 44.0 | 97.6 100.6 | 195.1 196.0 | 186.5 179.6 | * | |
| | | | 21.0 | | | 31.4 | 60.7 | 159.1 | 239.9 | | |

Quantity zero.
* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.
1 Includes races other than white and black and origin not stated.
2 Includes all persons of Hispanic origin of any race.
3 Births in greater than twin deliveries.

Technical notes

Source of data

Data shown in this report for 1998 are based on 100 percent of the birth certificates in all States and the District of Columbia. The data are provided to the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program (VSCP). In 1984 and earlier years, the VSCP included varying numbers of States that provided data based on 100 percent of their birth certificates. Data for States not in the VSCP were based on a 50-percent sample of birth certificates filed in those States. Information on sampling procedures and sampling errors for 1984 and earlier years is provided in the Technical Appendix, Vital Statistics of the United States, 1997, Volume I, Natality (3). Information on the percent of records with missing information for maternal and infant characteristics included in this report is shown by State in table I. Data are not shown for the variables race, age, and marital status of mother. Missing data are imputed in these cases; see separate sections in the Technical notes for more information.

Age of mother

Age of mother is computed in most cases from the mother's and infant's dates of birth as reported on the birth certificate. The mother's age is directly reported by five States (Kentucky, Nevada, North Dakota, Virginia, and Wyoming) and American Samoa. From 1964 to 1996, mother's age was edited for ages outside the age range 10-49 years. Births reported to occur to mothers younger than age 10 or older than age 49 years had age imputed according to the age of mother from the previous record with the same race and total birth order (total of live births and fetal deaths). Beginning in 1997, age of mother is edited for ages outside the age range 10-54 years (3). A review and verification of unedited birth data for 1996 showed that the vast majority of births reported as occurring to women aged 50 years and over were to women aged 50-54 years. The numbers of births to women aged 50-54 years are too small for computing age-specific birth rates. These births have been included with births to women aged 45-49 years for computing birth rates.

In 1998 age of mother was not reported on 0.02 percent of the records; for these records age of mother was imputed according to the last record with the same race and total birth order.

Race and Hispanic origin

Race and Hispanic origin are reported separately on the birth certificate. Beginning with the 1989 data year, NCHS started tabulating its birth data primarily by race of the mother. Birth data published for 1988 and prior years showed births tabulated by the race of the child, which was determined from the race of the parents as entered on the birth certificate.

Trend data by race shown in this report are by race of mother for all years beginning with the 1980 data year; data for 1980–88 that were previously published by race of child have been re-tabulated by race of mother. In order to facilitate continuity and analysis of the data, trend tables showing data for years prior to 1980 show data for both race of mother and race of child for 1980. This makes it possible to distinguish the effects of this change from real changes in the data. The text discussions of data by race are based on tabulations by race of mother. Text references to white births and white mothers or black births and black mothers are used interchangeably for ease in writing.

The factors influencing the decision to tabulate births by race of the mother have been discussed in detail elsewhere (67). They include the 1989 revision of the birth certificate, which includes many more health questions that are directly associated with the mother. In these instances, it is more appropriate to tabulate births by the mother's race. Another factor influencing the decision to tabulate births by race of mother is the large proportion of births with race of father not stated, 14 percent in 1998. Although this proportion has declined slightly in the 1990's, it is still higher than in 1978, 11 percent. The high proportion of records with the father's race not reported reflects the increase in the proportion of births to unmarried women; in many such cases, no information is reported on the father. These births are already assigned the race of the mother because there is no alternative. Tabulating all births by race of mother, therefore, provides for a more uniform approach, rather than a necessarily arbitrary combination of parental races.

Race of mother is reported by all registration areas in eight categories: white, black, American Indian, Chinese, Japanese, Hawaiian, Filipino, and "other" Asian or Pacific Islander (API). In addition, nine States (California, Hawaii, Illinois, Minnesota, New Jersey, New York, Texas, Virginia, and Washington) report data on API subgroups included in the "other" API category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API). A report on births in 1992 to women in these API subgroups has been published (68).

In 1998 race of mother was not reported for 0.8 percent of births. In these cases, if the race of the father was known, the race of the father was assigned to the mother. When information was not available for either parent, the race of the mother was imputed according to the specific race of the mother on the preceding record with a known race of mother. This was necessary for just 0.4 percent of births in 1998.

Hispanic origin and race are reported independently on the birth certificate, as noted previously. Data for Hispanic subgroups are shown in most cases for five groups: Mexican, Puerto Rican, Cuban, Central and South American, and other and unknown Hispanic. In tabulations of birth data by race only, data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race. In tabulations of birth data by race and Hispanic origin, data for persons of Hispanic origin, are not further classified by race because the vast majority of births to Hispanic persons are classified according to the race of the mother because there are substantial differences in fertility and maternal and infant health between Hispanic and non-Hispanic white women.

Items asking for the Hispanic origin of the mother and the father have been included on the birth certificates of all States and the District of Columbia, the Virgin Islands, and Guam since 1993 (4). Puerto Rico, American Samoa, and the Northern Marianas do not collect this information. The percent of records for which Hispanic origin of the parents was not reported in 1998 is shown by State in table I.

Marital status

National estimates of births to unmarried women are based on two methods of determining marital status. For 1994 through 1996, birth certificates in 45 States and the District of Columbia included a question about the mother's marital status. In 1997 California added a

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 1998 [By place of residence]

