# National Vital Statistics Reports JHC nchs <br> From the CENTERS FOR DISEASE CONTROL AND PREVENTION <br> National Center for Health Statistics <br> rus <br> National Vital Statistics System 

Volume 47, Number 18

## Births: Final Data for 1997

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## Errata

Tables 17 and 18 have been changed to correct the birth rates for non-Hispanic white women in 1997 and 1998. See highlighted text. 3/19/2001

Table 32 - revised as of $3 / 24 / 03$. See yellow highlights.


#### Abstract

Objectives—This report presents 1997 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 3.9 million births that occurred in 1997 are presented.

Results-Birth and fertility rates declined very slightly in 1997. Birth rates for teenagers fell 3 to 5 percent. Rates for women in their twenties changed very little, whereas rates for women in their thirties rose 2 percent. The number of births and the birth rate for unmarried women each declined slightly in 1997 while the percent of births that were to unmarried women was unchanged. Smoking by pregnant women overall dropped again in 1997, but continued to increase among teenagers. Improvements in prenatal care utilization continued. The cesarean delivery rate increased slightly after declining for 7 consecutive years. The proportion of multiple births continued to rise; higher order multiple births (e.g., triplets, quadruplets) rose by 14 percent in 1997, following a 20 percent rise from 1995 to 1996. Key measures of birth outcome-the percents of low birthweight and preterm birthsincreased, with particularly large increases in the preterm rate. These changes are in large part the result of increases in multiple births.


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

## Highlights

Births in the United States declined very slightly in 1997, to $3,880,894$, the lowest number since 1987. The birth rate also dropped in 1997, to 14.5 births per 1,000 total population, a record low for the Nation. The fertility rate, which relates births to the number of women of childbearing age, declined in 1997 to 65.0 births per 1,000 women aged 15-44 years, matching the record low reported in 1976.

Fertility rates for women in racial and Hispanic origin subgroups increased for Puerto Rican, American Indian, and Asian or Pacific Islander women, but declined for other groups by up to 3 percent. Rates differ considerably among groups, with Mexican women having the highest rate, 116.6 per 1,000 aged 15-44 years. Rates are successively lower for non-Hispanic black, Puerto Rican, American Indian, Asian or Pacific Islander, Cuban and non-Hispanic white women.

The birth rate for teenagers continued to decline in 1997, falling 4 percent to 52.3 births per 1,000 women aged 15-19 years. The rate for young teenagers 15-17 years declined 5 percent to 32.1 per 1,000, while the rate for older teenagers 18-19 years declined 3 percent to 83.6. During 1991-97, the rate for ages 15-19 years dropped 16 percent, while rates for teenagers 15-17 and 18-19 years fell 17 and

## Acknowledgments

This report was prepared under the general direction of Kenneth G. Keppel, 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. Thomas D. Dunn and Vanetta Harrington of SPSRB and Melissa Park 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, typeset by Jacqueline M. Davis, and graphics were produced by Jarmila Ogburn of the Publications Branch, Division of Data Services.

11 percent, respectively. From 1991 to 1997, the rates for non-Hispanic black and Puerto Rican teenagers dropped 24 to 27 percent. Teenage birth rates fell significantly in all but one State during 1991-97. The teenage pregnancy rate has continued to fall in the 1990's, as reflected in concurrent declines in birth and abortion rates.

Birth rates for women in their twenties, the peak childbearing ages, changed little in 1997. The rate for women 20-24 years declined slightly to 110.0 per 1,000, while the rate for women 25-29 years rose 1 percent to 113.8 per 1,000. Birth rates for women in their twenties have been relatively stable over the past two decades.

Birth rates for women in their thirties increased 2 percent in 1997, to 85.3 per 1,000 for women aged 30-34 years, and to 36.1 for women aged 35-39 years. These rates have risen almost without interruption since the mid-to-late 1970's. However, the pace of increase has slowed in the 1990's, especially for women aged 30-34 years. The birth rate for women aged 40-44 years also increased in 1997, to 7.1 per 1,000.

The first birth rate declined in 1997 to its lowest level ever, 26.5 first births per 1,000 women aged 15-44 years. Among teenagers, first birth rates declined 3 to 5 percent. Rates for second births to teenagers who have had one birth changed little in 1997, after dropping substantially from 1991 to 1996. First birth rates for women in their thirties rose again in 1997, continuing a long-term trend.

The birth rate for unmarried women in 1997 was 44.0 births per 1,000 unmarried women aged 15-44 years, 2 percent lower than in 1996 and 6 percent lower than its highest level, 46.9 in 1994. The number of births to unmarried women declined slightly to 1,257,444 in 1997, while the percent of all births occurring to unmarried women was unchanged at 32.4 percent. The birth rate for unmarried teenagers fell 2 percent in 1997 to 42.2 per 1,000, down 9 percent from its 1994 high, 46.4.

Cigarette smoking during pregnancy continued to decline in 1997, to 13.2 percent of women giving birth. Tobacco use during pregnancy has fallen steadily since 1989. However, smoking among pregnant teenagers increased again in 1997, with particularly large increases for black and Puerto Rican teenagers. In general, smoking rates are lowest for Hispanic and Asian or Pacific Islander women. Maternal smoking has a strong adverse impact on infant birthweight. In 1997, 12.1 percent of births to smokers compared with 7.1 percent of births to nonsmokers weighed less than 2,500 grams ( 5 lb 8 oz ).

First trimester prenatal care improved for the 8th consecutive year, rising from 81.9 in 1996 to 82.5 percent in 1997. Timely care has risen among all race/ethnic groups for the 1990's, but gains have been the most pronounced among groups with lower levels of care. Since 1989, first trimester care has risen by at least 20 percent among Mexican, Puerto Rican, Central and South American, and non-Hispanic black women, and by more than 15 percent among American Indian and Hawaiian mothers. Despite these improvements, rates of first trimester care are still low for American Indian, Mexican, and non-Hispanic black women.

Data on method of delivery show that the rate of cesarean delivery increased slightly between 1996 and 1997 (from 20.7 to 20.8 percent) after declining for 7 consecutive years. The rate in 1997 was 9 percent lower than in 1989 ( 22.8 percent). The primary cesarean rate was also 9 percent lower in 1996 and 1997 than in 1989 (14.6 first cesareans per 100 women who had no previous cesarean in 1996 and 1997 compared with 16.1 in 1989). The rate of vaginal birth following
a previous cesarean delivery (VBAC) increased 50 percent between 1989 (18.9) and 1996 (28.3) but fell 3 percent from 1996 to 1997 (27.4). The percent of births delivered by forceps continued to decline ( 2.8 percent in 1997) while the percent by vacuum extraction rose ( 6.2 percent in 1997).

The remarkable rise in multiple births continued in 1997; the number of twin births rose 3 percent (from 100,750 to 104,137), and the number of triplets climbed 16 percent (from 5,298 to 6,148). Births in quadruplet and quintuplet and other higher order births were down slightly, however. The twinning rate has increased 11 percent since 1990 (from 22.6 to 26.8 per 1,000), and by 42 percent since 1980 (from 18.9 per 1,000). The higher order multiple birth rate has more than doubled just since 1991 (from 81.4 to 173.6 per 100,000), and has quadrupled since 1980 (from 37.0 per 100,000).

The rate of preterm birth (less than 37 completed weeks of gestation) increased sharply from 11.0 percent in 1996 to 11.4 percent in 1997. The percent of births born preterm has risen 8 percent since 1990, and more than 20 percent since 1981 (from 9.4 percent). The recent upward trend in this rate has been partly driven by the rise in multiple births that are at much greater risk of shorter gestations than singletons. (The preterm rate for singletons was 10.0 percent compared with 54.9 percent for twins, and 93.6 percent for higher order multiples.) The preterm birth rate was up for most racial/ethnic groups, but the largest rise (4 percent) was observed among births to non-Hispanic white mothers (from 9.5 to 9.9 percent).

The proportion of infants born low birthweight (LBW) rose again for 1997 to 7.5 percent (from 7.4 percent for 1996), the highest level reported since 1973. This rate has risen slowly over the last decade. Low birthweight was up slightly among non-Hispanic white ( 6.4 to 6.5 percent) and Hispanic mothers ( 6.3 to 6.4 percent). The current year rise in LBW was only partly attributable to the increase in multiple births; low birthweight among singleton births rose from 6.03 percent in 1996 to 6.08 percent in 1997. The 1997 level of low birthweight was unchanged among non-Hispanic black mothers from the previous year at 13.1 percent.

## Introduction

This report presents detailed data on numbers and characteristics of births in 1997, 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 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 1997 presented data on selected topics based on a substantial sample (about 99 percent) of the 1997 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 preliminary 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 are also available in CD-ROM format since 1991 (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, and American Samoa; however, data for these areas are not included in totals for the United States. Data for American Samoa are available for the first time in 1997.

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, nonHispanic; black, total; black, non-Hispanic; and Hispanic. When data other than birth rates for Hispanic subgroups are shown, they 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 more 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, eight States report data on API subgroups included in the "other" API category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API); see Technical notes. A report on births in 1992 to women in these API subgroups has been published (4).
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 1997. (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 month 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 1997. 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 are of particular concern.

## Demographic characteristics

## Births and birth rates

## Number of births

The number of births in the United States declined very slightly in 1997, to $3,880,894$, compared with 3,891,494 in 1996. Between 1995 and 1997 the number of births fell less than half of 1 percent. The 1997 total is 7 percent fewer than the number in 1990, the most recent high point in U.S. births and is the lowest recorded in a decade (see tables 1-12 for national and State birth data by age, live-birth order, race, and Hispanic origin). According to provisional data for 1998, births have increased about 2 percent.

The number of births for most race and Hispanic origin groups increased in 1997 (tables 1 and 6). Increases of 1 to 2 percent were reported for non-Hispanic black, Puerto Rican, American Indian, Filipino, Mexican, and Cuban births. The small overall decline in U.S. births reflects almost entirely the 1-percent decline in the number of births to non-Hispanic white women. Births to Central and South American, Chinese, and Japanese women also declined-by less than 1 percent. Hawaiian births fell 4 percent.

## Crude birth rate

The crude birth rate in 1997 was 14.5 live births per 1,000 total population, a record low for the Nation. The 1997 rate was 1 percent lower than in 1996 and 13 percent lower than in 1990 (16.7). The previous low point for the U.S. birth rate was recorded in 1975 and 1976 (14.6). Provisional data for 1998 suggest a small increase in the birth rate.

## Fertility rate

The fertility rate, which relates births to the number of women in the childbearing ages, was 65.0 live births per 1,000 women aged 15-44 years in 1997, less than 1 percent below the 1996 rate (65.3). The fertility rate for 1997 was 8 percent below the rate in 1990 (70.9), and matched the previous low recorded in 1976 (table 1 and figure 1). The decline in the fertility rate in the 1990's reverses an 8-percent rise from 1986 to 1990. Provisional data for 1998 indicate an increase in the fertility rate.

Fertility rates for most race and Hispanic origin groups declined in 1997 (tables 1 and 6). Rates declined less than 1 percent


Figure 1. Live births and fertility rates: United States, 1930-97
each for non-Hispanic black (72.4 per 1,000) and non-Hispanic white women (57.0). The rates for Mexican women (116.6), Cuban women (57.4), and "other" Hispanic women (which includes all births to Central and South American and other and unknown Hispanic women) (87.6) fell by 2 to 3 percent each. The rates for Puerto Rican (71.7), American Indian (69.1), and API women (66.3) increased 1 percent each.

The modest reductions in fertility rates for non-Hispanic white and black women indicate a slowdown in the steady downward trend in these rates in the 1990's. During the years 1990-96, the fertility rate for non-Hispanic white women declined 9 percent, and the rate for non-Hispanic black women fell 19 percent. The increases in fertility rates for American Indian and API women in 1997 mark a halt, even if temporarily, in the general downward trend in these rates during the 1990's.

The fertility rate for Hispanic women in 1997 was the lowest reported since 1989 when data accounting for virtually all Hispanic births in the United States first became available. Trends in fertility for Hispanic women by subgroup for 1989-95 are presented in more detail in a recent report (5).

## Age of mother

Teenagers-The birth rate for the youngest teenagers was 1.1 births per 1,000 females 10-14 years in 1997, matching the rate reported in 1980-83 (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 9 percent from 1996 to 1997, to 10,121 , the lowest total reported since $1984(9,965)$. 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 (6).

The birth rate for teenagers 15-19 years fell 4 percent to 52.3 per 1,000. This rate was 16 percent lower than the rate in 1991 (62.1) (table A). The recent declines in the teenage birth rate partly reverse the 24-percent increase that occurred from 1986 to 1991. State-specific birth rates for teenagers are discussed in the section "Births and birth rates by State."

Birth rates for teenage subgroups 15-17 and 18-19 years also fell between 1996 and 1997. The rate for teenagers 15-17 years declined 5 percent to 32.1 per 1,000 . This rate fell by 17 percent from

Table A. Birth rates for teenagers by age, race, and Hispanic origin of mother: United States, 1991, 1996, and 1997
[Rates per 1,000 women in specified group]

| Year and age | Total ${ }^{1}$ | Non-Hispanic |  | Hispanic |
| :---: | :---: | :---: | :---: | :---: |
|  |  | White | Black |  |
| 10-14 years |  |  |  |  |
| 1997. | 1.1 | 0.4 | 3.4 | 2.3 |
| 1996. | 1.2 | 0.4 | 3.8 | 2.6 |
| $1991{ }^{2}$ | 1.4 | 0.5 | 4.9 | 2.4 |
| 15-19 years |  |  |  |  |
| 1997. | 52.3 | 36.0 | 90.8 | 97.4 |
| 1996. | 54.4 | 37.6 | 94.2 | 101.8 |
| $1991{ }^{2}$ | 62.1 | 43.4 | 118.9 | 106.7 |
| 15-17 years |  |  |  |  |
| 1997. | 32.1 | 19.4 | 62.6 | 66.3 |
| 1996. | 33.8 | 20.6 | 66.6 | 69.0 |
| $1991{ }^{2}$ | 38.7 | 23.6 | 86.7 | 70.6 |
| 18-19 years |  |  |  |  |
| 1997. | 83.6 | 61.9 | 134.0 | 144.3 |
| 1996. | 86.0 | 63.7 | 136.6 | 151.1 |
| $1991{ }^{2}$ | 94.4 | 70.5 | 163.1 | 158.5 |

${ }^{1}$ Includes races other than white and black and origin not stated.
${ }^{2}$ See reference 5 for information on reporting areas in 1991.

1991 (38.7) to 1997 (table 4 and figure 2). The number of births to teenagers 15-17 years fell 3 percent from 1996 to 1997 to 180,154.

The birth rate for older teenagers 18-19 years declined 3 percent to 83.6 per 1,000. This rate fell 12 percent from 94.5 in 1992 (its recent high) to 1997. The number of births to older teenagers dropped just 1 percent in 1997 to 303,066 .

Teenage birth rates by race and Hispanic origin vary substantially (tables 3, 4, 8, and 9). Rates in 1997 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 1996 and 1997, teenage birth rates declined for all race and Hispanic origin groups except Cuban and "other" Hispanic teenagers. Rates dropped 7 to 9 percent for Mexican and Puerto Rican teenagers, and 3 to 4 percent for American Indian, API, non-Hispanic white, and non-Hispanic black teenagers.

From 1991, when rates for teenagers generally were at a peak, to 1997, birth rates fell 24 to 27 percent for non-Hispanic black and Puerto Rican teenagers. Rates dropped 14 to 17 percent for nonHispanic white, American Indian, and API teenagers. The rate for Mexican teenagers has declined 4 percent since 1991.

The factors accounting for the current downturn in teenage birth rates are discussed in a recent report (6). Briefly, the proportion of teenagers who are sexually experienced has stabilized in the mid1990's, reversing the steady increases over the past two decades. Moreover, teenagers are more likely to use contraceptives at first intercourse, especially condoms $(7,8)$.

Teenage pregnancy rates (based on the sum of live births, induced abortions, and fetal losses) have also declined in recent years ( $6,9,10$, 11). The pregnancy rate for teenagers 15-19 years fell 12 percent from 117 per 1,000 in 1991 to 103 in 1995, reversing an 11-percent rise from 1986 to $1991(6,10)$. Further declines in the teenage pregnancy rate


Figure 2. Birth rates by age of mother: United States, 1960-97
since 1995 are indicated by the steady decline in the teenage birth rate and declines in abortions among teenagers, according to preliminary data (12).

Women aged 20 years and over: Women in their twenties-The birth rate for women aged 20-24 years declined slightly in 1997, resuming the steady decline reported for 1990-95 (tables 3, 4, 8, and 9). The rate for women aged 20-24 years was 110.0 per 1,000 in 1997. The birth rate for women aged 25-29 years rose 1 percent in 1997 to 113.8 per 1,000; this rate increased for 2 consecutive years, following steady declines during 1990-95. The rates for women in their twenties, the principal childbearing ages, have been relatively stable over the past two decades.

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, 204.9 per 1,000, was nearly three times the rate for API women in this age group (70.5).

Women in their thirties-Birth rates for women in their thirties rose 2 percent in 1997. Rates for women in these age groups have generally increased steadily since the late 1970's, a pattern unlike any other age group (table 4). The rate for women aged 30-34 years increased in 1997 to 85.3 per 1,000. This rate increased by 63 percent since 1975. Most of this increase occurred by 1990. The number of births to women aged 30-34 years dropped 1 percent in 1997, reflecting the 3 -percent reduction in the number of women (13).

The birth rate for women in their late thirties increased 2 percent to 36.1 per 1,000 women aged $35-39$ years. This rate has increased without interruption since 1978 (19.0) by 90 percent. Although the pace of increase slowed in the 1990's, the 1997 rate was still

14 percent higher than the rate in 1990 (31.7). Because the birth rate and the number of women each increased, the number of births to women aged 35-39 years rose again in 1997, to a record high, 409,710 (13). 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 6.8 per 1,000 to 7.1 in 1997. This rate rose 29 percent from 1990 (5.5) to 1997. From 1981 to 1997, the rate increased by 87 percent; the 1997 rate matches the previous high recorded in 1971. The number of births in this age group rose 6 percent to 76,084 , the highest number reported since 1965.

The birth rate for women aged 45-49 years increased from 0.3 births per 1,000 in 1996 to 0.4 in 1997. The number of births to women in this age group rose 9 percent to 3,333 , the highest number recorded since $1969(3,398)$.

Births to women aged 50 years and over-In this report, statistics are shown for births to women aged 50-54 years in 1997, the first time this information is available since 1963. For the years 1964-96, 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 1997, 144 births were reported to women aged 50-54 years (tables 2 and 7). This number is too small for computing an 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.

Although sustained increases in birth rates have been most longlasting for women aged 30 years and over (14), the pace of increase has slowed since 1990 as noted above (table 4). Among the factors contributing to the slowdown include declining birth expectations among childless women and relatively high proportions of currently childless women aged 35-44 years reporting impaired fecundity according to the 1995 National Survey of Family Growth (7, 15, 16).

## Live-birth order

The first birth rate dropped 1 percent in 1997 to 26.5 first births per 1,000 women aged 15-44 years (table 5). This was the lowest level ever recorded. The first birth rate dropped 9 percent compared with 1990 (29.0), its recent high point. The rate for third births rose slightly. Birth rates for other birth orders were unchanged.

While the first birth rate declined 1 percent overall, there were substantial differences in the trends by age of mother (table 3; tabular data not shown for 1996 and earlier years). Rates declined for teenage subgroups 15-17 and 18-19 years and for women aged 20-24 years by 3 to 5 percent; the rate was unchanged for women aged 25-29 years. In contrast, first birth rates rose 3 percent for women in their thirties. Reflecting these variations by age, the proportion of all first births occurring to women aged 30 years and over increased slightly in 1997 to 23 percent compared with just 5 percent in 1975 (14). First birth rates for API women aged 30-34 and 35-39 years were substantially higher in 1997 than for any other group.

The birth rate for second births to teenagers who have had a first birth was essentially unchanged in 1997 compared with 1996, after falling 21 percent from 1991 to 1996 (6). All of the decline in teenage birth rates in 1997 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 1997 was $2,032.5$, less than 1 percent higher than in 1996 (tables 4 and 9). The TFR has increased from 1995-by 1 percent overall-following a 3-percent decline from 1990 to 1995. The increase in the TFR resulted from the rise in age-specific birth rates for all women in age groups 25-49 years, which more than compensated for the declines in the teenage birth rates.

The U.S. total fertility rate 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 1997, as in recent years, the TFR was above "replacement" for Mexican, nonHispanic 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). Changes between 1996 and 1997 in most TFR's were 2 percent or less. State-specific TFR's for 1997 are discussed in the next section.

## Births and birth rates by State

Birth data by race and by Hispanic origin for 1997 are shown in tables 10-12 for the 50 States and the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and American Samoa. The American Indian, Asian or Pacific Islander (API) and Hispanic populations (and Hispanic subgroups) are highly concentrated geographically.

The number of births increased in 28 States and Puerto Rico, the Virgin Islands, and Guam and declined in 22 States and the District of Columbia. Increases and declines of up to 2 percent were found in 41 of the States, Puerto Rico, and Guam. The number increased 4 percent in Georgia and Oklahoma and 6 percent in the Virgin Islands and declined 6 percent in Hawaii and the District of Columbia.

Crude birth rates by State ranged from 11 births per 1,000 population (Maine, Vermont, and West Virginia) to 21 per 1,000 (Utah) (table 10). Birth rates per 1,000 total population declined in 32 States and the District of Columbia, increased in 9 States, Puerto Rico, the Virgin Islands, and Guam, and were unchanged in 9 States; changes were no more than 2 percent in most States. Changes were not significant in 29 of the States and the District of Columbia or in Puerto Rico, the Virgin Islands, and Guam. Statistically significant declines of 4 to 5 percent were recorded for California, Hawaii, and South Dakota, whereas Oklahoma recorded a significant increase of 4 percent.

Fertility rates per 1,000 women aged 15-44 years ranged from a low of 50 (Maine and Vermont) to a high of 89 (Utah) (table 10). Rates declined in 21 States and the District of Columbia, increased in 25 States, Puerto Rico, the Virgin Islands, and Guam, and were unchanged in 4 States. Changes in most States were no more than 2 percent and were not statistically significant in 33 States and the District of Columbia, Puerto Rico, the Virgin Islands, and Guam. Significant declines of 5 percent each were reported for Hawaii and South Dakota, while a 4-percent increase was found for Oklahoma.

State-specific total fertility rates for 1997 are shown in table 10. These rates provide a summary measure of lifetime fertility at the State level; rates for 1980, 1990, and 1996 have been published (17-19). Rates by State for 1997 vary substantially, from a low of 1,573.5 (or 1.57 births per woman) for Vermont to a high of 2,632.0 (2.63 births per woman) for Utah. Differences in the TFR's and changes between 1996 and 1997 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 1997 in table 10. Rates per 1,000 women aged 15-19 years ranged by State from 26.9 (Vermont) to 73.7 (Mississippi). The highest rate was reported for Guam, 106.3. Birth rates for teenagers have been declining in the United States since 1991. Between 1991 and 1997, teenage birth rates fell in all States and the District of Columbia and the Virgin Islands; declines were statistically significant in all States except for Rhode Island (table B). Declines exceeded 20.0 percent in 10 States and the District of Columbia. More detailed information on current trends and variations in State-specific teenage birth rates by age, race, and Hispanic origin is presented in a recent report (6).

## Sex ratio

There were 1,985,596 male live births in 1997 compared with 1,895,298 female live births. These numbers yielded a sex ratio of

Table B. Birth rates for teenagers 15-19 years by State, 1991 and 1997, and percent change, 1991-97: United States and each State, Puerto Rico, Virgin Islands, Guam, and American Samoa
[Birth rates per 1,000 estimated female population aged 15-19 years in each area]

| State | 1991 | 1997 | Percent change, 1991-97 | State | 1991 | 1997 | Percent change, <br> 1991-97 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| United States ${ }^{1}$. | 62.1 | 52.3 | -15.8 | Nebraska | 42.4 | 37.2 | -12.3 |
|  |  |  |  | Nevada | 75.3 | 67.7 | -10.1 |
| Alabama | 73.9 | 66.6 | -9.9 | New Hampshire | 33.3 | 28.6 | -14.1 |
| Alaska. | 65.4 | 44.6 | -31.8 | New Jersey | 41.6 | 35.0 | -15.9 |
| Arizona | 80.7 | 69.7 | -13.6 | New Mexico | 79.8 | 68.4 | -14.3 |
| Arkansas | 79.8 | 72.9 | -8.6 | New York. | 46.0 | 38.8 | -15.7 |
| California | 74.7 | 57.3 | -23.3 | North Carolina . | 70.5 | 61.3 | -13.0 |
| Colorado | 58.2 | 48.2 | -17.2 | North Dakota. | 35.6 | 30.1 | -15.4 |
| Connecticut. | 40.4 | 36.1 | -10.6 | Ohio. | 60.5 | 49.8 | -17.7 |
| Delaware | 61.1 | 55.8 | -8.7 | Oklahoma. | 72.1 | 64.3 | -10.8 |
| District of Columbia . | 114.4 | 91.0 | -20.5 | Oregon | 54.9 | 46.9 | -14.6 |
| Florida | 68.8 | 57.7 | -16.1 | Pennsylvania. | 46.9 | 37.3 | -20.5 |
| Georgia . | 76.3 | 67.2 | -11.9 | Rhode Island. | 45.4 | 42.7 | -5.9** |
| Hawaii. | 58.7 | 43.8 | -25.4 | South Carolina. | 72.9 | 61.4 | -15.8 |
| Idaho | 53.9 | 43.3 | -19.7 | South Dakota | 47.5 | 39.7 | -16.4 |
| Illinois . | 64.8 | 54.7 | -15.6 | Tennessee | 75.2 | 64.5 | -14.2 |
| Indiana | 60.5 | 54.2 | -10.4 | Texas | 78.9 | 71.7 | -9.1 |
| lowa. | 42.6 | 35.7 | -16.2 | Utah. | 48.2 | 42.6 | -11.6 |
| Kansas | 55.4 | 48.5 | -12.5 | Vermont. | 39.2 | 26.9 | -31.4 |
| Kentucky | 68.9 | 59.6 | -13.5 | Virginia | 53.5 | 44.2 | -17.4 |
| Louisiana | 76.1 | 66.3 | -12.9 | Washington. | 53.7 | 42.5 | -20.9 |
| Maine . | 43.5 | 32.0 | -26.4 | West Virginia. | 57.8 | 49.1 | -15.1 |
| Maryland | 54.3 | 43.9 | -19.2 | Wisconsin. | 43.7 | 35.9 | -17.8 |
| Massachusetts . | 37.8 | 31.7 | -16.1 | Wyoming | 54.2 | 43.3 | -20.1 |
| Michigan | 59.0 | 43.9 | -25.6 |  |  |  |  |
| Minnesota | 37.3 | 32.0 | -14.2 | Puerto Rico | 72.4 | 77.8 | 7.5 |
| Mississippi | 85.6 | 73.7 | -13.9 | Virgin Islands | 77.9 | 66.0 | -15.3 |
| Missouri. | 64.5 | 51.5 | -20.2 | Guam . | 95.7 | 106.3 | 11.1** |
| Montana | 46.7 | 37.6 | -19.5 | American Samoa | --- | 43.9 | --- |

[^0]1,048 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 1,047 in 1996. Similar to previous years, Asian or Pacific Islander mothers had the highest sex ratio $(1,072)$, followed by non-Hispanic white mothers $(1,052)$, Hispanic mothers $(1,040)$, American Indian mothers $(1,036)$, and non-Hispanic black mothers $(1,031)$.

## Month of birth

Monthly birth rates in 8 months of 1997 were below the rates for the same months observed in 1996. The peak months of occurrence of births in 1997 were July, August, and September (table 15). When the seasonal component is removed from the monthly birth rates, the underlying trends can be observed. All months except for April, June, and December had the lowest seasonally adjusted birth rates in at least 20 years. The rate for August 1997 was the lowest observed in the more than 60 years for which monthly seasonal adjustments are available (3, 20).

## Day of the week of birth

Variation in the daily pattern of births can be measured by an index of occurrence. In 1997 the Sunday index was 73.2, an indication that there were nearly 27 percent fewer births on Sundays than the daily average, considered to be 100.0. The Saturday index
was 81.5. As in past years, births occurred most frequently on Tuesdays with an index of 113.8 in 1997 (table 16).

A weekend deficit is apparent for vaginal and cesarean deliveries, but is far larger for cesarean deliveries, particularly repeat cesareans. In 1997 the Sunday index for vaginal births was 78.2, compared with 63.9 for primary cesareans and 37.7 for repeat cesareans.

## Births to unmarried women

The birth rate for unmarried women in 1997 was 44.0 births per 1,000 unmarried women aged 15-44 years, 2 percent lower than in 1996 (44.8), and 6 percent below its highest level, 46.9 in 1994. The number of births to unmarried women declined slightly, to $1,257,444$ in 1997. The percent of all births occurring to unmarried women was unchanged at 32.4 percent in 1997. (See table C and tables 17 and 18.)

The procedures for reporting the mother's marital status changed in California, Nevada, and New York City beginning January 1, 1997. California and Nevada now report the mother's marital status from a direct question. The question is on the California birth certificate. Nevada obtains this information from the electronic birth registration process; the question does not appear on certified or paper copies of the Nevada certificate. New York City infers marital status and changed its procedures beginning in 1997. The reporting changes in California and New York City, which account for 17 percent of U.S. births, are

Table C. Number, rate, and percent of births to unmarried women, and birth rate for married women: United States, 1980 and 1985-97

| Year | Births to unmarried women |  |  | Birth rate for married women ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Rate ${ }^{1}$ | Percent ${ }^{2}$ |  |
| 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 |

${ }^{1}$ Births to unmarried women per 1,000 unmarried women aged 15-44 years.
${ }^{2}$ Percent of all births to unmarried women.
${ }^{3}$ Births to married women per 1,000 married women aged 15-44 years.
discussed in some detail in this section (and the Technical notes) because of their potential impact on national statistics on births to unmarried women. Prior to 1997, the mother's marital status was inferred in California by comparing the surnames of the mother, father, and child. Beginning in 1997, two changes were implemented. First, a law went into effect mandating that the father's name could not be included on the birth certificate unless the parents were married or a paternity affidavit was filed. Second, a direct question on the mother's marital status, similar to the one in effect in most other States, was added to the California birth certificate (see Technical notes). Reporting procedures for marital status in California, as well as the procedures in Nevada, are now essentially the same as those in most other States.

The mother's marital status is inferred in New York City, but the procedures for inferring this information changed beginning in 1997. Beginning in 1997, the mother is assumed to be unmarried if the father's name is missing from the birth certificate, or if a paternity affidavit was filed; these are the same procedures that have been in effect in the balance of New York for many years. Prior to 1997, the inferential criteria in New York City had also included a comparison of the surnames of the mother and father.

A comparison of the changes in nonmarital births for the entire United States and for California and New York City separately shows that these changes had little impact on the national totals and relatively little impact on the total numbers for California. As a direct result of the reporting changes in California, the national numbers and proportions of nonmarital births tended to increase for women aged 15-24 years and to decline for women aged 25 years and over. When the inferential procedures were in effect prior to 1997, births to older women who had retained their birth surname after marriage were often erroneously inferred as nonmarital because the parents' current surnames did not match. For California, the changes in nonmarital birth patterns by age were compensating, so that the overall levels of nonmarital births are only modestly higher in 1997 compared with 1996. There is a similar effect for Nevada, although the percent unmarried based on the direct question is somewhat lower than the percent based on the inferential
procedures; see Technical notes. The reporting changes in New York City affected the overall data and the data by age, with large decreases found for all age groups. If these reporting changes had not occurred, statistics for nonmarital births would have been unchanged in New York City (21, 22). It is important to note that as a result of the changes implemented by California, Nevada, and New York City, their birth data by marital status are more accurate in 1997 than in prior years. The factors affecting the birth data by marital status are discussed in more detail in the Technical notes.

Birth rates for unmarried women vary considerably by race and Hispanic origin. In 1997 the rates per 1,000 unmarried women were 27.6 per 1,000 for non-Hispanic white women, 73.4 for black women, and 91.4 for Hispanic women. The birth rate for unmarried black women has declined 19 percent since 1989 (90.7). The birth rate for unmarried Hispanic women in 1997, 91.4 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 3 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.

Changes in age-specific birth rates for unmarried women have been affected by the changes in reporting procedures for California and New York City described above. However, in most cases, the one-year changes for 1996-97 reinforce and enhance changes already underway since 1994. Therefore this summary of trends will focus on the longerterm changes since 1994. The birth rates for unmarried teenagers 15-17 and 18-19 years declined 12 and 7 percent, respectively, from 1994. The rate for young black teenagers has dropped steeply, by 19 percent since 1994. Birth rates for women in age groups 20-24 through 40-44 years have fluctuated since 1994; rates in 1997 were 2 to 5 percent lower than in 1994. These patterns were generally found for all population groups.

The proportion of all births occurring to unmarried women was unchanged at 32.4 percent in 1997. The proportions for subgroups in 1997 were 21.5 percent, non-Hispanic white; 69.4 percent, nonHispanic black; and 40.9 percent, Hispanic; each changed very little in recent years (see tables 13, 14, 17, and 19 for 1997 data).

Changes in the proportion of births to unmarried women are affected by trends in birth rates for married as well as unmarried women, and the number of unmarried women (table C). The proportion of births to unmarried women has changed very little since 1994 even though the number and rate of births for unmarried women have generally declined, because total births- mostly births to married women-have also declined. Trends in the factors affecting the proportion of births to unmarried women should be kept in mind when examining trends in the proportion (23).

The numbers and proportions of births to unmarried women by State and by race and Hispanic origin for 1997 are shown in table 19 for the 50 States and the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and American Samoa. The numbers increased in 32 States, Puerto Rico, the Virgin Islands, and Guam and declined in 18


Figure 3. Birth rates for unmarried women, by age of mother: United States, 1980-97

States and the District of Columbia. Similarly, increases in the proportions exceeded declines: the proportion increased in 32 States, Puerto Rico, the Virgin Islands, and Guam, declined in 15 States and the District of Columbia, and was unchanged in three States.

## Age of father

The birth rate per 1,000 men aged 15-54 years declined for the seventh straight year in 1997 to 50.4 (table 20). This rate fell by 14 percent between 1990 and 1997, following a 7-percent increase during 1986-90. Information on age of father is often missing on birth certificates of children born to unmarried women. Age of father was not reported for 15 percent of births in 1997. 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 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 1997 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 advancing age, to 90 percent for women who gave birth in their thirties, 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 mothers 35 years of age and over ( 42 percent). The median educational attainment for all mothers in 1997 was 12.8 years.

There is considerable variation in educational attainment among race and Hispanic origin groups. Among women giving birth in 1997, 87 percent of non-Hispanic white mothers had completed high school, compared with 73 percent of non-Hispanic black mothers, and 50 percent of Hispanic mothers. 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 44 percent of Mexican mothers to 86 percent of Cuban mothers (table 14). 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. Only two-thirds of American Indian mothers had 12 or more years of schooling, whereas nearly all Japanese (98 percent) and Filipino mothers ( 93 percent) had attained this educational level, the highest of any group (table 13).

## 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 28-40 pounds, those who are of normal weight (average BMI) gain 25-35 pounds, those who are overweight (high BMI), 15-25 pounds, and obese women, 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 1997 all States except California reported information on weight gain. Births to mothers residing in these States accounted for 86 percent of all births in the United States. In 1997 the majority of women (64 percent) gained 26 pounds or more during pregnancy (table 22). The median weight gain was 30.5 pounds in 1997 and changed very little during the 1989-97 period. 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 1997 than in 1989-weight gains of less than 16 pounds increased from 9.4 percent in 1989 to 11.1 percent in 1997 while weight gains of 46 pounds or more increased from 9.1 percent in 1989 to 11.4 percent in 1997.

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 about 3 pounds less during pregnancy ( 27.4 pounds) than mothers who had babies with gestations of 40 weeks and over ( 30.8 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 (29.6 pounds) or Hispanic women (29.8 pounds).

The percent of non-Hispanic black, American Indian, and Mexican mothers who had weight gains of less than 16 pounds (16.7, 15.3, and
14.8 percent, respectively) was much higher than for Chinese ( 6.4 percent), Cuban ( 7.3 percent), Filipino ( 8.4 percent), or non-Hispanic white mothers ( 9.4 percent) (tables 24 and 25). These differences in weight gain are reflected in differences among groups in the percent of births born preterm. Data on weight gain for Hawaiians (table 24) are unreliable because of incomplete reporting in Hawaii.