| | Number of | Place of | Attendant at | Mother's birth- | Father's | Father's | Hispan | c origin | Educational attainment | Live- birth | Length of | Month | Number of |
|---------------------------------------|--------------|-------------|-----------------|--------------------|----------|----------|--------|----------|------------------------|----------------|------------------|------------------------|--------------------|
| Area | births | birth | birth | place | age | race | Mother | Father | Mother | order | gestation | prenatal care began | prenatal visits |
| Total of reporting areas ¹ | 3,941,553 | 0.0 | 0.0 | 0.3 | 14.4 | 14.8 | 1.2 | 15.3 | 1.5 | 0.7 | 1.0 | 2.8 | 3.6 |
| Alabama | 62,074 | - | - | 0.0 | 23.8 | 23.8 | .0 | 23.8 | 0.3 | 0.0 | 0.1 | 0.3 | 0.3 |
| Alaska | 9,926 | .0 | .0 | .2 | 12.9 | 14.7 | .5 | 13.7 | 2.0 | .2 | .3 | 1.7 | 1.5 |
| Arizona | 78,243 | - | .0 | .3 | 21.5 | 23.3 | 1.3 | 23.6 | 2.0 | .4 | .2 | 2.1 | 3.6 |
| Arkansas | 36,865 | .0 | .0 | .4 | 20.6 | 21.8 | .1 | 21.0 | .9 | .2 | .3 | 2.4 | 3.3 |
| California | 521,661 | .0 | .1 | .3 | 7.4 | 6.8 | .7 | 6.3 | 1.7 | .1 | 5.4 ² | 1.6 | 2.9 |
| | 59,577 | _ | - | .2 | 9.6 | 10.2 | .0 | 10.3 | 1.4 | .0 | .0 | .7 | .9 |
| Connecticut | 43,820 | .0 | .0 | .4 | 9.4 | 10.8 | 5.3 | 14.4 | 3.9 | 8.3 | .1 | 5.4 | 9.0 |
| Delaware | 10,578 | .0 | .0 | .3 | 30.7 | 31.6 | .3 | 30.7 | .7 | .3 | .1 | .9 | 1.1 |
| District of Columbia | 7,686 | - | - | .0 | 44.9 | 51.3 | .5 | 44.7 | 9.0 | .2 | .4 | 15.3 | 18.6 |
| Florida | 195,637 | .0 | - | .2 | 17.6 | 17.7 | .1 | 19.1 | .4 | .0 | .1 | .8 | 1.7 |
| Georgia | 122,368 | .0 | .0 | .2 | 18.0 | 18.4 | .8 | 18.6 | 2.0 | .3 | .1 | 2.9 | 2.7 |
| Hawaii | 17,583 | _ | .0 | .1 | 8.4 | 8.6 | .1 | 8.4 | .4 | .0 | 10.4 | 5.3 | 6.1 |
| Idaho | 19,391 | .0 | .0 | .3 | 8.6 | 11.2 | 1.5 | 11.4 | 4.2 | 1.3 | .6 | 2.2 | 2.6 |
| Illinois | 182,588 | .0 | .0 | .1 | 15.5 | 16.8 | .0 | 16.8 | .8 | .2 | .2 | 1.8 | 2.2 |
| Indiana | 85,122 | .3 | .1 | .2 | 13.5 | 13.7 | .4 | 13.7 | .9 | .4 | .1 | 1.5 | 2.6 |
| Iowa | 37,282 | .0 | .0 | .4 | 12.1 | 14.2 | 1.1 | 15.0 | 1.5 | .1 | .1 | 1.3 | 3.9 |
| Kansas | 38,422 | .0 | .0 | .1 | 10.6 | 10.7 | 1.0 | 12.1 | .4 | .0 | .1 | .6 | .8 |
| Kentucky | 54,329 | .0 | .1 | .0 | 22.0 | 22.7 | .1 | 23.7 | .2 | .1 | .1 | 1.1 | 1.3 |
| Louisiana | 66,888 | | .0 | .0 | 22.3 | 22.5 | .2 | 22.5 | .1 | .0 | .0 | .3 | .5 |
| Maine | 13,733 | _ | .0 | - | 10.0 | 15.0 | 4.3 | 18.7 | .8 | .3 | .1 | .5 | .5 |
| Maryland | 71,972 | .0 | .0 | .7 | 8.4 | 10.1 | .6 | 6.8 | 2.0 | 1.6 | .5 | 4.7 | 8.2 |
| Massachusetts | 81,411 | .0 | .0 | .0 | 7.8 | 7.6 | .4 | 6.8 | .3 | .2 | .2 | .9 | .3 |
| Michigan | 133,666 | .0 | .2 | .1 | 16.0 | 18.0 | 5.4 | 22.5 | 1.4 | .6 | .1 | 3.9 | 5.4 |
| Minnesota | 65,202 | .0 | .0 | .0 | 8.9 | 11.3 | 5.2 | 15.4 | 2.2 | .5 | 1.0 | 5.6 | 5.0 |
| Mississippi | 42,939 | .0 | .0 | .1 | 24.2 | 24.0 | .1 | 24.3 | .2 | .1 | .2 | .6 | 1.1 |
| Missouri | 75,358 | .0 | .0 | .2 | 18.3 | 18.3 | .1 | 18.5 | .8 | .3 | .2 | 1.4 | 2.0 |
| Montana | 10,795 | .0 | .1 | _ | 10.2 | 11.5 | 2.0 | 13.4 | .4 | .0 | .1 | .5 | .5 |
| Nebraska | 23,534 | .0 | .0 | .0 | 12.2 | 12.8 | 2.2 | 14.4 | .1 | .0 | .0 | .3 | .6 |
| Nevada | 28,699 | _ | .0 | .8 | 22.4 | 23.3 | .7 | 22.0 | 3.2 | 1.1 | 1.1 | 6.2 | 10.0 |
| New Hampshire | 14,429 | - | - | .0 | 7.2 | 9.1 | 3.5 | 11.6 | .8 | 2.8 | .2 | 1.7 | 1.8 |
| New Jersey | 114,550 | .1 | .1 | .2 | 8.9 | 11.1 | .4 | 9.4 | 2.3 | .2 | .2 | 5.0 | 6.0 |
| New Mexico | 27,318 | .0 | .0 | 2.8 | 27.5 | 26.8 | .0 | 26.8 | 5.1 | .5 | .7 | 5.7 | 5.5 |
| New York | 258,207 | .1 | .1 | .4 | 15.7 | 16.1 | 6.2 | 20.8 | 1.7 | .1 | .2 | 10.0 | 6.7 |
| North Carolina | 111,688 | .0 | .0 | .0 | 17.2 | 17.2 | .0 | 17.1 | .2 | .0 | .1 | .5 | .5 |
| North Dakota | 7,932 | - | - | .0 | 7.9 | 9.4 | 3.1 | 12.3 | .2 | - | .1 | .6 | .3 |
| Ohio | 152,794 | .0 | .0 | .2 | 15.2 | 16.0 | .4 | 15.8 | .5 | .2 | .0 | .5 | 1.5 |
| Oklahoma | 49,461 | .0 | .1 | .1 | 17.0 | 18.9 | 1.1 | 18.8 | 2.0 | 12.2 | 3.2 | 10.9 | 12.8 |
| Oregon | 45,273 | | - | .1 | 11.6 | 4.6 | .2 | 4.9 | 1.2 | .1 | .0 | .4 | .5 |
| Pennsylvania | 145,899 | .0 | .0 | .8 | 5.7 | 4.3 | .6 | 3.8 | 2.3 | .4 | .0 | 3.2 | 4.8 |
| Rhode Island. | 12,599 | .0 | .0 | .3 | 13.6 | 14.2 | 12.8 | 23.1 | 2.9 | 2.2 | 2.6 | 8.8 | 9.8 |

| Table I. Percent of birth records on which specified | items were not stated: United St | tates and each State and territory, 1998—Con. |
|------------------------------------------------------|----------------------------------|-----------------------------------------------|
| [By place of residence] | | |

| | Number | Place | Attendant | Mother's | Father's | Father's | Hispani | Hispanic origin | | Live- birth | Length | Month prenatal | Number o prenatal |
|-------------------|--------------|-------------|-------------|-----------------|----------|----------|---------|-----------------|----------------------|----------------|-----------------|-------------------|----------------------|
| Area | of births | of birth | at birth | birth- place | age | race | Mother | Father | attainment Mother | order | of gestation | care began | visits |
| South Carolina | 53,877 | - | .0 | .3 | 28.8 | 28.9 | .1 | 28.8 | 4.6 | .1 | .2 | 1.5 | 1.6 |
| South Dakota | 10,288 | .0 | - | .0 | 11.8 | 12.1 | .1 | 13.3 | .2 | - | .0 | .4 | .4 |
| Tennessee | 77,396 | .0 | .0 | .0 | 16.1 | 16.2 | .0 | 16.3 | .2 | .0 | .2 | 1.1 | .9 |
| Texas | 342,283 | .0 | .0 | .4 | 15.3 | 15.4 | .3 | 15.4 | 1.3 | 1.2 | .6 | 2.0 | 5.2 |
| Utah | 45,165 | .0 | .0 | .2 | 9.7 | 10.8 | .3 | 9.3 | .9 | .2 | .1 | 2.9 | 3.0 |
| Vermont | 6,582 | .0 | - | .1 | 9.1 | 15.3 | 2.6 | 16.4 | 2.5 | .4 | .2 | 3.6 | 1.2 |
| Virginia | 94,351 | .0 | .1 | .1 | 17.8 | 18.6 | .1 | 18.5 | .5 | 1.1 | .3 | .6 | 1.2 |
| Nashington | 79,663 | .0 | .0 | .8 | 11.8 | 12.0 | 3.2 | 12.3 | 10.6 | 4.5 | 1.0 | 9.7 | 13.1 |
| West Virginia | 20,747 | .1 | .0 | .1 | 13.3 | 14.2 | .2 | 14.6 | .5 | .2 | .5 | 4.3 | 3.2 |
| Nisconsin | 67,450 | - | - | .0 | 28.4 | 28.4 | .0 | 28.4 | .1 | .0 | .0 | .2 | .3 |
| Wyoming | 6,252 | .0 | - | .0 | 13.6 | 14.0 | .1 | 13.9 | .4 | .0 | .1 | .5 | .5 |
| Puerto Rico | 60,412 | - | .1 | - | 2.9 | 3.4 | | | .2 | .0 | .1 | .2 | .1 |
| Virgin Islands | 1,800 | .1 | .6 | - | 21.6 | 24.3 | 3.2 | 26.4 | 1.7 | .9 | .8 | .6 | 1.7 |
| Guam | 4,318 | .1 | .5 | .1 | 23.6 | 24.9 | .4 | 23.3 | .6 | .6 | .2 | .8 | 1.2 |
| American Samoa | 1,688 | .1 | - | 5.9 | 34.2 | 34.8 | | | | - | | | |
| Northern Marianas | 1,462 | .2 | 1.0 | 0.3 | 9.6 | 24.4 | | | 25.0 | 23.1 | 26.3 | 56.5 | 25.0 |

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 1998

[By place of residence]

| Area | Number of births | Birth- weight | 5-minute- Apgar score | Medical risk factors | Tobacco use | Alcohol use | Weight gain | Obstetric procedures | Complications of labor and/or delivery | Method of delivery | Abnormal conditions of newborn | Congenital anomalies |
|---------------------------------------|---------------------|------------------|-----------------------------|----------------------------|------------------|----------------|----------------|-------------------------|-------------------------------------------------|--------------------|--------------------------------------|----------------------|
| Total of reporting areas ¹ | 3,941,553 | 0.1 | 0.6 | 1.4 | 1.5 | 1.5 | 8.3 | 0.9 | 1.2 | 0.9 | 2.4 | 1.7 |
| Alabama | 62,074 | 0.0 | 0.2 | 0.0 ³ | 0.0 | 0.1 | 3.1 | 0.0 | 0.0 | 0.3 | 0.0 | 0.1 |
| Alaska | 9,926 | .2 | .6 | .3 | .6 | .6 | 1.6 | .3 | .3 | .4 | .4 | .3 |
| Arizona | 78,243 | .1 | .6 | .0 | 1.8 | 2.0 | 11.3 | .0 | .0 | .2 | .0 | .4 |
| Arkansas | 36,865 | .1 | 3.6 | .5 | .9 | 1.0 | 9.5 | .4 | .5 | .7 | .4 | .4 |
| California | 521,661 | .0 | | .0 | | | | .0 | .0 | .0 | .0 | .0 |
| Colorado | 59,577 | .0 | .3 | .0 | .1 | .1 | 3.4 | .0 | .0 | .0 | .0 | .1 |
| | 43,820 | .0 | .s 1.5 | .0 11.8 | 8.1 | 7.4 | 3.4 18.6 | .0 10.4 | .0 12.2 | .0 4.5 | .0 18.9 | 20.1 |
| | | | | | 8.1 .2 | | | | | | | 20.1 |
| Delaware | 10,578 | .0 | .4 | .0 | | .2 | 1.9 | .0 | .0 | .0 | .1 | |
| District of Columbia | 7,686 | .1 | 1.1 | .0 | .1 | .1 | 16.4 | .0 | .0 | .0 | .0 | .0 |
| Florida | 195,637 | .1 | .2 | .0 | .1 | .1 | 4.4 | .0 | .0 | .6 | .0 | .0 |
| Georgia | 122,368 | .0 | .5 | .4 | .4 | .4 | 5.6 | .0 | .0 | .3 | .0 | .0 |
| Намаіі | 17,583 | 2.8 | 7.2 | 16.2 | .1 | .1 | 13.8 | 9.7 | 7.3 | 16.5 | 17.2 | 18.9 |
| Idaho | 19,391 | .3 | .6 | 1.0 | .7 | 1.0 | 10.2 | .9 | .9 | .3 | .7 | .7 |
| Illinois | 182,588 | .1 | .3 | .1 | 1.0 | .2 | 3.9 | .0 | .1 | .4 | .1 | .1 |
| Indiana | 85,122 | .5 | .5 | .1 | | .4 | 3.2 | .1 | .2 | .4 | .6 | .6 |
| lowa | 37,282 | .1 | .3 | .2 | 3.3 | 3.8 | 6.9 | .1 | .3 | .4 | .3 | .4 |
| Kansas | 38,422 | .0 | .4 | .5 ³ | .5 | .5 | .7 | .4 | .4 | 2.9 | .4 | .4 |
| Kentucky | 54,329 | .1 | .4 | 6.1 | 4.5 | 4.5 | 8.6 | 3.9 | 6.5 | 4.1 | 11.3 | 10.3 |
| Louisiana | 66,888 | .1 | .3 | .0 | .1 | .1 | 6.8 | .0 | .1 | .1 | .1 | .0 |
| Maine | 13,733 | .1 | .2 | .1 | 1.1 | 1.4 | 1.8 | .0 | .1 | .2 | .1 | .2 |
| Maryland | 71,972 | .1 | .5 | .0 | .5 | .7 | 8.3 | .0 | .0 | .2 | .0 | .0 |
| Massachusetts. | 81,411 | .1 | .3 | .0 | .3 | .7 | 0.3 1.1 | .0 | | .2 | .0 1.0 | .0 1.0 |
| | | .2 .3 | | | .3 1.8 | | | | .6 | | | |
| Michigan | 133,666 | | .4 | .1 | 7.2 | 1.5 | 9.4 | .1 | .1 | .6 | .1 | .1 |
| Minnesota | 65,202 | .1 | .8 | 8.3 | | 7.3 | 18.1 | 6.5 | 7.6 | 4.5 | 8.2 | 8.5 |
| Mississippi | 42,939 | .0 | .4 | .1 | .2 | .2 | 4.6 | .1 | .1 | .2 | .1 | .1 |
| Missouri | 75,358 | .0 | .5 | .1 | .4 | .4 | 3.0 | .1 | .1 | .7 | .1 | .1 |
| Montana | 10,795 | .0 | .4 | .1 | .8 | 1.5 | 1.4 | .1 | .1 | .5 | .2 | .1 |
| Nebraska | 23,534 | .0 | .2 | .0 | .9 | .9 | 1.3 | .0 | .0 | .2 | .0 ⁶ | .0 |
| Nevada | 28,699 | .1 | 1.7 | 10.7 | 2.2 | 2.5 | 11.8 | .5 | 6.6 | 1.5 | 12.4 | 12.5 |
| New Hampshire | 14,429 | .1 | .3 | .0 | .2 | .3 | 5.5 | .0 | .0 | .2 | .1 | .1 |
| New Jersey | 114,550 | .1 | .2 | 2.3 | 1.0 | 1.0 | 6.1 | .1 | 1.6 | .5 | 26.2 | 1.7 |
| New Mexico | 27,318 | 1.6 | 4.0 | .1 | 2.0 | 2.1 | 11.3 | .0 | .0 | .4 | .1 | |
| New York | 258,207 | .1 | .2 | 1.1 | 4.3 ⁴ | .2 | 9.6 | .0 | .4 | .3 | 0.97 | 1.0 |
| North Carolina. | 111,688 | .0 | .2 | .0 | .1 | .1 | 2.3 | .0 | .0 | .4 | .0 | .4 |
| North Dakota | 7,932 | .0 | .4 | .1 | .6 | .7 | 1.3 | .0 | .1 | 1.0 | .0 | .1 |
| | 152,794 | | | | | | | | .0 | | | .0 |
| Ohio | 49,461 | .1 .6 | .2 5.5 | .0 34.0 | .3 23.9 | .1 24.2 | 2.6 34.6 | .0 30.2 | .0 33.0 | .4 26.9 | .0 39.5 | .0 40.3 |
| Oklahoma | | | | | | | | | | | | |
| Oregon | 45,273 | .0 | .4 | .5 | .7 | .7 | 3.0 | .0 | .0 | .2 | .0 | .0 F |
| Pennsylvania. | 145,899 | .1 | .3 | .1 | .9 .7 | .6 | 8.3 | .0 | .1 | .1 | .6 | .5 |
| Rhode Island | 12,599 | .4 | .7 | 8.4 | 2.7 | 2.9 | 12.0 | 8.3 | 8.4 | .7 | 18.9 | 19.3 |

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 1998-Con.

[By place of residence]

| Area | Number of births | Birth- weight | 5-minute- Apgar score | Medical risk factors | Tobacco use | Alcohol use | Weight gain | Obstetric procedures | Complications of labor and/or delivery | Method of delivery | Abnormal conditions of newborn | Congenital anomalies |
|-------------------|---------------------|------------------|-----------------------------|----------------------------|----------------|----------------|----------------|----------------------|-------------------------------------------------|--------------------|--------------------------------------|-------------------------|
| South Carolina | 53,877 | .0 | .4 | .0 | .1 | .1 | 2.6 | .0 | .0 | .5 | .0 | .0 |
| South Dakota | 10,288 | .0 | .3 | .0 | | | 1.4 | .0 | .0 | .2 | .0 | .0 |
| Tennessee | 77,396 | .0 | .3 | .0 | .2 | .2 | 6.1 | .0 | .1 | .4 | .1 | .0 |
| Texas | 342,283 | .1 | | 1.3 ⁵ | .4 | .5 | 19.6 | .1 | .1 ⁸ | .7 | .2 ⁶ | .3 |
| Utah | 45,165 | .0 | .3 | .1 | .5 | .4 | 4.1 | .0 | .0 | .0 | .2 | .4 |
| Vermont | 6,582 | .2 | .2 | .1 | .9 | .5 | 2.0 | .1 | .1 | .0 | .2 | .2 |
| Virginia | 94,351 | .3 | .4 | .0 | .1 | .1 | 4.8 | .0 | .0 | .4 | .1 | .1 |
| Washington | 79,663 | .3 | .4 | 5.5 | 5.2 | 15.1 | 23.7 | 7.1 | 9.3 | .4 | 11.0 | 10.4 |
| West Virginia | 20,747 | .1 | .2 | .0 | .8 | 2.4 | 9.0 | .0 | .0 | .2 | .0 | .0 |
| Wisconsin | 67,450 | .0 | .4 | .1 | .1 | .1 | 1.6 | .0 | .1 | .0 | .19 | .1 |
| Wyoming | 6,252 | .0 | .4 | .0 | 1.1 | 1.1 | 2.1 | .0 | .0 | .2 | .0 | .0 |
| Puerto Rico | 60,412 | .0 | .2 | .0 | .0 | .0 | .1 | .0 | .1 | .0 | .1 | .1 |
| Virgin Islands | 1,800 | .1 | 2.9 | 6.4 | 2.3 | 2.3 | 9.8 | 2.5 | 7.4 | 3.0 | 8.7 | 6.8 |
| Guam | 4,318 | .1 | 1.3 | 5.4 | 1.1 | 1.3 | 4.0 | 1.9 | 2.9 | 1.3 | 5.7 | 5.5 |
| American Samoa | 1,688 | - | | | | | | | | | | |
| Northern Marianas | 1,462 | 12.3 | 21.5 | | | | | | | 43.6 | | |

0.0 Quantity more than zero but less than 0.05.

- Quantity zero.