Within Hispanic subgroups, the percent of Mexican mothers who gained less than 16 pounds (14.8 percent) was twice as high as for Cuban mothers ( 7.3 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 14.5 to 4.8 percent, and then increases slightly for mothers who gained 46 pounds or more ( 5.3 percent). This pattern is generally replicated when the data are examined according to the period of gestation.

## Medical risk factors

Maternal medical risk factors can severely complicate pregnancy and result in poor birth outcomes, particularly when not adequately treated (28-30). Sixteen medical risk factors affecting pregnancy are separately identified on the birth certificate. Although data for this item were missing from only 1.2 percent of records for 1997, birth certificate data may underreport medical risk factor prevalence (31). Also, rates for less common medical risk factors and for smaller population groups can vary widely from year to year and should be used with caution.

The rate of pregnancy-associated hypertension, the most frequently reported medical risk factor, rose for the sixth consecutive year, from 35.9 to 36.8 per 1,000 for 1996-97. (See table 26 for 1997 data.) The rate for this risk factor 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 1997, at 6.9 and 3.3 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 26.4 per 1,000 for the current year compared with 26.3 for 1996, and the anemia rate was 20.2, compared with 19.6 per 1,000.

The prevalence of acute or chronic lung disease (e.g., asthma, tuberculosis) was 9.7 per 1,000 for 1997, higher than the 1996 level of 8.3. Although still quite rare, the level of lung disease has more than tripled since 1990 (3.0) with large increases found among all age and racial/ethnic groups. The reported rate of hydramnios/oligohydramnios (the excess or shortage of amniotic fluid) has also been on the rise since data on this risk factor first became available and has more than doubled during the 1990's (from 5.9 to 13.0 between 1990 and 1997).

Medical risk factor rates often differ widely by maternal age. Anemia, for example, is more common among younger mothers (28.6 for mothers under 20 years of age compared with 17.3 for mothers 40 years of age and over), but younger mothers are much less likely to have chronic conditions such as diabetes (8.2 compared with 64.9). 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.

Medical risk factors during pregnancy can also vary greatly by race/ethnicity. For example, for 1997, pregnancy-associated hypertension complicated nearly 5 percent of American Indian pregnancies, but less than 2 percent of Japanese (tables 27 and 28).

## Tobacco use during pregnancy

Smoking during pregnancy continued to decline according to birth certificate data. In 1997, 13.2 percent of women giving birth were reported to have smoked, down 3 percent compared with 1996 ( 13.6 percent) and 32 percent since 1989 ( 19.5 percent), when this information first became available on the birth certificate (32). Tobacco use was reported in a comparable manner on the birth certificate in 1997 by 46 States, the District of Columbia, and New York City, comprising 80 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 1997 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 (33-36). 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 variations in smoking among population subgroups found in birth certificate data have been corroborated in other studies (7, 37-39).

Tobacco use during pregnancy is associated with a variety of adverse outcomes, including low birthweight, intrauterine growth retardation, and infant mortality, as well as negative consequences for child health and development (40-42).

Maternal smoking declined or was unchanged in most racial and Hispanic origin groups; smoking rates increased for Chinese and Hawaiian women. As in previous years, rates were highest for nonHispanic 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 $(38,39)$. 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 2 percent overall, the third consecutive year of increase (figure 4) (35). The smoking rate among non-Hispanic black teenagers 15-19 years rose 12 percent from 1996 to 1997 ( 6.6 percent) and has increased by one-third since 1994 ( 5.0 percent) (see table 30 for 1997 data). The rate for non-Hispanic white teenagers increased 2 percent ( 29.2 percent); their rates are 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, 29.6 percent (table 30). Smoking rates rose as well in 1997 for Puerto Rican teenagers. 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 (35).

Among smokers, the proportion smoking at least half a pack of cigarettes daily has declined steadily in recent years-to 32 percent in 1997 (compared with 42 percent in 1989) (32). Non-Hispanic white


Figure 4. Percent of mothers who smoked during pregnancy by age: Total reporting areas, 1990-97
mothers and older mothers are more likely than other mothers to smoke half a pack or more (tables 29 and 31).

Rates of smoking by maternal educational attainment are persistently highest for women with $9-11$ years of education, 26 percent in 1997, 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- 30 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 (40, 44, 45). In 1997, 12.1 percent of infants born to smokers weighed less than 2,500 grams ( 5 lb 8 oz ) compared with 7.1 percent of births to nonsmokers (table 32). This substantial differential is found for every race and Hispanic origin group. The LBW risk is heightened as the number of cigarettes increases, although LBW is elevated even among babies born to the lightest smokers (one to five cigarettes daily), 10.9 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 compromise birth outcome, independent of other risk factors such as tobacco use and other maternal risk factors (46, 47). All States except California and South Dakota included items on alcohol use on their birth certificates in 1997. This reporting area accounted for 86 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 1997 to just 1.2 percent of mothers reporting any alcohol use compared with 1.4 percent in 1996 and 4.1 percent in 1989, the first year this information was reported on the birth cerifificates (see
tables 24 and 25 for 1997 data) ( 19,32 ). A recent study based on an analysis of responses by nearly 6,000 pregnant women in the Center for Disease Control and Prevention'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 alcohol use declined from 1988 (23 percent) to 1992 ( 10 percent) before rising to 15 percent in 1995 (48).

The nature of the birth certificate questions on alcohol use apparently contribute to the underreporting because they focus on the number of drinks per week, whereas other studies inquire about drinks per month. Women who drink one to two drinks per month may believe that their alcohol consumption is too little to report in response to the birth certificate questions. The stigma associated with alcohol use also contributes to the underreporting $(25,48)$.

## Medical services utilization

## Prenatal care

The percent of women beginning prenatal care in the first trimester of pregnancy rose to 82.5 for 1997, from 81.9 in 1996. Essentially stagnant during the 1980's, first trimester care has risen from 75.5 percent since 1989 (table D). The proportion of mothers with delayed (care beginning in the third trimester) or no care, was 3.9 percent for the current year, compared with 4.0 percent for 1996. The proportion of women with late or no care worsened during the 1980's, but has improved from the high of 6.4 percent reported for 1989 (49). (See tables 33-35 for 1997 data.)

The effects of prenatal care are difficult to measure $(50,51)$, but early competent care can promote healthier pregnancies by detecting and managing preexisting medical conditions, providing health behavior advice, and assessing the risk of poor pregnancy outcome (52). Prenatal care can also be vital to maternal health and can serve as a gateway into the health care system, especially for socially disadvantaged women (51).

According to the Adequacy of Prenatal Care Utilization Index (APNCU), an alternative measure of prenatal care utilization (53), the

Table D. First trimester prenatal care by race and Hispanic origin of mother: United States, 1970, 1975, 1980, 1985, 1990-97

| Year | $\underset{\text { races }}{ }{ }^{\text {All }}$ | Non-Hispanic |  | Hispanic ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | White | Black |  |
| 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 | - - - | - - - | - - - |
| 1975. | 72.4 | - - - | --- | --- |
| 1970. | 68.0 | - | -- | --- |

[^1]rise in prenatal care use for 1996-97 occurred among mothers with intensive use of care (women for whom the number of visits exceeded the American College of Obstetricians and Gynecologists recommendations by a ratio of observed-to-expected visits of at least 110 percent). (See table E.) Based on the APNCU, intensive use of prenatal care has risen 67 percent from 18.4 to 30.7 percent since 1981 (the first year comparable data on period of gestation used to compute this index became available), adequate care (not including intensive use of care) has declined 4 percent (from 45.1 to 43.5 percent), and less than adequate care has declined 29 percent (from 36.5 to 25.9 percent) (54).

Gains in the proportion of mothers with care beginning in the first trimester of pregnancy were observed for the current year among most race and ethnic groups (levels for Japanese and Hawaiian mothers did not rise for 1997). Improvement continues to be most pronounced among those with less favorable levels of care, somewhat reducing the considerable disparity among groups (figure 5). Since 1989 first trimester care has risen by more than 20 percent among Mexican (from 56.7 to 72.1 percent), Central and South American (from 60.8 to 76.9 percent), Puerto Rican (from 62.7 to 76.5 percent), and nonHispanic black mothers (from 59.9 to 72.3 percent); and by less than 10 percent among Cuban ( 83.2 to 90.4 percent), Japanese ( 86.2 to 89.3 percent), and non-Hispanic white mothers ( 82.7 to 87.9 percent). (See tables 24 and 25 for 1997 data.)

Most States reported higher levels of first trimester care for 1997 compared with 1996. Four New England States reported the highest proportions of mothers with first trimester care (89-90 percent), and the lowest proportions of mothers with late or no care (less than 2 percent) for 1997: Connecticut, Maine, New Hampshire, and Rhode Island (table 34).

## Obstetric procedures

Six specific obstetric procedures are reported on the birth certificate. It has been shown that these procedures may be underreported on the birth certificate $(31,55)$. The most prevalent obstetric procedure in 1997 was electronic fetal monitoring, reported for over 3.2 million births, or 83 percent of all live births (table 36 ).

According to data from the birth certificate, 64 percent of mothers who had live births in 1997 received ultrasound. The overall rates of stimulation of labor and induction of labor in 1997 were 174 and 184, respectively, per 1,000 live births. The rates of both of these procedures have been rising annually since 1989 (56).

Table E. Adequacy of Prenatal Care Utilization Index: United States, 1981, 1985, 1990, and 1995-97

| Year | Intensive <br> Use | Adequate | Intermediate | Inadequate | No care |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1997. . . . . . . | 30.7 | 43.5 | 16.3 | 8.4 | 1.2 |
| 1996. . . . . . | 29.3 | 43.8 | 17.1 | 8.7 | 1.1 |
| 1995 $^{1} \ldots \ldots .28 .8$ | 28.8 | 17.2 | 8.9 | 1.2 |  |
| $1990^{1} \ldots \ldots \ldots$ | 24.6 | 42.6 | 19.1 | 11.8 | 1.9 |
| $1985^{1} \ldots \ldots \ldots$ | 21.1 | 44.8 | 21.0 | 11.6 | 1.5 |
| $1981^{1} \ldots \ldots \ldots$. | 18.4 | 45.1 | 23.2 | 12.0 | 1.3 |

[^2]NOTE: See reference 53 for information on calculation of this measure.


Figure 5. Percent of mothers with first trimester prenatal care by race and Hispanic origin of mother: United States, 1989-97

## 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 1997: Meconium, moderate/heavy (56 per 1,000), fetal distress (40 per 1,000), and breech/malpresentation (38 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 (55).

## Attendant at birth and place of delivery

More than 9 out of 10 births in 1997 ( 92.3 percent) were attended by a physician in a hospital, making this arrangement by far the most typical (table 38). However, the percent of births attended by a physician in a hospital was slightly lower in 1997 than in 1996 ( 92.9 percent) and has declined from 98.4 percent in 1975. For physician-attended births, 4 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. The percent of births attended by midwives increased sharply between 1975 ( 1.0 percent) and 1997 ( 7.0 percent). About 95 percent of midwife-attended births in 1997 were by certified nurse midwives (CNM's).

About 99 percent of births in 1997 were delivered in hospitals, almost unchanged from the 1975 level. The majority of out-of-hospital births were in a residence ( 64 percent) while 28 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 black women ( 7 percent) or non-Hispanic white women ( 6 percent).

## Method of delivery

The rate of cesarean delivery increased slightly between 1996 and 1997 (from 20.7 per 100 live births to 20.8) after falling each year during 1989-96 (table F and table 39). The 1997 rate was 9 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 (first cesareans per 100 live births to women who had no previous cesarean) was unchanged between 1996 and 1997, at 14.6, after falling each year during 1989-96. The primary rate in 1997 was 9 percent lower than in 1989 (16.1). Concomitant with the decline in cesarean rates during the 1989-96 period was a 50-percent increase in the rate of vaginal birth after previous cesarean delivery (VBAC)-from 18.9 in 1989 to 28.3 in 1996. However, in 1997 the rate dropped to 27.4, a 3-percent decline from 1996.

Overall cesarean rates increased steadily by age of the mother and were more than twice as high for mothers 40-54 years of age (32.4) as for teenagers (14.3) (table 40). Primary cesarean rates increased with additional age after ages 20-24 years, to 22.6 for women 40-54 years of age. VBAC rates declined with increasing age-a third of teenagers who had a previous cesarean had a VBAC delivery ( 33.4 percent) compared with 20.5 percent of mothers 40-54 years of age.

Total and primary cesarean rates declined or held steady in 1997 compared with 1996 for all age groups under 30 years but increased between the 2 years for mothers in age groups of 30 years of age and over. All age groups experienced declines in VBAC rates between 1996 and 1997. Non-Hispanic black women had a higher cesarean rate in 1997 (21.8 per 100 live births) than either non-Hispanic white women (20.9) or Hispanic women (20.2). Similarly, the primary cesarean rate for non-Hispanic black women (15.6) was higher than the rate for non-Hispanic white women (14.8) and Hispanic women (13.4). The VBAC rate in 1997 was highest for non-Hispanic white women (28.5), lowest for Hispanic women (23.5), and intermediate for non-Hispanic black women (26.4).

Japanese, American Indian, Hawaiian, and Chinese mothers had lower cesarean rates (ranging from 15.1 to 19.1 per 100 live births) than Puerto Rican, non-Hispanic white, non-Hispanic black, Filipino, or Cuban mothers (ranging from 20.8 to 30.5) (tables 24 and 25).

Table F. Total and primary cesarean rates and vaginal birth after previous cesarean delivery rates:
United States, 1989-97

| Year | Cesarean rate |  | VBAC rate ${ }^{3}$ |
| :---: | :---: | :---: | :---: |
|  | Total ${ }^{1}$ | Primary ${ }^{2}$ |  |
| 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 |

[^3]There was considerable variation in cesarean rates by State ranging from a high of 26.7 per 100 live births in Mississippi to a low of 15.3 in Colorado (table 41). The rate for Puerto Rico was 33.4. There was also considerable variation in VBAC rates by State. Data for Hawaii (table 41) and for Hawaiian births (table 24) are unreliable because of incomplete reporting.

All of the selected medical risk factors in table 42 were associated with overall cesarean rates that were higher than the national average. Cesarean rates for the medical risk factors ranged from 21.7 per 100 live births for mothers with Rh sensitization to 48.0 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), and the cesarean rates for breech/malpresentation (84.5) and placenta previa (82.0) were also very high.

During the 1989-97 period, the percent of births that were delivered by either forceps or vacuum extraction remained steady at about 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 consistently increased. In 1997, 2.8 percent of births were delivered by forceps compared with 5.5 percent in 1989-a 49-percent decline. Vacuum extraction was used in 6.2 percent of births in 1997, a 77-percent increase compared with 1989 (3.5 percent).

## Infant health characteristics

## Period of gestation

The preterm birth rate rose sharply for 1996-97, from 11.0 to 11.4 percent. The proportion of preterm births (infants born prior to 37 completed weeks of gestation) has risen 8 percent since 1990 (from 10.6 percent) and more than 20 percent since 1981 (from 9.4 percent). The current year rise included increases in both very preterm births (prior to 32 completed weeks of gestation) and moderately preterm (32-36 weeks) births. (See tables 43 and 44.) Preterm birth is a major cause of infant mortality and has been associated with long-term neurodevelopmental and respiratory disorders $(57,58)$.

The primary measure used to determine the infant's gestational age, the interval between the first day of the last normal menstrual period (LMP) and the date of birth, 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 (59). See Technical notes for additional information on procedures for measuring gestational age.

The increase in preterm births was most pronounced among non-Hispanic white women, for whom a rise of 4 percent (from 9.5 to 9.9 percent) was observed. The percent of births born very preterm was 1.49 for 1997 compared with 1.43 for 1996 . Since 1989, the preterm rate among non-Hispanic white births has risen from 8.4 percent, and the very preterm rate from 1.34 percent. Recent increases in multiple births, which are disproportionately preterm, have particularly influenced the upward trend in preterm birth for this group. Analysis of only non-Hispanic white singleton births for 1989-97 reveals a 14 percent increase in moderately preterm births (compared with a 19-percent rise for all births) and essentially no change in the proportion of very preterm births (compared with a rise from 1.34 to 1.49 percent for all births) (figure 6) (60).


Figure 6. Rate of preterm birth by plurality and race/Hispanic origin of mother: United States, 1989-97

The risk of preterm birth increased slightly among non-Hispanic black births for 1997 (17.6 percent) compared with 1996 (17.5 percent), checking the downturn observed since 1993 (18.6 percent). The very preterm birth rate was largely unchanged at 4.19 percent, but has declined from 4.68 percent since 1989. Among non-Hispanic black singleton births, however, levels of moderately and very preterm births were unchanged from the previous year (data not shown).

Preterm births also increased among Hispanic women, rising from 10.9 to 11.2 percent for 1996-97; the increase was concentrated among moderately preterm births (9.2-9.5 percent). The overall preterm rate has changed only slightly since 1989 (from 11.1 percent), and the very preterm rate has dipped from 1.76 to 1.68 percent. (Relative trends in preterm rates for Hispanic births are largely unaffected by trends in multiple births.) Preterm rates were up for most of the Hispanic subgroups between 1996 and 1997 (tables 24 and 25).

## Birthweight

The rate of low birthweight (LBW) (less than 2,500 grams) rose to 7.5 percent for 1997, from 7.4 percent for 1996, the highest level reported since 1973. Low birthweight has risen slowly over the last decade (from 6.8 percent for 1986) after declining during the 1970's and early 1980's. (See tables 43-47 and figure 7.) The rise in multiple births, which are much more likely than singletons to be LBW, has influenced this upward trend; whereas overall LBW has risen 10 percent since 1986, LBW among singleton births has increased 4 percent (from 5.84 to 6.08 percent).

The percent of very low birthweight (VLBW) (less than1,500 grams) was 1.42 percent for 1997, compared with 1.37 for 1996. This level has also risen in recent years (from 1.15 percent in 1980). LBW infants, particularly VLBW infants, are at greater risk than heavier babies of long-term morbidity and early death (60). In 1996, VLBW infants accounted for about 1 percent of all births, but 50 percent of all infant deaths (infant deaths through 11 months per 1,000 live births) (58).

The proportion of non-Hispanic white LBW infants rose from 6.4 to 6.5 percent between 1996 and 1997. Since 1989 non-Hispanic white LBW has risen 16 percent (from 5.6 percent) and VLBW has increased from 0.93 to 1.12 percent. The sharp increase in the multiple birth rate explains some, but not all of the rise for non-Hispanic white births as LBW among singleton births has also risen over this period, but at


Figure 7. Percent low birthweight by race: United States, 1970-97
a slower pace: from 4.90 to 4.95 percent for 1996-97, and from 4.60 percent since 1989 (see table G).

LBW among non-Hispanic black infants was unchanged for 1997 at 13.1 percent. LBW has declined somewhat among black births during the 1990's (from 13.6 for 1991), but the rate of VLBW has not improved; for 1997 the percent VLBW was 3.05 , compared with the 1989 level of 2.97. Increases in multiple births have only moderately influenced trends in non-Hispanic black LBW; that is, the decline in LBW since 1993 is slightly steeper when only singletons are examined.

Overall Hispanic LBW was 6.4 percent in 1997 compared with 6.3 percent for the previous year. The percent VLBW among Hispanic births was essentially unchanged at 1.13 percent. Since 1989, when national data on Hispanic births first became available, Hispanic VLBW and LBW have shown a moderately upward trend (from 1.05 and 6.2 percent). LBW rates were up slightly for each Hispanic subgroup for

Table G. Percent low birthweight among singletons by race/Hispanic origin of mother: United States, 1989-97

| Year | Total | Non-Hispanic White | Non-Hispanic Black | Hispanic |
| :---: | :---: | :---: | :---: | :---: |
| 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 |
| $1992{ }^{1}$ | 5.93 | 4.59 | 11.91 | 5.22 |
| $1991{ }^{1}$ | 5.99 | 4.61 | 12.15 | 5.29 |
| $1990{ }^{2}$ | 5.90 | 4.56 | 11.92 | 5.23 |
| $1989{ }^{3}$ | 6.00 | 4.60 | 12.22 | 5.35 |

${ }^{1}$ Excludes data for New Hampshire, which did not require reporting of Hispanic origin of mother.
${ }^{2}$ Excludes data for New Hampshire and Oklahoma which did not require reporting of Hispanic origin of mother.
${ }^{3}$ Excludes 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 .

1997, and ranged from 6.0 percent for Mexican to 9.4 percent for Puerto Rican infants. (See table 25.)

For 1997, 6.8 percent of American Indian births were LBW. Among the Asian or Pacific Islander subgroups, LBW levels were generally up for the current year, and ranged from 5.1 for Chinese to 8.3 percent for Filipino births (table 24).

The percent macrosomia (birthweight of at least 4,000 grams) was 10.1, down slightly from the figure reported for 1996 (10.2 percent). Macrosomic births have been declining since 1991, after peaking at about 11 percent in the 1980's.

The median birthweight for all births for 1997 was 3,350 grams ( $7 \mathrm{lbs}, 7 \mathrm{oz}$. ) unchanged from 1996. The median for white births was 3,390 grams, and for black births 3,180 grams.

LBW and VLBW risk varies by State; among non-Hispanic white births for 1997, LBW levels ranged from a low of 5.1 percent in Hawaii to a high of 9.0 percent for Wyoming. Among States with at least 1,000 births to non-Hispanic black mothers, the proportion of LBW for this population ranged from 10.2 percent in lowa and Washington to 16.2 percent for 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 (61). 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 $0-2$ with 2 being optimum. The total score is the sum of the five components and a score of 7 or better indicates that the baby is in good-to-excellent physical condition. The 5-minute Apgar score is based on an assessment 5 minutes after delivery and used to predict the newborn's chance of survival.

In 1997 all States except California and Texas collected information on the 5-minute Apgar score. Births to residents in these States accounted for 78 percent of all births in the United States. 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 all racial groups, Asian or Pacific Islander babies were in the best physical condition shortly after delivery-only 1 percent had scores less than 7. The percent of babies with low scores was intermediate for non-Hispanic white and Hispanic women (1.2 each) while 2.5 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 1997 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 (55).

## Congenital anomalies

In 1997 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. It has been shown that these anomalies are underreported on the birth certificate (55, 62).

Because many of the congenital anomalies tracked on birth certificates occur infrequently, the rates shown in this report are calculated per 100,000 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 multiple deliveries climbed to 110,874 for 1997 and included 104,137 twins, 6,148 triplets, 510 quadruplets, and 79 quintuplets and other higher order multiple births, representing a 3-percent increase in the number of twins, and a 16-percent jump in the number of triplet births over 1996. (See table 50 for 1997 data.) Slightly fewer births were reported in quadruplet and quintuplet and other higher order multiple deliveries for 1997 (table H). Since 1980 the number of twins has risen 52 percent (from 68,339 ) and the number of triplets and other higher order multiple births by 404 percent (from 1,337$)(63,64)$.

The twin birth rate (the number of twin births per 1,000 live births) rose 3 percent for 1996-97, to 26.8 (or 2.7 percent of all births). Since 1980 the twinning rate has risen 42 percent (from 18.9 per 1,000). After a rise of 20 percent for 1995-96, the higher order multiple birth rate (the number of triplet, quadruplet and quintuplet, and other higher order multiples per 100,000 live births), jumped another 14 percent for 1997, to 173.6 per 100,000. The higher order multiple birth rate has more than doubled since 1991 (from 81.4), and quadrupled since 1980 (from 37.0) (figure 8). Put another way, one in every 576 births was a triplet or other higher order multiple in 1997, compared with about one of every 2,700 births in 1980. Older maternal age (women in their thirties are more likely to have a multiple birth than those in their twenties, even without the use of fertility therapy), and the more widespread use of fertilityenhancing therapies (fertility drugs and techniques such as in vitro fertilization), have been associated with the unprecedented rise in multiple births (64-66).

Twinning rates rose among the three largest racial and ethnic groups for 1996-97, but continue to be highest for non-Hispanic black women ( 30.0 compared with 28.8 for non-Hispanic white, and 19.5 for Hispanic women). In contrast, and despite substantial increases in higher order multiple births among non-Hispanic black women

Table H. Numbers of twin, triplet, quadruplet and quintuplet, and other higher order multiple births: United States, 1989-97

| Year | Twins | Triplets | Quadruplets | Quigtuplets <br> migher order <br> multiples |
| :---: | ---: | :---: | :---: | :---: |
| 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 |



Figure 8. Higher order multiple birth rates by race and Hispanic origin of mother, 1980-97
(64 percent) and Hispanic women (93 percent) since 1991, nonHispanic white women were more than twice as likely as non-Hispanic black women, and more than three times as likely as Hispanic women to have a triplet, quadruplet, or quintuplet birth ( 230.8 compared with 90.0 and 72.7 per 100,000, respectively) in 1997. Non- Hispanic white mothers tend to be older, and are more likely than their black and Hispanic counterparts, to seek infertility services (16).

Multiple birth rates generally rise with increasing maternal age (there is a slight dip at age 40-44 years), with rates peaking for older mothers 45 to 54 years of age. For 1997, 16.6 percent of births to mothers aged 45 years and over was a multiple, a level 10 times higher than that for mothers under 20 years of age ( 1.5 percent) and more than 3 times higher than that for women in their thirties ( 3.9 percent).

Multiple births are more likely than singletons to be born preterm (57 versus 10 percent) or LBW (56 versus 6 percent). Multiples comprised only 3 percent of all births in 1997, but 21 percent of all LBW infants, 24 percent of VLBW, 14 percent of preterm, and 20 percent of very preterm infants. The rising multiple birth rate and the accompanying high risk for these births has increasingly influenced measures of perinatal health at the national and State level $(60,67)$. Thus, it can be important when analyzing trends in these measures, to do so by plurality (see gestation and birthweight sections).

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Geographic area: States ${ }^{1}$ |  |  |  |  |  |  |  |  |  | 10 | 11 | 12 |  |  |  |  |  |  | 19 |  |  |  |  |  |  |
| United States or all reporting areas | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| Years: Current year only |  | 2 | 3 |  |  |  | 7 | 8 |  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |  | 19 |  | 21 | 22 | 23 | 24 | 25 |
| Trend . | 1 |  |  | 4 | 5 | 6 |  |  | 9 |  |  |  |  |  |  |  |  | 18 |  | 20 |  |  |  |  |  |
| Type of entry: Number of births | 1 | 2 |  |  |  | 6 | 7 |  |  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |  | 19 |  | 21 | 22 |  |  |  |
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| Alcohol use. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 | 25 |
| Apgar score |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 | 25 |
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| Education . |  |  |  |  |  |  |  |  |  |  |  |  | 13 | 14 |  |  |  |  |  |  | 21 |  |  |  |  |
| Gestational age . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 22 | 23 | 24 | 25 |
| Hispanic origin of mother |  |  |  |  |  | ${ }^{4} 6$ | ${ }^{4} 7$ | ${ }^{4} 8$ | ${ }^{4} 9$ |  |  | ${ }^{4} 12$ |  | ${ }^{4} 14$ |  |  | ${ }^{6} 17$ | ${ }^{6} 18$ | ${ }^{6} 19$ |  | ${ }^{6} 21$ | ${ }^{6} 22$ | ${ }^{4} 23$ |  | ${ }^{4} 25$ |
| Live-birth order. |  | 2 | 3 |  | 5 |  | 7 | 8 |  |  |  |  |  | 13 | 14 |  |  |  |  |  |  |  |  |  |  |
| Method of delivery. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 16 |  |  |  |  |  |  |  | 24 | 25 |
| Month of birth . |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |
| Nativity of mother . |  |  |  |  |  |  |  |  |  |  |  |  | 13 | 14 |  |  |  |  |  |  |  |  |  | 24 | 25 |
| Prenatal care. . . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 | 25 |
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| Race of mother | ${ }^{2} 1$ | ${ }^{2} 2$ | ${ }^{2} 3$ | ${ }^{2} 4$ | ${ }^{3} 5$ | ${ }^{4} 6$ | ${ }^{4} 7$ | ${ }^{4} 8$ | ${ }^{49}$ |  | ${ }^{2} 11$ | ${ }^{4} 12$ | ${ }^{5} 13$ | ${ }^{4} 14$ | ${ }^{3} 15$ | ${ }^{3} 16$ | ${ }^{6} 17$ | ${ }^{6} 18$ | ${ }^{6} 19$ |  | ${ }^{3} 21$ | ${ }^{6} 22$ | ${ }^{4} 23$ | ${ }^{5} 24$ | ${ }^{4} 25$ |
| Sex of child. . . |  |  |  |  |  |  |  |  |  |  |  |  | 13 | 14 |  |  |  |  |  |  |  |  |  |  |  |
| Teenage mothers |  |  |  |  |  |  |  |  |  | 10 |  |  | 13 | 14 |  |  |  |  |  |  |  |  |  |  |  |
| Tobacco use . . . . . . . . . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 | 25 |
| Unmarried mothers |  |  |  |  |  |  |  |  |  |  |  |  | 13 | 14 |  |  | 17 | 18 | 19 |  |  |  |  |  |  |
| Weight gain during pregnancy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 22 | 23 | 24 | 25 |


| TABLE: | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Geographic area: States ${ }^{1}$. |  |  |  |  |  |  |  |  | 34 |  |  |  |  |  |  | 41 |  |  |  |  | 46 | 47 |  |  |  |
| United States or all reporting areas | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| Years: <br> Current year only | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |  | 40 | 41 | 42 | 43 |  | 45 | 46 | 47 | 48 | 49 | 50 |
| Trend |  |  |  |  |  |  |  |  |  |  |  |  |  | 39 |  |  |  |  | 44 |  |  |  |  |  |  |
| Type of entry: Number of births | 26 | 27 | 28 | 29 | 30 | 31 |  | 33 |  | 35 | 36 | 37 | 38 | 39 | 40 |  | 42 | 43 |  | 45 | 46 | 47 | 48 | 49 | 50 |
| Rates or other measures | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |  | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
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| Age of mother | 26 |  |  | 29 | 30 |  | 32 | 33 |  |  | 36 | 37 |  |  | 40 |  |  |  |  | 45 |  |  | 48 | 49 | 50 |
| Attendant at birth |  |  |  |  |  |  |  |  |  |  |  |  | 38 |  |  |  |  |  |  |  |  |  |  |  |  |
| Birthweight |  |  |  |  |  |  | 32 |  |  |  |  |  |  |  |  |  |  | 43 | 44 | 45 | 46 | 47 |  |  |  |
| Complications of labor |  | 27 | 28 |  |  |  |  |  |  |  |  | 37 |  |  |  |  | 42 |  |  |  |  |  |  |  |  |
| Congenital anomalies. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 49 |  |
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| 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 |  |  |  |  |  |  |  |  |  |  |  |  |
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| Prenatal care. |  |  |  |  |  |  |  | 33 | 34 | 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Race of mother | ${ }^{3} 26$ | $5^{5} 2$ | ${ }^{4} 28$ | ${ }^{3} 29$ | ${ }^{4} 30$ | ${ }^{3} 31$ | ${ }^{6} 32$ | ${ }^{6} 33$ | ${ }^{6} 34$ | ${ }^{6} 35$ | ${ }^{3} 36$ | ${ }^{3} 37$ | ${ }^{6} 38$ | ${ }^{6} 39$ | ${ }^{6} 40$ | ${ }^{6} 41$ |  | ${ }^{6} 43$ | ${ }^{3} 44$ | ${ }^{6} 45$ | ${ }^{6} 46$ | ${ }^{6} 47$ | ${ }^{3} 48$ | ${ }^{3} 49$ | ${ }^{6} 50$ |
| Tobacco use |  |  |  | 29 | 30 | 31 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ Includes data for Puerto Rico, Virgin Islands, Guam, and American Samoa; data for American Samoa not available for tables 34 and 41.
${ }^{2}$ Includes white, black, American Indian, Asian or Pacific Islander.
2Includes white, black, Ame
3Includes white and black.
${ }^{4}$ Includes Mexican, Puerto Rican, Cuban, Central and South American, other and unknown Hispanic, non-Hispanic white, and non-Hispanic black.
${ }^{5}$ Includes white, black, American Indian, Chinese, Japanese, Hawaiian, Filipino, and other Asian or Pacific Islanders.
${ }^{6}$ Includes 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, 1960-97
[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 rate |  |  |  |  | Fertility rate |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | $\begin{gathered} \text { All } \\ \text { races } \end{gathered}$ | White | Black | American Indian ${ }^{2}$ | Asian or Pacific Islander | $\begin{gathered} \text { All } \\ \text { races } \end{gathered}$ | White | Black | American Indian ${ }^{2}$ | Asian or Pacific Islander | $\begin{aligned} & \text { All } \\ & \text { races } \end{aligned}$ | White | Black | American Indian ${ }^{2}$ | Asian or Pacific Islander |

Registered
births

| Race of mother: $1997$ | 3,880,894 | 3,072,640 | 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 | 3,891,494 | 3,093,057 | 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 | 3,899,589 | 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 | 3,952,767 | 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 | 4,000,240 | 3,149,833 | 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 | 4,065,014 | 3,201,678 | 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 | 4,110,907 | 3,241,273 | 682,602 | 38,841 | 145,372 | 16.3 | 15.4 | 21.9 | 18.3 | 18.2 | 69.6 | 67.0 | 85.2 | 75.1 | 67.6 |
| 1990 | 4,158,212 | 3,290,273 | 684,336 | 39,051 | 141,635 | 16.7 | 15.8 | 22.4 | 18.9 | 19.0 | 70.9 | 68.3 | 86.8 | 76.2 | 69.6 |
| 1989 | 4,040,958 | 3,192,355 | 673,124 | 39,478 | 133,075 | 16.4 | 15.4 | 22.3 | 19.7 | 18.7 | 69.2 | 66.4 | 86.2 | 79.0 | 68.2 |
| 1988 | 3,909,510 | 3,102,083 | 638,562 | 37,088 | 129,035 | 16.0 | 15.0 | 21.5 | 19.3 | 19.2 | 67.3 | 64.5 | 82.6 | 76.8 | 70.2 |
| 1987 | 3,809,394 | 3,043,828 | 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 | 3,756,547 | 3,019,175 | 592,910 | 34,169 | 107,797 | 15.6 | 14.8 | 20.5 | 19.2 | 18.0 | 65.4 | 63.1 | 78.9 | 75.9 | 66.0 |
| 1985 | 3,760,561 | 3,037,913 | 581,824 | 34,037 | 104,606 | 15.8 | 15.0 | 20.4 | 19.8 | 18.7 | 66.3 | 64.1 | 78.8 | 78.6 | 68.4 |
| 19843 | 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 |
| 19833 | 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 |
| 19823 | 3,680,537 | 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 |
| 19813 | 3,629,238 | 2,947,679 | 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 | --- | --- |
| 19793 | 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 | --- | --- |
| 19773 | 3,326,632 | 2,691,070 | 544,221 | 30,500 | --- | 15.1 | 14.1 | 21.4 | --- | --- | 66.8 | 63.2 | 88.1 | --- | --- |
| 19763 | 3,167,788 | 2,567,614 | 514,479 | 29,009 | --- | 14.6 | 13.6 | 20.5 | --- | --- | 65.0 | 61.5 | 85.8 | --- | --- |
| 19753 | 3,144,198 | 2,551,996 | 511,581 | 27,546 | --- | 14.6 | 13.6 | 20.7 | --- | --- | 66.0 | 62.5 | 87.9 | --- |  |
| 19743 | 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 | --- | --- |
| 19714 | 3,555,970 | 2,919,746 | 564,960 | 27,148 | --- | 17.2 | 16.1 | 24.4 | --- | --- | 81.6 | 77.3 | 109.7 | --- |  |
| 19704 | 3,731,386 | 3,091,264 | 572,362 | 25,864 | --- | 18.4 | 17.4 | 25.3 | --- | --- | 87.9 | 84.1 | 115.4 | --- | --- |
| 19694 | 3,600,206 | 2,993,614 | 543,132 | 24,008 | --- | 17.9 | 16.9 | 24.4 | --- | --- | 86.1 | 82.2 | 112.1 | --- | --- |
| 19684 | 3,501,564 | 2,912,224 | 531,152 | 24,156 | --- | 17.6 | 16.6 | 24.2 | --- | --- | 85.2 | 81.3 | 112.7 | --- |  |
| 19675 | 3,520,959 | 2,922,502 | 543,976 | 22,665 | --- | 17.8 | 16.8 | 25.1 | --- | --- | 87.2 | 82.8 | 118.5 | --- |  |
| 19664 | 3,606,274 | 2,993,230 | 558,244 | 23,014 | --- | 18.4 | 17.4 | 26.2 | --- | --- | 90.8 | 86.2 | 124.7 |  |  |
| 19654 | 3,760,358 | 3,123,860 | 581,126 | 24,066 | --- | 19.4 | 18.3 | 27.7 | --- | --- | 96.3 | 91.3 | 133.2 | --- |  |
| 19644 | 4,027,490 | 3,369,160 | 607,556 | 24,382 | --- | 21.1 | 20.0 | 29.5 | --- | --- | 104.7 | 99.8 | 142.6 | --- |  |
| 1963 4, 6 | 4,098,020 | 3,326,344 | 580,658 | 22,358 | --- | 21.7 | 20.7 | . | --- | --- | 108.3 | 103.6 | --- | --- | --- |
| 1962 4, 6 | 4,167,362 | 3,394,068 | 584,610 | 21,968 | --- | 22.4 | 21.4 | --- | --- | --- | 112.0 | 107.5 | --- | --- | --- |
| 19614 | 4,268,326 | 3,600,864 | 611,072 | 21,464 | --- | 23.3 | 22.2 | --- | --- | --- | 117.1 | 112.3 | --- | --- | --- |
| 19604 ................ | 4,257,850 | 3,600,744 | 602,264 | 21,114 | --- | 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 | --- | --- | --- |
| 1950 .................. | 3,632,000 | 3,108,000 | --- | --- | --- | 24.1 | 23.0 | --- | --- | --- | 106.2 | 102.3 | --- | --- | --- |
| 1945 | 2,858,000 | 2,471,000 | --- | --- | --- | 20.4 | 19.7 | --- | --- | --- | 85.9 | 83.4 | --- | --- | --- |
| 1940 .................. | 2,559,000 | 2,199,000 | --- | --- | --- | 19.4 | 18.6 | --- | --- | --- | 79.9 | 77.1 | --- | --- | --- |