¹Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas.

²California reports date last normal menses began but does not report clinical estimate of gestation.

³Kansas does not report Rh sensitization.

⁴New York City (but not New York State) reports tobacco use.

⁵Texas does not report genital herpes and uterine bleeding.

⁶Nebraska and Texas do not report birth injury.

⁷New York City does not report assisted ventilation less than 30 minutes and assisted ventilation of 30 minutes or more.

⁸Texas does not report anesthetic complications and fetal distress.

⁹Wisconsin does not report fetal alcohol syndrome.

⁻⁻⁻ Data not available.

direct question to their birth certificate; thus by 1997, all but four States (Connecticut, Michigan, Nevada, and New York) included a direct question on their birth certificates. Nevada asks for the mother's marital status through the electronic birth registration process but this item is not included on certified or paper copies of the birth certificate. Beginning June 15, 1998, Connecticut discontinued inferring the mother's marital status to the State's birth certificate.

In the two States (Michigan and New York) that use inferential procedures to compile birth statistics by marital status in 1998, a birth is inferred as nonmarital if either of these factors is present: a paternity acknowledgment was received or the father's name is missing. In recent years, a number of States have extended their efforts to identify the fathers when the parents are not married in order to enforce child support obligations. The presence of a paternity acknowledgment therefore is the most reliable indicator that the birth is nonmarital in the States not reporting this information directly; this is now the key indicator in the nonreporting States.

Since 1980 the National Center for Health Statistics has published information on nonmarital births, which incorporates reported and inferential data. The inferential procedures represent a substantial departure from the method used before 1980 to prepare national estimates of births to unmarried women, which assumed that the incidence of births to unmarried women in States with no direct question on marital status was the same as the incidence in reporting States in the same geographic division (23). Inferential procedures in current use, however, are quite different from those in use during the 1980's, when there was heavy reliance on a comparison of the surnames of the parents and the child to infer the mother's marital status. The procedures now in use depend, as noted above, on very reliable indicators, namely a paternity affidavit or missing information on the father.

A review of Connecticut's birth data for 1998 indicate that during the first 6 months of 1998, when the inferential procedures were still in use, the proportion of births to unmarried women was somewhat higher (33 percent) than in the last 6 months when marital status was based on a direct question (29 percent). The inferential procedures in effect in Connecticut relied principally on a comparison of the surnames of the parents and child. It appears that the inferential procedures resulted in some overestimation of the number of births to unmarried women, probably because of the reliance on a comparison of surnames. It is estimated that if the Connecticut reporting procedures had not changed, the number of nonmarital births would have been about 1,000 higher. Because Connecticut accounts for only about 1 percent of U.S. births, the reporting changes had essentially no impact on data for the Nation.

The procedures for reporting marital status in California, Nevada, and New York City changed beginning January 1, 1997. The methods used to determine marital status and the impact of the procedures on the data were discussed in detail in previous reports (1, 20).

The use of inferential marital status data together with information from a direct question represents an attempt to use related information on the birth certificate to improve the quality of national data as well as to provide data for the individual nonreporting States. Because of the continued substantial increases in nonmarital childbearing throughout the 1980's, the data have been intensively evaluated by the Division of Vital Statistics, NCHS. The results of this evaluation show that trends in birth rates for unmarried women for rates computed on the basis of estimated data and on the basis of inferred data are essentially the same.

The mother's marital status was not reported in 1998 on 0.04 percent of the birth records. Marital status was imputed as "married" for these records.

Prenatal care

As a result of a programming error, the proportions presented in "Report of Final Natality Statistics, 1996" and "Births: Final Data for 1997" for the Adequacy of Prenatal Care Utilization Index (APNCU) are incorrect for levels of care other than intensive use of care (19, 20, 71). Levels for the adequate care category are only slightly different from those published previously. The corrected APNCU levels for 1990 and 1995–97 are presented in this report.

Gestation

The primary measure used to determine the gestational age of the newborn is the interval between the first day of the mother's last normal menstrual period (LMP) and the date of birth. It is subject to error for several reasons, including imperfect maternal recall or misidentification of the LMP because of postconception bleeding, delayed ovulation, or intervening early miscarriage. These data are edited for LMP-based gestational ages that are clearly inconsistent with the infant's plurality and birthweight (see below), but reporting problems for this item persist and may occur more frequently among some subpopulations and among births with shorter gestations (70, 72).

The U.S. Standard Certificate of Live Birth includes an item, "clinical estimate of gestation," that is being compared with length of gestation computed from the date the last normal menstrual period (LMP) began when the latter appears to be inconsistent with birthweight. This is done for normal weight births of apparently short gestations and very low birthweight births reported to be full term. The clinical estimate was also used if the LMP date was not reported. The period of gestation for 5.1 percent of the births in 1998 was based on the clinical estimate of gestation. For 97 percent of these records, the clinical estimate was used because the LMP date was not reported. For the remaining 3 percent, the clinical estimate was used because it was compatible with the reported birthweight, whereas the LMP-based gestation was not. In cases where the reported birthweight was inconsistent with both the LMP-computed gestation and the clinical estimate of gestation, the LMP-computed gestation was used, and birthweight was reclassified as "not stated." This was necessary for about 350 births, or 0.01 percent of all birth records in 1998. The levels of the adjustments in 1998 data were similar to those for 1997 and earlier years (20).

Birthweight

Birthweight is reported in some areas in pounds and ounces rather than in grams. However, the metric system has been used in tabulating and presenting the statistics to facilitate comparison with data published by other groups. Equivalents of the gram weights in terms of pounds and ounces are as follows:

Less than 500 grams = 1 lb 1 oz or less 500–999 grams = 1 lb 2 oz–2 lb 3 oz 1,000–1,499 grams = 2 lb 4 oz–3 lb 4 oz

| 1,500–1,999 grams = 3 lb 5 oz–4 lb 6 oz |
|-------------------------------------------|
| 2,000–2,499 grams = 4 lb 7 oz–5 lb 8 oz |
| 2,500–2,999 grams = 5 lb 9 oz–6 lb 9 oz |
| 3,000-3,499 grams = 6 lb 10 oz-7 lb 11 oz |
| 3,500-3,999 grams = 7 lb 12 oz-8 lb 13 oz |
| 4,000-4,499 grams = 8 lb 14 oz-9 lb 14 oz |
| 4,500-4,999 grams = 9 lb 15 oz-11 lb 0 oz |
| 5,000 grams or more = 11 lb 1 oz or more |

Method of delivery

Several rates are computed for method of delivery. The overall cesarean section rate or *total cesarean* rate is computed as the percent of all births that were delivered by cesarean section. The *primary cesarean* rate is a measure that relates the number of women having a first cesarean delivery to all women giving birth who have never had a cesarean delivery. The denominator for this rate includes all births less those with method of delivery classified as repeat cesarean, vaginal birth after previous cesarean (VBAC) delivery is computed by relating all VBAC deliveries to the sum of VBAC and repeat cesarean deliveries, that is, to women with a previous cesarean section. The proportion of VBAC deliveries among births in Hawaii in 1998 is overstated because of incomplete reporting in some hospitals.

Computations of percents, percent distributions, and medians

Births for which a particular characteristic is unknown were subtracted from the figures for total births that were used as denominators before percents, percent distributions, and medians were computed. The percent of records with missing information for each item is shown by State in **table I**. The median number of prenatal visits also excludes births to mothers who had no prenatal care. Computations of the median years of school completed and the median number of prenatal visits were based on ungrouped data. An asterisk is shown in place of any derived statistic based on fewer than 20 births in the numerator or denominator.

Population denominators

Birth and fertility rates for 1998 shown in tables 1, 3–6, 8, 9, 13, and 14 are based on populations estimated as of July 1, 1998. These populations are shown in tables II and III. The population estimates have been published by the U.S. Bureau of the Census (5) and are based on the 1990 census counts by race and age, which were modified to be consistent with Office of Management and Budget racial categories and historical categories for birth data, and in the case of age, to reflect age as of the census reference date. The modification procedures are described in detail in a census report (73).

Birth and fertility rates by State shown in table 10 are based on State-level population estimates provided by the U.S. Bureau of the Census that are consistent with the U.S. populations (74). Rates by State shown in this report may differ from rates computed on the basis of other population estimates. Birth and fertility rates by month shown in table 15 are based on monthly population estimates also based on the 1998 estimates. Rates for unmarried women shown in tables 17 and 18 are based on distributions of the population by marital status as of March 1998 provided by the U.S. Bureau of the Census (22), which have been adjusted to July 1998 population levels (5) by the Division of Vital Statistics, NCHS (23).

Birth and fertility rates for the Hispanic population, shown in tables 6, 8, 9, and 14, are based on estimates of the total Hispanic population as of July 1, 1998 (5). Rates for Hispanic subgroups are based on special population estimates that are presented in table III in the Technical notes (75).

Computation of rates

In computing birth rates by live-birth order, births with birth order not stated were distributed in the same proportion as births of known live-birth order. This procedure is done separately by race.

In computing birth and fertility rates for the Hispanic population, births with origin of mother not stated are included with non-Hispanic births rather than being distributed. Thus, rates for the U.S. Hispanic population are underestimates of the true rates to the extent that the births with origin of mother not stated (1.2 percent) were actually to Hispanic mothers (see table I). In computing the rates, the censusbased populations with origin not stated are imputed. The effect on the rates is believed to be small.

Age of father—Information on age of father is often missing on birth certificates of children born to unmarried women (table I). In computing birth rates by age of father, births where age of father is not stated are distributed in the same proportions as births with known age within each 5-year age classification of mother. This procedure is followed because, while father's age is missing on 14 percent of the birth certificates, one third of these were on records where the mother is a teenager. This distribution procedure is done separately by race. When the father's race is not stated, the race of the mother is assigned to the father prior to distributing the data for age of father not stated. The resulting distributions are summed to form a composite frequency distribution that is the basis for computing birth rates by age of father. This procedure avoids the distortion in rates that would result if the relationship between age of mother and age of father were disregarded.

Graphic presentation

Trend data shown in figures 2–7 are plotted using a logarithmic scale. This approach is taken to facilitate comparison of the relative change in rates over time for each series of rates as well as the differentials among rates for different series. The trend lines in figure 2, for example, show that women 40–44 years of age experienced the most change of any group over the period, and also that they had the greatest increase in rates since 1985.

Random variation and significance testing for natality data

The number of births reported for an area is essentially a complete count, because more than 99 percent of all births are registered. Although this number is not subject to sampling error, it may be affected by nonsampling errors such as mistakes in recording the mother's residence or age during the registration process.

When the number of births is used for analytic purposes the number of events that *actually* occurred can be thought of as one in

Table II. Estimated total population by race, and estimated female population by age and race: United States, 1998

[Populations estimated as of July 1]

| Age | All races | White | Black | American Indian | Asian or Pacific Islander |
|-------------------|-------------|-------------|------------|--------------------|------------------------------|
| Total population | 270,298,524 | 223,000,729 | 34,430,569 | 2,359,946 | 10,507,280 |
| Female population | | | | | |
| 15–44 years | 60,111,557 | 48,250,829 | 8,591,694 | 569,534 | 2,699,500 |
| 10–14 years | 9,387,020 | 7,402,657 | 1,472,646 | 119,551 | 392,166 |
| 15–19 years | 9,493,761 | 7,500,658 | 1,487,073 | 113,821 | 392,209 |
| 15–17 years | 5,694,086 | 4,498,674 | 881,464 | 71,297 | 242,651 |
| 18–19 years | 3,799,675 | 3,001,984 | 605,609 | 42,524 | 149,558 |
| 20–24 years | 8,678,024 | 6,868,796 | 1,332,918 | 93,674 | 382,636 |
| 25–29 years | 9,341,226 | 7,394,657 | 1,368,895 | 93,239 | 484,435 |
| 30–34 years | 10,179,403 | 8,145,421 | 1,448,812 | 89,390 | 495,780 |
| 35–39 years | 11,369,766 | 9,261,994 | 1,529,631 | 92,526 | 485,615 |
| 10-44 years | 11,049,377 | 9,079,303 | 1,424,365 | 86,884 | 458,825 |
| 15–49 years | 9,607,011 | 7,972,031 | 1,169,762 | 71,258 | 393,960 |

SOURCE: U.S. Bureau of the Census. Unpublished Census file NESTV98.wk1. consistent with populations published in: U.S. population estimates, by age, sex, race, and Hispanic origin: 1990 to 1998. Washington, DC: U.S. Bureau of the Census. Internet release, June 4, 1999. http://www.census.gov/population/www/estimates/uspop.html.

Table III. Estimated total population by specified Hispanic origin and estimated female population by age and specified Hispanic origin and by race for women of non-Hispanic origin: United States, 1998

[Populations estimated as of July 1]

| | | | Hispanic | | | | Non-Hispanic | |
|-------------------|------------|------------|--------------|-----------|--------------------------------|--------------------|--------------|------------|
| Age | Total | Mexican | Puerto Rican | Cuban | Other Hispanic ¹ | Total ² | White | Black |
| Total population | 30,250,248 | 19,552,181 | 3,018,584 | 1,322,312 | 6,387,171 | 240,048,291 | 195,439,555 | 32,717,947 |
| Female population | | | | | | | | |
| 15–44 years | 7,269,192 | 4,605,176 | 759,516 | 263,807 | 1,640,985 | 52,842,369 | 41,645,748 | 8,172,590 |
| 10–14 years | 1,286,910 | 884,607 | 139,675 | 30,635 | 231,989 | 8,100,120 | 6,238,757 | 1,398,096 |
| 15–19 years | 1,296,337 | 861,714 | 151,227 | 36,648 | 246,744 | 8,197,425 | 6,322,186 | 1,415,021 |
| 15–17 years | 774,225 | 527,598 | 91,034 | 23,087 | 132,501 | 4,919,866 | 3,795,902 | 838,562 |
| 18–19 years | 522,112 | 334,116 | 60,193 | 13,561 | 114,243 | 3,277,559 | 2,526,284 | 576,459 |
| 20-24 years | 1,250,938 | 828,513 | 109,181 | 29,625 | 283,615 | 7,427,083 | 5,725,391 | 1,265,049 |
| 25–29 years | 1,223,460 | 801,871 | 130,708 | 39,510 | 251,371 | 8,117,764 | 6,282,628 | 1,300,046 |
| 30–34 years | 1,270,594 | 792,065 | 130,108 | 58,495 | 289,929 | 8,908,804 | 6,993,329 | 1,372,694 |
| 35–39 years | 1,207,754 | 691,785 | 137,162 | 56,344 | 322,468 | 10,162,016 | 8,166,734 | 1,456,919 |
| 40-44 years | 1,020,109 | 629,228 | 100,830 | 43,185 | 246,858 | 10,029,277 | 8,155,480 | 1,362,861 |
| 45–49 years | 794,527 | 457,033 | 82,975 | 34,958 | 219,561 | 8,812,484 | 7,251,049 | 1,122,532 |

¹Includes Central and South American and other and unknown Hispanic.

²Includes races other than white and black.

SOURCE: Population estimates based on unpublished tabulations prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Totals for Hispanic population and non-Hispanic population by race are consistent with figures published in: U.S. Bureau of the Census. Unpublished Census file NESTV98.wk1. consistent with populations published in: U.S. population estimates, by age, sex, race, and Hispanic origin: 1990 to 1998. Washington, DC: U.S. Bureau of the Census. Internet release, June 4, 1999. http://www.census.gov/population/www/estimates/uspop.html.

a large series of possible results that *could have* occurred under the same circumstances. When considered in this way, the number of births is subject to random variation. The probable range of values may be estimated from the actual figures according to certain statistical assumptions.

The **confidence interval** is the range of values for the number of births, birth rates, or percent of births that you could expect in 95 out of 100 cases. The **confidence limits** are the end points of this range of values (the highest and lowest values). Confidence limits tell you how much the number of events or rates could vary under similar circumstances.

Confidence limits for numbers, rates, and percents can be estimated from the actual number of events. Procedures differ for rates and percents and also differ depending on the number of births on which these statistics are based. Below are detailed procedures and examples for each type of case.