[^4]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 2. Live births by age of mother, live-birth order, and race of mother: United States, 1997
[Live-birth order refers to number of children born alive to mother]

| Live-birth order and race of mother | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | Age of mother |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 15 years | 15-19 years |  |  |  |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ | 50-54 years |
|  |  |  | Total | $\begin{gathered} 15 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 16 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 17 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 18 \\ \text { years } \end{gathered}$ | $\begin{gathered} 19 \\ \text { years } \end{gathered}$ |  |  |  |  |  |  |  |
| All races ........................ | 3,880,894 | 10,121 | 483,220 | 26,340 | 57,038 | 96,776 | 134,595 | 168,471 | 942,048 | 1,069,436 | 886,798 | 409,710 | 76,084 | 3,333 | 144 |
| 1st child | 1,573,768 | 9,843 | 374,795 | 24,997 | 51,542 | 81,177 | 102,430 | 114,649 | 434,421 | 399,623 | 248,113 | 90,274 | 15,941 | 723 | 35 |
| 2d child | 1,254,354 | 211 | 88,046 | 1,107 | 4,806 | 13,449 | 26,653 | 42,031 | 322,692 | 369,886 | 320,452 | 131,608 | 20,699 | 722 | 38 |
| 3d child | 628,579 | 1 | 15,151 | 60 | 315 | 1,393 | 4,146 | 9,237 | 128,467 | 186,730 | 186,492 | 95,411 | 15,753 | 556 | 18 |
| 4th child ....................... | 241,418 | - | 1,966 | 3 | 15 | 118 | 462 | 1,368 | 38,284 | 69,287 | 75,254 | 46,879 | 9,313 | 423 | 12 |
| 5th child ....................... | 89,479 |  | 277 |  | 1 | 16 | 60 | 200 | 10,023 | 24,276 | 28,773 | 20,623 | 5,247 | 252 | 8 |
| 6 th child ....................... | 37,583 | - | 38 |  | 2 | 1 | 12 | 23 | 2,567 | 8,980 | 12,375 | 10,338 | 3,109 | 172 | 4 |
| 7th child ....................... | 17,251 | - | 10 |  | - | 1 | 3 | 6 | 585 | 3,487 | 5,834 | 5,312 | 1,896 | 120 | 7 |
| 8th child and over ........... | 17,854 | - | 4 | - | - | 1 | 2 | 1 | 203 | 1,915 | 4,956 | 6,833 | 3,601 | 324 | 18 |
| Not stated ..................... | 20,608 | 66 | 2,933 | 173 | 357 | 620 | 827 | 956 | 4,806 | 5,252 | 4,549 | 2,432 | 525 | 41 | 4 |
| White ............................ | 3,072,640 | 5,021 | 338,272 | 15,959 | 37,324 | 66,882 | 95,436 | 122,671 | 720,546 | 871,636 | 735,571 | 337,423 | 61,417 | 2,633 | 121 |
| 1st child | 1,252,047 | 4,913 | 269,307 | 15,273 | 34,276 | 57,621 | 75,175 | 86,962 | 346,364 | 334,554 | 207,519 | 75,441 | 13,310 | 605 | 34 |
| 2d child ......................... | 1,012,916 | 76 | 57,500 | 540 | 2,645 | 8,069 | 17,223 | 29,023 | 250,685 | 307,959 | 269,851 | 109,275 | 16,936 | 601 | 33 |
| 3d child ........................ | 498,451 | - | 8,320 | 25 | 137 | 699 | 2,191 | 5,268 | 90,725 | 150,110 | 156,615 | 79,552 | 12,674 | 438 | 17 |
| 4th child ....................... | 182,633 | - | 902 |  | 11 | 41 | 212 | 638 | 22,974 | 51,488 | 61,132 | 38,399 | 7,399 | 327 | 12 |
| 5 th child | 63,291 | - | 117 |  | - | 6 | 33 | 78 | 4,940 | 15,976 | 21,785 | 16,230 | 4,041 | 196 | 6 |
| 6 th child .. | 25,252 | - | 11 |  | 1 | - | 2 | 8 | 1,038 | 5,098 | 8,649 | 7,921 | 2,406 | 125 | 4 |
| 7th child ....................... | 10,990 | - | 2 | - | - | - | - | 2 | 195 | 1,655 | 3,713 | 3,879 | 1,458 | 85 | 3 |
| 8th child and over ........... | 11,340 | - | 3 | - | - | 1 | 1 | 1 | 93 | 768 | 2,670 | 4,786 | 2,785 | 227 | 8 |
| Not stated ..................... | 15,720 | 32 | 2,110 | 121 | 254 | 445 | 599 | 691 | 3,532 | 4,028 | 3,637 | 1,940 | 408 | 29 | 4 |
| Black ........................... | 599,913 | 4,712 | 128,539 | 9,381 | 17,658 | 26,595 | 34,712 | 40,193 | 182,600 | 135,529 | 94,123 | 45,069 | 8,981 | 357 | 3 |
| 1st child | 230,724 | 4,556 | 92,746 | 8,796 | 15,411 | 20,776 | 23,882 | 23,881 | 67,884 | 35,504 | 20,584 | 8,002 | 1,398 | 50 | - |
| 2d child ........................ | 174,612 | 122 | 27,597 | 503 | 1,993 | 4,927 | 8,562 | 11,612 | 60,442 | 43,022 | 28,965 | 12,361 | 2,043 | 59 | 1 |
| 3d child ........................ | 101,843 | 1 | 6,332 | 31 | 160 | 658 | 1,802 | 3,681 | 33,169 | 28,966 | 21,143 | 10,263 | 1,896 | 73 |  |
| 4th child | 47,865 | - | 963 | 2 | 4 | 66 | 224 | 667 | 13,714 | 14,617 | 10,937 | 6,235 | 1,337 | 62 | - |
| 5 th child | 21,465 | - | 148 |  | 1 | 10 | 25 | 112 | 4,558 | 6,911 | 5,542 | 3,396 | 875 | 33 | 2 |
| 6th child ....................... | 9,986 | - | 23 |  | 1 | - | 9 | 13 | 1,368 | 3,223 | 2,956 | 1,880 | 506 | 30 |  |
| 7th child ....................... | 4,941 | - | 7 |  | - | 1 | 3 | 3 | 337 | 1,513 | 1,639 | 1,111 | 314 | 20 | - |
| 8th child and over .......... | 4,852 | - | 1 | - | - | - | 1 | - | 103 | 928 | 1,770 | 1,489 | 535 | 26 | - |
| Not stated ..................... | 3,625 | 33 | 722 | 49 | 88 | 157 | 204 | 224 | 1,025 | 845 | 587 | 332 | 77 | 4 | - |
| American Indian ${ }^{1}$........... | 38,572 | 202 | 7,810 | 470 | 1,000 | 1,648 | 2,118 | 2,574 | 12,316 | 9,168 | 5,812 | 2,694 | 542 | 28 | - |
| 1st child | 13,696 | 198 | 5,957 | 445 | 915 | 1,397 | 1,580 | 1,620 | 4,497 | 1,832 | 862 | 294 | 50 | 6 | - |
| 2d child | 10,596 | 4 | 1,552 | 22 | 69 | 222 | 467 | 772 | 4,486 | 2,646 | 1,321 | 494 | 88 | 5 | - |
| 3d child ......................... | 6,579 | - | 218 | 2 | 5 | 16 | 55 | 140 | 2,207 | 2,192 | 1,316 | 553 | 91 | 2 |  |
| 4th child ........................ | 3,616 | - | 26 |  | - | 2 | 5 | 19 | 777 | 1,290 | 951 | 476 | 92 | 4 |  |
| 5th child ............................ | 1,893 | - | 1 | - | - | . | . | 1 | 202 | 655 | 616 | 339 | 75 | - |  |
| 6th child ....................... | 997 | - | - |  | - | - |  |  | 44 | 321 | 365 | 223 | 43 | 1 |  |
| 7th child ........................ | 520 | - | - | - | - | - | - | - | 22 | 124 | 203 | 135 | 34 | 2 |  |
| 8th child and over ........... | 436 | - | - | - | ${ }^{-}$ | - | ${ }^{-}$ | - | 1 | 63 | 144 | 161 | 64 | 3 | - |
| Not stated ..................... | 239 | - | 56 | 1 | 11 | 11 | 11 | 22 | 80 | 45 | 34 | 19 | 5 | - | - |
| Asian or Pacific Islander | 169,769 | 186 | 8,599 | 530 | 1,056 | 1,651 | 2,329 | 3,033 | 26,586 | 53,103 | 51,292 | 24,524 | 5,144 | 315 | 20 |
| 1st child ........................ | 77,301 | 176 | 6,785 | 483 | 940 | 1,383 | 1,793 | 2,186 | 15,676 | 27,733 | 19,148 | 6,537 | 1,183 | 62 | 1 |
| 2d child ........................ | 56,230 | 9 | 1,397 | 42 | 99 | 231 | 401 | 624 | 7,079 | 16,259 | 20,315 | 9,478 | 1,632 | 57 | 4 |
| 3d child ........................ | 21,706 | - | 281 | 2 | 13 | 20 | 98 | 148 | 2,366 | 5,462 | 7,418 | 5,043 | 1,092 | 43 | 1 |
| 4th child ........................ | 7,304 | - | 75 | 1 | - | 9 | 21 | 44 | 819 | 1,892 | 2,234 | 1,769 | 485 | 30 |  |
| 5th child ....................... | 2,830 | - | 11 |  |  | - | 2 | 9 | 323 | 734 | 830 | 658 | 256 | 18 | - |
| 6th child ....................... | 1,348 |  | 4 |  |  | 1 | 1 | 2 | 117 | 338 | 405 | 314 | 154 | 16 | - |
| 7th child ....................... | 800 | - | 1 | - | - | - | - | 1 | 31 | 195 | 279 | 187 | 90 | 13 | 4 |
| 8th child and over ........... | 1,226 | - | - | - | - | - | - | - | 6 | 156 | 372 | 397 | 217 | 68 | 10 |
| Not stated ..................... | 1,024 | 1 | 45 | 2 | 4 | 7 | 13 | 19 | 169 | 334 | 291 | 141 | 35 | 8 |  |

[^5]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 3. Fertility rates and birth rates by age of mother, live-birth order, and race of mother: United States, 1997
[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]

| Live-birth order and race of mother | $\begin{gathered} 15-44 \\ \text { years }^{1} \end{gathered}$ | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & 10-14 \\ & \text { years } \end{aligned}$ | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-44 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 45-49 \\ \text { years }^{2} \end{gathered}$ |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $18-19$ <br> years |  |  |  |  |  |  |
| All races ........................... | 65.0 | 1.1 | 52.3 | 32.1 | 83.6 | 110.4 | 113.8 | 85.3 | 36.1 | 7.1 | 0.4 |
| 1st child ............................. | 26.5 | 1.1 | 40.8 | 28.3 | 60.2 | 51.2 | 42.7 | 24.0 | 8.0 | 1.5 | 0.1 |
| 2d child ............................. | 21.1 | 0.0 | 9.6 | 3.5 | 19.1 | 38.0 | 39.5 | 31.0 | 11.7 | 1.9 | 0.1 |
| 3d child ............................. | 10.6 | * | 1.6 | 0.3 | 3.7 | 15.1 | 20.0 | 18.0 | 8.5 | 1.5 | 0.1 |
| 4th child ............................ | 4.1 | * | 0.2 | 0.0 | 0.5 | 4.5 | 7.4 | 7.3 | 4.2 | 0.9 | 0.0 |
| 5th child ............................ | 1.5 | * | 0.0 | * | 0.1 | 1.2 | 2.6 | 2.8 | 1.8 | 0.5 | 0.0 |
| 6th and 7th child ................. | 0.9 | * | 0.0 | * | 0.0 | 0.4 | 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 ............................... | 63.9 | 0.7 | 46.3 | 27.1 | 75.9 | 106.7 | 116.6 | 87.8 | 36.4 | 6.9 | 0.4 |
| 1st child ............................ | 26.2 | 0.7 | 37.1 | 24.3 | 56.8 | 51.6 | 45.0 | 24.9 | 8.2 | 1.5 | 0.1 |
| 2d child ............................. | 21.2 | 0.0 | 7.9 | 2.6 | 16.2 | 37.3 | 41.4 | 32.4 | 11.8 | 1.9 | 0.1 |
| 3d child ............................. | 10.4 | * | 1.1 | 0.2 | 2.6 | 13.5 | 20.2 | 18.8 | 8.6 | 1.4 | 0.1 |
| 4th child ............................ | 3.8 | * | 0.1 | 0.0 | 0.3 | 3.4 | 6.9 | 7.3 | 4.2 | 0.8 | 0.0 |
| 5 th child | 1.3 | * | 0.0 | * | 0.0 | 0.7 | 2.1 | 2.6 | 1.8 | 0.5 | 0.0 |
| 6th and 7th child ................. | 0.8 | * | * | * | * | 0.2 | 0.9 | 1.5 | 1.3 | 0.4 | 0.0 |
| 8th child and over ............... | 0.2 | * | * | * | * | 0.0 | 0.1 | 0.3 | 0.5 | 0.3 | 0.0 |
| Black ............................... | 70.7 | 3.3 | 88.2 | 60.8 | 130.1 | 139.0 | 99.5 | 64.3 | 29.7 | 6.5 | 0.3 |
| 1st child ............................ | 27.3 | 3.2 | 64.0 | 51.3 | 83.5 | 52.0 | 26.2 | 14.1 | 5.3 | 1.0 | 0.0 |
| 2d child ............................. | 20.7 | 0.1 | 19.0 | 8.5 | 35.3 | 46.3 | 31.8 | 19.9 | 8.2 | 1.5 | 0.1 |
| 3d child ............................. | 12.1 | * | 4.4 | 1.0 | 9.6 | 25.4 | 21.4 | 14.5 | 6.8 | 1.4 | 0.1 |
| 4th child ............................ | 5.7 | * | 0.7 | 0.1 | 1.6 | 10.5 | 10.8 | 7.5 | 4.1 | 1.0 | 0.1 |
| 5th child ............................ | 2.5 | * | 0.1 | * | 0.2 | 3.5 | 5.1 | 3.8 | 2.3 | 0.6 | 0.0 |
| 6th and 7th child ................. | 1.8 | * | 0.0 | * | 0.0 | 1.3 | 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 ${ }^{3}$............... | 69.1 | 1.7 | 71.8 | 45.3 | 117.6 | 134.9 | 100.8 | 64.2 | 29.3 | 6.4 | 0.4 |
| 1st child ............................ | 24.7 | 1.7 | 55.2 | 40.4 | 80.8 | 49.6 | 20.2 | 9.6 | 3.2 | 0.6 | * |
| 2d child .............................. | 19.1 | * | 14.4 | 4.6 | 31.3 | 49.5 | 29.2 | 14.7 | 5.4 | 1.0 | * |
| 3d child ............................ | 11.9 | * | 2.0 | 0.3 | 4.9 | 24.3 | 24.2 | 14.6 | 6.1 | 1.1 | * |
| 4th child ............................ | 6.5 | * | 0.2 | * | 0.6 | 8.6 | 14.2 | 10.6 | 5.2 | 1.1 | * |
| 5th child ............................ | 3.4 | * | * | * | * | 2.2 | 7.2 | 6.9 | 3.7 | 0.9 | * |
| 6th and 7th child ................. | 2.7 | * | * | * | * | 0.7 | 4.9 | 6.3 | 3.9 | 0.9 | * |
| 8th child and over ............... | 0.8 | * | * | * | * | * | 0.7 | 1.6 | 1.8 | 0.8 | * |
| Asian or Pacific Islander ...... | 66.3 | 0.5 | 23.7 | 14.3 | 39.3 | 70.5 | 113.2 | 110.3 | 54.1 | 11.9 | 0.9 |
| 1st child ............................ | 30.4 | 0.5 | 18.8 | 12.5 | 29.3 | 41.8 | 59.5 | 41.4 | 14.5 | 2.8 | 0.2 |
| 2d child .............................. | 22.1 | * | 3.9 | 1.7 | 7.6 | 18.9 | 34.9 | 43.9 | 21.0 | 3.8 | 0.2 |
| 3d child ............................. | 8.5 | * | 0.8 | 0.2 | 1.8 | 6.3 | 11.7 | 16.0 | 11.2 | 2.5 | 0.1 |
| 4th child ............................ | 2.9 | * | 0.2 | * | 0.5 | 2.2 | 4.1 | 4.8 | 3.9 | 1.1 | 0.1 |
| 5th child ................................ | 1.1 | * | * | * | * | 0.9 | 1.6 | 1.8 | 1.5 | 0.6 | * |
| 6th and 7th child ................. | 0.8 | * | * | * | * | 0.4 | 1.1 | 1.5 | 1.1 | 0.6 | 0.1 |
| 8th child and over ............... | 0.5 | * | * | * | * | * | 0.3 | 0.8 | 0.9 | 0.5 | 0.2 |

* Figure does not meet standards of reliability or precision.
* Figure does not meet standards of reliability or
0.0 Quantity more than zero but less than 0.05 .
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 total births, regardless of age of mother, to women aged 15-44 years
3 Includes births to Aleuts and Eskimos.
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 4. Total fertility rates and birth rates by age of mother: United States, 1970-97, and by age and race of mother: United States, 1980-97
[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]

|  |  |  |  |  |  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

See footnotes at end of table.

Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-97, and by age and race of mother: United States, 1980-97 --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]

| Year and race | Total fertility rate | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & 10-14 \\ & \text { years } \end{aligned}$ | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-44 years | $\begin{gathered} 45-49 \\ \text { years }{ }^{1} \end{gathered}$ |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |  |
| American Indian 5 |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 121.1 | 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 .......................... | 2,082.0 | 1.8 | 78.1 | 48.7 | 125.3 | 138.8 | 107.9 | 60.7 | 23.8 | 5.3 | * |
| 1985 | 2,128.0 | 1.7 | 79.2 | 47.7 | 124.1 | 139.1 | 109.6 | 62.6 | 27.4 | 6.0 | * |
| $1984{ }^{3}$ | 2,136.0 | 1.7 | 81.5 | 50.7 | 124.7 | 142.4 | 109.2 | 60.5 | 26.3 | 5.6 | * |
| 1983 | 2,180.5 | 1.9 | 84.2 | 55.2 | 121.4 | 145.5 | 113.7 | 58.9 | 25.5 | 6.4 | * |
| 19823 | 2,213.0 | 1.4 | 83.5 | 52.6 | 127.6 | 148.1 | 115.8 | 60.9 | 26.9 | 6.0 | * |
| 19813 | 2,090.0 | 2.1 | 78.4 | 49.7 | 121.5 | 141.2 | 105.6 | 58.9 | 25.2 | 6.6 | * |
| 19803 | 2,162.5 | 1.9 | 82.2 | 51.5 | 129.5 | 143.7 | 106.6 | 61.8 | 28.1 | 8.2 | * |
| Asian or Pacific Islander |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 19843 | 1,892.0 | 0.5 | 24.2 | 12.6 | 40.7 | 86.7 | 124.3 | 92.4 | 40.6 | 8.7 | 1.0 |
| 1983 | 1,943.5 | 0.5 | 26.1 | 12.9 | 44.5 | 94.0 | 126.2 | 93.3 | 39.4 | 8.2 | 1.0 |
| 19823 | 2,015.5 | 0.4 | 29.4 | 14.0 | 50.8 | 98.9 | 130.9 | 94.4 | 39.2 | 8.8 | 1.1 |
| 19813 | 1,976.0 | 0.3 | 28.5 | 13.4 | 49.5 | 96.4 | 129.1 | 93.4 | 38.0 | 8.6 | 0.9 |
| $1980{ }^{3}$....................... | 1,953.5 | 0.3 | 26.2 | 12.0 | 46.2 | 93.3 | 127.4 | 96.0 | 38.3 | 8.5 | 0.7 |

[^6]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 5. Fertility rates and birth rates by live-birth order and race of mother: United States, 1980-97
[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]

|  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |

[^7]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, 1989-97

| Measure and year | $\begin{gathered} \text { All } \\ \text { origins } 1 \end{gathered}$ | Hispanic |  |  |  |  |  | Non-Hispanic |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{2}$ | White | Black |
| Number |  |  |  |  |  |  |  |  |  |  |
| 1997 | 3,880,894 | 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 | 3,899,589 | 679,768 | 469,615 | 54,824 | 12,473 | 94,996 | 47,860 | 3,160,495 | 2,382,638 | 587,781 |
| 1994 | 3,952,767 | 665,026 | 454,536 | 57,240 | 11,889 | 93,485 | 47,876 | 3,245,115 | 2,438,855 | 619,198 |
| 1993 | 4,000,240 | 654,418 | 443,733 | 58,102 | 11,916 | 92,371 | 48,296 | 3,295,345 | 2,472,031 | 641,273 |
| 19923 | 4,049,024 | 643,271 | 432,047 | 59,569 | 11,472 | 89,031 | 51,152 | 3,365,862 | 2,527,207 | 657,450 |
| 19913 | 4,094,566 | 623,085 | 411,233 | 59,833 | 11,058 | 86,908 | 54,053 | 3,434,464 | 2,589,878 | 666,758 |
| 19904 | 4,092,994 | 595,073 | 385,640 | 58,807 | 11,311 | 83,008 | 56,307 | 3,457,417 | 2,626,500 | 661,701 |
| 19895 | 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 ${ }^{6}$ |  |  |  |  |  |  |  |  |  |  |
| 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 | ${ }^{7} 25.3$ |  | 13.7 | 12.6 | 18.8 |
| 1994 | 15.2 | 25.5 | 27.0 | 21.4 | 10.8 | 725.7 |  | 14.0 | 12.8 | 20.0 |
| 1993 | 15.5 | 26.0 | 27.4 | 21.9 | 10.5 | 726.9 |  | 14.4 | 13.1 | 21.1 |
| $1992{ }^{3}$........................ | 15.9 | 26.5 | 27.8 | 23.2 | 10.1 | 727.9 |  | 14.8 | 13.5 | 21.9 |
| 19918 | 16.3 | 26.7 | 29.2 | 21.0 | 10.1 | 726.5 |  | 15.2 | 13.9 | 22.5 |
| 19904 ....................... | 16.7 | 26.7 | 28.7 | 21.6 | 10.9 | 727.5 |  | 15.7 | 14.4 | 23.0 |
| 19895 ....................... | 16.3 | 26.2 | 25.7 | 23.7 | 10.0 | ${ }^{7} 28.3$ |  | 15.4 | 14.2 | 22.8 |
| Fertility rate ${ }^{9}$ |  |  |  |  |  |  |  |  |  |  |
| 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 | 794.5 |  | 60.8 | 57.6 | 74.5 |
| 1994 ......................... | 66.7 | 105.6 | 115.4 | 81.9 | 55.9 | 797.7 |  | 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 |
| $1992{ }^{3}$....................... | 68.9 | 108.6 | 116.0 | 89.9 | 50.3 | ${ }^{7} 107.0$ |  | 64.4 | 60.2 | 85.5 |
| 19918 | 69.6 | 108.1 | 121.6 | 80.9 | 49.1 | 799.3 |  | 65.4 | 61.0 | 87.6 |
| 19904 | 71.0 | 107.7 | 118.9 | 82.9 | 52.6 | ${ }^{7} 102.7$ |  | 67.1 | 62.8 | 89.0 |
| $19895{ }^{5}$....................... | 69.2 | 104.9 | 106.6 | 86.6 | 49.8 | 795.8 |  | 65.7 | 60.5 | 84.8 |

[^8]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, 1997
[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only]

| Live-birth order and origin of mother | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | Age of mother |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 15 years | 15-19 years |  |  |  |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-44 years | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 50-54 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{gathered} 15 \\ \text { years } \end{gathered}$ | $\begin{gathered} 16 \\ \text { years } \end{gathered}$ | $\begin{gathered} 17 \\ \text { years } \end{gathered}$ | $\begin{gathered} 18 \\ \text { years } \end{gathered}$ | 19 years |  |  |  |  |  |  |  |
| Hispanic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total ........................ | 709,767 | 2,833 | 118,122 | 7,778 | 15,870 | 24,768 | 31,542 | 38,164 | 216,152 | 188,669 | 121,539 | 51,601 | 10,405 | 439 | 7 |
| 1st child | 266,392 | 2,766 | 88,821 | 7,303 | 14,083 | 20,010 | 22,781 | 24,644 | 93,006 | 50,172 | 22,808 | 7,468 | 1,308 | 43 | - |
| 2d child ...................... | 214,352 | 48 | 23,635 | 377 | 1,533 | 4,065 | 7,184 | 10,476 | 76,759 | 64,382 | 35,468 | 12,157 | 1,829 | 73 | 1 |
| 3d child ..................... | 127,872 | - | 4,042 | 23 | 90 | 431 | 1,150 | 2,348 | 32,426 | 44,385 | 31,959 | 12,780 | 2,201 | 78 | 1 |
| 4th child .................... | 56,782 | - | 527 | - | 7 | 25 | 127 | 368 | 9,529 | 18,559 | 17,455 | 8,904 | 1,739 | 68 | 1 |
| 5th child ...................... | 22,760 | - | 76 | - | - | 4 | 23 | 49 | 2,350 | 6,687 | 7,586 | 4,767 | 1,248 | 45 | 1 |
| 6 th child .................... | 9,525 | - | 6 | - | 1 | - | 1 | 4 | 561 | 2,245 | 3,248 | 2,620 | 804 | 41 |  |
| 7th child .................... | 4,141 | - | 3 | - | - | - | 1 | 2 | 126 | 846 | 1,438 | 1,242 | 458 | 27 | 1 |
| 8th child and over ....... | 3,697 | - | 3 | ${ }^{-}$ | - | 1 | 1 | 1 | 44 | 380 | 1,017 | 1,424 | 767 | 60 | 2 |
| Not stated ................. | 4,246 | 19 | 1,009 | 75 | 156 | 232 | 274 | 272 | 1,351 | 1,013 | 560 | 239 | 51 | 4 |  |
| Mexican .................... | 499,024 | 2,103 | 86,426 | 5,701 | 11,759 | 18,219 | 22,988 | 27,759 | 159,304 | 133,465 | 78,891 | 32,026 | 6,547 | 259 | 3 |
| 1st child .................... | 182,542 | 2,053 | 64,661 | 5,343 | 10,417 | 14,612 | 16,484 | 17,805 | 67,104 | 32,028 | 12,324 | 3,728 | 629 | 15 | - |
| 2d child ..................... | 147,737 | 37 | 17,579 | 280 | 1,150 | 3,082 | 5,335 | 7,732 | 57,377 | 45,150 | 20,484 | 6,172 | 902 | 36 | - |
| 3d child ..................... | 92,294 | - | 3,001 | 17 | 69 | 330 | 850 | 1,735 | 24,491 | 33,526 | 22,139 | 7,854 | 1,246 | 37 | - |
| 4th child .................... | 42,598 | - | 380 | - | 5 | 17 | 96 | 262 | 7,127 | 14,312 | 13,196 | 6,339 | 1,208 | 36 | - |
| 5th child .................... | 17,386 | - | 56 | - | - | 2 | 16 | 38 | 1,737 | 5,157 | 5,890 | 3,607 | 910 | 29 | - |
| 6 th child .................... | 7,413 | - | 5 | - | 1 | - | 1 | 3 | 395 | 1,694 | 2,599 | 2,081 | 608 | 31 | - |
| 7th child .................... | 3,234 | - | 3 | - | - | - | 1 | 2 | 95 | 637 | 1,131 | 978 | 368 | 21 | 1 |
| 8 th child and over ....... | 2,940 | 13 | 1 | - | 117 | ${ }^{-}$ | ${ }^{-}$ | 1 | 30 | 289 | 791 | 1,130 | 645 | 52 | 2 |
| Not stated .................. | 2,880 | 13 | 740 | 61 | 117 | 176 | 205 | 181 | 948 | 672 | 337 | 137 | 31 | 2 |  |
| Puerto Rican .............. | 55,450 | 291 | 12,052 | 856 | 1,597 | 2,538 | 3,323 | 3,738 | 17,192 | 13,337 | 8,357 | 3,515 | 670 | 33 | 3 |
| 1st child .................... | 21,778 | 286 | 8,773 | 794 | 1,393 | 2,005 | 2,318 | 2,263 | 6,468 | 3,693 | 1,859 | 588 | 107 | 4 | - |
| 2d child ..................... | 17,024 | 3 | 2,553 | 49 | 168 | 446 | 813 | 1,077 | 6,112 | 4,372 | 2,816 | 1,012 | 150 | 6 | - |
| 3d child ..................... | 9,180 | - | 491 | 5 | 9 | 48 | 140 | 289 | 2,940 | 2,839 | 1,855 | 878 | 169 | 7 | 1 |
| 4th child .................... | 3,929 | - | 71 | - | 1 | 2 | 12 | 56 | 1,039 | 1,320 | 908 | 480 | 102 | 8 | 1 |
| 5th child .................... | 1,649 | - | 6 | - | - | 1 | 1 | 4 | 316 | 566 | 433 | 256 | 69 | 2 | 1 |
| 6th child .................... | 718 | - | - | - | - | - | - | - | 99 | 254 | 198 | 132 | 34 | 1 |  |
| 7th child .................... | 326 | - | - | - | - | - | - | - | 16 | 102 | 116 | 75 | 15 | 2 |  |
| 8th child and over ....... | 258 | - | ${ }^{-}$ |  | ${ }^{-}$ | ${ }^{-}$ | $\stackrel{-}{-}$ | - | 8 | 50 | 103 | 74 | 21 | 2 |  |
| Not stated ................. | 588 | 2 | 158 | 8 | 26 | 36 | 39 | 49 | 194 | 141 | 69 | 20 | 3 | 1 | - |
| Cuban ....................... | 12,887 | 24 | 927 | 51 | 101 | 175 | 255 | 345 | 2,520 | 3,609 | 3,835 | 1,697 | 264 | 11 | - |
| 1st child .................... | 5,633 | 24 | 759 | 49 | 92 | 153 | 204 | 261 | 1,515 | 1,683 | 1,194 | 408 | 48 | 2 | - |
| 2d child ..................... | 4,621 | - | 142 | 2 | 9 | 21 | 42 | 68 | 743 | 1,346 | 1,648 | 642 | 96 | 4 | - |
| 3d child ..................... | 1,898 | - | 18 | - | - | 1 | 5 | 12 | 195 | 447 | 738 | 427 | 70 | 3 | - |
| 4th child .................... | 486 | - | 6 | - | - | - | 2 | 4 | 49 | 89 | 180 | 133 | 27 | 2 | - |
| 5th child .................... | 139 | - | - | - | - | - | - | - | 12 | 26 | 37 | 50 | 14 | - |  |
| 6th child .................... | 42 | - | - | - | - | - | - | - | - | 6 | 13 | 19 | 4 | - |  |
| 7th child .................... | 17 | - | - | - | - | - | - | - | - | 3 | 5 | 7 | 2 | - | - |
| 8th child and over ....... | 21 | - | - | - | - | - | - | - | - | 3 | 11 | 6 | 1 | - | - |
| Not stated .................. | 30 | - | 2 | - | - | - | 2 | - | 6 | 6 | 9 | 5 | 2 | - | - |
| Central and South American $\qquad$ | 97,405 | 178 | 10,046 | 549 | 1,182 | 1,936 | 2,701 | 3,678 | 23,992 | 27,144 | 22,710 | 10,930 | 2,289 | 116 | - |
| 1st child .................... | 37,931 | 172 | 8,016 | 521 | 1,079 | 1,672 | 2,110 | 2,634 | 12,413 | 9,379 | 5,504 | 2,043 | 385 | 19 | - |
| 2d child ...................... | 31,083 | 4 | 1,675 | 25 | 86 | 233 | 491 | 840 | 7,900 | 9,708 | 7,935 | 3,306 | 534 | 21 | - |
| 3d child ..................... | 17,100 | - | 266 | 1 | 6 | 19 | 84 | 156 | 2,686 | 5,243 | 5,481 | 2,820 | 575 | 29 | - |
| 4th child .................... | 6,729 | - | 28 | - | - | 3 | 4 | 21 | 708 | 1,845 | 2,309 | 1,486 | 335 | 18 | - |
| 5th child .................... | 2,457 | - | 4 | - | - | - | 2 | 2 | 129 | 594 | 877 | 643 | 197 | 13 | - |
| 6th child .................... | 930 | - | 1 | - | - | - | . | 1 | 32 | 171 | 309 | 293 | 117 | 7 |  |
| 7th child .................... | 385 | - | - | - | - | - | - | - | 5 | 51 | 135 | 134 | 56 | 4 | - |
| 8th child and over ....... | 313 | - | 2 | - | - | 1 | 1 | - | 2 | 17 | 62 | 147 | 79 | 4 | - |
| Not stated ................. | 477 | 2 | 54 | 2 | 11 | 8 | 9 | 24 | 117 | 136 | 98 | 58 | 11 | 1 | - |
| Other and unknown Hispanic $\qquad$ | 45,001 | 237 | 8,671 | 621 | 1,231 | 1,900 | 2,275 | 2,644 | 13,144 | 11,114 | 7,746 | 3,433 | 635 | 20 | 1 |
| 1st child .................... | 18,508 | 231 | 6,612 | 596 | 1,102 | 1,568 | 1,665 | 1,681 | 5,506 | 3,389 | 1,927 | 701 | 139 | 3 | - |
| 2d child ..................... | 13,887 | 4 | 1,686 | 21 | 120 | 283 | 503 | 759 | 4,627 | 3,806 | 2,585 | 1,025 | 147 | 6 | 1 |
| 3d child ..................... | 7,400 | - | 266 | - | 6 | 33 | 71 | 156 | 2,114 | 2,330 | 1,746 | 801 | 141 | 2 | - |
| 4th child .................... | 3,040 | - | 42 | - | 1 | 3 | 13 | 25 | 606 | 993 | 862 | 466 | 67 | 4 | - |
| 5 th child ..................... | 1,129 | - | 10 | - | - | 1 | 4 | 5 | 156 | 344 | 349 | 211 | 58 | 1 | - |
| 6th child .................... | 422 | - | - | - | - | - | - | - | 35 | 120 | 129 | 95 | 41 | 2 | - |
| 7th child .................... | 179 | - | - | - | - | - | - | - | 10 | 53 | 51 | 48 | 17 | - | - |
| 8th child and over ....... | 165 | - | $5{ }^{-}$ | - | - | - | - | ${ }^{-}$ | 4 | 21 | 50 | 67 | 21 | 2 | - |
| Not stated ................. | 271 | 2 | 55 | 4 | 2 | 12 | 19 | 18 | 86 | 58 | 47 | 19 | 4 | - | - |