95-percent confidence limits for numbers less than 100

When the number of births is less than 100 and the rate is small, the data are assumed to follow a Poisson probability distribution. Confidence limits are estimated using the following formulas:

Lower limit = $B \times L$ Upper limit = $B \times U$ where:

B = the number of births

L = the value in Table IV that corresponds to the number BU = the value in Table IV that corresponds to the number B

Example

Suppose that the number of first births to American Indian women 40–44 years of age was 47. The confidence limits for this number would be:

Lower limit =
$$B \times L$$

= 47 x 0.73476
= 35
Upper limit = $B \times U$
= 47 x 1.32979
= 63

This means that the chances are 95 out of 100 that the actual number of first births to American Indian women 40–44 years of age would lie between 35 and 63.

95-percent confidence limits for numbers of 100 or more

When the number of events is greater than 100, the data are assumed to be approximately normally distributed. Formulas for 95-percent confidence limits are:

Lower limit =
$$B - (1.96 x \sqrt{B})$$

Upper limit = $B + (1.96 x \sqrt{B})$

where:

B = the number of births

Example

Suppose that the number of first births to white women 40–44 years of age was 14,108. The 95- percent confidence limits for this number would be:

Lower limit = 14,108 - (1.96 x
$$\sqrt{14,108}$$
)
= 14,108 - 233
= 13,875
Upper limit = 14,108 + (1.96 x $\sqrt{14,108}$)
= 14,108 + 233
= 14,341

This means that the chances are 95 out of 100 that the actual number of first births to white women 40–44 years of age would lie between 13,875 and 14,341.

Computing confidence intervals for rates

The same statistical assumptions can be used to estimate the variability in birth rates. Again, one formula is used for rates based on numbers of events less than 100, and another formula for rates based on numbers of 100 or greater. For our purposes, assume that the denominators of these rates (the population estimates) have no error. While this assumption is technically correct only for denominators

based on the census that occurs every 10 years, the error in intercensal population estimates is usually small, difficult to measure, and therefore not considered.

95-percent confidence limits for rates based on less than 100 events

When the number of events in the numerator is less than 20, an asterisk is shown in place of the rate because there were too few births to compute a statistically reliable rate. When the number of events in the numerator is greater than 20 but less than 100, the confidence interval for a rate can be estimated using the two formulas that follow and the values in Table IV.

Upper limit = $R \times U$

where:

- R = the birth rate
- L = the value in Table IV that corresponds to the number *B* in the numerator of the rate
- *U* = the value in Table IV that corresponds to the number *B* in the numerator of the rate

Example

Suppose that the first birth rate for American Indian women 40–44 years of age was 0.54 per 1,000, based on 47 births in the numerator. Using Table IV:

Lower limit = $0.54 \times 0.73476 = .40$ Upper limit = $0.54 \times 1.32979 = .72$

This means that the chances are 95 out of 100 that the actual first birth rate for American Indian women 40–44 year of age lies between .40 and .72.

95-percent confidence limits for rates when the numerator is 100 or more

In this case, use the following formula for the birth rate R based on the number of births B:

Lower limit =
$$R - [1.96 \ x (R / \sqrt{B})]$$

Upper limit = $R + [1.96 \ x (R / \sqrt{B})]$

where:

R = the birth rate B = the number of births

Example

Suppose that the first birth rate for white women 40–44 years of age was 1.55 per 1,000, based on 14,108 births in the numerator. Therefore, the 95-percent confidence interval would be:

| Ν | L | U | Ν | L | U |
|-----------------------------------------|---------|---------|-------|---------|---------|
| l | 0.02532 | 5.57164 | 51 | 0.74457 | 1.31482 |
| | 0.12110 | 3.61234 | 52 | 0.74685 | 1.31137 |
| | 0.20622 | 2.92242 | 53 | 0.74907 | 1.30802 |
| | 0.27247 | 2.56040 | 54 | 0.75123 | 1.30478 |
| | 0.32470 | 2.33367 | FF | 0.75334 | 1.30164 |
| | 0.32470 | 2.33307 | - () | 0.75539 | 1.29858 |
|) | 0.40205 | 2.06038 | | 0.75739 | 1.29562 |
| 1 | | 2.00038 | 50 | 0.75934 | |
| 3 | 0.43173 | | 50 | | 1.29273 |
| | 0.45726 | 1.89831 | 59 | 0.76125 | 1.28993 |
|) | 0.47954 | 1.83904 | 60 | 0.76311 | 1.28720 |
| | 0.49920 | 1.78928 | 61 | 0.76492 | 1.28454 |
| | 0.51671 | 1.74680 | 62 | 0.76669 | 1.28195 |
| } | 0.53246 | 1.71003 | 63 | 0.76843 | 1.27943 |
| | 0.54671 | 1.67783 | 64 | 0.77012 | 1.27698 |
| | 0.55969 | 1.64935 | 65 | 0.77178 | 1.27458 |
|) | 0.57159 | 1.62394 | 66 | 0.77340 | 1.2722 |
| | 0.58254 | 1.60110 | 67 | 0.77499 | 1.26996 |
| | 0.59266 | 1.58043 | 68 | 0.77654 | 1.26774 |
| | 0.60207 | 1.56162 | 69 | 0.77806 | 1.2655 |
| | 0.61083 | 1.54442 | 70 | 0.77955 | 1.26344 |
| | 0.61902 | 1.52861 | 71 | 0.78101 | 1.2613 |
| | 0.62669 | 1.51401 | 72 | 0.78244 | 1.2593 |
| | 0.63391 | 1.50049 | 73 | 0.78384 | 1.2573 |
| | 0.64072 | 1.48792 | 74 | 0.78522 | 1.2554 |
| | 0.64715 | 1.47620 | | 0.78656 | 1.2535 |
|) | 0.65323 | 1.46523 | | 0.78789 | 1.2535 |
| | 0.65901 | 1.45495 | | 0.78918 | 1.2310 |
| | | 1.44528 | | 0.79046 | 1.2490 |
| | 0.66449 | | 70 | | |
| | 0.66972 | 1.43617 | 79 | 0.79171 | 1.2463 |
| | 0.67470 | 1.42756 | 80 | 0.79294 | 1.2445 |
| | 0.67945 | 1.41942 | 81 | 0.79414 | 1.2429 |
| | 0.68400 | 1.41170 | 82 | 0.79533 | 1.24120 |
| } | 0.68835 | 1.40437 | 83 | 0.79649 | 1.2396 |
| • • • • • • • • • • • • • • • • • • • • | 0.69253 | 1.39740 | 84 | 0.79764 | 1.2380 |
| | 0.69654 | 1.39076 | 85 | 0.79876 | 1.23652 |
| | 0.70039 | 1.38442 | 86 | 0.79987 | 1.2349 |
| | 0.70409 | 1.37837 | 87 | 0.80096 | 1.23350 |
| | 0.70766 | 1.37258 | 88 | 0.80203 | 1.23203 |
| | 0.71110 | 1.36703 | 89 | 0.80308 | 1.23059 |
| | 0.71441 | 1.36172 | 90 | 0.80412 | 1.2291 |
| | 0.71762 | 1.35661 | 91 | 0.80514 | 1.22778 |
| | 0.72071 | 1.35171 | 92 | 0.80614 | 1.2264 |
| | 0.72370 | 1.34699 | 93 | 0.80713 | 1.2250 |
| | 0.72660 | 1.34245 | 94 | 0.80810 | 1.2237 |
| | 0.72941 | 1.33808 | 95 | 0.80906 | 1.2224 |
| | 0.73213 | 1.33386 | | 0.81000 | 1.2224 |
|) | 0.73476 | 1.32979 | | 0.81093 | 1.2211 |
| | 0.73732 | 1.32585 | | 0.81185 | 1.2186 |
| | 0.73981 | 1.32385 | | 0.81275 | 1.21808 |
| | 0./3701 | 1.32200 | 99 | 0.01270 | 1.21/40 |

Table IV. Values of L and U for calculating 95 percent confidence limits for numbers of events and rates when the number of events is less than 100

Upper limit = $1.55 + [1.96 \times (1.55 / \sqrt{14,108})]$ = 1.55 + .026= 1.58

This means that the chances are 95 out of 100 that the actual first birth rate for white women 40–44 years of age lies between 1.52 and 1.58.