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, 1997 --Con.
[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only]

| Live-birth order and origin of mother | All ages | Age of mother |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under <br> 15 years | 15-19 years |  |  |  |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | 35-39 years | 40-44 years | 45-49 years | $\begin{aligned} & 50-54 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{gathered} 15 \\ \text { years } \end{gathered}$ | $\begin{gathered} 16 \\ \text { years } \end{gathered}$ | 17 years | $\begin{gathered} 18 \\ \text { years } \end{gathered}$ | $\begin{gathered} 19 \\ \text { years } \end{gathered}$ |  |  |  |  |  |  |  |


| Non-Hispanic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total 1 | 3,115,174 | 7,197 | 360,159 | 18,308 | 40,627 | 71,038 | 101,715 | 128,471 | 715,227 | 865,694 | 749,555 | 350,343 | 64,064 | 2,807 | 128 |
| 1st child | 1,286,028 | 6,990 | 282,227 | 17,457 | 36,975 | 60,357 | 78,658 | 88,780 | 336,574 | 343,614 | 220,663 | 81,033 | 14,246 | 648 | 33 |
| 2d child | 1,022,467 | 162 | 63,569 | 717 | 3,237 | 9,276 | 19,222 | 31,117 | 242,485 | 300,685 | 279,372 | 117,058 | 18,466 | 634 | 36 |
| 3d child | 492,203 | 1 | 10,984 | 37 | 223 | 952 | 2,962 | 6,810 | 94,668 | 140,175 | 151,722 | 80,916 | 13,255 | 467 | 15 |
| 4th child | 181,452 | - | 1,417 | 3 | 8 | 92 | 328 | 986 | 28,357 | 49,863 | 56,763 | 37,272 | 7,420 | 349 | 11 |
| 5th child .................... | 65,499 |  | 197 | - | 1 | 12 | 37 | 147 | 7,583 | 17,206 | 20,792 | 15,580 | 3,931 | 203 | 7 |
| 6th child | 27,489 |  | 32 | - | 1 | , | 11 | 19 | 1,988 | 6,579 | 8,934 | 7,563 | 2,262 | 127 | 4 |
| 7th child | 12,818 |  | 7 | - |  | 1 | 2 | 4 | 452 | 2,583 | 4,294 | 3,982 | 1,402 | 92 | 6 |
| 8th child and over ....... | 13,708 |  | 1 | - |  |  | 1 |  | 158 | 1,504 | 3,807 | 5,231 | 2,735 | 256 | 16 |
| Not stated .................. | 13,510 | 44 | 1,725 | 94 | 182 | 347 | 494 | 608 | 2,962 | 3,485 | 3,208 | 1,708 | 347 | 31 |  |
| White ........................ | 2,333,363 | 2,240 | 219,857 | 8,244 | 21,536 | 42,088 | 63,787 | 84,202 | 500,928 | 674,498 | 603,304 | 280,393 | 49,908 | 2,130 | 105 |
| 1st child | 974,855 | 2,200 | 180,306 | 8,027 | 20,268 | 37,591 | 52,292 | 62,128 | 251,763 | 280,489 | 181,209 | 66,624 | 11,698 | 534 | 32 |
| 2d child | 788,759 | 28 | 33,849 | 169 | 1,129 | 4,015 | 10,056 | 18,480 | 172,863 | 240,936 | 230,324 | 95,384 | 14,827 | 517 | 31 |
| 3d child | 366,267 |  | 4,310 | 4 | 47 | 274 | 1,062 | 2,923 | 57,925 | 104,830 | 122,959 | 65,595 | 10,282 | 352 | 14 |
| 4th child | 124,488 |  | 373 | - | 4 | 16 | 83 | 270 | 13,353 | 32,645 | 43,182 | 29,095 | 5,573 | 256 | 11 |
| 5th child | 40,139 |  | 41 | - |  | 2 | 11 | 28 | 2,597 | 9,169 | 14,059 | 11,354 | 2,765 | 149 | 5 |
| 6th child | 15,512 |  | 6 | - |  | - | 2 | 4 | 486 | 2,804 | 5,320 | 5,224 | 1,585 | 83 | 4 |
| 7th child | 6,731 | - | - | - |  | - | - |  | 72 | 802 | 2,227 | 2,596 | 975 | 57 | 2 |
| 8th child and over ....... | 7,344 | - | - | - | - | - | - | - | 49 | 382 | 1,578 | 3,223 | 1,946 | 160 | 6 |
| Not stated .................. | 9,268 | 12 | 972 | 44 | 88 | 190 | 281 | 369 | 1,820 | 2,441 | 2,446 | 1,298 | 257 | 22 |  |
| Black | 581,431 | 4,613 | 125,343 | 9,163 | 17,235 | 25,940 | 33,870 | 39,135 | 177,494 | 130,942 | 90,637 | 43,434 | 8,624 | 341 | 3 |
| 1st child .................... | 223,429 | 4,460 | 90,304 | 8,593 | 15,028 | 20,232 | 23,283 | 23,168 | 65,556 | 34,171 | 19,832 | 7,713 | 1,346 | 47 |  |
| 2d child | 169,163 | 121 | 27,035 | 492 | 1,962 | 4,842 | 8,377 | 11,362 | 58,760 | 41,490 | 27,860 | 11,891 | 1,949 | 56 | 1 |
| 3d child ..................... | 98,781 | 1 | 6,214 | 29 | 158 | 648 | 1,760 | 3,619 | 32,470 | 28,037 | 20,300 | 9,874 | 1,815 | 70 |  |
| 4th child ..................... | 46,602 |  | 948 | 2 |  | 65 | 222 | 655 | 13,507 | 14,223 | 10,549 | 6,022 | 1,293 | 60 |  |
| 5 th child | 20,908 | - | 146 | - | 1 | 10 | 25 | 110 | 4,482 | 6,745 | 5,377 | 3,276 | 849 | 31 | 2 |
| 6th child .................... | 9,742 | - | 22 | - | 1 | - | 8 | 13 | 1,348 | 3,153 | 2,876 | 1,830 | 486 | 27 |  |
| 7th child .................... | 4,821 | - | 6 | - | - | 1 | 2 | 3 | 333 | 1,475 | 1,604 | 1,077 | 306 | 20 |  |
| 8th child and over ....... | 4,757 | - | 1 | ${ }^{-}$ | - | - | 1 | - | 102 | 910 | 1,732 | 1,467 | 519 | 26 |  |
| Not stated .................. | 3,228 | 31 | 667 | 47 | 81 | 142 | 192 | 205 | 936 | 738 | 507 | 284 | 61 | 4 |  |

- Quantity zero.

Quantity zero.
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, 1997
[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 | 15-44 <br> years ${ }^{1}$ | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 15-19 years |  |  |  | 20-24 years | 25-29 <br> years | 30-34 <br> years | 35-39 <br> years | 40-44 <br> years | $\begin{gathered} 45-49 \\ \text { years }^{2} \end{gathered}$ |
|  |  | years | Total | $15-17$ <br> years | 18-19 years |  |  |  |  |  |  |
| Hispanic |  |  |  |  |  |  |  |  |  |  |  |
| Total ................................. | 102.8 | 2.3 | 97.4 | 66.3 | 144.3 | 184.2 | 161.7 | 97.9 | 45.0 | 10.8 | 0.6 |
| 1st child ............................ | 38.8 | 2.3 | 73.8 | 57.2 | 98.9 | 79.8 | 43.2 | 18.5 | 6.5 | 1.4 | 0.1 |
| 2d child .............................. | 31.2 | 0.0 | 19.6 | 8.3 | 36.8 | 65.8 | 55.5 | 28.7 | 10.6 | 1.9 | 0.1 |
| 3d child .............................. | 18.6 | * | 3.4 | 0.8 | 7.3 | 27.8 | 38.2 | 25.9 | 11.2 | 2.3 | 0.1 |
| 4th child ............................. | 8.3 | * | 0.4 | 0.0 | 1.0 | 8.2 | 16.0 | 14.1 | 7.8 | 1.8 | 0.1 |
| 5th child ............................ | 3.3 | * | 0.1 | * | 0.2 | 2.0 | 5.8 | 6.1 | 4.2 | 1.3 | 0.1 |
| 6th and 7th child ................. | 2.0 | * | * | * | * | 0.6 | 2.7 | 3.8 | 3.4 | 1.3 | 0.1 |
| 8th child and over ................ | 0.5 | * | * | * | * | 0.0 | 0.3 | 0.8 | 1.2 | 0.8 | 0.1 |
| Mexican ............................ | 116.6 | 2.5 | 112.4 | 77.3 | 165.1 | 204.9 | 176.3 | 104.2 | 49.0 | 11.6 | 0.6 |
| 1st child ............................ | 42.9 | 2.5 | 84.8 | 66.5 | 112.4 | 86.8 | 42.5 | 16.3 | 5.7 | 1.1 | * |
| 2d child ............................. | 34.7 | 0.0 | 23.1 | 9.9 | 42.8 | 74.2 | 60.0 | 27.2 | 9.5 | 1.6 | 0.1 |
| 3d child .............................. | 21.7 | * | 3.9 | 0.9 | 8.5 | 31.7 | 44.5 | 29.4 | 12.1 | 2.2 | 0.1 |
| 4th child ............................ | 10.0 | * | 0.5 | 0.0 | 1.2 | 9.2 | 19.0 | 17.5 | 9.7 | 2.1 | 0.1 |
| 5th child ............................. | 4.1 | * | 0.1 | * | 0.2 | 2.2 | 6.8 | 7.8 | 5.5 | 1.6 | 0.1 |
| 6th and 7th child ................. | 2.5 | * | * | * | * | 0.6 | 3.1 | 4.9 | 4.7 | 1.7 | 0.1 |
| 8th child and over ................ | 0.7 | * | * | * | * | 0.0 | 0.4 | 1.0 | 1.7 | 1.1 | 0.1 |
| Puerto Rican ...................... | 71.7 | 1.8 | 74.9 | 48.9 | 120.0 | 154.0 | 109.3 | 59.1 | 27.0 | 6.2 | 0.5 |
| 1st child | 28.4 | 1.8 | 55.2 | 41.6 | 78.8 | 58.6 | 30.6 | 13.3 | 4.5 | 1.0 | * |
| 2d child .............................. | 22.2 | * | 16.1 | 6.6 | 32.5 | 55.4 | 36.2 | 20.1 | 7.8 | 1.4 | * |
| 3d child .............................. | 12.0 | * | 3.1 | 0.6 | 7.4 | 26.6 | 23.5 | 13.2 | 6.8 | 1.6 | * |
| 4th child ............................. | 5.1 | * | 0.4 | * | 1.2 | 9.4 | 10.9 | 6.5 | 3.7 | 0.9 | * |
| 5th child ............................. | 2.2 | * | * | * | * | 2.9 | 4.7 | 3.1 | 2.0 | 0.6 | * |
| 6th and 7th child ................. | 1.4 | * | * | * | * | 1.0 | 2.9 | 2.2 | 1.6 | 0.5 | * |
| 8th child and over ................ | 0.3 | * | * | * | * | * | 0.4 | 0.7 | 0.6 | 0.2 | * |
| Cuban ............................... | 57.4 | 1.0 | 38.3 | 25.3 | 53.4 | 82.7 | 123.5 | 75.7 | 35.1 | 6.3 | * |
| 1st child | 25.1 | 1.0 | 31.5 | 22.7 | 41.5 | 49.8 | 57.7 | 23.6 | 8.4 | 1.1 | * |
| 2d child .............................. | 20.6 | * | 5.9 | 2.5 | 9.8 | 24.4 | 46.1 | 32.6 | 13.3 | 2.3 | * |
| 3d child .............................. | 8.5 | * | * | * | * | 6.4 | 15.3 | 14.6 | 8.8 | 1.7 | * |
| 4th child ............................. | 2.2 | * | * | * | * | 1.6 | 3.0 | 3.6 | 2.7 | 0.6 | * |
| 5th child ............................ | 0.6 | * | * | * | * | * | 0.9 | 0.7 | 1.0 | * | * |
| 6 th and 7th child ................. | 0.3 | * | * | * | * | * | * | * | 0.5 | * | * |
| 8th child and over ............... | 0.1 | * | * | * | * | * | * | * | * | * | * |
| Other Hispanic ${ }^{3} \ldots \ldots . . . . . . . . .$. | 87.6 | 2.0 | 72.1 | 48.3 | 106.8 | 146.4 | 147.9 | 104.4 | 45.4 | 11.8 | 0.7 |
| 1st child ............................ | 34.9 | 1.9 | 56.7 | 42.8 | 76.9 | 71.0 | 49.6 | 25.6 | 8.7 | 2.1 | 0.1 |
| 2d child .............................. | 27.8 | * | 13.0 | 5.0 | 24.7 | 49.7 | 52.5 | 36.2 | 13.8 | 2.8 | 0.1 |
| 3d child ............................. | 15.1 | * | 2.1 | 0.4 | 4.4 | 19.0 | 29.4 | 24.9 | 11.5 | 2.9 | 0.2 |
| 4th child ............................ | * | * | * | * | * | * | * | * | * | 2. | 0.2 |
| 5th child ............................ | 2.2 | * | * | * | * | 1.1 | 3.6 | 4.2 | 2.7 | 1.0 | * |
| 6th and 7th child ................. | 1.2 | * | * | * | * | 0.3 | 1.5 | 2.1 | 1.8 | 0.9 | * |
| 8th child and over ............... | 0.3 | * | * | * | * | * | 0.1 | 0.4 | 0.7 | 0.4 | * |

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, 1997 --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 | $\begin{gathered} 15-44 \\ \text { years }^{1} \end{gathered}$ | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 15-19 years |  |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-44 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 45-49 \\ \text { years }^{2} \end{gathered}$ |
|  |  | years | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $18-19$ years |  |  |  |  |  |  |
| Non-Hispanic ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |  |
| Total ${ }^{5}$............................... | 60.1 | 0.9 | 45.5 | 27.0 | 74.3 | 98.6 | 107.0 | 83.5 | 35.1 | 6.7 | 0.4 |
| 1st child ............................. | 24.9 | 0.9 | 35.8 | 23.9 | 54.3 | 46.6 | 42.7 | 24.7 | 8.2 | 1.5 | 0.1 |
| 2d child .............................. | 19.8 | 0.0 | 8.1 | 2.8 | 16.3 | 33.6 | 37.3 | 31.3 | 11.8 | 1.9 | 0.1 |
| 3d child .............................. | 9.5 | * | 1.4 | 0.3 | 3.2 | 13.1 | 17.4 | 17.0 | 8.2 | 1.4 | 0.1 |
| 4th child ............................. | 3.5 | * | 0.2 | 0.0 | 0.4 | 3.9 | 6.2 | 6.3 | 3.7 | 0.8 | 0.0 |
| 5th child | 1.3 | * | 0.0 | * | 0.1 | 1.0 | 2.1 | 2.3 | 1.6 | 0.4 | 0.0 |
| 6 th and 7th child ................. | 0.8 | * | 0.0 | * | 0.0 | 0.3 | 1.1 | 1.5 | 1.2 | 0.4 | 0.0 |
| 8th child and over ................ | 0.3 | * | * | * | * | 0.0 | 0.2 | 0.4 | 0.5 | 0.3 | 0.0 |
| White ................................ | 57.0 | 0.4 | 36.0 | 19.4 | 61.9 | 89.8 | 107.2 | 85.2 | 34.9 | 6.4 | 0.3 |
| 1st child ............................. | 23.9 | 0.4 | 29.7 | 17.8 | 48.0 | 45.3 | 44.8 | 25.7 | 8.3 | 1.5 | 0.1 |
| 2d child .............................. | 19.3 | 0.0 | 5.6 | 1.4 | 12.0 | 31.1 | 38.4 | 32.6 | 11.9 | 1.9 | 0.1 |
| 3d child ............................. | 9.0 | * | 0.7 | 0.1 | 1.7 | 10.4 | 16.7 | 17.4 | 8.2 | 1.3 | 0.1 |
| 4th child ............................. | 3.1 | * | 0.1 | 0.0 | 0.2 | 2.4 | 5.2 | 6.1 | 3.6 | 0.7 | 0.0 |
| 5th child ............................. | 1.0 | * | 0.0 | * | 0.0 | 0.5 | 1.5 | 2.0 | 1.4 | 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 | 0.2 | 0.4 | 0.3 | 0.0 |
| Black ............................. | 72.4 | 3.4 | 90.8 | 62.6 | 134.0 | 143.0 | 101.9 | 65.8 | 30.3 | 6.6 | 0.3 |
| 1st child ............................. | 28.0 | 3.3 | 65.8 | 52.8 | 85.7 | 53.1 | 26.7 | 14.5 | 5.4 | 1.0 | 0.0 |
| 2d child ............................. | 21.2 | 0.1 | 19.7 | 8.8 | 36.4 | 47.6 | 32.5 | 20.3 | 8.4 | 1.5 | 0.1 |
| 3d child ................................... | 12.4 | * | 4.5 | 1.0 | 9.9 | 26.3 | 21.9 | 14.8 | 6.9 | 1.4 | 0.1 |
| 4th child ............................. | 5.8 | * | 0.7 | 0.1 | 1.6 | 10.9 | 11.1 | 7.7 | 4.2 | 1.0 | 0.1 |
| 5th child ............................. | 2.6 | * | 0.1 | * | 0.3 | 3.6 | 5.3 | 3.9 | 2.3 | 0.7 | 0.0 |
| 6th and 7th child .................. | 1.8 | * | 0.0 | * | 0.0 | 1.4 | 3.6 | 3.3 | 2.1 | 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.
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.
4 Includes origin not stated.
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, 1989-97
[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]

| Year and origin/race of mother | Total fertility rate | Fertility rate | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 10-14 years | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | $35-39$years | 40-44 years | $\begin{aligned} & 45-49 \\ & \text { years }^{2} \end{aligned}$ |
|  |  |  |  | Total | $15-17$ <br> years | 18-19 <br> years |  |  |  |  |  |  |
| All origins |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 .................... | 2,032.5 | 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 | 2,019.0 | 65.6 | 1.3 | 56.8 | 36.0 | 89.1 | 109.8 | 112.2 | 82.5 | 34.3 | 6.6 | 0.3 |
| 1994 | 2,036.0 | 66.7 | 1.4 | 58.9 | 37.6 | 91.5 | 111.1 | 113.9 | 81.5 | 33.7 | 6.4 | 0.3 |
| 1993 | 2,046.0 | 67.6 | 1.4 | 59.6 | 37.8 | 92.1 | 112.6 | 115.5 | 80.8 | 32.9 | 6.1 | 0.3 |
| 1992 | 2,065.0 | 68.9 | 1.4 | 60.7 | 37.8 | 94.5 | 114.6 | 117.4 | 80.2 | 32.5 | 5.9 | 0.3 |
| 1991 | 2,073.0 | 69.6 | 1.4 | 62.1 | 38.7 | 94.4 | 115.7 | 118.2 | 79.5 | 32.0 | 5.5 | 0.2 |
| 1990 | 2,081.0 | 70.9 | 1.4 | 59.9 | 37.5 | 88.6 | 116.5 | 120.2 | 80.8 | 31.7 | 5.5 | 0.2 |
| 1989 | 2,014.0 | 69.2 | 1.4 | 57.3 | 36.4 | 84.2 | 113.8 | 117.6 | 77.4 | 29.9 | 5.2 | 0.2 |
| Total Hispanic |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 | 2,999.5 | 102.8 | 2.3 | 97.4 | 66.3 | 144.3 | 184.2 | 161.7 | 97.9 | 45.0 | 10.8 | 0.6 |
| 1996 | 3,047.5 | 104.9 | 2.6 | 101.8 | 69.0 | 151.1 | 189.5 | 161.0 | 98.1 | 45.1 | 10.8 | 0.6 |
| 1995 | 3,019.5 | 105.0 | 2.7 | 106.7 | 72.9 | 157.9 | 188.5 | 153.8 | 95.9 | 44.9 | 10.8 | 0.6 |
| 1994 | 3,014.0 | 105.6 | 2.7 | 107.7 | 74.0 | 158.0 | 188.2 | 153.2 | 95.4 | 44.3 | 10.7 | 0.6 |
| 1993 | 3,020.5 | 106.9 | 2.7 | 106.8 | 71.7 | 159.1 | 188.3 | 154.0 | 96.4 | 44.7 | 10.6 | 0.6 |
| 19923 | 3,043.0 | 108.6 | 2.6 | 107.1 | 71.4 | 159.7 | 190.6 | 154.4 | 96.8 | 45.6 | 10.9 | 0.6 |
| 19913 | 3,002.5 | 108.1 | 2.4 | 106.7 | 70.6 | 158.5 | 186.3 | 152.8 | 96.1 | 44.9 | 10.7 | 0.6 |
| 19904 | 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 |
| 19895 | 2,903.5 | 104.9 | 2.3 | 100.8 | -- | --- | 184.4 | 146.6 | 92.1 | 43.5 | 10.4 | 0.6 |
| Mexican |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 | 3,307.5 | 116.6 | 2.5 | 112.4 | 77.3 | 165.1 | 204.9 | 176.3 | 104.2 | 49.0 | 11.6 | 0.6 |
| 1996 | 3,353.5 | 119.3 | 2.8 | 120.7 | 83.4 | 174.3 | 206.3 | 176.9 | 103.7 | 47.6 | 12.0 | 0.7 |
| 1995 | 3,273.5 | 117.0 | 2.8 | 124.6 | 84.4 | 185.3 | 208.9 | 160.5 | 98.5 | 46.8 | 11.9 | 0.7 |
| 1994 | 3,211.5 | 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 |
| 19923 | 3,196.5 | 116.0 | 2.5 | 108.8 | --- | --- | 202.3 | 166.3 | 99.1 | 47.7 | 11.8 | 0.8 |
| 19913 | 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 |
| 19904 | 3,214.0 | 118.9 | 2.5 | 108.0 | 69.7 | 162.2 | 200.3 | 165.3 | 104.4 | 49.1 | 12.4 | 0.8 |
| 19895 | 2,916.5 | 106.6 | 2.0 | 94.5 | --- | --- | 184.3 | 153.7 | 96.1 | 41.0 | 11.1 | 0.6 |
| Puerto Rican |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 .......... | 2,164.0 | 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 | 2,245.5 | 75.7 | 3.0 | 89.0 | 61.2 | 139.2 | 151.5 | 107.2 | 64.8 | 27.7 | 5.6 | 0.3 |
| 1994 | 2,490.0 | 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 |
| 19923 | 2,644.5 | 89.9 | 3.5 | 110.4 | --- | --- | 204.9 | 106.6 | 66.7 | 30.0 | 6.5 | 0.3 |
| 19913 | 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 |
| 19904 | 2,301.0 | 82.9 | 2.9 | 101.6 | 71.6 | 141.6 | 150.1 | 109.9 | 62.8 | 26.2 | 6.2 | 0.5 |
| 19895 | 2,421.0 | 86.6 | 3.8 | 112.7 | . | . | 171.0 | 98.0 | 65.2 | 26.9 | 6.3 | 0.3 |
| Cuban |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 | 1,814.5 | 57.4 | 1.0 | 38.3 | 25.3 | 53.4 | 82.7 | 123.5 | 75.7 | 35.1 | 6.3 | * |
| 1996 | 1,774.5 | 58.9 | 0.9 | 34.0 | 19.8 | 54.5 | 82.5 | 110.7 | 85.9 | 34.3 | 6.4 | * |
| 1995 | 1,705.5 | 55.1 | * | 29.2 | 16.6 | 51.2 | 77.0 | 110.6 | 88.0 | 29.8 | 6.0 | * |
| 1994 | 1,680.5 | 55.9 | 0.6 | 40.2 | 23.1 | 77.4 | 72.5 | 98.4 | 87.6 | 31.3 | 5.5 | * |
| 1993 | 1,632.5 | 55.5 | * | 33.0 | 20.4 | 49.7 | 68.9 | 102.0 | 86.9 | 31.0 | 4.7 | * |
| 19923 | 1,485.5 | 50.3 | 1.0 | 26.3 | --- | --- | 51.6 | 98.4 | 86.2 | 28.9 | 4.7 | 0.0 |
| 19913 | 1,385.5 | 49.1 | * | 27.7 | 17.5 | 41.3 | 61.2 | 88.8 | 68.2 | 26.7 | 4.0 | * |
| 19904 | 1,459.5 | 52.6 | * | 30.3 | 18.2 | 46.1 | 64.6 | 95.4 | 67.6 | 28.2 | 4.9 | * |
| 19895 | 1,479.0 | 49.8 | 0.5 | 25.1 | --- | --- | 64.2 | 101.8 | 73.7 | 27.2 | 3.0 | 0.3 |

[^9]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, 1989-97 --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]

| Year and origin/race of mother | Total fertilty rate | Fertility rate | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 15-19 years |  |  |  | 20-24 years | 25-29 <br> years | 30-34 years | $35-39$ <br> years | 40-44 years | $\begin{gathered} 45-49 \\ \text { years }^{2} \end{gathered}$ |
|  |  |  | years | Total | $15-17$ <br> years | $18-19$ <br> years |  |  |  |  |  |  |
| Other Hispanic 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 | 2,762.0 | 90.2 | 2.4 | 69.8 | 46.6 | 103.1 | 166.5 | 146.3 | 105.3 | 50.4 | 11.0 | 0.7 |
| 1995 | 2,834.0 | 94.5 | 2.4 | 77.5 | 54.8 | 107.8 | 158.3 | 161.8 | 103.7 | 50.9 | 11.6 | 0.6 |
| 1994 | 2,855.5 | 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 |
| 19923 | 3,076.0 | 107.0 | 2.5 | 112.1 | --- | --- | 172.9 | 157.8 | 106.6 | 50.3 | 12.5 | 0.5 |
| 19913 ............................ | 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 |
| 19904 ............................ | 2,877.0 | 102.7 | 2.1 | 86.0 | 57.2 | 123.8 | 162.9 | 155.8 | 106.9 | 49.4 | 11.6 | 0.7 |
| 19895 ............................. | 2,683.0 | 95.8 | 1.7 | 66.4 | --- | --- | 159.2 | 150.4 | 85.1 | 60.3 | 12.7 | 0.8 |
| Non-Hispanic ${ }^{7}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 1,881.0 | 60.8 | 1.1 | 49.6 | 30.7 | 79.0 | 98.5 | 106.4 | 80.9 | 33.2 | 6.2 | 0.3 |
| 1994 | 1,905.0 | 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 |
| 19923 | 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 |
| 19913 | 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 |
| 19904 | 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 |
| 19895 ........................... | 1,921.0 | 65.7 | 1.3 | 53.4 | --- | --- | 107.8 | 113.4 | 74.7 | 28.6 | 4.8 | 0.2 |
| White |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 1,786.5 | 57.6 | 0.4 | 39.3 | 22.0 | 66.1 | 90.0 | 106.5 | 82.0 | 32.9 | 5.9 | 0.3 |
| 1994 ............................... | 1,792.0 | 58.3 | 0.5 | 40.4 | 22.8 | 67.4 | 90.9 | 107.9 | 80.7 | 32.1 | 5.7 | 0.2 |
| 1993 ................................ | 1,792.5 | 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 |
| 19913 | 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 |
| 19904 | 1,850.5 | 62.8 | 0.5 | 42.5 | 23.2 | 66.6 | 97.5 | 115.3 | 79.4 | 30.0 | 4.7 | 0.2 |
| 19895 | 1,770.0 | 60.5 | 0.4 | 39.9 | --- | --- | 94.7 | 111.7 | 75.0 | 27.8 | 4.3 | 0.2 |
| Black |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997 | 2,210.5 | 72.4 | 3.4 | 90.8 | 62.6 | 134.0 | 143.0 | 101.9 | 65.8 | 30.3 | 6.6 | 0.3 |
| 1996 | 2,204.0 | 72.5 | 3.8 | 94.2 | 66.6 | 136.6 | 140.9 | 100.8 | 64.9 | 29.7 | 6.2 | 0.3 |
| 1995 | 2,245.0 | 74.5 | 4.3 | 99.3 | 72.1 | 141.9 | 141.7 | 102.0 | 65.9 | 29.4 | 6.1 | 0.3 |
| 1994 | 2,365.0 | 79.0 | 4.7 | 107.7 | 78.6 | 152.9 | 150.3 | 107.0 | 67.5 | 29.5 | 6.0 | 0.3 |
| 1993 | 2,454.5 | 82.7 | 4.7 | 112.2 | 82.5 | 156.7 | 157.4 | 111.5 | 69.0 | 29.8 | 6.0 | 0.3 |
| 19923 ............................. | 2,514.0 | 85.5 | 4.8 | 116.0 | 83.9 | 162.9 | 163.0 | 114.6 | 69.1 | 29.4 | 5.7 | 0.2 |
| 19913 | 2,551.0 | 87.6 | 4.9 | 118.9 | 86.7 | 163.1 | 166.1 | 116.3 | 69.3 | 28.9 | 5.6 | 0.2 |
| 19904 | 2,547.5 | 89.0 | 5.0 | 116.2 | 84.9 | 157.5 | 165.1 | 118.4 | 70.2 | 28.7 | 5.6 | 0.3 |
| 19895 ............................ | 2,424.0 | 84.8 | 5.2 | 111.9 | --- | --- | 156.3 | 113.8 | 65.7 | 26.3 | 5.3 | 0.3 |

* Figure does not meet standards of reliability or precision.
--- Data not available.
0.0 Quantity more than zero but less that 0.05 .

1 Rates computed by relating total births, regardless of age of mother, to women 15-44 years.
2 Beginning 1997, rates computed by relating births to women aged 45-54 years to women aged 45-49 years.
3 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.
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 and each State, Puerto Rico, Virgin Islands, Guam, and American Samoa, 1997
[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]

|  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

[^10]Table 11. Live births by race of mother: United States and each State, Puerto Rico, Virgin Islands, Guam, and American Samoa, 1997
[By place of residence]

| State | Number |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | All races | White | Black | American Indian ${ }^{1}$ | Asian or Pacific Islander |
| United States ${ }^{2}$............................. | 3,880,894 | 3,072,640 | 599,913 | 38,572 | 169,769 |
| Alabama | 60,914 | 40,437 | 19,830 | 139 | 508 |
| Alaska ....................................... | 9,947 | 6,592 | 457 | 2,400 | 498 |
| Arizona ...................................... | 75,699 | 66,266 | 2,500 | 5,319 | 1,614 |
| Arkansas ................................... | 36,478 | 28,073 | 7,822 | 211 | 372 |
| California ................................... | 524,840 | 426,231 | 37,320 | 3,355 | 57,934 |
| Colorado .................................. | 56,533 | 51,714 | 2,584 | 590 | 1,645 |
| Connecticut .............................. | 43,109 | 36,197 | 5,370 | 111 | 1,431 |
| Delaware | 10,253 | 7,528 | 2,490 | 12 | 223 |
| District of Columbia ........... | 7,927 | 1,977 | 5,813 | 2 | 135 |
| Florida ........................................ | 192,383 | 144,047 | 43,536 | 717 | 4,083 |
| Georgia ...................................... | 118,221 | 75,602 | 39,715 | 205 | 2,699 |
| Hawaii | 17,393 | 4,481 | 578 | 187 | 12,147 |
| Idaho | 18,582 | 18,000 | 67 | 277 | 238 |
| Illinois | 180,803 | 138,517 | 35,466 | 248 | 6,572 |
| Indiana | 83,436 | 73,556 | 8,780 | 116 | 984 |
| lowa | 36,659 | 34,572 | 1,100 | 230 | 757 |
| Kansas | 37,289 | 33,265 | 2,803 | 330 | 891 |
| Kentucky | 53,203 | 47,929 | 4,648 | 91 | 535 |
| Louisiana ................................... | 66,025 | 37,648 | 27,134 | 288 | 955 |
| Maine ......................................... | 13,669 | 13,323 | 81 | 103 | 162 |
| Maryland | 70,215 | 44,471 | 22,933 | 204 | 2,607 |
| Massachusetts | 80,364 | 68,623 | 7,716 | 164 | 3,861 |
| Michigan | 133,714 | 105,805 | 24,286 | 768 | 2,855 |
| Minnesota | 64,499 | 57,127 | 3,330 | 1,138 | 2,904 |
| Mississippi | 41,533 | 22,024 | 18,967 | 194 | 348 |
| Missouri | 74,037 | 61,561 | 11,033 | 267 | 1,176 |
| Montana | 10,849 | 9,429 | 31 | 1,294 | 95 |
| Nebraska | 23,319 | 21,308 | 1,253 | 362 | 396 |
| Nevada | 26,911 | 22,857 | 2,129 | 446 | 1,479 |
| New Hampshire .......................... | 14,313 | 14,000 | 104 | 30 | 179 |
| New Jersey ................................. | 113,279 | 84,539 | 21,034 | 178 | 7,528 |
| New Mexico | 26,871 | 22,730 | 506 | 3,246 | 389 |
| New York | 257,238 | 184,613 | 55,214 | 595 | 16,816 |
| North Carolina | 107,015 | 75,880 | 27,477 | 1,586 | 2,072 |
| North Dakota ................................ | 8,353 | 7,396 | 84 | 775 | 98 |
| Ohio | 152,033 | 127,036 | 22,623 | 284 | 2,090 |
| Oklahoma | 48,269 | 38,013 | 4,746 | 4,640 | 870 |
| Oregon. | 43,809 | 40,235 | 936 | 746 | 1,892 |
| Pennsylvania .............................. | 144,224 | 120,215 | 20,407 | 276 | 3,326 |
| Rhode Island ............................... | 12,455 | 10,908 | 946 | 145 | 456 |
| South Carolina ............................. | 52,214 | 33,074 | 18,408 | 123 | 609 |
| South Dakota ............................ | 10,173 | 8,426 | 91 | 1,543 | 113 |
| Tennessee | 74,478 | 57,006 | 16,322 | 127 | 1,023 |
| Texas ......................................... | 333,974 | 284,321 | 39,484 | 794 | 9,375 |
| Utah | 43,059 | 40,893 | 260 | 663 | 1,243 |
| Vermont | 6,607 | 6,523 | 22 | 5 | 57 |
| Virginia | 91,862 | 66,726 | 21,073 | 202 | 3,861 |
| Washington | 78,190 | 67,635 | 3,181 | 1,729 | 5,645 |
| West Virginia ............................... | 20,730 | 19,851 | 747 | 17 | 115 |
| Wisconsin .................................. | 66,557 | 57,400 | 6,414 | 880 | 1,863 |
| Wyoming .................................... | 6,387 | 6,060 | 62 | 220 | 45 |
| Puerto Rico ................................. | 64,109 | 59,342 | 4,745 | --- | --- |
| Virgin Islands .............................. | 2,017 | 363 | 1,595 | 56 | 3 |
| Guam ......................................... | 4,309 | 421 | 70 | 2 | 3,816 |
| American Samoa ......................... | 1,634 | 8 | --- | --- | 1,626 |

[^11]Table 12. Live births by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States and each State, Puerto Rico, Virgin Islands, Guam, and American Samoa, 1997
[By place of residence]

| State | All origins | Origin of mother |  |  |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Hispanic |  |  |  |  |  | Non-Hispanic |  |  |  |
|  |  | Total | Mexican | Puerto <br> Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{1}$ | White | Black |  |
| United States ${ }^{2}$............... | 3,880,894 | 709,767 | 499,024 | 55,450 | 12,887 | 97,405 | 45,001 | 3,115,174 | 2,333,363 | 581,431 | 55,953 |
| Alabama ......................... | 60,914 | 1,056 | 724 | 88 | 13 | 179 | 52 | 59,830 | 39,402 | 19,798 | 28 |
| Alaska ........................... | 9,947 | 609 | 263 | 38 | 5 | 54 | 249 | 9,321 | 6,110 | 444 | 17 |
| Arizona ......................... | 75,699 | 28,472 | 27,286 | 174 | 59 | 493 | 460 | 46,256 | 37,860 | 2,375 | 971 |
| Arkansas ....................... | 36,478 | 1,542 | 1,254 | 31 | 4 | 211 | 42 | 34,866 | 26,506 | 7,799 | 70 |
| California ....................... | 524,840 | 248,948 | 215,493 | 1,927 | 793 | 25,243 | 5,492 | 273,347 | 177,863 | 36,109 | 2,545 |
| Colorado ........................ | 56,533 | 13,217 | 8,909 | 184 | 32 | 365 | 3,727 | 43,236 | 38,685 | 2,487 | 80 |
| Connecticut ................... | 43,109 | 5,709 | 373 | 3,868 | 78 | 1,107 | 283 | 34,769 | 28,433 | 4,896 | 2,631 |
| Delaware | 10,253 | 637 | 295 | 215 | 7 | 107 | 13 | 9,560 | 6,864 | 2,462 | 56 |
| District of Columbia .......... | 7,927 | 694 | 46 | 16 | 4 | 574 | 54 | 7,084 | 1,274 | 5,677 | 149 |
| Florida ........................... | 192,383 | 37,369 | 7,818 | 6,907 | 8,778 | 12,366 | 1,500 | 154,888 | 107,757 | 42,546 | 126 |
| Georgia | 118,221 | 7,164 | 5,402 | 424 | 98 | 992 | 248 | 110,052 | 67,874 | 39,404 | 1,005 |
| Hawaii. | 17,393 | 2,147 | 424 | 666 | 9 | 83 | 965 | 15,202 | 3,766 | 550 | 44 |
| Idaho | 18,582 | 2,365 | 2,046 | 20 | 5 | 77 | 217 | 15,932 | 15,387 | 63 | 285 |
| Illinois | 180,803 | 33,171 | 27,366 | 2,850 | 201 | 988 | 1,766 | 147,556 | 105,487 | 35,256 | 76 |
| Indiana .......................... | 83,436 | 3,409 | 2,651 | 306 | 22 | 210 | 220 | 79,672 | 69,840 | 8,749 | 355 |
| lowa .............................. | 36,659 | 1,603 | 1,296 | 29 | 8 | 179 | 91 | 34,673 | 32,685 | 1,049 | 383 |
| Kansas .......................... | 37,289 | 3,553 | 2,981 | 81 | 20 | 190 | 281 | 33,385 | 29,430 | 2,766 | 351 |
| Kentucky ....................... | 53,203 | 727 | 488 | 79 | 30 | 78 | 52 | 52,455 | 47,230 | 4,630 | 21 |
| Louisiana ....................... | 66,025 | 1,263 | 469 | 83 | 61 | 146 | 504 | 64,738 | 36,445 | 27,097 | 24 |
| Maine ............................ | 13,669 | 121 | 21 | 11 | 1 | 21 | 67 | 12,977 | 12,656 | 68 | 571 |
| Maryland | 70,215 | 3,274 | 533 | 240 | 55 | 1,640 | 806 | 66,093 | 40,890 | 22,490 | 848 |
| Massachusetts ............... | 80,364 | 8,235 | 282 | 4,386 | 90 | 3,152 | 325 | 71,645 | 61,446 | 6,208 | 484 |
| Michigan .. | 133,714 | 5,454 | 3,971 | 399 | 67 | 333 | 684 | 121,226 | 93,875 | 23,957 | 7,034 |
| Minnesota ....................... | 64,499 | 2,625 | 2,064 | 87 | 11 | 266 | 197 | 58,498 | 51,234 | 3,284 | 3,376 |
| Mississippi | 41,533 | 328 | 154 | 17 | 12 | 20 | 125 | 41,165 | 21,663 | 18,961 | 40 |
| Missouri .... | 74,037 | 1,758 | 1,298 | 78 | 27 | 191 | 164 | 72,209 | 59,788 | 10,999 | 70 |
| Montana ........................ | 10,849 | 302 | 168 | 11 | 4 | 9 | 110 | 10,198 | 8,818 | 18 | 349 |
| Nebraska ....................... | 23,319 | 1,978 | 1,563 | 22 | 6 | 219 | 168 | 20,800 | 18,817 | 1,236 | 541 |
| Nevada | 26,911 | 7,713 | 6,201 | 163 | 136 | 718 | 495 | 18,998 | 15,121 | 2,064 | 200 |
| New Hampshire ................ | 14,313 | 228 | 64 | 64 | 2 | 27 | 71 | 13,653 | 13,350 | 96 | 432 |
| New Jersey | 113,279 | 19,635 | 2,399 | 6,935 | 927 | 9,107 | 267 | 93,097 | 66,168 | 19,302 | 547 |
| New Mexico .................... | 26,871 | 13,322 | 4,475 | 48 | 50 | 91 | 8,658 | 13,545 | 9,545 | 477 | 4 |
| New York ... | 257,238 | 50,720 | 6,091 | 15,434 | 496 | 23,653 | 5,046 | 181,946 | 117,641 | 47,172 | 24,572 |
| North Carolina ................. | 107,015 | 6,906 | 5,069 | 499 | 91 | 847 | 400 | 100,090 | 69,102 | 27,376 | 19 |
| North Dakota .................. | 8,353 | 170 | 110 | 12 | 2 | 12 | 34 | 7,940 | 7,100 | 80 | 243 |
| Ohio .............................. | 152,033 | 3,432 | 1,631 | 1,195 | 42 | 299 | 265 | 147,909 | 123,489 | 22,120 | 692 |
| Oklahoma ....................... | 48,269 | 3,226 | 2,474 | 98 | 14 | 116 | 524 | 44,828 | 34,750 | 4,676 | 215 |
| Oregon .......................... | 43,809 | 5,854 | 5,441 | 55 | 23 | 247 | 88 | 37,856 | 34,369 | 914 | 99 |
| Pennsylvania .................. | 144,224 | 6,623 | 834 | 4,536 | 99 | 560 | 594 | 136,794 | 113,297 | 19,947 | 807 |
| Rhode Island ................... | 12,455 | 1,780 | 112 | 608 | 12 | 944 | 104 | 9,061 | 7,742 | 777 | 1,614 |
| South Carolina ................ | 52,214 | 1,129 | 739 | 120 | 11 | 178 | 81 | 51,035 | 31,971 | 18,382 | 50 |
| South Dakota ................. | 10,173 | 141 | 94 | 7 | 3 | 21 | 16 | 10,013 | 8,284 | 89 | 19 |
| Tennessee ..................... | 74,478 | 1,721 | 1,121 | 155 | 34 | 175 | 236 | 72,717 | 55,288 | 16,297 | 40 |
| Texas ............................ | 333,974 | 146,580 | 131,456 | 916 | 276 | 7,013 | 6,919 | 186,485 | 137,580 | 38,928 | 909 |
| Utah | 43,059 | 4,298 | 3,346 | 66 | 12 | 488 | 386 | 38,627 | 36,534 | 242 | 134 |
| Vermont ......................... | 6,607 | 22 | 6 | 8 | --- | 3 | 5 | 6,388 | 6,305 | 22 | 197 |
| Virginia .......................... | 91,862 | 5,374 | 1,185 | 496 | 96 | 3,009 | 588 | 86,391 | 61,428 | 20,956 | 97 |
| Washington .................... | 78,190 | 9,336 | 7,700 | 180 | 31 | 225 | 1,200 | 66,363 | 56,617 | 2,968 | 2,491 |
| West Virginia .................. | 20,730 | 82 | 33 | 10 | 1 | 10 | 28 | 20,639 | 19,778 | 744 | 9 |
| Wisconsin ....................... | 66,557 | 3,207 | 2,349 | 602 | 26 | 156 | 74 | 63,337 | 54,292 | 6,366 | 13 |
| Wyoming ....................... | 6,387 | 538 | 456 | 6 | 3 | 13 | 60 | 5,829 | 5,527 | 58 | 20 |
| Puerto Rico .................... | 64,109 | 5 | --- | 5 | --- | --- | --- | 2 | --- | 2 | 64,102 |
| Virgin Islands .................. | 2,017 | 375 | 6 | 285 | 2 | 55 | 27 | 1,534 | 85 | 1,402 | 108 |
| Guam ............................ | 4,309 | 43 | 20 | 9 | --- | 5 | 9 | 4,185 | 373 | 68 | 81 |
| American Samoa ............. | 1,634 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1,634 |

[^12]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, 1997

| Characteristic | $\begin{aligned} & \text { All } \\ & \text { races } \end{aligned}$ | White | Black | American Indian ${ }^{1}$ | Asian or Pacific Islander |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total | Chinese | Japanese | Hawaiian | Filipino | Other |
| Births | Number |  |  |  |  |  |  |  |  |  |
|  | 3,880,894 | 3,072,640 | 599,913 | 38,572 | 169,769 | 28,434 | 8,890 | 5,687 | 31,501 | 95,257 |
|  | Rate |  |  |  |  |  |  |  |  |  |
| Birth rate ${ }^{2}$.................................. | 14.5 | 13.9 | 17.7 | 16.6 | 16.9 | --- | --- | --- | --- | --- |
| Fertility rate ${ }^{3}$............................... | 65.0 | 63.9 | 70.7 | 69.1 | 66.3 | --- | --- | --- | --- | --- |
| Total fertility rate ${ }^{4}$......................... | 2,032.5 | 2,008.5 | 2,154.0 | 2,047.5 | 1,925.0 | --- | --- | --- | --- | --- |
| Sex ratio ${ }^{5}$ | 1,048 | 1,050 | 1,031 | 1,036 | 1,072 | 1,100 | 1,068 | 1,066 | 1,069 | 1,065 |
|  | Percent |  |  |  |  |  |  |  |  |  |
| All births Births to mothers under |  |  |  |  |  |  |  |  |  |  |
| 4th- and higher-order births .......... | 10.5 | 9.6 | 14.9 | 19.5 | 5.2 8.0 | 2.2 | 4.1 | 15.3 | 7.0 | 10.0 |
| Births to unmarried mothers ........... | 32.4 | 25.8 | 69.2 | 58.7 | 15.6 | 6.5 | 10.1 | 49.1 | 19.5 | 15.6 |
| Mothers completing 12 years or more of school $\qquad$ | 77.9 | 78.7 | 72.4 | 67.2 | 86.0 | 87.7 | 97.7 | 83.2 | 92.7 | 82.2 |
| Mothers born in the 50 States and DC $\qquad$ | 80.7 | 82.4 | 89.3 | 96.6 | 15.6 | 9.6 | 44.0 | 97.9 | 17.7 | 9.1 |
| Mothers born in the 50 States and DC |  |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 years .... | 13.7 | 11.5 | 24.0 | 21.2 | 15.2 | 4.5 | 4.5 | 18.7 | 17.4 | 19.6 |
| 4th- and higher-order births ........... | 9.8 | 8.6 | 15.1 | 19.7 | 8.2 | 3.5 | 4.4 | 15.3 | 7.8 | 7.0 |
| Births to unmarried mothers .......... | 33.3 | 24.8 | 72.2 | 59.7 | 33.6 | 13.4 | 16.1 | 49.4 | 40.7 | 33.1 |
| Mothers completing 12 years or more of school $\qquad$ | 82.1 | 84.5 | 71.5 | 67.0 | 87.1 | 95.9 | 96.6 | 83.1 | 87.2 | 82.3 |
| Mothers born outside the 50 States and DC |  |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 years .... | 8.4 | 9.8 | 7.4 | 8.8 | 3.3 | 0.6 | 0.5 | 13.1 | 3.4 | 4.3 |
| 4th- and higher-order births ........... | 13.0 | 14.2 | 13.6 | 12.5 | 8.0 | 2.1 | 3.8 | 15.0 | 6.9 | 10.3 |
| Births to unmarried mothers .......... | 28.1 | 30.5 | 43.5 | 30.2 | 12.3 | 5.7 | 5.3 | 36.1 | 14.9 | 13.8 |
| Mothers completing 12 years or more of school $\qquad$ | 60.0 | 50.8 | 80.1 | 73.5 | 85.8 | 86.9 | 98.6 | 88.3 | 93.9 | 82.2 |

[^13]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, 1997

| Characteristic | $\begin{gathered} \text { All } \\ \text { origins }{ }^{1} \end{gathered}$ | Hispanic |  |  |  |  |  | Non-Hispanic |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Mexican | Puerto <br> Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{2}$ | White | Black |
| Births ......................................... | Number |  |  |  |  |  |  |  |  |  |
|  | 3,880,894 | 709,767 | 499,024 | 55,450 | 12,887 | 97,405 | 45,001 | 3,115,174 | 2,333,363 | 581,431 |
|  | Rate |  |  |  |  |  |  |  |  |  |
| Birth rate ${ }^{3}$................................... | 14.5 | 24.2 | 26.8 | 18.1 | 10.1 | 722.4 |  | 13.1 | 12.0 | 18.0 |
| Fertility rate ${ }^{4}$............................... | 65.0 | 102.8 | 116.6 | 71.7 | 57.4 | 787.6 |  | 59.0 | 55.8 | 71.9 |
| Total fertility rate ${ }^{5}$.......................... | 2,032.5 | 2,999.5 | 3,307.5 | 2,163.5 | 1,814.5 | $7_{2,653.5}$ |  | 1,888.0 | 1,801.0 | 2,210.5 |
| Sex ratio ${ }^{6}$................................... | 1,048 | 1,040 | 1,038 | 1,049 | 1,043 | 1,042 | 1,044 | 1,049 | 1,052 | 1,031 |
|  | Percent |  |  |  |  |  |  |  |  |  |
| All births |  |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 years .... | 12.7 | 17.0 | 17.7 | 22.3 | 7.4 | 10.5 | 19.8 | 11.8 | 9.5 | 22.4 |
| 4th- and higher-order births ........... | 10.5 | 13.7 | 14.8 | 12.5 | 5.5 | 11.2 | 11.0 | 9.7 | 8.4 | 15.0 |
| Births to unmarried mothers | 32.4 | 40.9 | 38.9 | 59.4 | 24.4 | 41.8 | 43.6 | 30.5 | 21.5 | 69.4 |
| Mothers completing 12 years or more of school $\qquad$ | 77.9 | 49.7 | 43.7 | 62.9 | 86.3 | 60.4 | 67.2 | 84.1 | 87.1 | 72.5 |
| Mothers born in the 50 States and DC $\qquad$ | 80.7 | 39.1 | 39.2 | 63.3 | 38.8 | 9.0 | 74.3 | 90.0 | 95.1 | 90.7 |
| Mothers born in the 50 States and DC |  |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 years .... | 13.7 | 25.6 | 26.7 | 24.3 | 11.2 | 22.4 | 23.4 | 12.6 | 9.8 | 23.9 |
| 4th- and higher-order births | 9.8 | 11.2 | 11.7 | 11.1 | 4.8 | 4.6 | 10.6 | 9.7 | 8.3 | 15.1 |
| Births to unmarried mothers ........... | 33.3 | 47.7 | 46.2 | 61.6 | 24.2 | 44.5 | 46.8 | 32.0 | 22.1 | 72.2 |
| Mothers completing 12 years or more of school $\qquad$ | 82.1 | 64.0 | 62.1 | 63.4 | 86.8 | 77.8 | 69.0 | 83.8 | 87.0 | 71.5 |
| Mothers born outside the 50 States and DC |  |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 years .... | 8.4 | 11.5 | 11.9 | 18.7 | 4.9 | 9.3 | 9.3 | 4.0 | 3.7 | 6.7 |
| 4th- and higher-order births | 13.0 | 15.4 | 16.8 | 15.1 | 5.9 | 11.8 | 12.1 | 9.6 | 9.5 | 14.0 |
| Births to unmarried mothers .......... | 28.1 | 36.5 | 34.2 | 55.5 | 24.5 | 41.5 | 33.1 | 16.7 | 10.7 | 41.2 |
| Mothers completing 12 years or more of school $\qquad$ | 60.0 | 40.4 | 31.6 | 62.2 | 86.0 | 58.7 | 62.4 | 86.9 | 90.2 | 82.7 |

[^14]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.

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Table 15. Live births by race of mother and observed and seasonally adjusted birth and fertility rates, by month: United States, 1997
[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]

| Month | Number |  |  | Observed |  | Seasonally adjusted ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All races ${ }^{2}$ | White | Black | Birth rate | Fertility rate | Birth rate | Fertility rate |
| Total ...................................................... | 3,880,894 | 3,072,640 | 599,913 | 14.5 | 65.0 | $\ldots$ | ... |
| January ................................................... | 317,211 | 248,675 | 51,645 | 14.0 | 62.6 | 14.7 | 65.7 |
| February ................................................. | 291,541 | 230,077 | 46,037 | 14.3 | 63.7 | 14.5 | 64.9 |
| March .................................................... | 321,212 | 255,265 | 48,813 | 14.2 | 63.4 | 14.4 | 64.6 |
| April ....................................................... | 314,230 | 250,965 | 46,429 | 14.3 | 64.1 | 14.6 | 65.3 |
| May ....................................................... | 330,331 | 263,918 | 48,926 | 14.6 | 65.2 | 14.6 | 65.4 |
| June ....................................................... | 321,867 | 256,533 | 48,347 | 14.6 | 65.6 | 14.5 | 64.9 |
| July ........................................................ | 346,506 | 274,977 | 53,140 | 15.2 | 68.4 | 14.6 | 65.5 |
| August ................................................... | 339,122 | 268,819 | 52,314 | 14.9 | 66.9 | 14.2 | 63.8 |
| September .............................................. | 333,600 | 264,583 | 51,104 | 15.1 | 68.0 | 14.4 | 64.6 |
| October .................................................. | 328,657 | 260,214 | 50,667 | 14.4 | 64.8 | 14.4 | 65.0 |
| November ............................................... | 307,282 | 240,582 | 49,478 | 13.9 | 62.6 | 14.4 | 64.6 |
| December ............................................... | 329,335 | 258,032 | 53,013 | 14.4 | 64.9 | 14.7 | 66.3 |

[^15]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, 1997

| Day of week and race of mother | Average number of births | Index of occurrence ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total ${ }^{2}$ | Method of delivery |  |  |  |
|  |  |  | Vaginal | Cesarean |  |  |
|  |  |  |  | Total | Primary | Repeat |
| All races ${ }^{3}$ | 10,633 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Sunday | 7,778 | 73.2 | 78.2 | 54.1 | 63.9 | 37.7 |
| Monday | 10,861 | 102.2 | 100.8 | 107.3 | 99.1 | 121.1 |
| Tuesday | 12,104 | 113.8 | 111.6 | 122.2 | 119.7 | 126.4 |
| Wednesday | 11,723 | 110.3 | 108.8 | 115.8 | 114.4 | 118.3 |
| Thursday | 11,631 | 109.4 | 107.9 | 114.6 | 112.0 | 119.1 |
| Friday | 11,640 | 109.5 | 106.4 | 121.0 | 114.8 | 131.6 |
| Saturday | 8,670 | 81.5 | 86.1 | 64.6 | 75.9 | 45.4 |
| White | 8,418 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Sunday | 6,003 | 71.3 | 76.5 | 51.7 | 61.8 | 35.1 |
| Monday | 8,659 | 102.9 | 101.4 | 108.3 | 99.8 | 122.5 |
| Tuesday | 9,670 | 114.9 | 112.6 | 123.2 | 120.8 | 127.1 |
| Wednesday | 9,335 | 110.9 | 109.4 | 116.7 | 115.3 | 119.0 |
| Thursday ... | 9,268 | 110.1 | 108.7 | 115.2 | 112.4 | 119.8 |
| Friday ... | 9,252 | 109.9 | 106.7 | 122.1 | 115.4 | 133.2 |
| Saturday | 6,723 | 79.9 | 84.5 | 62.5 | 74.3 | 42.9 |
| Black | 1,644 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Sunday | 1,315 | 80.0 | 84.7 | 63.4 | 72.2 | 47.9 |
| Monday | 1,633 | 99.3 | 98.3 | 103.1 | 95.8 | 116.0 |
| Tuesday | 1,814 | 110.3 | 108.0 | 118.4 | 115.2 | 124.0 |
| Wednesday | 1,775 | 108.0 | 106.4 | 113.5 | 111.5 | 116.9 |
| Thursday | 1,756 | 106.8 | 105.3 | 112.5 | 110.9 | 115.3 |
| Friday ... | 1,771 | 107.8 | 105.1 | 117.0 | 113.1 | 124.0 |
| Saturday | 1,440 | 87.6 | 92.1 | 71.9 | 81.2 | 55.6 |

[^16]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, 1997

| Measure and age of mother | $\begin{aligned} & \text { All } \\ & \text { races } 1 \end{aligned}$ | White |  | Black |  | Hispanic ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Non-Hispanic | Total | Non-Hispanic |  |
| Number |  |  |  |  |  |  |
| All ages ............................................ | 1,257,444 | 793,202 | 502,620 | 415,054 | 403,536 | 290,437 |
| Under 15 years ................................... | 9,685 | 4,631 | 2,096 | 4,682 | 4,585 | 2,586 |
| 15-19 years ...................................... | 376,117 | 240,353 | 155,795 | 122,986 | 120,098 | 84,594 |
| 15 years ...................................... | 24,497 | 14,267 | 7,509 | 9,306 | 9,094 | 6,820 |
| 16 years ...................................... | 50,454 | 31,232 | 18,300 | 17,410 | 17,000 | 13,036 |
| 17 years ....................................... | 81,302 | 52,522 | 33,514 | 26,006 | 25,392 | 19,003 |
| 18 years ....................................... | 104,267 | 67,623 | 45,580 | 33,227 | 32,477 | 22,030 |
| 19 years ....................................... | 115,597 | 74,709 | 50,892 | 37,037 | 36,135 | 23,705 |
| 20-24 years | 438,632 | 276,764 | 176,696 | 145,647 | 142,037 | 99,740 |
| 25-29 years | 234,762 | 147,318 | 89,976 | 76,977 | 74,542 | 57,331 |
| 30-34 years | 124,831 | 77,543 | 47,756 | 41,520 | 39,948 | 29,920 |
| 35-39 years | 59,870 | 37,878 | 24,637 | 19,223 | 18,467 | 13,242 |
| 40 years and over | 13,547 | 8,715 | 5,664 | 4,019 | 3,859 | 3,024 |
| Rate per 1,000 unmarried women in specified group |  |  |  |  |  |  |
|  | 44.0 | 37.0 | 27.6 | 73.4 | --- | 91.4 |
| 15-19 years ....................................... | 42.2 | 34.2 | 26.4 | 86.4 | --- | 75.2 |
| 15-17 years | 28.2 | 22.4 | 16.2 | 60.6 | --- | 55.0 |
| 18-19 years | 65.2 | 53.6 | 43.1 | 127.2 | --- | 109.5 |
| 20-24 years | 71.0 | 59.2 | 44.8 | 127.8 | --- | 139.1 |
| 25-29 years | 56.2 | 49.3 | 35.2 | 85.2 | --- | 135.0 |
| 30-34 years ...................................... | 39.0 | 34.4 | 25.1 | 52.3 | --- | 86.1 |
| 35-39 years | 19.0 | 16.7 | 12.7 | 24.7 | --- | 42.0 |
| 40-44 years ${ }^{4}$.................................... | 4.6 | 3.9 | 2.9 | 6.5 | --- | 12.2 |
| Percent of births to unmarried women |  |  |  |  |  |  |
| All ages ............................................ | 32.4 | 25.8 | 21.7 | 69.2 | 69.4 | 40.9 |
| Under 15 years | 95.7 | 92.2 | 93.7 | 99.4 | 99.4 | 91.3 |
| 15-19 years | 77.8 | 71.1 | 71.1 | 95.7 | 95.8 | 71.6 |
| 15 years | 93.0 | 89.4 | 91.2 | 99.2 | 99.2 | 87.7 |
| 16 years | 88.5 | 83.7 | 85.1 | 98.6 | 98.6 | 82.1 |
| 17 years | 84.0 | 78.5 | 79.9 | 97.8 | 97.9 | 76.7 |
| 18 years | 77.5 | 70.9 | 71.7 | 95.7 | 95.9 | 69.8 |
| 19 years | 68.6 | 60.9 | 60.7 | 92.1 | 92.3 | 62.1 |
| 20-24 years | 46.6 | 38.4 | 35.5 | 79.8 | 80.0 | 46.1 |
| 25-29 years | 22.0 | 16.9 | 13.5 | 56.8 | 56.9 | 30.4 |
| 30-34 years | 14.1 | 10.5 | 8.0 | 44.1 | 44.1 | 24.6 |
| 35-39 years | 14.6 | 11.2 | 8.9 | 42.7 | 42.5 | 25.7 |
| 40 years and over .............................. | 17.0 | 13.6 | 10.9 | 43.0 | 43.0 | 27.9 |

[^17]Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-97, and by age, race, and Hispanic origin of mother: United States, 1980-97
[Rates are live births to unmarried women per 1,000 unmarried women in specified group, estimated as of July 1]

| Year and race and Hispanic origin | Age of Mother |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15-44 years ${ }^{1}$ | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | 35-39 years | $\begin{aligned} & 40-44 \\ & \text { years }^{2} \end{aligned}$ |
|  |  | Total | 15-17 years | 18-19 years |  |  |  |  |  |



[^18]Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-97, and by age, race, and Hispanic origin of mother: United States, 1980-97--Con.
[Rates are live births to unmarried women per 1,000 unmarried women in specified group, estimated as of July 1]

| Year and race | Age of Mother |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15-44 years ${ }^{1}$ | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 40-44 \\ \text { years }^{2} \end{gathered}$ |
|  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |
| Black, total |  |  |  |  |  |  |  |  |  |
| 19974 | 73.4 | 86.4 | 60.6 | 127.2 | 127.8 | 85.2 | 52.3 | 24.7 | 6.5 |
| 19964 ....................................... | 74.4 | 89.2 | 64.0 | 129.2 | 125.8 | 84.5 | 54.5 | 25.5 | 6.1 |
| 19954 | 75.9 | 92.8 | 68.6 | 131.2 | 127.7 | 84.8 | 54.3 | 25.6 | 6.0 |
| 19944 ........................................ | 82.1 | 100.9 | 75.1 | 141.6 | 138.1 | 93.6 | 57.2 | 26.3 | 5.9 |
| 19934 ....................................... | 84.0 | 102.4 | 76.8 | 141.6 | 142.2 | 94.5 | 57.3 | 25.9 | 5.8 |
| 19924 | 86.5 | 105.9 | 78.0 | 147.8 | 144.3 | 98.2 | 57.7 | 25.8 | 5.4 |
| 19914 ...................................... | 89.5 | 108.5 | 80.4 | 148.7 | 147.5 | 100.9 | 60.1 | 25.6 | 5.4 |
| 19904 | 90.5 | 106.0 | 78.8 | 143.7 | 144.8 | 105.3 | 61.5 | 25.5 | 5.1 |
| 19894 | 90.7 | 104.5 | 78.9 | 140.9 | 142.4 | 102.9 | 60.5 | 24.9 | 5.0 |
| 19884 | 86.5 | 96.1 | 73.5 | 130.5 | 133.6 | 97.2 | 57.4 | 24.1 | 5.0 |
| 19874 | 82.6 | 90.9 | 69.9 | 123.0 | 126.1 | 91.6 | 53.1 | 22.4 | 4.7 |
| 19864 ........................................ | 79.0 | 88.5 | 67.0 | 121.1 | 118.0 | 84.6 | 50.0 | 20.6 | 4.4 |
| 19854 | 77.0 | 87.6 | 66.8 | 117.9 | 113.1 | 79.3 | 47.5 | 20.4 | 4.3 |
| 1984 4,5 | 75.2 | 86.1 | 66.5 | 113.6 | 107.9 | 77.8 | 43.8 | 19.4 | 4.3 |
| 1983 4,5 | 76.2 | 85.5 | 66.8 | 111.9 | 107.2 | 79.7 | 43.8 | 19.4 | 4.8 |
| 1982 4, 5 | 77.9 | 85.1 | 66.3 | 112.7 | 109.3 | 82.7 | 44.1 | 19.5 | 5.2 |
| 19814 4, | 79.4 | 85.0 | 65.9 | 114.2 | 110.7 | 83.1 | 45.5 | 19.6 | 5.6 |
| 1980 4,5 | 81.1 | 87.9 | 68.8 | 118.2 | 112.3 | 81.4 | 46.7 | 19.0 | 5.5 |
| Hispanic ${ }^{9}$ |  |  |  |  |  |  |  |  |  |
| 19974 | 91.4 | 75.2 | 55.0 | 109.5 | 139.1 | 135.0 | 86.1 | 42.0 | 12.2 |
| 19964 | 93.2 | 74.5 | 53.4 | 110.4 | 146.5 | 139.1 | 90.8 | 42.3 | 12.3 |
| 19954 | 95.0 | 78.7 | 56.3 | 117.9 | 148.9 | 133.8 | 89.2 | 43.4 | 12.2 |
| 19944 ....................................... | 101.2 | 82.6 | 59.0 | 123.6 | 154.8 | 141.6 | 95.5 | 48.4 | 14.0 |
| 19934 | 95.2 | 74.6 | 51.9 | 114.6 | 140.5 | 137.7 | 90.9 | 47.8 | 14.1 |
| 19924 | 95.3 | 72.9 | 51.0 | 110.5 | 142.2 | 138.3 | 91.8 | 48.1 | 14.5 |
| 19914 ....................................... | 93.7 | 72.4 | 50.5 | 109.6 | 135.4 | 137.5 | 89.1 | 47.7 | 14.2 |
| 19904 | 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.
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 and each State, Puerto Rico, Virgin Islands, Guam, and American Samoa, 1997
[By place of residence]

| State | Births to unmarried women |  |  |  |  |  | Percent unmarried |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { races } 1 \end{gathered}$ | White |  | Black |  | Hispanic ${ }^{2}$ | $\begin{gathered} \text { All } \\ \text { races } 1 \end{gathered}$ | White |  | Black |  | Hispanic ${ }^{2}$ |
|  |  | Total | NonHispanic | Total | NonHispanic |  |  | Total | NonHispanic | Total | NonHispanic |  |
| United States 3 . | 1,257,444 | 793,202 | 502,620 | 415,054 | 403,536 | 290,437 | 32.4 | 25.8 | 21.5 | 69.2 | 69.4 | 40.9 |
| Alabama | 20,635 | 6,841 | 6,602 | 13,676 | 13,665 | 244 | 33.9 | 16.9 | 16.8 | 69.0 | 69.0 | 23.1 |
| Alaska | 3,048 | 1,422 | 1,293 | 190 | 183 | 171 | 30.6 | 21.6 | 21.2 | 41.6 | 41.2 | 28.1 |
| Arizona | 28,495 | 22,940 | 9,315 | 1,616 | 1,539 | 13,783 | 37.6 | 34.6 | 24.6 | 64.6 | 64.8 | 48.4 |
| Arkansas | 12,478 | 6,495 | 5,987 | 5,837 | 5,822 | 510 | 34.2 | 23.1 | 22.6 | 74.6 | 74.7 | 33.1 |
| California ..................... | 172,017 | 138,242 | 38,396 | 23,242 | 22,561 | 100,674 | 32.8 | 32.4 | 21.6 | 62.3 | 62.5 | 40.4 |
| Colorado | 14,273 | 12,340 | 7,078 | 1,424 | 1,360 | 5,372 | 25.2 | 23.9 | 18.3 | 55.1 | 54.7 | 40.6 |
| Connecticut ................. | 14,116 | 9,762 | 5,606 | 3,768 | 3,432 | 3,786 | 32.7 | 27.0 | 19.7 | 70.2 | 70.1 | 66.3 |
| Delaware ..................... | 3,693 | 1,890 | 1,556 | 1,781 | 1,761 | 325 | 36.0 | 25.1 | 22.7 | 71.5 | 71.5 | 51.0 |
| District of Columbia ...... | 5,041 | 474 | 112 | 4,530 | 4,430 | 384 | 63.6 | 24.0 | 8.8 | 77.9 | 78.0 | 55.3 |
| Florida ........................ | 69,285 | 39,076 | 26,872 | 29,284 | 28,723 | 12,838 | 36.0 | 27.1 | 24.9 | 67.3 | 67.5 | 34.4 |
| Georgia ........................ | 41,879 | 14,819 | 12,602 | 26,703 | 26,528 | 2,138 | 35.4 | 19.6 | 18.6 | 67.2 | 67.3 | 29.8 |
| Hawaii ......................... | 5,202 | 767 | 598 | 122 | 110 | 961 | 29.9 | 17.1 | 15.9 | 21.1 | 20.0 | 44.8 |
| Idaho | 3,848 | 3,638 | 2,899 | 31 | 29 | 686 | 20.7 | 20.2 | 18.8 | 46.3 | 46.0 | 29.0 |
| Illinois | 60,443 | 32,515 | 19,832 | 27,326 | 27,186 | 12,803 | 33.4 | 23.5 | 18.8 | 77.0 | 77.1 | 38.6 |
| Indiana ........................ | 27,184 | 20,363 | 18,896 | 6,668 | 6,645 | 1,378 | 32.6 | 27.7 | 27.1 | 75.9 | 76.0 | 40.4 |
| Iowa | 9,601 | 8,493 | 7,867 | 828 | 793 | 570 | 26.2 | 24.6 | 24.1 | 75.3 | 75.6 | 35.6 |
| Kansas | 10,274 | 8,014 | 6,642 | 1,948 | 1,927 | 1,355 | 27.6 | 24.1 | 22.6 | 69.5 | 69.7 | 38.1 |
| Kentucky | 15,669 | 12,213 | 11,993 | 3,341 | 3,333 | 230 | 29.5 | 25.5 | 25.4 | 71.9 | 72.0 | 31.6 |
| Louisiana ..................... | 29,011 | 8,847 | 8,521 | 19,860 | 19,843 | 343 | 43.9 | 23.5 | 23.4 | 73.2 | 73.2 | 27.2 |
| Maine .......................... | 4,060 | 3,934 | 3,697 | 34 | 26 | 36 | 29.7 | 29.5 | 29.2 | 42.0 | 38.2 | 29.8 |
| Maryland ...................... | 23,493 | 9,133 | 7,860 | 14,065 | 13,825 | 1,202 | 33.5 | 20.5 | 19.2 | 61.3 | 61.5 | 36.7 |
| Massachusetts ............. | 20,836 | 15,497 | 11,287 | 4,571 | 3,677 | 4,991 | 25.9 | 22.6 | 18.4 | 59.2 | 59.2 | 60.6 |
| Michigan . | 44,454 | 25,522 | 21,197 | 18,277 | 18,058 | 2,205 | 33.2 | 24.1 | 22.6 | 75.3 | 75.4 | 40.4 |
| Minnesota | 16,141 | 12,259 | 10,684 | 2,213 | 2,185 | 1,231 | 25.0 | 21.5 | 20.9 | 66.5 | 66.5 | 46.9 |
| Mississippi ................... | 18,859 | 4,320 | 4,228 | 14,366 | 14,361 | 91 | 45.4 | 19.6 | 19.5 | 75.7 | 75.7 | 27.7 |
| Missouri ....................... | 24,516 | 15,603 | 14,950 | 8,568 | 8,549 | 667 | 33.1 | 25.3 | 25.0 | 77.7 | 77.7 | 37.9 |
| Montana | 3,119 | 2,190 | 1,992 | 12 | 8 | 126 | 28.7 | 23.2 | 22.6 | * | * | 41.7 |
| Nebraska | 6,021 | 4,792 | 3,867 | 907 | 897 | 790 | 25.8 | 22.5 | 20.6 | 72.4 | 72.6 | 39.9 |
| Nevada | 9,555 | 7,475 | 4,269 | 1,461 | 1,413 | 3,192 | 35.5 | 32.7 | 28.2 | 68.6 | 68.5 | 41.4 |
| New Hampshire ............ | 3,404 | 3,326 | 3,090 | 53 | 51 | 88 | 23.8 | 23.8 | 23.1 | 51.0 | 53.1 | 38.6 |
| New Jersey ................... | 31,738 | 17,290 | 8,493 | 13,951 | 13,072 | 9,581 | 28.0 | 20.5 | 12.8 | 66.3 | 67.7 | 48.8 |
| New Mexico | 11,696 | 8,993 | 2,494 | 287 | 266 | 6,591 | 43.5 | 39.6 | 26.1 | 56.7 | 55.8 | 49.5 |
| New York .... | 90,673 | 51,091 | 21,573 | 36,866 | 31,580 | 29,141 | 35.2 | 27.7 | 18.3 | 66.8 | 66.9 | 57.5 |
| North Carolina | 34,468 | 15,074 | 12,418 | 18,297 | 18,246 | 2,717 | 32.2 | 19.9 | 18.0 | 66.6 | 66.6 | 39.3 |
| North Dakota ................ | 2,174 | 1,575 | 1,484 | 24 | 24 | 45 | 26.0 | 21.3 | 20.9 | 28.6 | 30.0 | 26.5 |
| Ohio ............................ | 51,544 | 33,740 | 32,174 | 17,470 | 17,069 | 1,594 | 33.9 | 26.6 | 26.1 | 77.2 | 77.2 | 46.4 |
| Oklahoma .................... | 15,660 | 9,955 | 8,914 | 3,392 | 3,343 | 1,063 | 32.4 | 26.2 | 25.7 | 71.5 | 71.5 | 33.0 |
| Oregon | 12,631 | 11,230 | 9,072 | 625 | 612 | 2,188 | 28.8 | 27.9 | 26.4 | 66.8 | 67.0 | 37.4 |
| Pennsylvania ................ | 47,234 | 30,736 | 26,472 | 15,886 | 15,544 | 4,207 | 32.8 | 25.6 | 23.4 | 77.8 | 77.9 | 63.5 |
| Rhode Island ................ | 4,128 | 3,259 | 1,949 | 613 | 506 | 1,008 | 33.1 | 29.9 | 25.2 | 64.8 | 65.1 | 56.6 |
| South Carolina .............. | 19,857 | 6,869 | 6,508 | 12,866 | 12,854 | 366 | 38.0 | 20.8 | 20.4 | 69.9 | 69.9 | 32.4 |
| South Dakota ................ | 3,166 | 1,920 | 1,875 | 36 | 35 | 45 | 31.1 | 22.8 | 22.6 | 39.6 | 39.3 | 31.9 |
| Tennessee ................... | 25,383 | 13,160 | 12,617 | 11,992 | 11,972 | 566 | 34.1 | 23.1 | 22.8 | 73.5 | 73.5 | 32.9 |
| Texas. | 102,496 | 76,413 | 26,946 | 24,891 | 24,539 | 49,506 | 30.7 | 26.9 | 19.6 | 63.0 | 63.0 | 33.8 |
| Utah ............................ | 7,145 | 6,449 | 4,902 | 145 | 135 | 1,562 | 16.6 | 15.8 | 13.4 | 55.8 | 55.8 | 36.3 |
| Vermont ....................... | 1,726 | 1,712 | 1,637 | 10 | 10 | 5 | 26.1 | 26.2 | 26.0 | * | * | , |
| Virginia ....................... | 26,908 | 13,097 | 11,241 | 13,388 | 13,328 | 1,916 | 29.3 | 19.6 | 18.3 | 63.5 | 63.6 | 35.7 |
| Washington ................. | 21,218 | 17,335 | 13,558 | 1,732 | 1,638 | 3,479 | 27.1 | 25.6 | 23.9 | 54.4 | 55.2 | 37.3 |
| West Virginia ................ | 6,495 | 5,912 | 5,889 | 568 | 566 | 25 | 31.3 | 29.8 | 29.8 | 76.0 | 76.1 | 30.5 |
| Wisconsin .................... | 18,707 | 12,602 | 11,254 | 5,287 | 5,253 | 1,425 | 28.1 | 22.0 | 20.7 | 82.4 | 82.5 | 44.4 |
| Wyoming ..................... | 1,747 | 1,588 | 1,362 | 26 | 24 | 237 | 27.4 | 26.2 | 24.6 | 41.9 | 41.4 | 44.1 |
| Puerto Rico ................... | 29,345 | 26,381 | --- | 2,959 | --- | --- | 45.8 | 44.5 | --- | 62.4 | --- | --- |
| Virgin Islands ................ | 1,368 | 206 | 25 | 1,145 | 1,014 | 242 | 67.8 | 56.7 | 29.4 | 71.8 | 72.3 | 64.5 |
| Guam .......................... | 2,125 | 73 | 64 | 16 | 15 | 6 | 49.3 | 17.3 | 17.2 |  | * |  |
| American Samoa ........... | 567 | --- | --- | --- | --- | --- | 34.7 | --- | --- | --- | --- | --- |