Computing 95-percent confidence intervals for percents

In many instances we need to compute the confidence intervals for percents. Percents derive from a binomial distribution. As with birth rates, an asterisk will be shown for any percent that is based on fewer than 20 births in the numerator. We easily compute a 95-percent confidence interval for a percent when the following conditions are met:

$$B \ge p > = 5$$
 and $B \ge q > = 5$

where:

B = number of births in the denominator

p = percent divided by 100

$$q = 1 - p$$

For natality data, these conditions will be met except for very rare events in small subgroups. If the conditions are *not* met, the variation in the percent will be so large as to render the confidence intervals meaningless. When these conditions are met the 95-percent confidence interval can be computed using the normal approximation of the binomial. The 95-percent confidence intervals are computed by the following formulas:

Lower limit =
$$p - \left(1.96 \sqrt{\frac{pq}{B}}\right)$$

Upper limit = $p + \left(1.96 \sqrt{\frac{pq}{B}}\right)$

where:

```
B = number of births in the denominator

p = percent divided by 100

q = 1 - p
```

Example

Suppose that the percent of births to Hispanic women in Alabama that were to unmarried women was 23.0 percent. This was based on 310 births in the numerator and 1,345 births in the denominator. First we test to make sure we can use the normal approximation of the binomial:

1,345 x .230 = 309 1,345 x (1 - .230) = 1,345 x .770 = 1,036

Both 309 and 1,036 are greater than 5 so we can proceed. The 95-percent confidence interval would be:

Lower limit = .23 -
$$\left[1.96 \sqrt{\frac{.23(.77)}{1.345}}\right]$$

= .23 - .022
= .208, or 20.8 percent
Upper limit = .23 + $\left[1.96 \sqrt{\frac{.23(.77)}{1.345}}\right]$
= .23 + .022
= .252, or 25.2 percent

This means that the chances are 95 out of 100 that the actual percent of births in Alabama to Hispanic women that are to unmarried women lies between 20.8 and 25.2 percent.

Significance testing

One of the rates is based on fewer than 100 cases

To compare two rates, when one or both of those rates are based on less than 100 cases, you first compute the confidence intervals for both rates. Then you check to see if those intervals overlap. If they **do** overlap, the difference is not statistically significant at the 95-percent level. If they **do not** overlap, the difference is indeed "statistically significant."

Example

Is the first birth rate for American Indian women 40–44 years of age (.54 per 1,000) significantly lower than the comparable rate for white women (1.55)? The rate for American Indian women is based on 47 events whereas the rate for white women is based on 14,108 events. The rate for American Indian women is based on less than 100 events; therefore, the first step is to compute the confidence intervals for both rates.

| | Lower Limit | Upper Limit |
|-----------------------|--------------|--------------|
| American Indian women | 0.40 1.52 | 0.72 1.58 |

These two confidence intervals do not overlap. Therefore, the first birth rate for American Indian women aged 40–44 years is significantly lower (at the 95-percent confidence level) than the comparable rate for white women.

Both rates are based on 100 or more events

When both rates are based on 100 or more events, the difference between the two rates is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two rates.

$$1.96\sqrt{\frac{R_1^2}{N_1} + \frac{R_2^2}{N_2}}$$

where:

 R_1 = first rate R_2 = second rate N_1 = first number of births N_2 = second number of births

If the difference is **greater** than this statistic, then the difference would occur by chance less than 5 times out of 100. If the difference is **less** than this statistic, the difference might occur by chance more than 5 times out of 100. We say that the difference is not statistically significant at the 95-percent confidence level.

Example

Is the first birth rate for black women 40–44 years of age (1.08 per 1,000) significantly lower than the comparable rate for white women (1.55)? Both rates are based on more than 100 births (1,535 for black women and 14,108 for white women). The difference between the rates is 1.55 - 1.08 = .47. The statistic is then calculated as follows:

$$1.96\sqrt{\frac{1.08^{2}}{1,535} + \frac{1.55^{2}}{14,108}}$$

= 1.96 x \sqrt{[(1.166/1,535) + (2.403/14,108)]}
= 1.96 x \sqrt{0.00076 + 0.00017}
= 1.96 x \sqrt{0.00093}
= 1.96 x .03
= .06

The difference between the rates (.47) is greater than this statistic (.06). Therefore, the difference is statistically significant at the 95-percent confidence level.

Testing differences between two percents

When testing the difference between two percents, both percents must meet the following conditions:

$$B \ge p > = 5$$
 and $B \ge q > = 5$

where:

B = number of births in the denominator

$$p =$$
 percent divided by 100
 $q = 1 - p$

When both percents meet these conditions then the difference between the two percents is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two percents.

1.96
$$\sqrt{p(1-p)\left(\frac{1}{B_1}+\frac{1}{B_2}\right)}$$

where:

 B_1 = number of births in the denominator for the first percent B_2 = number of births in the denominator for the second percent

$$p = \frac{B_1 \, p_1 + B_2 \, p_2}{B_1 + B_2}$$

 p_1 = first percent divided by 100 p_2 = second percent divided by 100

Example

Is the percent of births to Hispanic women that were to unmarried women higher in Alaska (28.8 percent) than in Alabama (23.0). The number in the denominator was 1,345 in Alabama and 593 in Alaska. The necessary conditions are met for both percents (calculations not shown). The difference between the two percents is .288 - .230 = .058. The statistic is then calculated as follows:

The difference between the percents (.058) is greater than this statistic (.042). Therefore, the difference is statistically significant at the 95-percent confidence level.

Definitions of medical terms

The 1989 revision of the U.S. Standard Certificate of Live Birth includes several maternal and infant health items in checkbox format, including obstetric procedures, medical risk factors, complications of labor and/or delivery, abnormal conditions of the newborn, and congenital anomalies of the child (figure I). The definitions which follow are adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials for the National Association of Public Health Statistics and Information Systems, formerly known as the Association for Vital Records and Health Statistics (76).

Medical risk factors for this pregnancy

Anemia—Hemoglobin level of less than 10.0 g/dL during pregnancy or a hematocrit of less than 30 percent during pregnancy. *Cardiac disease*—Disease of the heart.

Acute or chronic lung disease—Disease of the lungs during pregnancy.

Diabetes—Metabolic disorder characterized by excessive discharge of urine and persistent thirst; includes juvenile onset, adult onset, and gestational diabetes during pregnancy.

Genital herpes—Infection of the skin of the genital area by herpes simplex virus.

Hydramnios/oligohydramnios—Any noticeable excess (hydramnios) or lack (oligohydramnios) of amniotic fluid.

Hemoglobinopathy—A blood disorder caused by alteration in the genetically determined molecular structure of hemoglobin (example: sickle cell anemia).

Hypertension, chronic—Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20th week of gestation.

Hypertension, pregnancy-associated—An increase in blood pressure of at least 30 mm Hg systolic or 15 mm Hg diastolic on two measurements taken 6 hours apart after the 20th week of gestation.

Eclampsia—The occurrence of convulsions and/or coma unrelated to other cerebral conditions in women with signs and symptoms of pre-eclampsia.

Incompetent cervix—Characterized by painless dilation of the cervix in the second trimester or early in the third trimester of pregnancy, with premature expulsion of membranes through the cervix and ballooning of the membranes into the vagina, followed by rupture of the membranes and subsequent expulsion of the fetus.

Previous infant 4,000+ grams—The birth weight of a previous live-born child was over 4,000+ grams (8 pounds 14 ounces).

Previous preterm or small-for-gestational-age infant—Previous birth of an infant prior to term (before 37 completed weeks of gestation) or of an infant weighing less than the tenth percentile for gestational age using a standard weight for age chart.

Renal disease—Kidney disease.

Rh sensitization—The process or state of becoming sensitized to the Rh factor as when an Rh-negative woman is pregnant with an Rh-positive fetus.

Uterine bleeding—Any clinically significant bleeding during the pregnancy taking into consideration the stage of pregnancy; any second or third trimester bleeding of the uterus prior to the onset of labor.

Obstetric procedures

Amniocentesis—Surgical transabdominal perforation of the uterus to obtain amniotic fluid to be used in the detection of genetic disorders, fetal abnormalities, and fetal lung maturity.

Electronic fetal monitoring—Monitoring with external devices applied to the maternal abdomen or with internal devices with an electrode attached to the fetal scalp and a catheter through the cervix into the uterus, to detect and record fetal heart tones and uterine contractions.

Induction of labor—The initiation of uterine contractions before the spontaneous onset of labor by medical and/or surgical means for the purpose of delivery.

Stimulation of labor—Augmentation of previously established labor by use of oxytocin.

Tocolysis—Use of medications to inhibit preterm uterine contractions to extend the length of pregnancy and, therefore, avoid a preterm birth.