[^19]Table 20. Birth rates by age and race of father: United States, 1980-97
[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]

| Year and race of father | $\begin{gathered} 15-54 \\ \text { years }^{1} \end{gathered}$ | Age of father |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} 15-19 \\ \text { years } 2 \end{gathered}$ | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-44 years | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ | $50-54$ years | 55 years and over |


| All races ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 ................. | 57.1 | 24.8 | 88.0 | 114.7 | 95.1 | 51.8 | 20.2 | 7.5 | 2.7 | 0.4 |
| 1990 ................. | 58.4 | 23.5 | 88.0 | 116.4 | 97.8 | 53.0 | 21.0 | 7.5 | 2.8 | 0.4 |
| 1989 ................. | 57.2 | 21.9 | 85.4 | 114.3 | 94.8 | 51.3 | 20.4 | 7.4 | 2.7 | 0.6 |
| 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 |
| 19834 ............... | 55.1 | 18.2 | 82.6 | 113.0 | 89.1 | 45.2 | 17.4 | 6.4 | 2.3 | 0.4 |
| 19824 ............... | 56.4 | 18.6 | 86.5 | 117.3 | 90.3 | 44.5 | 17.5 | 6.4 | 2.3 | 0.4 |
| 19814 ................ | 56.3 | 18.4 | 88.4 | 119.1 | 88.7 | 43.3 | 17.0 | 6.2 | 2.3 | 0.4 |
| $1980{ }^{4}$............... | 57.0 | 18.8 | 92.0 | 123.1 | 91.0 | 42.8 | 17.1 | 6.1 | 2.2 | 0.3 |
| White |  |  |  |  |  |  |  |  |  |  |
| 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 .................... | 49.2 | 19.7 | 78.5 | 105.7 | 92.9 | 49.6 | 19.0 | 6.3 | 2.2 | 0.2 |
| 1994 ................. | 50.0 | 19.8 | 78.5 | 106.4 | 92.5 | 49.3 | 18.9 | 6.3 | 2.2 | 0.3 |
| 1993 ................. | 50.9 | 19.2 | 77.9 | 108.0 | 92.4 | 49.2 | 18.6 | 6.4 | 2.2 | 0.2 |
| 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 ................. | 51.7 | 13.8 | 73.3 | 107.0 | 88.7 | 44.4 | 16.6 | 5.7 | 2.0 | 0.3 |
| 1985 ................. | 52.6 | 14.0 | 74.7 | 109.9 | 89.5 | 44.8 | 16.3 | 5.6 | 1.9 | 0.3 |
| 19844 ............... | 51.8 | 14.0 | 74.3 | 108.8 | 87.9 | 43.5 | 16.0 | 5.3 | 1.9 | 0.3 |
| 19834 ............... | 52.0 | 14.4 | 76.3 | 110.2 | 86.8 | 42.6 | 15.5 | 5.3 | 1.8 | 0.3 |
| 19824 ............... | 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 |  |  |  |  |  |  |  |  |  |  |
| 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 ................. | 81.0 | 57.4 | 158.0 | 140.1 | 96.8 | 56.9 | 28.4 | 13.9 | 6.2 | 1.4 |
| 1991 ................. | 83.4 | 58.0 | 158.5 | 143.3 | 100.1 | 58.8 | 29.4 | 14.2 | 6.7 | 1.4 |
| 1990 ................. | 84.9 | 55.2 | 158.2 | 144.9 | 103.2 | 60.4 | 31.1 | 15.0 | 7.1 | 1.4 |
| 1989 ..................... | 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 |
| 19834 .............. | 77.2 | 40.7 | 129.1 | 134.4 | 99.0 | 59.6 | 29.6 | 13.5 | 6.0 | 1.2 |
| 19824 ............... | 79.5 | 40.3 | 133.4 | 141.2 | 103.6 | 61.1 | 29.6 | 13.9 | 6.0 | 1.2 |
| 19814 ............... | 80.4 | 38.9 | 138.4 | 145.6 | 104.3 | 61.3 | 29.7 | 13.3 | 5.7 | 1.2 |
| $1980{ }^{4}$............... | 83.0 | 40.1 | 145.3 | 152.8 | 109.6 | 62.0 | 31.2 | 13.6 | 5.9 | 1.1 |

[^20]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, 1997

|  |  | Years of school completed by mother |  |  |  |  |  | Percent 12 years or more | Percent <br> 16 years <br> or more |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age and race of mother | Total | $\begin{gathered} 0-8 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 9-11 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 12 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 13-15 \\ & \text { years } \end{aligned}$ | 16 years or more | Not Stated |  |  |


| All ages ................... | 3,880,894 | 224,911 | 620,586 | 1,257,946 | 848,379 | 872,733 | 56,339 | 77.9 | 22.8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Under 15 years ......... | 10,121 | 7,662 | 2,114 | - ${ }^{-}$ | - | - | 345 | - | - |
| 15-19 years .............. | 483,220 | 42,406 | 257,957 | 152,407 | 22,352 | - | 8,098 | 36.8 |  |
| 15 years .............. | 26,340 | 8,561 | 17,034 | - | - | - | 745 | - | - |
| 16 years .............. | 57,038 | 7,492 | 47,188 | 1,251 | - | - | 1,107 | 2.2 | - |
| 17 years ...... | 96,776 | 7,790 | 73,070 | 13,962 | 318 | - | 1,636 | 15.0 | - |
| 18 years .............. | 134,595 | 8,748 | 64,883 | 54,967 | 3,989 | - | 2,008 | 44.5 | - |
| 19 years .............. | 168,471 | 9,815 | 55,782 | 82,227 | 18,045 | - | 2,602 | 60.5 | - |
| 20-24 years .............. | 942,048 | 60,597 | 188,561 | 412,416 | 218,654 | 48,205 | 13,615 | 73.2 | 5.2 |
| 25-29 years .............. | 1,069,436 | 53,137 | 99,328 | 344,535 | 281,965 | 276,014 | 14,457 | 85.5 | 26.2 |
| 30-34 years .............. | 886,798 | 36,317 | 48,766 | 229,782 | 213,767 | 346,265 | 11,901 | 90.3 | 39.6 |
| 35-39 years .............. | 409,710 | 19,150 | 19,972 | 100,508 | 94,325 | 169,440 | 6,315 | 90.3 | 42.0 |
| 40 years and over ..... | 79,561 | 5,642 | 3,888 | 18,298 | 17,316 | 32,809 | 1,608 | 87.8 | 42.1 |
| White, total |  |  |  |  |  |  |  |  |  |
| All ages .................... | 3,072,640 | 196,441 | 451,023 | 969,727 | 670,870 | 745,496 | 39,083 | 78.7 | 24.6 |
| Under 15 years ......... | 5,021 | 3,784 | 1,063 | - | - | - | 174 | - |  |
| 15-19 years .............. | 338,272 | 34,967 | 175,948 | 107,113 | 15,000 | - | 5,244 | 36.7 |  |
| 15 years .............. | 15,959 | 5,553 | 10,000 | - | - | - | 406 | - | - |
| 16 years .............. | 37,324 | 5,764 | 30,022 | 857 | - | - | 681 | 2.3 | - |
| 17 years .............. | 66,882 | 6,734 | 49,216 | 9,595 | 226 | - | 1,111 | 14.9 | - |
| 18 years .............. | 95,436 | 7,868 | 45,744 | 37,842 | 2,654 | - | 1,328 | 43.0 |  |
| 19 years .............. | 122,671 | 9,048 | 40,966 | 58,819 | 12,120 | - | 1,718 | 58.7 | - |
| 20-24 years .............. | 720,546 | 56,059 | 142,900 | 310,764 | 163,600 | 37,766 | 9,457 | 72.0 | 5.3 |
| 25-29 years .............. | 871,636 | 48,128 | 77,710 | 273,790 | 227,115 | 234,824 | 10,069 | 85.4 | 27.3 |
| 30-34 years .............. | 735,571 | 32,140 | 36,643 | 184,448 | 174,775 | 299,091 | 8,474 | 90.5 | 41.1 |
| 35-39 years .............. | 337,423 | 16,735 | 14,094 | 79,669 | 76,587 | 145,826 | 4,512 | 90.7 | 43.8 |
| 40 years and over ..... | 64,171 | 4,628 | 2,665 | 13,943 | 13,793 | 27,989 | 1,153 | 88.4 | 44.4 |
| White, non-Hispanic |  |  |  |  |  |  |  |  |  |
| All ages ................... | 2,333,363 | 41,659 | 256,605 | 757,734 | 570,573 | 686,483 | 20,309 | 87.1 | 29.7 |
| Under 15 years ......... | 2,240 | 1,731 | 448 | 80,571- | - ${ }^{-}$ | - | 61 | - | - |
| 15-19 years .............. | 219,857 | 13,087 | 112,161 | 80,571 | 11,564 | - | 2,474 | 42.4 | - |
| 15 years .............. | 8,244 | 2,757 | 5,306 | 570 | - | - | 181 | - | - |
| 16 years .............. | 21,536 | 2,676 | 17,989 | 570 | - | - | 301 | 2.7 | - |
| 17 years .............. | 42,088 | 2,644 | 31,994 | 6,786 | 155 | - | 509 | 16.7 | - |
| 18 years .............. | 63,787 | 2,570 | 30,393 | 28,196 | 1,985 | - | 643 | 47.8 | - |
| 19 years .............. | 84,202 | 2,440 | 26,479 | 45,019 | 9,424 | - ${ }^{-}$ | 840 | 65.3 | - |
| 20-24 years .............. | 500,928 | 11,433 | 81,350 | 237,112 | 133,461 | 33,211 | 4,361 | 81.3 | 6.7 |
| 25-29 years .............. | 674,498 | 7,717 | 37,116 | 213,989 | 194,427 | 215,954 | 5,295 | 93.3 | 32.3 |
| 30-34 years .............. | 603,304 | 4,605 | 17,000 | 148,805 | 151,660 | 276,328 | 4,906 | 96.4 | 46.2 |
| 35-39 years .............. | 280,393 | 2,384 | 7,218 | 65,869 | 67,311 | 135,029 | 2,582 | 96.5 | 48.6 |
| 40 years and over ..... | 52,143 | 702 | 1,312 | 11,388 | 12,150 | 25,961 | 630 | 96.1 | 50.4 |


| All ages ................... | 599,913 | 17,272 | 145,147 | 229,003 | 134,490 | 61,868 | 12,133 | 72.4 | 10.5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Under 15 years ......... | 4,712 | 3,588 | 969 | - | - | - | 155 | - | - |
| 15-19 years .............. | 128,539 | 6,345 | 73,386 | 39,978 | 6,395 | - | 2,435 | 36.8 |  |
| 15 years .............. | 9,381 | 2,726 | 6,362 | - | - | - | 293 | - |  |
| 16 years .............. | 17,658 | 1,522 | 15,415 | 345 | - | - | 376 | 2.0 |  |
| 17 years .............. | 26,595 | 874 | 21,336 | 3,856 | 78 | - | 451 | 15.0 |  |
| 18 years .............. | 34,712 | 667 | 17,117 | 15,198 | 1,156 | - | 574 | 47.9 |  |
| 19 years .............. | 40,193 | 556 | 13,156 | 20,579 | 5,161 | - | 741 | 65.2 | - |
| 20-24 years .............. | 182,600 | 2,569 | 39,422 | 84,898 | 45,254 | 7,293 | 3,164 | 76.6 | 4.1 |
| 25-29 years .............. | 135,529 | 1,864 | 16,859 | 53,271 | 40,483 | 20,250 | 2,802 | 85.9 | 15.3 |
| 30-34 years .............. | 94,123 | 1,581 | 9,107 | 32,960 | 27,562 | 20,748 | 2,165 | 88.4 | 22.6 |
| 35-39 years .............. | 45,069 | 959 | 4,508 | 14,848 | 12,394 | 11,206 | 1,154 | 87.6 | 25.5 |
| 40 years and over ..... | 9,341 | 366 | 896 | 3,048 | 2,402 | 2,371 | 258 | 86.1 | 26.1 |

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 school, by age and race of mother: United States, 1997 --Con.

|  |  | Years of school completed by mother |  |  |  |  |  | Percent 12 years or more | Percent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age and race of mother | Total | $\begin{gathered} 0-8 \\ \text { years } \end{gathered}$ | $\begin{gathered} 9-11 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 12 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 13-15 \\ & \text { years } \end{aligned}$ | 16 years or more | Not Stated |  | 16 years or more |

Black, non-Hispanic

| All ages .................... | 581,431 | 15,872 | 140,790 | 222,692 | 131,000 | 60,248 | 10,829 | 72.5 | 10.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Under 15 years ......... | 4,613 | 3,526 | 941 | - ${ }^{-}$ | - | - | 146 | - | - |
| 15-19 years .............. | 125,343 | 6,128 | 71,633 | 39,106 | 6,220 | - | 2,256 | 36.8 | - |
| 15 years .............. | 9,163 | 2,674 | 6,212 | - | - | - | 277 | - | - |
| 16 years .............. | 17,235 | 1,483 | 15,065 | 336 | - | - | 351 | 2.0 | - |
| 17 years .............. | 25,940 | 835 | 20,882 | 3,734 | 76 |  | 413 | 14.9 |  |
| 18 years .............. | 33,870 | 638 | 16,681 | 14,895 | 1,124 | - | 532 | 48.1 | - |
| 19 years .............. | 39,135 | 498 | 12,793 | 20,141 | 5,020 | - | 683 | 65.4 | - |
| 20-24 years .............. | 177,494 | 2,245 | 38,264 | 82,877 | 44,089 | 7,132 | 2,887 | 76.8 | 4.1 |
| 25-29 years .............. | 130,942 | 1,538 | 16,101 | 51,662 | 39,417 | 19,745 | 2,479 | 86.3 | 15.4 |
| 30-34 years .............. | 90,637 | 1,284 | 8,689 | 31,772 | 26,839 | 20,161 | 1,892 | 88.8 | 22.7 |
| 35-39 years .............. | 43,434 | 839 | 4,295 | 14,342 | 12,093 | 10,906 | 959 | 87.9 | 25.7 |
| 40 years and over ..... | 8,968 | 312 | 867 | 2,933 | 2,342 | 2,304 | 210 | 86.5 | 26.3 |
| Hispanic ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| All ages ................... | 709,767 | 155,599 | 194,592 | 205,465 | 93,925 | 46,973 | 13,213 | 49.7 | 6.7 |
| Under 15 years ......... | 2,833 | 2,094 | 636 | - | - | - | 103 | - |  |
| 15-19 years .............. | 118,122 | 21,911 | 63,974 | 26,455 | 3,442 | - | 2,340 | 25.8 |  |
| 15 years .............. | 7,778 | 2,813 | 4,764 | - |  |  | 201 | - | - |
| 16 years .............. | 15,870 | 3,078 | 12,166 | 289 | - | - | 337 | 1.9 |  |
| 17 years .............. | 24,768 | 4,100 | 17,233 | 2,842 | 72 | - | 521 | 12.0 | - |
| 18 years .............. | 31,542 | 5,291 | 15,373 | 9,637 | 676 | - | 565 | 33.3 | - |
| 19 years .............. | 38,164 | 6,629 | 14,438 | 13,687 | 2,694 | - | 716 | 43.7 | - |
| 20-24 years .............. | 216,152 | 44,804 | 61,359 | 72,162 | 29,499 | 4,253 | 4,075 | 49.9 | 2.0 |
| 25-29 years .............. | 188,669 | 40,651 | 40,639 | 57,617 | 30,583 | 15,767 | 3,412 | 56.1 | 8.5 |
| 30-34 years .............. | 121,539 | 27,752 | 19,734 | 33,814 | 20,708 | 17,424 | 2,107 | 60.2 | 14.6 |
| 35-39 years .... | 51,601 | 14,425 | 6,910 | 13,006 | 8,242 | 8,064 | 954 | 57.9 | 15.9 |
| 40 years and over ..... | 10,851 | 3,962 | 1,340 | 2,411 | 1,451 | 1,465 | 222 | 50.1 | 13.8 |

[^21]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, 1997

| Period of gestation ${ }^{1}$ and race and Hispanic origin of mother | All births | Weight gain during pregnancy |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Less than 16 pounds | $\begin{gathered} 16-20 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 21-25 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 26-30 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 31-35 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 36-40 \\ \text { pounds } \end{gathered}$ | 41-45 pounds | 46 pounds or more | Not stated | Median weight gain in pounds |
|  | Number |  |  |  |  |  |  |  |  |  |  |
| All gestation periods ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| White, total | 2,646,409 | 245,325 | 251,875 | 348,586 | 463,127 | 364,038 | 320,670 | 170,891 | 280,887 | 201,010 |  |
| White, non-Hispanic ... | 2,155,500 | 190,213 | 198,880 | 286,263 | 385,913 | 308,016 | 271,844 | 145,919 | 239,412 | 129,040 | ... |
| Black, total ........................ | 562,593 | 83,291 | 65,280 | 69,318 | 82,489 | 57,399 | 55,959 | 29,185 | 59,464 | 60,208 | ... |
| Black, non-Hispanic ........... | 545,322 | 81,489 | 63,556 | 67,082 | 79,983 | 55,200 | 54,052 | 28,168 | 57,523 | 58,269 | $\ldots$ |
| Hispanic ${ }^{4}$......................... | 460,819 | 52,903 | 50,899 | 59,061 | 71,947 | 52,093 | 45,487 | 22,995 | 38,837 | 66,597 | ... |
| Under 37 weeks |  |  |  |  |  |  |  |  |  |  |  |
| White, total ........................... | 271,501 | 37,950 | 32,521 | 36,925 | 42,205 | 29,666 | 25,512 | 13,749 | 25,160 | 27,813 | ... |
| White, non-Hispanic ........... | 215,540 | 28,949 | 25,435 | 29,858 | 34,480 | 24,661 | 21,271 | 11,590 | 21,260 | 18,036 | ... |
| Black, total ........................ | 98,888 | 20,902 | 13,372 | 12,149 | 12,791 | 7,689 | 7,410 | 3,491 | 7,501 | 13,583 | ... |
| Black, non-Hispanic ........... | 96,412 | 20,522 | 13,050 | 11,821 | 12,490 | 7,429 | 7,198 | 3,393 | 7,296 | 13,213 | ... |
| Hispanic ${ }^{4}$......................... | 53,520 | 8,725 | 6,866 | 6,816 | 7,352 | 4,778 | 4,058 | 2,035 | 3,682 | 9,208 | $\ldots$ |
| 37-39 weeks |  |  |  |  |  |  |  |  |  |  |  |
| White, total .................. | 1,229,126 | 111,516 | 119,335 | 168,368 | 222,693 | 172,321 | 147,854 | 76,627 | 122,237 | 88,175 |  |
| White, non-Hispanic ........... | 1,002,059 | 86,419 | 94,227 | 138,471 | 185,782 | 145,701 | 124,985 | 65,363 | 103,944 | 57,167 |  |
| Black, total ........................ | 257,231 | 35,988 | 30,132 | 32,790 | 39,190 | 27,671 | 26,239 | 13,472 | 26,713 | 25,036 |  |
| Black, non-Hispanic ........... | 249,594 | 35,207 | 29,388 | 31,775 | 38,047 | 26,647 | 25,363 | 13,017 | 25,834 | 24,316 | ... |
| Hispanic ${ }^{4}$......................... | 214,097 | 24,213 | 24,158 | 28,371 | 34,439 | 24,870 | 21,441 | 10,436 | 17,319 | 28,850 | .. |
| 40 weeks and over |  |  |  |  |  |  |  |  |  |  |  |
| White, total ........................ | 1,137,731 | 95,308 | 99,639 | 142,806 | 197,578 | 161,614 | 146,898 | 80,320 | 133,114 | 80,454 | $\ldots$ |
| White, non-Hispanic .......... | 932,465 | 74,461 | 78,968 | 117,576 | 165,147 | 137,303 | 125,267 | 68,818 | 113,905 | 51,020 |  |
| Black, total ........................ | 203,754 | 26,076 | 21,629 | 24,256 | 30,356 | 21,953 | 22,222 | 12,181 | 25,139 | 19,942 | $\ldots$ |
| Black, non-Hispanic ............ | 196,786 | 25,445 | 20,978 | 23,368 | 29,298 | 21,043 | 21,406 | 11,719 | 24,289 | 19,240 |  |
| Hispanic ${ }^{4}$......................... | 191,160 | 19,808 | 19,751 | 23,751 | 30,018 | 22,365 | 19,903 | 10,479 | 17,771 | 27,314 |  |
|  | Percent distribution |  |  |  |  |  |  |  |  |  |  |
| All gestation periods ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$...................... | 100.0 | 11.1 | 10.8 | 14.3 | 18.6 | 14.3 | 12.7 | 6.7 | 11.4 | ... | 30.5 |
| White, total ........................ | 100.0 | 10.0 | 10.3 | 14.3 | 18.9 | 14.9 | 13.1 | 7.0 | 11.5 | ... | 30.6 |
| White, non-Hispanic .......... | 100.0 | 9.4 | 9.8 | 14.1 | 19.0 | 15.2 | 13.4 | 7.2 | 11.8 | ... | 30.8 |
| Black, total ........................ | 100.0 | 16.6 | 13.0 | 13.8 | 16.4 | 11.4 | 11.1 | 5.8 | 11.8 | ... | 29.7 |
| Black, non-Hispanic ........... | 100.0 | 16.7 | 13.0 | 13.8 | 16.4 | 11.3 | 11.1 | 5.8 | 11.8 | ... | 29.6 |
| Hispanic ${ }^{4}$......................... | 100.0 | 13.4 | 12.9 | 15.0 | 18.3 | 13.2 | 11.5 | 5.8 | 9.9 | ... | 29.8 |
| Under 37 weeks |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$ | 100.0 | 17.9 | 14.0 | 15.0 | 16.8 | 11.4 | 10.0 | 5.2 | 9.8 | ... | 27.4 |
| White, total ........................ | 100.0 | 15.6 | 13.3 | 15.2 | 17.3 | 12.2 | 10.5 | 5.6 | 10.3 | ... | 28.5 |
| White, non-Hispanic .......... | 100.0 | 14.7 | 12.9 | 15.1 | 17.5 | 12.5 | 10.8 | 5.9 | 10.8 | ... | 29.1 |
| Black, total ........................ | 100.0 | 24.5 | 15.7 | 14.2 | 15.0 | 9.0 | 8.7 | 4.1 | 8.8 | ... | 25.3 |
| Black, non-Hispanic ........... | 100.0 | 24.7 | 15.7 | 14.2 | 15.0 | 8.9 | 8.7 | 4.1 | 8.8 | ... | 25.3 |
| Hispanic ${ }^{4}$......................... | 100.0 | 19.7 | 15.5 | 15.4 | 16.6 | 10.8 | 9.2 | 4.6 | 8.3 | ... | 25.9 |
| 37-39 weeks |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$.......................... | 100.0 | 10.7 | 11.0 | 14.7 | 19.1 | 14.6 | 12.6 | 6.5 | 10.7 | $\ldots$ | 30.4 |
| White, total ......................... | 100.0 | 9.8 | 10.5 | 14.8 | 19.5 | 15.1 | 13.0 | 6.7 | 10.7 | ... | 30.5 |
| White, non-Hispanic ........... | 100.0 | 9.1 | 10.0 | 14.7 | 19.7 | 15.4 | 13.2 | 6.9 | 11.0 | ... | 30.6 |
| Black, total ........................ | 100.0 | 15.5 | 13.0 | 14.1 | 16.9 | 11.9 | 11.3 | 5.8 | 11.5 | ... | 30.0 |
| Black, non-Hispanic ........... | 100.0 | 15.6 | 13.0 | 14.1 | 16.9 | 11.8 | 11.3 | 5.8 | 11.5 | ... | 30.0 |
| Hispanic ${ }^{4}$........................... | 100.0 | 13.1 | 13.0 | 15.3 | 18.6 | 13.4 | 11.6 | 5.6 | 9.3 | ... | 29.6 |
| 40 weeks and over | 100.0 | 9.8 | 9.8 | 13.5 | 18.4 | 14.8 | 13.6 | 7.4 | 12.6 |  | 30.8 |
|  |  | 9.8 | 9.8 | 13.5 | 18.4 | 14.8 | 13.6 | 7.4 | 12.6 | ... | 30.8 |
| White, total ....................... | 100.0 | 9.0 | 9.4 | 13.5 | 18.7 | 15.3 | 13.9 | 7.6 | 12.6 | $\ldots$ | 30.9 |
| White, non-Hispanic .......... | 100.0 | 8.4 | 9.0 | 13.3 | 18.7 | 15.6 | 14.2 | 7.8 | 12.9 | ... | 31.3 |
| Black, total ........................ | 100.0 | 14.2 | 11.8 | 13.2 | 16.5 | 11.9 | 12.1 | 6.6 | 13.7 | ... | 30.4 |
| Black, non-Hispanic ............ | 100.0 | 14.3 | 11.8 | 13.2 | 16.5 | 11.9 | 12.1 | 6.6 | 13.7 | ... | 30.4 |
| Hispanic ${ }^{4}$......................... | 100.0 | 12.1 | 12.1 | 14.5 | 18.3 | 13.7 | 12.1 | 6.4 | 10.8 | ... | 30.3 |

[^22]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, 1997
[Low birthweight is defined as weight of less than 2,500 grams ( 5 lb 8 oz )]

| Period of gestation ${ }^{1}$ and race and Hispanic origin of mother | Total | Weight gain during pregnancy |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Less than 16 pounds | $\begin{gathered} 16-20 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 21-25 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 26-30 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 31-35 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 36-40 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 41-45 \\ \text { pounds } \\ \hline \end{gathered}$ | 46 pounds or more | Not stated |
| All gestation periods ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$.................................. | 7.7 | 14.5 | 10.7 | 7.9 | 6.2 | 5.1 | 5.0 | 4.8 | 5.3 | 11.9 |
| White, total .................................. | 6.6 | 12.1 | 9.3 | 7.0 | 5.5 | 4.6 | 4.4 | 4.5 | 4.9 | 10.0 |
| White, non-Hispanic .................... | 6.6 | 12.3 | 9.5 | 7.0 | 5.4 | 4.6 | 4.4 | 4.5 | 4.9 | 10.5 |
| Black, total .................................. | 13.1 | 21.6 | 16.4 | 12.9 | 10.5 | 8.5 | 8.2 | 7.1 | 7.3 | 19.0 |
| Black, non-Hispanic .................... | 13.2 | 21.7 | 16.4 | 13.0 | 10.6 | 8.6 | 8.3 | 7.2 | 7.3 | 19.0 |
| Hispanic, total ${ }^{4}$........................... | 6.9 | 11.6 | 8.5 | 6.8 | 5.5 | 4.6 | 4.6 | 4.2 | 4.5 | 9.0 |
| Mexican ${ }^{4}$................................. | 6.3 | 10.4 | 7.4 | 6.0 | 4.9 | 4.2 | 4.0 | 3.9 | 4.1 | 8.3 |
| Puerto Rican 4 .......................... | 9.4 | 16.6 | 12.8 | 9.7 | 8.2 | 6.7 | 6.1 | 5.2 | 5.7 | 14.6 |
| Cuban 4 .................................... | 6.8 | 15.7 | 10.9 | 8.0 | 6.1 | 3.7 | 4.2 | 5.8 | 5.2 | 13.7 |
| Central and South American ${ }^{4}$..... | 6.4 | 11.2 | 8.5 | 6.8 | 5.5 | 4.2 | 4.7 | 3.7 | 4.2 | 8.4 |
| Other and unknown Hispanic ${ }^{4}$.... | 8.2 | 13.2 | 11.3 | 8.1 | 6.7 | 5.6 | 5.5 | 4.6 | 5.0 | 11.9 |
| Under 37 weeks |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$.................................. | 44.1 | 58.1 | 49.3 | 43.0 | 38.1 | 35.4 | 34.8 | 34.5 | 35.4 | 54.1 |
| White, total .................................. | 42.3 | 55.8 | 47.8 | 41.8 | 36.9 | 34.8 | 34.3 | 34.6 | 35.5 | 51.6 |
| White, non-Hispanic .................... | 43.4 | 57.9 | 49.9 | 43.2 | 37.8 | 35.8 | 35.1 | 35.4 | 36.5 | 55.2 |
| Black, total ................................. | 49.9 | 62.9 | 53.9 | 47.2 | 42.8 | 38.3 | 37.1 | 35.0 | 35.4 | 60.2 |
| Black, non-Hispanic .................... | 50.0 | 63.0 | 54.0 | 47.4 | 43.0 | 38.5 | 37.2 | 35.2 | 35.6 | 60.1 |
| Hispanic 4 ................................. | 37.3 | 48.1 | 40.1 | 35.5 | 31.7 | 29.1 | 29.8 | 27.8 | 28.4 | 44.0 |
| 37-39 weeks |  |  |  |  |  |  |  |  |  |  |
| All races 3 | 4.3 | 6.8 | 5.8 | 4.6 | 3.8 | 3.2 | 3.2 | 3.2 | 3.3 | 5.3 |
| White, total .................................. | 3.7 | 5.9 | 5.0 | 4.0 | 3.4 | 2.8 | 2.8 | 2.9 | 3.0 | 4.3 |
| White, non-Hispanic .................... | 3.7 | 5.9 | 5.1 | 4.0 | 3.3 | 2.8 | 2.8 | 2.9 | 3.0 | 4.3 |
| Black, total .................................. | 7.0 | 9.9 | 8.6 | 7.5 | 6.2 | 5.3 | 5.2 | 4.9 | 4.7 | 8.5 |
| Black, non-Hispanic .................... | 7.0 | 10.0 | 8.7 | 7.6 | 6.2 | 5.3 | 5.2 | 5.0 | 4.8 | 8.6 |
| Hispanic 4 ................................. | 4.0 | 5.9 | 5.0 | 4.3 | 3.6 | 3.1 | 3.1 | 2.9 | 3.0 | 4.5 |
| 40 weeks and over |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$.................................. | 1.5 | 2.7 | 2.1 | 1.7 | 1.3 | 1.0 | 1.0 | 0.9 | 0.9 | 2.1 |
| White, total .................................. | 1.2 | 2.2 | 1.7 | 1.4 | 1.1 | 0.9 | 0.8 | 0.8 | 0.8 | 1.7 |
| White, non-Hispanic .................... | 1.2 | 2.1 | 1.7 | 1.4 | 1.1 | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 |
| Black, total .................................. | 2.9 | 4.6 | 3.9 | 3.0 | 2.5 | 2.2 | 2.2 | 1.6 | 1.5 | 3.7 |
| Black, non-Hispanic .................... | 2.9 | 4.6 | 3.9 | 3.1 | 2.5 | 2.2 | 2.2 | 1.6 | 1.5 | 3.8 |
| Hispanic 4 ................................. | 1.5 | 2.5 | 1.8 | 1.6 | 1.4 | 1.1 | 1.0 | 0.8 | 1.1 | 1.8 |

[^23]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, 1997

| Characteristic | $\begin{gathered} \text { All } \\ \text { races } \end{gathered}$ | White | Black | American Indian 1 | Asian or Pacific Islander |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total | Chinese | Japanese | Hawaiian | Filipino | Other |
| All Births Mother |  |  |  |  |  |  |  |  |  |  |
| Prenatal care beginning in the first |  |  |  |  |  |  |  |  |  |  |
| Late or no prenatal care ...................... | 3.9 | 3.2 | 7.3 | 8.6 | 3.8 | 2.4 | 2.7 | 5.4 | 3.3 | 4.4 |
| Smoker 2 ......................................... | 13.2 | 14.3 | 9.7 | 20.8 | 3.2 | 1.0 | 4.7 | 15.8 | 3.4 | 2.5 |
| Drinker 3 ......................................... | 1.2 | 1.1 | 1.7 | 3.6 | 0.4 | 0.2 | 1.0 | 1.7 | 0.3 | 0.3 |
| Weight gain of less than $16 \mathrm{lbs}{ }^{4} \ldots \ldots .$. | 11.1 | 10.0 | 16.6 | 15.3 | 9.9 | 6.4 | 12.6 | 13.1 | 8.4 | 10.6 |
| Median weight gain 4 ......................... | 30.5 | 30.6 | 29.7 | 30.2 | 30.0 | 30.3 | 26.0 | 30.6 | 30.3 | 29.5 |
| Cesarean delivery rate ........................ | 20.8 | 20.7 | 21.8 | 18.0 | 19.0 | 19.1 | 15.1 | 16.2 | 22.5 | 18.3 |
| Infant |  |  |  |  |  |  |  |  |  |  |
| Preterm births 5 ............................... | 11.4 | 10.2 | 17.5 | 12.2 | 10.2 | 7.4 | 8.1 | 11.0 | 11.9 | 10.6 |
| Birthweight |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 6 ..................... | 1.4 | 1.1 | 3.0 | 1.2 | 1.1 | 0.7 | 0.8 | 1.4 | 1.3 | 1.1 |
| Low birthweight ${ }^{7}$............................ | 7.5 | 6.5 | 13.0 | 6.8 | 7.2 | 5.1 | 6.8 | 7.2 | 8.3 | 7.5 |
| 4,000 grams or more ${ }^{8} \ldots \ldots . . . . . . . . . . . . .$. | 10.1 | 11.2 | 5.3 | 12.4 | 5.8 | 6.5 | 4.8 | 8.3 | 5.8 | 5.6 |
| 5-minute Apgar score of less than 79 .. | 1.4 | 1.2 | 2.4 | 1.4 | 1.0 | 0.7 | 0.9 | 1.6 | 1.2 | 1.0 |
| Births to mothers born in the 50 States and D.C. Mother |  |  |  |  |  |  |  |  |  |  |
| Prenatal care beginning in the first |  |  |  |  |  |  |  |  |  |  |
| Late or no prenatal care ...................... | 3.5 | 2.6 | 7.3 | 8.7 | 4.4 | 1.8 | 2.8 | 5.4 | 4.2 | 5.3 |
| Smoker 2 .......................................... | 15.1 | 16.1 | 10.7 | 21.3 | 10.6 | 5.7 | 6.6 | 15.8 | 8.3 | 9.8 |
| Drinker 3 ......................................... | 1.3 | 1.2 | 1.8 | 3.7 | 1.1 | * | * | 1.7 | 0.8 | 0.9 |
| Weight gain of less than $16 \mathrm{lbs}{ }^{4} \ldots \ldots .$. | 11.0 | 9.7 | 16.9 | 15.4 | 10.8 | 7.8 | 14.5 | 13.1 | 10.5 | 8.3 |
| Median weight gain ${ }^{4}$........................ | 30.6 | 30.7 | 29.6 | 30.1 | 30.4 | 30.2 | 26.9 | 30.6 | 30.6 | 30.8 |
| Cesarean delivery rate ........................ | 21.0 | 20.9 | 21.6 | 17.9 | 16.7 | 17.0 | 17.2 | 16.2 | 17.2 | 16.2 |
| Infant |  |  |  |  |  |  |  |  |  |  |
| Preterm births 5 | 11.5 | 10.2 | 17.9 | 12.3 | 10.8 | 9.2 | 9.3 | 11.0 | 11.8 | 11.0 |
| Birthweight 6 |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 6 ..................... | 1.5 | 1.1 | 3.0 | 1.2 | 1.2 | 0.7 | 0.9 | 1.4 | 1.2 | 1.3 |
| Low birthweight ${ }^{7}$............................ | 7.7 | 6.6 | 13.3 | 6.7 | 7.7 | 7.2 | 7.2 | 7.2 | 9.0 | 7.5 |
| 4,000 grams or more ${ }^{8} \ldots \ldots . . . . . . . . . . . .$. | 10.4 | 11.5 | 5.0 | 12.5 | 7.2 | 5.3 | 6.0 | 8.3 | 5.5 | 8.8 |
| 5-minute Apgar score of less than 79 .. | 1.5 | 1.2 | 2.5 | 1.3 | 1.3 | * | 1.2 | 1.6 | 1.4 | 1.2 |
| Births to mothers born outside the 50 Sates and D.C. Mother |  |  |  |  |  |  |  |  |  |  |
| Prenatal care beginning in the first |  |  |  |  |  |  |  |  |  |  |
| Late or no prenatal care ...................... | 5.7 | 6.2 | 6.4 | 6.6 | 3.7 | 2.4 | 2.6 | * | 3.1 | 4.3 |
| Smoker 2 ......................................... | 2.8 | 3.3 | 1.8 | 7.0 | 1.7 | 0.6 | 3.2 | * | 2.4 | 1.8 |
| Drinker 3 ........................................ | 0.5 | 0.6 | 0.4 | * | 0.2 | * | 1.2 | * | 0.2 | 0.2 |
| Weight gain of less than $16 \mathrm{lbs}{ }^{4} \ldots \ldots .$. | 12.1 | 12.5 | 13.5 | 12.7 | 9.7 | 6.3 | 11.3 | * | 8.0 | 10.8 |
| Median weight gain ${ }^{4}$........................ | 29.9 | 29.9 | 30.1 | 30.2 | 29.7 | 30.3 | 25.8 | 32.5 | 30.3 | 29.1 |
| Cesarean delivery rate ........................ | 20.1 | 19.8 | 23.9 | 18.1 | 19.4 | 19.3 | 13.6 | 19.0 | 23.6 | 18.5 |
| Infant |  |  |  |  |  |  |  |  |  |  |
| Preterm births 5 ............................... | 10.6 | 10.3 | 14.2 | 10.9 | 10.1 | 7.2 | 7.2 | * | 11.9 | 10.6 |
| Birthweight |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 6 ..................... | 1.1 | 1.0 | 2.5 | 1.1 | 1.0 | 0.7 | 0.7 | * | 1.3 | 1.0 |
| Low birthweight ${ }^{7}$............................... | 6.4 | 5.8 | 9.7 | 8.2 | 7.1 | 4.8 | 6.5 | * | 8.2 | 7.5 |
| 4,000 grams or more ${ }^{8} \ldots \ldots . . . . . . . . . . . . .$. | 8.9 | 9.9 | 8.4 | 8.1 | 5.6 | 6.6 | 3.8 | * | 5.9 | 5.3 |
| 5-minute Apgar score of less than 79 .. | 1.2 | 1.1 | 1.8 | 1.7 | 1.0 | 0.8 | 0.7 | * | 1.2 | 1.0 |

[^24]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, 1997

| Characteristic | All origins ${ }^{1}$ | Origin of mother |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Hispanic |  |  |  |  |  | Non-Hispanic |  |  |
|  |  | Total | Mexican | Puerto <br> Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{2}$ | White | Black |
| All Births Mother |  |  |  |  |  |  |  |  |  |  |
| Prenatal care beginning in the first |  |  |  |  |  |  |  |  |  |  |
| Late or no prenatal care ............... | 3.9 | 6.2 | 6.7 | 5.4 | 1.5 | 5.0 | 5.3 | 3.4 | 2.4 | 7.3 |
| Smoker ${ }^{4}$............................................ | 13.2 | 4.1 | 2.9 | 11.0 | 4.2 | 1.8 | 8.5 | 14.7 | 16.5 | 9.8 |
| Drinker ${ }^{4}$............................................ | 1.2 | 0.7 | 0.6 | 1.0 | 0.4 | 0.4 | 1.3 | 1.3 | 1.2 | 1.7 |
| Weight gain of less than $16 \mathrm{lbs} 5 \ldots . . . . . .$. | 11.1 | 13.4 | 14.8 | 12.6 | 7.3 | 10.6 | 12.6 | 10.8 | 9.4 | 16.7 |
| Median weight gain 5 ........................... | 30.5 | 29.8 | 28.5 | 30.4 | 32.3 | 30.3 | 30.3 | 30.6 | 30.8 | 29.6 |
| Cesarean delivery rate | 20.8 | 20.2 | 19.7 | 20.8 | 30.5 | 21.9 | 19.4 | 20.9 | 20.9 | 21.8 |
| Infant |  |  |  |  |  |  |  |  |  |  |
| Preterm births 6 | 11.4 | 11.2 | 10.9 | 13.7 | 11.0 | 11.2 | 12.0 | 11.4 | 9.9 | 17.6 |
| Birthweight |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 7 ........................ | 1.4 | 1.1 | 1.0 | 1.8 | 1.4 | 1.2 | 1.3 | 1.5 | 1.1 | 3.1 |
| Low birthweight 8 | 7.5 | 6.4 | 6.0 | 9.4 | 6.8 | 6.3 | 7.9 | 7.8 | 6.5 | 13.1 |
| 4,000 grams or more 9 ....................... | 10.1 | 8.9 | 9.3 | 6.7 | 10.5 | 8.9 | 7.6 | 10.3 | 11.9 | 5.3 |
| 5-minute Apgar score of less than $7^{10} \ldots$ | 1.4 | 1.2 | 1.2 | 1.5 | 0.9 | 1.0 | 1.1 | 1.5 | 1.2 | 2.5 |
| Births to mothers born in the 50 States and D.C. Mother |  |  |  |  |  |  |  |  |  |  |
| Prenatal care beginning in the first <br> $\begin{array}{lllllllllllll}\text { trimester ............................................ } & 84.0 & 76.2 & 75.7 & 76.5 & 90.3 & 80.4 & 75.8 & 84.8 & 88.0 & 71.9\end{array}$ |  |  |  |  |  |  |  |  |  |  |
| Late or no prenatal care ........................ | 3.5 | 5.1 | 5.2 | 5.4 | 2.0 | 4.0 | 5.3 | 3.3 | 2.3 | 7.3 |
| Smoker ${ }^{3}$ | 15.1 | 7.3 | 5.4 | 12.6 | 5.6 | 5.6 | 10.2 | 15.7 | 16.9 | 10.7 |
| Drinker 4 $\qquad$ | 1.3 | 1.1 | 1.0 | 1.1 | 0.6 | 0.8 | 1.7 | 1.3 | 1.2 | 1.8 |
| Weight gain of less than 16 lbs 5 ........... | 11.0 | 12.4 | 13.1 | 11.8 | 7.3 | 7.6 | 12.4 | 10.9 | 9.4 | 17.0 |
| Median weight gain ${ }^{5}$............................ | 30.6 | 29.8 | 28.5 | 30.4 | 32.3 | 30.3 | 30.3 | 30.6 | 30.8 | 29.6 |
| Cesarean delivery rate .......................... | 21.0 | 20.6 | 20.7 | 20.6 | 27.4 | 20.1 | 19.4 | 21.0 | 20.9 | 21.6 |
| Infant |  |  |  |  |  |  |  |  |  |  |
| Preterm births ${ }^{6}$................................... | 11.5 | 12.0 | 11.7 | 13.8 | 10.6 | 10.6 | 12.1 | 11.5 | 10.0 | 17.9 |
| Birthweight |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 7 ........................ | 1.5 | 1.3 | 1.2 | 1.9 | 1.5 | 1.4 | 1.3 | 1.5 | 1.1 | 3.0 |
| Low birthweight 8 .............................. | 7.7 | 7.3 | 6.8 | 9.6 | 6.8 | 7.0 | 8.3 | 7.8 | 6.5 | 13.4 |
| 4,000 grams or more 9 ....................... | 10.4 | 8.0 | 8.4 | 6.7 | 9.5 | 9.0 | 7.1 | 10.6 | 11.9 | 5.0 |
| 5 -minute Apgar score of less than $7^{10} \ldots$ | 1.5 | 1.2 | 1.2 | 1.4 | 0.6 | 1.3 | 1.2 | 1.5 | 1.2 | 2.5 |
| Births to mothers born outside the 50 States and D.C. Mother |  |  |  |  |  |  |  |  |  |  |
| Prenatal care beginning in the first |  |  |  |  |  |  |  |  |  |  |
| Late or no prenatal care ........................ | 5.7 | 6.9 | 7.7 | 5.3 | 1.2 | 5.1 | 5.1 | 4.1 | 3.5 | 6.4 |
| Smoker 3 ............................................ | 2.8 | 1.8 | 1.0 | 8.4 | 3.4 | 1.4 | 2.7 | 4.0 | 7.5 | 1.6 |
| Drinker 4 ............................................ | 0.5 | 0.4 | 0.3 | 0.9 | * | 0.4 | 0.4 | 0.6 | 1.1 | 0.3 |
| Weight gain of less than 16 lbs 5 ........... | 12.1 | 14.2 | 16.1 | 14.0 | 7.3 | 10.9 | 12.7 | 9.9 | 8.1 | 13.9 |
| Median weight gain 5 | 29.9 | 28.5 | 26.8 | 30.1 | 32.2 | 30.2 | 30.1 | 30.3 | 30.6 | 30.1 |
| Cesarean delivery rate | 20.1 | 20.0 | 19.0 | 21.2 | 32.5 | 22.0 | 19.7 | 20.2 | 19.4 | 23.9 |
| Infant |  |  |  |  |  |  |  |  |  |  |
| Preterm births ${ }^{6}$................................... | 10.6 | 10.7 | 10.3 | 13.4 | 11.3 | 11.3 | 11.2 | 10.5 | 9.2 | 14.5 |
| Birthweight 10.0 |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 7 | 1.1 | 1.0 | 0.9 | 1.7 | 1.2 | 1.1 | 1.3 | 1.3 | 1.0 | 2.7 |
| Low birthweight 8 | 6.4 | 5.8 | 5.4 | 9.0 | $6.7$ | 6.2 | 6.4 | $7.2$ | 6.0 | 10.0 |
| 4,000 grams or more ${ }^{9}$ | 8.9 | 9.5 | 9.8 | 6.8 | 11.1 | 8.9 | 9.0 | 8.1 | 11.3 | 8.3 |
| 5-minute Apgar score of less than 710 ... | 1.2 | 1.2 | 1.2 | 1.6 | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 | 1.9 |

1 Includes origin not stated.
Includes races other than white and black.
3 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.
4 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. Median weight gain shown in pounds.
6 Born prior to 37 completed weeks of gestation.
7 Birthweight of less than 1,500 grams ( 3 lb 4 oz ).
$8 \begin{aligned} & \text { Birthweight of less than } 1,500 \text { grams ( } 3 \mathrm{lb} 4 \mathrm{oz} \text { ). } \\ & \text { Birthweight of less than } 2,500 \text { grams ( } 5 \mathrm{lb} 8 \mathrm{oz} \text { ). }\end{aligned}$
9 Equivalent to 8 lb 14 oz .
10 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, 1997
[Rates are number of live births with specified medical risk factor per 1,000 live births in specified group]

| Medical risk factor and race of mother | $\underset{\text { births }}{ }{ }^{\text {All }}$ | Medical risk factor reported | Age of mother |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All ages | Under 20 years | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 <br> years | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-54 <br> years |  |
| All races ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Anemia | 3,880,894 | 77,334 | 20.2 | 28.6 | 24.2 | 18.2 | 15.8 | 15.8 | 17.3 | 47,176 |
| Cardiac disease | 3,880,894 | 19,929 | 5.2 | 2.9 | 3.6 | 5.0 | 6.7 | 8.0 | 8.8 | 47,176 |
| Acute or chronic lung disease | 3,880,894 | 37,153 | 9.7 | 12.7 | 10.7 | 8.7 | 8.6 | 8.6 | 9.6 | 47,176 |
| Diabetes .................................................... | 3,880,894 | 101,176 | 26.4 | 8.2 | 16.3 | 25.5 | 35.0 | 47.8 | 64.9 | 47,176 |
| Genital herpes ${ }^{3}$.......................................... | 3,546,920 | 31,550 | 9.0 | 6.1 | 8.1 | 8.9 | 10.1 | 11.9 | 12.0 | 46,065 |
| Hydramnios/Oligohydramnios ....................... | 3,880,894 | 50,025 | 13.0 | 14.5 | 13.2 | 12.4 | 12.2 | 13.6 | 17.8 | 47,176 |
| Hemoglobinopathy ...................................... | 3,880,894 | 3,123 | 0.8 | 1.2 | 0.9 | 0.7 | 0.7 | 0.8 | 1.0 | 47,176 |
| Hypertension, chronic | 3,880,894 | 26,378 | 6.9 | 2.5 | 4.1 | 6.1 | 8.6 | 13.9 | 23.0 | 47,176 |
| Hypertension, pregnancy-associated .............. | 3,880,894 | 141,235 | 36.8 | 42.8 | 37.0 | 35.7 | 33.6 | 37.2 | 46.2 | 47,176 |
| Eclampsia | 3,880,894 | 12,782 | 3.3 | 4.9 | 3.5 | 3.0 | 2.7 | 3.1 | 4.2 | 47,176 |
| Incompetent cervix ...................................... | 3,880,894 | 10,208 | 2.7 | 1.3 | 1.9 | 2.6 | 3.4 | 4.2 | 4.4 | 47,176 |
| Previous infant 4000+ grams ........................ | 3,880,894 | 41,934 | 10.9 | 1.3 | 6.5 | 11.5 | 15.7 | 19.1 | 21.1 | 47,176 |
| Previous preterm or small-for- <br> gestational-age infant $\qquad$ | 3,880,894 | 46,152 | 12.0 | 5.4 | 12.2 | 12.5 | 13.2 | 15.1 | 16.9 | 47,176 |
| Renal disease ${ }^{4}$.................................................. | 3,819,980 | 10,886 | 2.9 | 3.3 | 3.2 | 2.9 | 2.5 | 2.5 | 2.7 | 48,127 |
| Rh sensitization ${ }^{5}$ | 3,843,605 | 24,505 | 6.5 | 5.3 | 6.0 | 6.6 | 7.1 | 7.2 | 6.4 | 48,527 |
| Uterine bleeding ${ }^{3}$....................................... | 3,546,920 | 24,463 | 7.0 | 5.0 | 6.0 | 7.1 | 7.9 | 8.7 | 9.4 | 46,065 |
| White |  |  |  |  |  |  |  |  |  |  |
| Anemia | 3,072,640 | 53,347 | 17.6 | 25.2 | 20.9 | 16.1 | 14.2 | 14.2 | 16.0 | 35,423 |
| Cardiac disease | 3,072,640 | 16,730 | 5.5 | 2.9 | 3.6 | 5.2 | 7.2 | 8.5 | 9.4 | 35,423 |
| Acute or chronic lung disease ....................... | 3,072,640 | 28,357 | 9.3 | 12.0 | 10.2 | 8.6 | 8.6 | 8.5 | 9.3 | 35,423 |
| Diabetes | 3,072,640 | 78,155 | 25.7 | 8.6 | 16.4 | 24.6 | 32.7 | 44.3 | 59.9 | 35,423 |
| Genital herpes ${ }^{3}$.......................................... | 2,788,319 | 25,156 | 9.1 | 5.3 | 7.3 | 8.9 | 10.6 | 13.0 | 13.8 | 34,503 |
| Hydramnios/Oligohydramnios | 3,072,640 | 37,670 | 12.4 | 13.5 | 12.7 | 11.8 | 11.7 | 12.9 | 16.5 | 35,423 |
| Hemoglobinopathy | 3,072,640 | 1,056 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.7 | 35,423 |
| Hypertension, chronic ................................... | 3,072,640 | 18,199 | 6.0 | 2.1 | 3.5 | 5.4 | 7.3 | 11.4 | 18.7 | 35,423 |
| Hypertension, pregnancy-associated .............. | 3,072,640 | 112,553 | 37.1 | 42.7 | 38.0 | 36.6 | 33.6 | 36.7 | 44.8 | 35,423 |
| Eclampsia .................................................. | 3,072,640 | 9,525 | 3.1 | 4.4 | 3.3 | 2.9 | 2.7 | 3.0 | 4.1 | 35,423 |
| Incompetent cervix | 3,072,640 | 7,207 | 2.4 | 1.2 | 1.6 | 2.1 | 3.1 | 4.0 | 4.3 | 35,423 |
| Previous infant 4000+ grams ........................ | 3,072,640 | 37,648 | 12.4 | 1.5 | 7.2 | 12.7 | 17.3 | 21.1 | 23.7 | 35,423 |
| Previous preterm or small-for-gestational-age infant | 3,072,640 | 35,155 | 11.6 | 5.0 | 11.3 | 11.8 | 12.8 | 14.6 | 16.5 | 35,423 |
| Renal disease ${ }^{4}$............................................................. | 3,032,203 | 9,019 | 3.0 | 3.6 | 3.4 | 3.0 | 2.7 | 2.5 | 2.6 | 36,242 |
| Rh sensitization 5 | 3,039,375 | 22,144 | 7.4 | 6.3 | 6.8 | 7.5 | 8.0 | 8.1 | 7.2 | 36,660 |
| Uterine bleeding ${ }^{3}$................................................................... | 2,788,319 | 20,256 | 7.4 | 5.3 | 6.4 | 7.4 | 8.2 | 8.9 | 9.7 | 34,503 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Anemia ..................................................... | 599,913 | 19,447 | 32.7 | 36.1 | 36.1 | 30.6 | 27.7 | 27.6 | 27.1 | 6,044 |
| Cardiac disease .......................................... | 599,913 | 2,624 | 4.4 | 3.1 | 4.1 | 4.7 | 5.3 | 6.6 | 8.0 | 6,044 |
| Acute or chronic lung disease ....................... | 599,913 | 7,628 | 12.8 | 15.2 | 13.6 | 11.5 | 10.9 | 10.9 | 12.9 | 6,044 |
| Diabetes | 599,913 | 14,562 | 24.5 | 6.8 | 15.1 | 26.7 | 42.7 | 59.1 | 79.5 | 6,044 |
| Genital herpes ${ }^{3}$......................................... | 560,429 | 5,547 | 10.0 | 8.1 | 11.4 | 11.2 | 9.8 | 7.6 | 5.8 | 5,898 |
| Hydramnios/Oligohydramnios ....................... | 599,913 | 9,837 | 16.6 | 17.3 | 15.4 | 15.9 | 16.6 | 18.8 | 26.0 | 6,044 |
| Hemoglobinopathy ..................................... | 599,913 | 1,916 | 3.2 | 3.5 | 3.2 | 3.2 | 2.9 | 3.3 | 3.4 | 6,044 |
| Hypertension, chronic ................................... | 599,913 | 7,229 | 12.2 | 3.4 | 6.5 | 11.8 | 20.8 | 35.2 | 55.8 | 6,044 |
| Hypertension, pregnancy-associated .............. | 599,913 | 23,560 | 39.7 | 44.1 | 35.2 | 36.8 | 41.0 | 46.5 | 58.4 | 6,044 |
| Eclampsia ................................................. | 599,913 | 2,716 | 4.6 | 6.0 | 4.5 | 4.0 | 3.7 | 4.2 | 5.4 | 6,044 |
| Incompetent cervix ...................................... | 599,913 | 2,664 | 4.5 | 1.7 | 3.3 | 6.1 | 7.1 | 7.1 | 5.5 | 6,044 |
| Previous infant 4000+ grams ........................ | 599,913 | 2,805 | 4.7 | 0.9 | 3.7 | 6.1 | 7.7 | 8.9 | 9.6 | 6,044 |
| Previous preterm or small-for-gestational-age infant | 599,913 | 9,143 | 15.4 | 6.4 | 16.0 | 19.1 | 18.9 | 20.0 | 19.9 | 6,044 |
| Renal disease ${ }^{4}$.......................................... | 580,083 | 1,459 | 2.5 | 2.6 | 2.9 | 2.3 | 2.2 | 2.3 | 3.0 | 6,169 |
| Rh sensitization 5 ....................................... | 597,110 | 1,985 | 3.4 | 3.1 | 3.3 | 3.5 | 3.7 | 3.6 | 3.7 | 6,142 |
| Uterine bleeding 3 ..................................................................... | 560,429 | 3,050 | 5.5 | 4.1 | 4.9 | 6.1 | 6.6 | 7.1 | 7.3 | 5,898 |

[^25]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, 1997
[Rates are number of live births with specified risk factors, complications, or procedures per 1,000 live births in specified group]

| Medical risk factor, complication, and obstetric procedure | All races | White | Black | American Indian ${ }^{1}$ | Asian or Pacific Islander |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total | Chinese | Japanese | Hawaiian | Filipino | Other |
|  | Number |  |  |  |  |  |  |  |  |  |
| Medical risk factors |  |  |  |  |  |  |  |  |  |  |
| Anemia | 77,334 | 53,347 | 19,447 | 1,803 | 2,737 | 248 | 111 | 164 | 430 | 1,784 |
| Diabetes | 101,176 | 78,155 | 14,562 | 1,841 | 6,618 | 1,218 | 222 | 132 | 1,197 | 3,849 |
| Hypertension, pregnancy-associated ........... | 141,235 | 112,553 | 23,560 | 1,802 | 3,320 | 403 | 151 | 138 | 881 | 1,747 |
| Uterine bleeding ${ }^{2}$..................................... | 24,463 | 20,256 | 3,050 | 265 | 892 | 157 | 47 | 22 | 168 | 498 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy ........................ | 215,127 | 156,876 | 46,465 | 2,301 | 9,485 | 1,495 | 294 | 353 | 1,895 | 5,448 |
| Premature rupture of membrane ................. | 108,831 | 83,123 | 19,703 | 1,594 | 4,411 | 669 | 276 | 178 | 756 | 2,532 |
| Dysfunctional labor ................................... | 106,157 | 85,168 | 15,143 | 1,344 | 4,502 | 778 | 226 | 166 | 819 | 2,513 |
| Breech/Malpresentation ............................ | 147,248 | 122,347 | 17,870 | 1,389 | 5,642 | 993 | 312 | 183 | 1,018 | 3,136 |
| Cephalopelvic disproportion ....................... | 81,208 | 66,674 | 9,931 | 724 | 3,879 | 662 | 195 | 96 | 818 | 2,108 |
| Fetal distress ${ }^{3}$......................................... | 141,502 | 105,621 | 29,248 | 1,310 | 5,323 | 818 | 217 | 121 | 902 | 3,265 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis ......................................... | 118,298 | 101,043 | 10,209 | 692 | 6,354 | 1,907 | 652 | 120 | 1,077 | 2,598 |
| Electronic fetal monitoring ......................... | 3,207,918 | 2,548,914 | 497,949 | 30,505 | 130,550 | 22,146 | 6,480 | 3,927 | 23,727 | 74,270 |
| Induction of labor ...................................... | 708,151 | 598,273 | 82,039 | 7,115 | 20,724 | 3,456 | 1,153 | 733 | 3,416 | 11,966 |
| Ultrasound .............................................. | 2,480,726 | 2,008,198 | 349,846 | 22,313 | 100,369 | 17,810 | 5,501 | 2,933 | 18,261 | 55,864 |
| Stimulation of labor .................................... | 670,409 | 541,361 | 95,011 | 5,854 | 28,183 | 5,209 | 1,307 | 613 | 4,487 | 16,567 |
|  | Rate |  |  |  |  |  |  |  |  |  |


| Medical risk factors |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anemia | 20.2 | 17.6 | 32.7 | 48.1 | 16.6 | 8.9 | 13.5 | 34.3 | 14.1 | 19.1 |
| Diabetes | 26.4 | 25.7 | 24.5 | 49.1 | 40.1 | 43.6 | 27.0 | 27.6 | 39.2 | 41.1 |
| Hypertension, pregnancy-associated ........... | 36.8 | 37.1 | 39.7 | 48.1 | 20.1 | 14.4 | 18.4 | 28.8 | 28.8 | 18.7 |
| Uterine bleeding 2 ..................................... | 7.0 | 7.4 | 5.5 | 7.2 | 5.7 | 5.9 | 5.9 | 4.7 | 5.7 | 5.7 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy ........................ | 56.0 | 51.6 | 78.1 | 61.3 | 56.8 | 53.4 | 34.1 | 66.4 | 61.1 | 58.0 |
| Premature rupture of membrane .................. | 28.3 | 27.3 | 33.1 | 42.5 | 26.4 | 23.9 | 32.0 | 33.5 | 24.4 | 26.9 |
| Dysfunctional labor ................................... | 27.6 | 28.0 | 25.4 | 35.8 | 27.0 | 27.8 | 26.2 | 31.2 | 26.4 | 26.7 |
| Breech/Malpresentation ............................ | 38.3 | 40.2 | 30.0 | 37.0 | 33.8 | 35.5 | 36.1 | 34.4 | 32.8 | 33.4 |
| Cephalopelvic disproportion ....................... | 21.1 | 21.9 | 16.7 | 19.3 | 23.2 | 23.7 | 22.6 | 18.0 | 26.4 | 22.4 |
| Fetal distress ${ }^{3}$......................................... | 40.4 | 38.3 | 52.7 | 35.7 | 33.8 | 30.6 | 25.8 | 23.0 | 30.1 | 37.4 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis .......................................... | 30.7 | 33.1 | 17.1 | 18.4 | 38.1 | 67.7 | 76.9 | 23.6 | 34.9 | 27.6 |
| Electronic fetal monitoring .......................... | 833.0 | 835.7 | 834.8 | 809.8 | 782.5 | 786.0 | 764.0 | 772.1 | 768.1 | 788.4 |
| Induction of labor ...................................... | 183.9 | 196.2 | 137.5 | 188.9 | 124.2 | 122.7 | 135.9 | 144.1 | 110.6 | 127.0 |
| Ultrasound ............................................. | 644.2 | 658.4 | 586.5 | 592.4 | 601.6 | 632.1 | 648.5 | 576.7 | 591.2 | 593.0 |
| Stimulation of labor .................................... | 174.1 | 177.5 | 159.3 | 155.4 | 168.9 | 184.9 | 154.1 | 120.5 | 145.3 | 175.9 |

[^26]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, 1997
[Rates are number of live births with specified risk factors, complications or procedures per 1,000 live births in specified group]

| Medical risk factor, complication, and obstetric procedure | All origins ${ }^{1}$ | Origin of mother |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Hispanic |  |  |  |  |  | Non-Hispanic |  |  |
|  |  | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{2}$ | White | Black |
|  | Number |  |  |  |  |  |  |  |  |  |
| Medical risk factors |  |  |  |  |  |  |  |  |  |  |
| Anemia | 77,334 | 14,243 | 9,142 | 1,742 | 236 | 1,599 | 1,524 | 61,781 | 38,490 | 18,939 |
| Diabetes | 101,176 | 17,687 | 11,632 | 1,925 | 296 | 2,621 | 1,213 | 81,650 | 59,496 | 13,970 |
| Hypertension, pregnancy-associated ........... | 141,235 | 18,888 | 12,736 | 1,520 | 385 | 2,615 | 1,632 | 120,363 | 92,537 | 22,911 |
| Uterine bleeding ${ }^{3} \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$ | 24,463 | 2,542 | 1,430 | 377 | 62 | 409 | 264 | 21,417 | 17,369 | 2,937 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy ........................ | 215,127 | 40,192 | 26,855 | 3,606 | 556 | 6,605 | 2,570 | 171,835 | 115,566 | 44,950 |
| Premature rupture of membrane .................. | 108,831 | 13,922 | 8,377 | 1,734 | 322 | 2,172 | 1,317 | 92,595 | 67,762 | 19,102 |
| Dysfunctional labor .................................... | 106,157 | 15,883 | 9,017 | 1,871 | 564 | 2,846 | 1,585 | 87,686 | 67,576 | 14,466 |
| Breech/Malpresentation ............................. | 147,248 | 21,226 | 14,141 | 1,914 | 499 | 2,984 | 1,688 | 123,636 | 99,651 | 17,241 |
| Cephalopelvic disproportion ........................ | 81,208 | 11,226 | 7,915 | 860 | 245 | 1,470 | 736 | 68,916 | 54,802 | 9,682 |
| Fetal distress ${ }^{4}$........................................ | 141,502 | 18,238 | 10,915 | 2,158 | 350 | 3,164 | 1,651 | 120,949 | 86,099 | 28,461 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 118,298 | 10,035 | 4,806 | 1,332 | 448 | 2,392 | 1,057 | 105,087 | 88,459 | 9,811 |
| Electronic fetal monitoring .......................... | 3,207,918 | 551,794 | 379,252 | 47,715 | 11,290 | 76,720 | 36,817 | 2,611,983 | 1,974,292 | 482,426 |
| Induction of labor ........................................ | 708,151 | 85,152 | 55,777 | 7,815 | 2,464 | 11,511 | 7,585 | 610,753 | 504,463 | 79,586 |
| Ultrasound ............................................... | 2,480,726 | 380,311 | 256,441 | 35,129 | 7,583 | 52,625 | 28,533 | 2,061,480 | 1,605,066 | 338,448 |
| Stimulation of labor .................................... | 670,409 | 111,715 | 74,489 | 11,316 | 2,372 | 16,146 | 7,392 | 547,412 | 422,838 | 91,581 |
|  | Rate |  |  |  |  |  |  |  |  |  |


| Medical risk factors |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anemia | 20.2 | 20.2 | 18.4 | 32.2 | 18.4 | 16.6 | 34.4 | 20.1 | 16.7 | 32.9 |
| Diabetes | 26.4 | 25.1 | 23.4 | 35.6 | 23.1 | 27.1 | 27.4 | 26.5 | 25.8 | 24.3 |
| Hypertension, pregnancy-associated ........... | 36.8 | 26.8 | 25.7 | 28.1 | 30.0 | 27.1 | 36.9 | 39.1 | 40.1 | 39.8 |
| Uterine bleeding ${ }^{3}$..................................... | 7.0 | 4.6 | 3.9 | 7.1 | 4.9 | 4.6 | 7.1 | 7.4 | 8.0 | 5.5 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy ........................ | 56.0 | 56.9 | 53.9 | 66.6 | 43.3 | 68.3 | 57.7 | 55.8 | 50.1 | 77.9 |
| Premature rupture of membrane ................. | 28.3 | 19.7 | 16.8 | 32.0 | 25.1 | 22.4 | 29.6 | 30.1 | 29.4 | 33.1 |
| Dysfunctional labor | 27.6 | 22.5 | 18.1 | 34.6 | 44.0 | 29.4 | 35.6 | 28.5 | 29.3 | 25.1 |
| Breech/Malpresentation | 38.3 | 30.1 | 28.4 | 35.4 | 38.9 | 30.8 | 37.9 | 40.1 | 43.2 | 29.9 |
| Cephalopelvic disproportion | 21.1 | 15.9 | 15.9 | 15.9 | 19.1 | 15.2 | 16.5 | 22.4 | 23.8 | 16.8 |
| Fetal distress ${ }^{4}$.................. | 40.4 | 32.6 | 29.8 | 40.6 | 27.9 | 35.3 | 43.9 | 41.8 | 39.7 | 52.9 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 30.7 | 14.2 | 9.6 | 24.5 | 34.9 | 24.7 | 23.7 | 34.0 | 38.2 | 17.0 |
| Electronic fetal monitoring ........................... | 833.0 | 780.6 | 761.5 | 877.6 | 878.3 | 790.7 | 826.5 | 845.4 | 853.0 | 834.3 |
| Induction of labor ....................................... | 183.9 | 120.5 | 112.0 | 143.7 | 191.7 | 118.6 | 170.3 | 197.7 | 218.0 | 137.6 |
| Ultrasound | 644.2 | 538.0 | 514.9 | 646.1 | 589.9 | 542.3 | 640.5 | 667.2 | 693.5 | 585.3 |
| Stimulation of labor .................................... | 174.1 | 158.0 | 149.6 | 208.1 | 184.5 | 166.4 | 165.9 | 177.2 | 182.7 | 158.4 |