Ultrasound—Visualization of the fetus and the placenta by means of sound waves.

| ANCY 40. COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply) (Check all that apply) | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| (Object with the state of the s | 38a. MEDICAL RISK FACTORS FOR THIS PREGNANCY |
| | (Check all that apply) |
| | Anemia (Hct. < 30/Hgb. <10) 01 🗆 |
| | Cardiac disease |
| | Acute or chronic lung disease |
| | Diabetes |
| . 05 Placenta previa | Genital herpes |
| . 06 Other excessive bleeding | Hydramnios/Oligohydramnios |
| 07 | Hemoglobinopathy |
| | Hypertension, chronic 08 🗆 |
| | Hypertension, pregnancy-associated |
| . 10 Dysfunctional labor | Eclampsia |
| . 11 G Breech/Malpresentation | Incompetent cervix 11 🗆 |
| . 12 🗆 Cephalopelvic disproportion | Previous infant 4000 + grams |
| Cord prolapse | Previous preterm or small-for-gestational-age |
| 13 🗆 Anesthetic complications | infant 13 🗆 |
| . 14 🗆 Fetal distress | Renal disease |
| 15 🗆 None | Rh sensitization |
| | Uterine bleeding 16 🗆 |
| | None 00 🗆 |
| 17 □ Renal agenesis | Other 17 🗆 |
| 41. METHOD OF DELIVERY (Check all that apply) Other urogenital anomalies | (Specify) |
| (Specify) 14 | 38b. OTHER RISK FACTORS FOR THIS PREGNANCY |
| Vaginal01 | (Complete all items) |
| Vaginal birth after previous C-section | (complete all items) |
| | Tobacco use during pregnancy Yes 🗆 No 🗆 |
| Repeat O section | Average number cigarettes per day |
| | Alcohol use during pregnancy Yes 🗆 No 🗆 |
| | Average number drinks per week |
| | Weight gained during pregnancy lbs. |
| 10 | |
| Down's syndrome | 39. OBSTETRIC PROCEDURES |
| Anemia (Hct. <39/Hgb. <13)01 Other chromosomal anomalies | (Check all that apply) |
| Birth injury | ······································ |
| | Amniocentesis 01 🗆 |
| | Electronic fetal monitoring |
| | Induction of labor |
| | Stimulation of labor |
| | Tocolysis 05 🗆 |
| $05 \square$ Assisted ventilation $\ge 30 \text{ min} \dots 07 \square$ | Ultrasound |
| | None |
| 06 🗆 Seizures | |
| 06 □ Seizures | Other07 🖸 |
| No Iminity Osecution O3 Polydactyly/Syndactyly/Adactyly Repeat C-section O4 Club foot Club foot Vacuum O5 Diaphragmatic hernia Other musculoskeletal/integumental anomalies Vacuum O6 Other musculoskeletal/integumental anomalies Vacuum O1 Check all that apply Down's syndrome Anemia (Hct. < 39/Hgb. < 13) | Average number cigarettes per day Alcohol use during pregnancy |

Figure I. Selected maternal and infant health items from the 1989 revision of the U.S. Standard Certificate of Live Birth

Complications of labor and/or delivery

Febrile—A fever greater than 100 degrees F. or 38 C. occurring during labor and/or delivery.

Meconium, moderate/heavy—Meconium consists of undigested debris from swallowed amniotic fluid, various products of secretion, excretion and shedding by the gastrointestinal tract; moderate to heavy amounts of meconium in the amniotic fluid noted during labor and/or delivery.

Premature rupture of membranes (more than 12 hours)—Rupture of the membranes at any time during pregnancy and more than 12 hours before the onset of labor.

Abruptio placenta—Premature separation of a normally implanted placenta from the uterus.

Placenta previa—Implantation of the placenta over or near the internal opening of the cervix.

Other excessive bleeding—The loss of a significant amount of blood from conditions other than abruptio placenta or placenta previa.

Seizures during labor—Maternal seizures occurring during labor from any cause.

Precipitous labor (less than 3 hours)—Extremely rapid labor and delivery lasting less than 3 hours.

Prolonged labor (more than 20 hours)—Abnormally slow progress of labor lasting more than 20 hours.

Dysfunctional labor—Failure to progress in a normal pattern of labor.

Breech/malpresentation—At birth, the presentation of the fetal buttocks rather than the head, or other malpresentation.

Cephalopelvic disproportion—The relationship of the size, presentation, and position of the fetal head to the maternal pelvis which prevents dilation of the cervix and/or descent of the fetal head.

Cord prolapse—Premature expulsion of the umbilical cord in labor before the fetus is delivered.

Anesthetic complications—Any complication during labor and/or delivery brought on by an anesthetic agent or agents.

Fetal distress—Signs indicating fetal hypoxia (deficiency in amount of oxygen reaching fetal tissues).

Abnormal conditions of the newborn

Anemia—Hemoglobin level of less than 13.0 g/dL or a hematocrit of less than 39 percent.

Birth injury—Impairment of the infant's body function or structure due to adverse influences which occurred at birth.

Fetal alcohol syndrome—A syndrome of altered prenatal growth and development occurring in infants born of women who consumed excessive amounts of alcohol during pregnancy.

Hyaline membrane disease/RDS—A disorder primarily of prematurity, manifested clinically by respiratory distress and pathologically by pulmonary hyaline membranes and incomplete expansion of the lungs at birth. *Meconium aspiration syndrome*—Aspiration of meconium by the fetus or newborn, affecting the lower respiratory system.

Assisted ventilation (less than 30 minutes)—A mechanical method of assisting respiration for newborns with respiratory failure.

Assisted ventilation (30 minutes or more)—Newborn placed on assisted ventilation for 30 minutes or longer.

Seizures—A seizure of any etiology.

Congenital anomalies of child

Anencephalus-Absence of the cerebral hemispheres.

Spina bifida/meningocele—Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.

Hydrocephalus—Excessive accumulation of cerebrospinal fluid within the ventricles of the brain with consequent enlargement of the cranium.

Microcephalus-A significantly small head.

Other central nervous system anomalies—Other specified anomalies of the brain, spinal cord, and nervous system.

Heart malformations—Congenital anomalies of the heart.

Other circulatory/respiratory anomalies—Other specified anomalies of the circulatory and respiratory systems.

Rectal atresia/stenosis—Congenital absence, closure, or narrowing of the rectum.

Tracheo-esophageal fistula/Esophageal atresia—An abnormal passage between the trachea and the esophagus; esophageal atresia is the congenital absence or closure of the esophagus.

Omphalocele/gastroschisis—An omphalocele is a protrusion of variable amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.

Other gastrointestinal anomalies—Other specified congenital anomalies of the gastrointestinal system.

Malformed genitalia—Congenital anomalies of the reproductive organs.

Renal agenesis—One or both kidneys are completely absent.

Other urogenital anomalies—Other specified congenital anomalies of the organs concerned in the production and excretion of urine, together with organs of reproduction.

Cleft lip/palate—Cleft lip is a fissure or elongated opening of the lip; cleft palate is a fissure in the roof of the mouth. These are failures of embryonic development.

Polydactyly/syndactyly/adactyly—Polydactyly is the presence of more than five digits on either hands and/or feet; syndactyly is having fused or webbed fingers and/or toes; adactyly is the absence of fingers and/or toes.

Club foot—Deformities of the foot, which is twisted out of shape or position.

Diaphragmatic hernia—Herniation of the abdominal contents through the diaphragm into the thoracic cavity usually resulting in respiratory distress.

Other musculoskeletal/integumental anomalies—Other specified congenital anomalies of the muscles, skeleton, or skin.

Down's syndrome—The most common chromosomal defect with most cases resulting from an extra chromosome (trisomy 21).

Other chromosomal anomalies—All other chromosomal aberrations.

Related reports

Many of the topics discussed in this report are covered in more analytic detail in other reports published by NCHS. Topics of reports published in the past 5 years include Hispanic origin births (4); twin and triplet births (62, 63); teenage birth rates by State (6, 21); birth rates by educational attainment of the mother (77); cesarean deliveries, attendant at birth, place of delivery, and obstetric procedures (53, 78); births to unmarried mothers (23); trends in pregnancies and pregnancy rates (7), and trends in smoking (32). This report presents summary tabulations from the final natality statistics for 1998. The National Center for Health Statistics will respond to requests for unpublished data whenever possible.

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Suggested citation

Ventura SJ, Martin JA, Curtin SC, Mathews TJ, Park MM. Births: Final data for 1998. National vital statistics reports; vol 48 no. 3. Hyattsville, Maryland: National Center for Health Statistics. 2000.

U.S. DEPARTMENT OF HEALTH & HUMAN SERVICES

Centers for Disease Control and Prevention National Center for Health Statistics 6525 Belcrest Road Hyattsville, Maryland 20782-2003

DHHS Publication No. (PHS) 2000–1120 0-0215 (3/2000)

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