[^27]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, 1997

| Smoking status, smoking measure, and race of mother | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All ages | Under 15 years | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-54 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |
|  | Number |  |  |  |  |  |  |  |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Total .................................... | 3,124,110 | 8,476 | 399,821 | 148,792 | 251,029 | 769,429 | 863,520 | 703,396 | 319,137 | 60,331 |
| Smoker | 406,484 | 674 | 69,346 | 22,800 | 46,546 | 126,135 | 100,299 | 69,115 | 34,919 | 5,996 |
| Nonsmoker ........................... | 2,671,200 | 7,682 | 325,031 | 124,020 | 201,011 | 632,465 | 750,431 | 623,402 | 278,980 | 53,209 |
| Not stated ............................ | 46,426 | 120 | 5,444 | 1,972 | 3,472 | 10,829 | 12,790 | 10,879 | 5,238 | 1,126 |
| White |  |  |  |  |  |  |  |  |  |  |
| Total .................................... | 2,444,987 | 3,827 | 270,381 | 94,906 | 175,475 | 575,451 | 699,792 | 583,803 | 263,075 | 48,658 |
| Smoker ................................ | 344,666 | 512 | 59,704 | 19,363 | 40,341 | 108,821 | 85,651 | 57,276 | 28,031 | 4,671 |
| Nonsmoker ........................... | 2,063,713 | 3,255 | 206,790 | 74,208 | 132,582 | 458,252 | 603,806 | 517,666 | 230,845 | 43,099 |
| Not stated ............................. | 36,608 | 60 | 3,887 | 1,335 | 2,552 | 8,378 | 10,335 | 8,861 | 4,199 | 888 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Total .................................... | 539,157 | 4,366 | 117,207 | 49,157 | 68,050 | 165,611 | 121,301 | 82,988 | 39,535 | 8,149 |
| Smoker ................................. | 51,891 | 123 | 7,652 | 2,689 | 4,963 | 14,174 | 12,293 | 10,347 | 6,141 | 1,161 |
| Nonsmoker ........................... | 480,773 | 4,191 | 108,397 | 45,989 | 62,408 | 149,735 | 107,474 | 71,410 | 32,721 | 6,845 |
| Not stated ............................. | 6,493 | 52 | 1,158 | 479 | 679 | 1,702 | 1,534 | 1,231 | 673 | 143 |
|  | Percent |  |  |  |  |  |  |  |  |  |
| Smoker ${ }^{1}$............................... | 13.2 | 8.1 | 17.6 | 15.5 | 18.8 | 16.6 | 11.8 | 10.0 | 11.1 | 10.1 |
| White ................................... | 14.3 | 13.6 | 22.4 | 20.7 | 23.3 | 19.2 | 12.4 | 10.0 | 10.8 | 9.8 |
| Black ................................... | 9.7 | 2.9 | 6.6 | 5.5 | 7.4 | 8.6 | 10.3 | 12.7 | 15.8 | 14.5 |
|  | Percent distribution |  |  |  |  |  |  |  |  |  |


| 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 ........................ | 27.2 | 49.1 | 35.0 | 39.2 | 33.0 | 27.5 | 24.5 | 24.8 | 23.3 | 23.0 |
| 6-10 cigarettes .......................... | 40.7 | 37.3 | 41.8 | 40.5 | 42.4 | 42.0 | 40.8 | 39.0 | 38.1 | 36.1 |
| 11-15 cigarettes ..................... | 6.4 |  | 4.6 | 4.0 | 4.9 | 5.9 | 7.1 | 7.4 | 7.5 | 6.6 |
| 16-20 cigarettes ..................... | 21.8 | 10.1 | 16.5 | 14.5 | 17.5 | 21.2 | 23.4 | 23.8 | 24.9 | 26.4 |
| 21-30 cigarettes ..................... | 2.8 | * | 1.5 | 1.3 | 1.6 | 2.4 | 3.0 | 3.5 | 4.2 | 5.2 |
| 31-40 cigarettes ..................... | 1.0 | * | 0.5 | 0.4 | 0.5 | 0.9 | 1.0 | 1.3 | 1.8 | 2.4 |
| 41 cigarettes or more ............... | 0.2 | * | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 |
| 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 ........................ | 24.3 | 43.9 | 31.8 | 35.6 | 29.9 | 24.5 | 21.8 | 22.1 | 20.4 | 20.7 |
| 6-10 cigarettes ...................... | 41.1 | 40.3 | 43.2 | 42.3 | 43.6 | 42.7 | 40.8 | 38.8 | 37.2 | 34.7 |
| 11-15 cigarettes ..................... | 6.9 |  | 5.0 | 4.4 | 5.2 | 6.4 | 7.7 | 8.1 | 8.3 | 7.2 |
| 16-20 cigarettes ..................... | 23.4 | 11.6 | 17.8 | 15.7 | 18.8 | 22.7 | 25.1 | 25.6 | 27.2 | 28.6 |
| 21-30 cigarettes ..................... | 3.0 |  | 1.7 | 1.4 | 1.8 | 2.6 | 3.3 | 3.8 | 4.7 | 6.0 |
| 31-40 cigarettes .................... | 1.1 | * | 0.5 | 0.4 | 0.6 | 0.9 | 1.1 | 1.4 | 2.0 | 2.4 |
| 41 cigarettes or more .............. | 0.2 | * | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | * |
| 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 ........................ | 43.7 | 66.1 | 57.4 | 62.1 | 54.9 | 47.7 | 40.6 | 37.9 | 35.3 | 32.4 |
| 6-10 cigarettes ...................... | 38.5 | 27.0 | 31.9 | 28.5 | 33.7 | 36.8 | 40.9 | 40.6 | 41.9 | 41.1 |
| 11-15 cigarettes ..................... | 3.0 | * | 1.8 | 1.4 | 2.1 | 2.6 | 3.3 | 3.5 | 4.1 | 4.6 |
| 16-20 cigarettes ..................... | 12.6 | * | 8.0 | 7.3 | 8.4 | 11.2 | 13.3 | 14.9 | 15.4 | 17.7 |
| 21-30 cigarettes ..................... | 1.2 | * | 0.4 | * | 0.5 | 1.0 | 1.1 | 1.9 | 1.7 | 2.0 |
| 31-40 cigarettes ..................... | 0.7 | * | 0.3 | * | * | 0.5 | 0.7 | 0.9 | 1.2 | 1.9 |
| 41 cigarettes or more ............... | 0.2 | * | * | * | * | 0.2 | * | * | * | * |

[^28]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, 1997

| Origin of mother | Smoking status |  |  |  | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total births | Smoker | Nonsmoker | Not stated | All ages | Under 15 years | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-54 \\ & \text { years } \end{aligned}$ |
|  |  |  |  |  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |
| All origins ${ }^{1}$.................. | 3,124,110 | 406,484 | 2,671,200 | 46,426 | 13.2 | 8.1 | 17.6 | 15.5 | 18.8 | 16.6 | 11.8 | 10.0 | 11.1 | 10.1 |
| Hispanic ..................... | 445,405 | 18,092 | 422,425 | 4,888 | 4.1 | 4.2 | 4.9 | 4.7 | 5.0 | 4.2 | 3.6 | 3.7 | 4.6 | 4.3 |
| Mexican | 279,642 | 7,989 | 269,246 | 2,407 | 2.9 | 2.7 | 3.4 | 3.4 | 3.5 | 2.8 | 2.5 | 2.7 | 3.5 | 3.4 |
| Puerto Rican ............... | 50,554 | 5,459 | 44,081 | 1,014 | 11.0 | 8.2 | 10.6 | 9.9 | 11.0 | 11.4 | 10.7 | 10.8 | 12.5 | 10.0 |
| Cuban ....................... | 11,906 | 500 | 11,352 | 54 | 4.2 | * | 4.9 | * | 5.2 | 4.6 | 3.9 | 3.7 | 5.1 | * |
| Central and South American $\qquad$ | 67,569 | 1,172 | 65,718 | 679 | 1.8 | * | 1.9 | 1.8 | 1.9 | 1.8 | 1.5 | 1.5 | 2.3 | 2.6 |
| Other and unknown Hispanic $\qquad$ | 35,734 | 2,972 | 32,028 | 734 | 8.5 | * | 9.2 | 8.4 | 9.8 | 9.0 | 8.1 | 7.5 | 7.9 | 8.0 |
| Non-Hispanic ${ }^{2}$............ | 2,648,039 | 383,905 | 2,225,854 | 38,280 | 14.7 | 9.2 | 20.6 | 18.5 | 21.9 | 19.3 | 13.0 | 10.7 | 11.8 | 10.8 |
| White ......................... | 1,990,992 | 323,821 | 1,638,023 | 29,148 | 16.5 | 22.4 | 29.2 | 28.5 | 29.6 | 23.7 | 14.1 | 10.8 | 11.6 | 10.6 |
| Black ......................... | 522,998 | 50,840 | 466,061 | 6,097 | 9.8 | 2.9 | 6.6 | 5.5 | 7.4 | 8.7 | 10.4 | 12.9 | 16.1 | 14.8 |

[^29]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, 1997

| Smoking measure, and race and Hispanic origin of mother | Total | Years of school completed by mother |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} 0-8 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 9-11 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 12 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 13-15 \\ & \text { years } \\ & \hline \end{aligned}$ | 16 years or more | Not Stated |
|  | All births |  |  |  |  |  |  |
| All races ${ }^{1}$................................................ | 3,124,110 | 148,048 | 493,433 | 1,030,964 | 690,118 | 714,838 | 46,709 |
| White, total | 2,444,987 | 124,740 | 342,637 | 782,868 | 544,288 | 618,550 | 31,904 |
| White, non-Hispanic ................................ | 1,990,992 | 36,666 | 223,691 | 650,759 | 482,036 | 579,860 | 17,980 |
| Black, total .............................................. | 539,157 | 16,338 | 132,643 | 205,543 | 118,926 | 55,076 | 10,631 |
| Black, non-Hispanic ........................................................... | 522,998 | 14,996 | 128,758 | 199,964 | 115,942 | 53,684 | 9,654 |
| Hispanic 2 ............................................ | 445,405 | 89,093 | 120,431 | 131,334 | 60,896 | 33,430 | 10,221 |
|  | Percent |  |  |  |  |  |  |
| Smoker .................................................. | 13.2 | 12.1 | 25.7 | 17.1 | 9.9 | 2.4 | 12.7 |
| White ,total .............................................. | 14.3 | 12.5 | 29.8 | 19.5 | 10.9 | 2.5 | 13.6 |
| White, non-Hispanic ................................ | 16.5 | 36.0 | 42.0 | 22.5 | 11.8 | 2.6 | 18.9 |
| Black, total | 9.7 | 10.3 | 16.1 | 9.5 | 6.1 | 2.2 | 12.9 |
| Black, non-Hispanic | 9.8 | 10.7 | 16.3 | 9.6 | 6.2 | 2.2 | 13.2 |
| Hispanic ${ }^{2}$ | 4.1 | 2.7 | 6.4 | 4.1 | 3.2 | 1.3 | 4.2 |
|  | Percent distribution |  |  |  |  |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |
| Smoker ................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less .................................. | 67.9 | 62.6 | 67.5 | 67.3 | 69.8 | 74.8 | 68.5 |
| 11-20 cigarettes ....................................... | 28.1 | 30.9 | 28.1 | 28.9 | 26.9 | 22.7 | 27.1 |
| 21 cigarettes or more ................................ | 4.0 | 6.5 | 4.4 | 3.8 | 3.3 | 2.5 | 4.4 |
| White, total |  |  |  |  |  |  |  |
| Smoker ................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less | 65.4 | 60.3 | 64.1 | 65.1 | 67.9 | 73.9 | 65.3 |
| 11-20 cigarettes ........................................ | 30.3 | 32.7 | 31.1 | 30.9 | 28.6 | 23.5 | 29.7 |
| 21 cigarettes or more ............................... | 4.3 | 7.0 | 4.9 | 4.0 | 3.5 | 2.6 | 5.0 |
| White, non-Hispanic |  |  |  |  |  |  |  |
| Smoker ................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less .................................. | 64.6 | 56.6 | 62.7 | 64.5 | 67.5 | 73.6 | 64.1 |
| 11-20 cigarettes ....................................... | 31.0 | 35.7 | 32.3 | 31.4 | 29.0 | 23.7 | 30.6 |
| 21 cigarettes or more ................................ | 4.4 | 7.7 | 5.1 | 4.1 | 3.6 | 2.7 | 5.3 |
| Black, total |  |  |  |  |  |  |  |
| Smoker .................................................. | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less ................................. | 82.2 | 78.8 | 82.0 | 82.6 | 83.3 | 83.9 | 77.8 |
| 11-20 cigarettes ....................................... | 15.6 | 17.6 | 15.7 | 15.3 | 15.4 | 14.5 | 19.7 |
| 21 cigarettes or more ................................ | 2.1 | 3.5 | 2.3 | 2.1 | 1.3 | * | 2.5 |
| Black, non-Hispanic |  |  |  |  |  |  |  |
| Smoker ................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less .................................. | 82.2 | 78.7 | 81.9 | 82.6 | 83.3 | 83.9 | 78.5 |
| 11-20 cigarettes ........................................ | 15.6 | 17.8 | 15.8 | 15.3 | 15.4 | 14.4 | 19.1 |
| 21 cigarettes or more ................................ | 2.1 | 3.6 | 2.3 | 2.1 | 1.3 | * | 2.4 |
| Hispanic 2 |  |  |  |  |  |  |  |
| Smoker .................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less ................................. | 82.8 | 82.5 | 83.6 | 82.6 | 81.9 | 83.2 | 76.4 |
| 11-20 cigarettes ....................................... | 15.4 | 14.9 | 14.8 | 15.8 | 15.8 | 16.2 | 20.1 |
| 21 cigarettes or more ............................... | 1.8 | 2.6 | 1.7 | 1.6 | 2.3 | * | * |

[^30]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, 1997
[Low birthweight is defined as weight of less than 2,500 grams ( 5 lb 8 oz )]

| Smoking status and race of mother | All ages | Age of mother |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 15 years | 15-19 years |  |  | 20-24 years | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $40-54$years |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 7.8 | 14.2 | 9.9 | 10.7 | 9.4 | 7.7 | 6.8 | 7.1 | 8.6 | 10.3 |
| Smoker ....................................... | 12.1 | 15.7 | 11.4 | 12.1 | 11.1 | 10.4 | 11.4 | 13.6 | 16.8 | 19.5 |
| Nonsmoker ................................. | 7.1 | 13.9 | 9.5 | 10.5 | 9.0 | 7.1 | 6.2 | 6.4 | 7.5 | 9.2 |
| Not stated .................................. | 9.8 | 28.6 | 12.6 | 13.3 | 12.2 | 9.2 | 8.6 | 9.3 | 11.9 | 10.8 |
| White, total |  |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 6.6 | 12.1 | 8.4 | 9.1 | 8.1 | 6.5 | 5.9 | 6.2 | 7.4 | 9.2 |
| Smoker ...................................... | 10.7 | 17.2 | 10.9 | 11.5 | 10.6 | 9.7 | 10.0 | 11.4 | 14.2 | 17.0 |
| Nonsmoker ................................. | 5.9 | 10.9 | 7.7 | 8.4 | 7.3 | 5.7 | 5.2 | 5.5 | 6.6 | 8.3 |
| Not stated .................................. | 8.7 | 33.9 | 11.8 | 12.8 | 11.2 | 8.2 | 7.5 | 8.3 | 10.3 | 9.8 |
| White, non-Hispanic |  |  |  |  |  |  |  |  |  |  |
| Total .......................................... | 6.6 | 12.3 | 8.4 | 9.0 | 8.1 | 6.6 | 5.8 | 6.1 | 7.3 | 9.0 |
| Smoker ...................................... | 10.6 | 16.6 | 10.8 | 11.4 | 10.6 | 9.6 | 9.9 | 11.3 | 14.1 | 16.8 |
| Nonsmoker ................................. | 5.7 | 10.6 | 7.4 | 8.0 | 7.1 | 5.6 | 5.2 | 5.4 | 6.4 | 8.1 |
| Not stated .................................. | 8.4 | * | 11.3 | 12.2 | 10.8 | 8.1 | 7.2 | 8.0 | 10.0 | 10.1 |
| Black, total |  |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 13.1 | 16.3 | 13.4 | 14.0 | 12.9 | 12.0 | 12.4 | 13.8 | 16.2 | 17.5 |
| Smoker ....................................... | 21.3 | * | 16.4 | 16.9 | 16.1 | 16.2 | 21.7 | 26.1 | 28.8 | 30.7 |
| Nonsmoker ................................. | 12.2 | 16.3 | 13.1 | 13.8 | 12.6 | 11.5 | 11.3 | 11.9 | 13.7 | 15.2 |
| Not stated .................................. | 16.9 | * | 16.3 | 15.9 | 16.6 | 15.2 | 16.5 | 17.1 | 21.4 | 20.9 |
| Black, non-Hispanic |  |  |  |  |  |  |  |  |  |  |
| Total .......................................... | 13.2 | 16.3 | 13.5 | 14.1 | 13.0 | 12.1 | 12.6 | 14.0 | 16.4 | 17.6 |
| Smoker | 21.4 | * | 16.3 | 16.9 | 16.0 | 16.3 | 21.8 | 26.2 | 28.9 | 30.8 |
| Nonsmoker ................................. | 12.3 | 16.3 | 13.2 | 13.9 | 12.7 | 11.6 | 11.4 | 12.1 | 13.8 | 15.3 |
| Not stated .................................... | 16.8 | * | 16.4 | 16.0 | 16.7 | 14.4 | 16.7 | 16.9 | 22.1 | 20.0 |
| Hispanic ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 6.9 | 11.9 | 8.5 | 9.2 | 8.0 | 6.3 | 5.9 | 6.6 | 8.3 | 10.2 |
| Smoker | 12.1 | * | 11.8 | 12.5 | 11.2 | 10.4 | 12.0 | 13.1 | 15.5 | 21.2 |
| Nonsmoker ................................ | 6.6 | 11.2 | 8.3 | 9.0 | 7.7 | 6.1 | 5.7 | 6.3 | 7.9 | 9.7 |
| Not stated .................................... | 10.4 | * | 12.7 | 13.7 | 12.0 | 8.7 | 8.7 | 10.9 | 14.2 | * |

${ }_{1}^{*}$ Figure does not meet standards of reliability or precision.
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, 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, 1997

| Age and race and Hispanic origin of mother | All births | Month of pregnancy prenatal care began |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st trimester |  |  | $\frac{2 d \text { trimester }}{\begin{array}{l} \text { 4th-6th } \\ \text { months } \end{array}}$ | Late or no care |  |  | Not stated | Percent |  |
|  |  | Total | 1st and 2d months | 3d month |  | Total | 7th-9th months | No care |  | 1st trimester | Late or no care |
| All races ${ }^{1}$................ | 3,880,894 | 3,119,693 | 2,391,738 | 727,955 | 512,228 | 148,281 | 102,041 | 46,240 | 100,692 | 82.5 | 3.9 |
| Under 15 years ......... | 10,121 | 4,570 | 2,764 | 1,806 | 3,537 | 1,588 | 1,125 | 463 | 426 | 47.1 | 16.4 |
| 15-19 years .............. | 483,220 | 319,387 | 213,043 | 106,344 | 115,755 | 33,517 | 23,975 | 9,542 | 14,561 | 68.1 | 7.2 |
| 15 years ................ | 26,340 | 14,379 | 8,842 | 5,537 | 8,177 | 2,776 | 1,980 | 796 | 1,008 | 56.8 | 11.0 |
| 16 years ................ | 57,038 | 34,232 | 21,721 | 12,511 | 16,161 | 4,797 | 3,432 | 1,365 | 1,848 | 62.0 | 8.7 |
| 17 years ................ | 96,776 | 62,621 | 40,959 | 21,662 | 24,257 | 7,013 | 5,006 | 2,007 | 2,885 | 66.7 | 7.5 |
| 18 years ................ | 134,595 | 90,734 | 60,958 | 29,776 | 30,985 | 8,872 | 6,314 | 2,558 | 4,004 | 69.5 | 6.8 |
| 19 years ................ | 168,471 | 117,421 | 80,563 | 36,858 | 36,175 | 10,059 | 7,243 | 2,816 | 4,816 | 71.7 | 6.1 |
| 20-24 years .............. | 942,048 | 708,037 | 515,927 | 192,110 | 162,393 | 45,914 | 32,654 | 13,260 | 25,704 | 77.3 | 5.0 |
| 25-29 years .............. | 1,069,436 | 899,189 | 707,821 | 191,368 | 112,815 | 32,074 | 21,906 | 10,168 | 25,358 | 86.1 | 3.1 |
| 30-34 years .............. | 886,798 | 771,037 | 620,229 | 150,808 | 73,109 | 21,399 | 13,870 | 7,529 | 21,253 | 89.1 | 2.5 |
| 35-39 years .............. | 409,710 | 352,437 | 281,291 | 71,146 | 35,676 | 10,958 | 6,746 | 4,212 | 10,639 | 88.3 | 2.7 |
| 40 years and over ..... | 79,561 | 65,036 | 50,663 | 14,373 | 8,943 | 2,831 | 1,765 | 1,066 | 2,751 | 84.7 | 3.7 |
| White, total ............... | 3,072,640 | 2,545,590 | 1,971,327 | 574,263 | 363,139 | 97,210 | 69,505 | 27,705 | 66,701 | 84.7 | 3.2 |
| Under 15 years ....... | 5,021 | 2,539 | 1,542 | 997 | 1,597 | 714 | 487 | 227 | 171 | 52.4 | 14.7 |
| 15-19 years .............. | 338,272 | 233,104 | 156,254 | 76,850 | 75,803 | 20,797 | 15,308 | 5,489 | 8,568 | 70.7 | 6.3 |
| 15 years ................ | 15,959 | 9,347 | 5,790 | 3,557 | 4,580 | 1,543 | 1,123 | 420 | 489 | 60.4 | 10.0 |
| 16 years ................ | 37,324 | 23,742 | 15,157 | 8,585 | 9,757 | 2,849 | 2,085 | 764 | 976 | 65.3 | 7.8 |
| 17 years ................ | 66,882 | 45,089 | 29,655 | 15,434 | 15,864 | 4,272 | 3,112 | 1,160 | 1,657 | 69.1 | 6.5 |
| 18 years ................ | 95,436 | 66,787 | 44,976 | 21,811 | 20,646 | 5,592 | 4,108 | 1,484 | 2,411 | 71.8 | 6.0 |
| 19 years ................ | 122,671 | 88,139 | 60,676 | 27,463 | 24,956 | 6,541 | 4,880 | 1,661 | 3,035 | 73.7 | 5.5 |
| 20-24 years .............. | 720,546 | 556,995 | 408,446 | 148,549 | 115,885 | 30,862 | 22,701 | 8,161 | 16,804 | 79.1 | 4.4 |
| 25-29 years .............. | 871,636 | 749,633 | 594,678 | 154,955 | 83,227 | 21,704 | 15,468 | 6,236 | 17,072 | 87.7 | 2.5 |
| 30-34 years .............. | 735,571 | 652,854 | 529,345 | 123,509 | 53,919 | 14,060 | 9,609 | 4,451 | 14,738 | 90.6 | 2.0 |
| 35-39 years .............. | 337,423 | 296,738 | 238,716 | 58,022 | 26,173 | 7,142 | 4,664 | 2,478 | 7,370 | 89.9 | 2.2 |
| 40 years and over ..... | 64,171 | 53,727 | 42,346 | 11,381 | 6,535 | 1,931 | 1,268 | 663 | 1,978 | 86.4 | 3.1 |
| White, non-Hispanic | 2,333,363 | 2,014,137 | 1,591,887 | 422,250 | 223,753 | 54,238 | 38,205 | 16,033 | 41,235 | 87.9 | 2.4 |
| Under 15 years ......... | 2,240 | 1,196 | 744 | 452 | 666 | 320 | 213 | 107 | 58 | 54.8 | 14.7 |
| 15-19 years .............. | 219,857 | 159,104 | 107,905 | 51,199 | 45,188 | 11,118 | 8,292 | 2,826 | 4,447 | 73.9 | 5.2 |
| 15 years ................ | 8,244 | 5,067 | 3,157 | 1,910 | 2,228 | 740 | 549 | 191 | 209 | 63.1 | 9.2 |
| 16 years ................ | 21,536 | 14,364 | 9,294 | 5,070 | 5,238 | 1,459 | 1,082 | 377 | 475 | 68.2 | 6.9 |
| 17 years ................ | 42,088 | 29,811 | 19,688 | 10,123 | 9,199 | 2,238 | 1,663 | 575 | 840 | 72.3 | 5.4 |
| 18 years ................ | 63,787 | 46,713 | 31,697 | 15,016 | 12,774 | 3,042 | 2,252 | 790 | 1,258 | 74.7 | 4.9 |
| 19 years ................ | 84,202 | 63,149 | 44,069 | 19,080 | 15,749 | 3,639 | 2,746 | 893 | 1,665 | 76.5 | 4.4 |
| 20-24 years .............. | 500,928 | 405,254 | 302,971 | 102,283 | 69,942 | 16,300 | 12,002 | 4,298 | 9,432 | 82.5 | 3.3 |
| 25-29 years .............. | 674,498 | 601,366 | 486,276 | 115,090 | 50,446 | 11,929 | 8,279 | 3,650 | 10,757 | 90.6 | 1.8 |
| 30-34 years .............. | 603,304 | 549,773 | 452,155 | 97,618 | 34,951 | 8,536 | 5,605 | 2,931 | 10,044 | 92.7 | 1.4 |
| 35-39 years .............. | 280,393 | 252,447 | 205,808 | 46,639 | 18,073 | 4,769 | 3,019 | 1,750 | 5,104 | 91.7 | 1.7 |
| 40 years and over ..... | 52,143 | 44,997 | 36,028 | 8,969 | 4,487 | 1,266 | 795 | 471 | 1,393 | 88.7 | 2.5 |
| Black, total ............... | 599,913 | 414,251 | 301,287 | 112,964 | 117,343 | 41,592 | 25,356 | 16,236 | 26,727 | 72.3 | 7.3 |
| Under 15 years ......... | 4,712 | 1,896 | 1,144 | 752 | 1,786 | 798 | 584 | 214 | 232 | 42.3 | 17.8 |
| 15-19 years .............. | 128,539 | 76,702 | 50,763 | 25,939 | 35,189 | 11,211 | 7,515 | 3,696 | 5,437 | 62.3 | 9.1 |
| 15 years ................ | 9,381 | 4,538 | 2,753 | 1,785 | 3,266 | 1,098 | 762 | 336 | 479 | 51.0 | 12.3 |
| 16 years ................ | 17,658 | 9,472 | 5,975 | 3,497 | 5,682 | 1,718 | 1,172 | 546 | 786 | 56.1 | 10.2 |
| 17 years ................ | 26,595 | 15,651 | 10,144 | 5,507 | 7,391 | 2,425 | 1,642 | 783 | 1,128 | 61.5 | 9.5 |
| 18 years ................ | 34,712 | 21,307 | 14,281 | 7,026 | 9,085 | 2,870 | 1,897 | 973 | 1,450 | 64.1 | 8.6 |
| 19 years ................ | 40,193 | 25,734 | 17,610 | 8,124 | 9,765 | 3,100 | 2,042 | 1,058 | 1,594 | 66.7 | 8.0 |
| 20-24 years .............. | 182,600 | 124,312 | 88,929 | 35,383 | 38,230 | 12,584 | 8,070 | 4,514 | 7,474 | 71.0 | 7.2 |
| 25-29 years .............. | 135,529 | 100,469 | 76,034 | 24,435 | 21,110 | 7,931 | 4,534 | 3,397 | 6,019 | 77.6 | 6.1 |
| 30-34 years .............. | 94,123 | 71,008 | 54,488 | 16,520 | 12,965 | 5,487 | 2,898 | 2,589 | 4,663 | 79.4 | 6.1 |
| 35-39 years .............. | 45,069 | 33,290 | 25,169 | 8,121 | 6,481 | 2,924 | 1,434 | 1,490 | 2,374 | 78.0 | 6.8 |
| 40 years and over ..... | 9,341 | 6,574 | 4,760 | 1,814 | 1,582 | 657 | 321 | 336 | 528 | 74.6 | 7.5 |

[^31]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, 1997 --Con.

| Age and race and Hispanic origin of mother | $\begin{gathered} \text { All } \\ \text { births } \end{gathered}$ | Month of pregnancy prenatal care began |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st trimester |  |  | $2 d$ trimester | Late or no care |  |  | Not stated | Percent |  |
|  |  | Total | 1st and 2d months | $3 d$ month | 4th-6th months | Total | 7th-9th months | No care |  | 1st trimester | Late or no care |
| Black, non-Hispanic | 581,431 | 401,994 | 292,736 | 109,258 | 113,971 | 40,425 | 24,502 | 15,923 | 25,041 | 72.3 | 7.3 |
| Under 15 years ......... | 4,613 | 1,863 | 1,126 | 737 | 1,751 | 779 | 569 | 210 | 220 | 42.4 | 17.7 |
| 15-19 years .............. | 125,343 | 74,842 | 49,576 | 25,266 | 34,381 | 10,957 | 7,332 | 3,625 | 5,163 | 62.3 | 9.1 |
| 15 years ................. | 9,163 | 4,433 | 2,687 | 1,746 | 3,196 | 1,070 | 741 | 329 | 464 | 51.0 | 12.3 |
| 16 years ................ | 17,235 | 9,242 | 5,834 | 3,408 | 5,563 | 1,683 | 1,147 | 536 | 747 | 56.1 | 10.2 |
| 17 years ................ | 25,940 | 15,283 | 9,913 | 5,370 | 7,226 | 2,367 | 1,596 | 771 | 1,064 | 61.4 | 9.5 |
| 18 years ................ | 33,870 | 20,791 | 13,950 | 6,841 | 8,891 | 2,812 | 1,856 | 956 | 1,376 | 64.0 | 8.7 |
| 19 years ................ | 39,135 | 25,093 | 17,192 | 7,901 | 9,505 | 3,025 | 1,992 | 1,033 | 1,512 | 66.7 | 8.0 |
| 20-24 years .............. | 177,494 | 121,011 | 86,668 | 34,343 | 37,188 | 12,237 | 7,805 | 4,432 | 7,058 | 71.0 | 7.2 |
| 25-29 years .............. | 130,942 | 97,266 | 73,731 | 23,535 | 20,399 | 7,675 | 4,344 | 3,331 | 5,602 | 77.6 | 6.1 |
| 30-34 years .............. | 90,637 | 68,546 | 52,711 | 15,835 | 12,472 | 5,297 | 2,765 | 2,532 | 4,322 | 79.4 | 6.1 |
| 35-39 years .............. | 43,434 | 32,146 | 24,338 | 7,808 | 6,252 | 2,840 | 1,380 | 1,460 | 2,196 | 78.0 | 6.9 |
| 40 years and over ..... | 8,968 | 6,320 | 4,586 | 1,734 | 1,528 | 640 | 307 | 333 | 480 | 74.5 | 7.5 |
| Hispanic ${ }^{2}$................ | 709,767 | 506,442 | 358,733 | 147,709 | 138,218 | 42,666 | 31,283 | 11,383 | 22,441 | 73.7 | 6.2 |
| Under 15 years ......... | 2,833 | 1,363 | 811 | 552 | 948 | 405 | 285 | 120 | 117 | 50.2 | 14.9 |
| 15-19 years .............. | 118,122 | 73,760 | 48,167 | 25,593 | 30,674 | 9,670 | 7,034 | 2,636 | 4,018 | 64.6 | 8.5 |
| 15 years ................ | 7,778 | 4,308 | 2,646 | 1,662 | 2,389 | 806 | 575 | 231 | 275 | 57.4 | 10.7 |
| 16 years ................ | 15,870 | 9,417 | 5,888 | 3,529 | 4,561 | 1,395 | 1,007 | 388 | 497 | 61.3 | 9.1 |
| 17 years ................ | 24,768 | 15,276 | 9,959 | 5,317 | 6,638 | 2,035 | 1,463 | 572 | 819 | 63.8 | 8.5 |
| 18 years ................ | 31,542 | 19,990 | 13,218 | 6,772 | 7,905 | 2,537 | 1,859 | 678 | 1,110 | 65.7 | 8.3 |
| 19 years ................ | 38,164 | 24,769 | 16,456 | 8,313 | 9,181 | 2,897 | 2,130 | 767 | 1,317 | 67.2 | 7.9 |
| 20-24 years ............. | 216,152 | 148,997 | 103,352 | 45,645 | 45,689 | 14,574 | 10,752 | 3,822 | 6,892 | 71.2 | 7.0 |
| 25-29 years .............. | 188,669 | 141,007 | 102,397 | 38,610 | 32,473 | 9,687 | 7,169 | 2,518 | 5,502 | 77.0 | 5.3 |
| 30-34 years .............. | 121,539 | 93,736 | 69,291 | 24,445 | 18,604 | 5,410 | 3,974 | 1,436 | 3,789 | 79.6 | 4.6 |
| 35-39 years .............. | 51,601 | 39,718 | 29,128 | 10,590 | 7,873 | 2,290 | 1,614 | 676 | 1,720 | 79.6 | 4.6 |
| 40 years and over ..... | 10,851 | 7,861 | 5,587 | 2,274 | 1,957 | 630 | 455 | 175 | 403 | 75.2 | 6.0 |

1 Includes races other than white and black and origin not stated.
2 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 and each State, Puerto Rico, Virgin Islands, and Guam, 1997
[By place of residence]

| State | Percent beginning care in first trimester |  |  |  |  |  | Percent late ${ }^{1}$ or no care |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { races }^{2} \end{gathered}$ | White |  | Black |  | Hispanic ${ }^{3}$ | $\stackrel{A l l}{\text { races }^{2}}$ | White |  | Black |  | Hispanic ${ }^{3}$ |
|  |  | Total | NonHispanic | Total | NonHispanic |  |  | Total | NonHispanic | Total | NonHispanic |  |
| United States ${ }^{4}$............ | 82.5 | 84.7 | 87.9 | 72.3 | 72.3 | 73.7 | 3.9 | 3.2 | 2.4 | 7.3 | 7.3 | 6.2 |
| Alabama ...................... | 82.2 | 88.0 | 88.7 | 70.3 | 70.3 | 62.4 | 3.7 | 2.3 | 2.1 | 6.6 | 6.6 | 13.4 |
| Alaska ......................... | 80.4 | 82.4 | 82.8 | 81.3 | 81.8 | 77.6 | 4.4 | 3.5 | 3.3 | 5.8 | 5.7 | 5.1 |
| Arizona ....................... | 75.4 | 76.5 | 85.0 | 70.9 | 70.9 | 65.1 | 6.6 | 6.2 | 3.1 | 9.2 | 9.2 | 10.3 |
| Arkansas .................... | 75.7 | 79.4 | 80.5 | 62.6 | 62.6 | 60.1 | 5.8 | 4.4 | 4.1 | 10.7 | 10.7 | 11.3 |
| California .................... | 81.8 | 81.8 | 87.9 | 78.6 | 78.6 | 77.3 | 3.7 | 3.7 | 2.4 | 4.6 | 4.6 | 4.7 |
| Colorado | 82.9 | 83.3 | 87.9 | 77.3 | 77.4 | 69.7 | 3.9 | 3.8 | 2.5 | 6.0 | 6.0 | 7.5 |
| Connecticut ................. | 89.2 | 90.6 | 92.7 | 80.1 | 81.0 | 79.1 | 1.9 | 1.5 | 1.2 | 4.0 | 3.9 | 3.2 |
| Delaware ..................... | 82.5 | 86.2 | 87.7 | 71.4 | 71.6 | 69.0 | 3.3 | 2.2 | 2.0 | 6.4 | 6.4 | 5.1 |
| District of Columbia ....... | 66.6 | 81.0 | 89.3 | 61.4 | 61.5 | 63.2 | 12.3 | 7.2 | 4.7 | 14.2 | 14.1 | 12.4 |
| Florida ........................ | 83.9 | 87.1 | 88.9 | 72.8 | 72.7 | 81.7 | 3.2 | 2.3 | 1.9 | 5.9 | 5.9 | 3.8 |
| Georgia ....................... | 85.8 | 89.5 | 90.9 | 78.5 | 78.5 | 75.8 | 3.1 | 2.1 | 1.7 | 5.0 | 5.0 | 6.4 |
| Hawaii ......................... | 83.4 | 88.9 | 89.9 | 89.2 | 89.6 | 82.0 | 4.6 | 3.1 | 2.9 | * | * | 3.9 |
| Idaho | 78.6 | 78.9 | 81.4 | 71.0 | 70.7 | 62.1 | 4.2 | 4.0 | 3.3 | * | * | 8.9 |
| Illinois | 82.4 | 85.6 | 89.5 | 69.7 | 69.7 | 72.8 | 4.0 | 2.8 | 1.8 | 8.8 | 8.8 | 6.1 |
| Indiana ........................ | 80.1 | 81.8 | 82.6 | 66.1 | 66.1 | 66.6 | 3.9 | 3.4 | 3.2 | 7.9 | 7.9 | 8.4 |
| lowa ........................... | 87.4 | 88.1 | 88.9 | 73.5 | 73.5 | 70.7 | 2.5 | 2.4 | 2.1 | 5.5 | 5.6 | 6.9 |
| Kansas | 85.6 | 86.6 | 89.2 | 75.9 | 75.9 | 64.5 | 2.7 | 2.4 | 1.8 | 5.6 | 5.6 | 7.9 |
| Kentucky ..................... | 85.8 | 86.8 | 87.1 | 75.3 | 75.4 | 72.9 | 2.6 | 2.3 | 2.3 | 5.6 | 5.6 | 5.6 |
| Louisiana ..................... | 81.3 | 88.6 | 88.8 | 71.1 | 71.1 | 84.0 | 4.1 | 2.0 | 2.0 | 7.0 | 7.0 | 3.7 |
| Maine .......................... | 88.9 | 89.3 | 89.4 | 79.0 | 80.9 | 83.9 | 1.7 | 1.6 | 1.5 | * | * |  |
| Maryland | 88.8 | 92.6 | 93.3 | 80.3 | 80.3 | 80.7 | 2.6 | 1.5 | 1.4 | 5.2 | 5.2 | 4.0 |
| Massachusetts | 88.9 | 90.4 | 91.9 | 78.0 | 78.0 | 77.8 | 2.7 | 2.2 | 1.8 | 6.4 | 6.4 | 5.6 |
| Michigan | 84.2 | 87.2 | 88.4 | 70.6 | 70.5 | 73.8 | 3.0 | 2.2 | 2.0 | 6.9 | 6.9 | 5.2 |
| Minnesota | 84.1 | 86.7 | 87.5 | 63.8 | 63.7 | 61.1 | 3.1 | 2.3 | 2.0 | 10.3 | 10.3 | 9.4 |
| Mississippi ................... | 80.1 | 89.2 | 89.4 | 69.6 | 69.6 | 78.6 | 4.1 | 1.8 | 1.8 | 6.8 | 6.8 |  |
| Missouri ....................... | 86.0 | 88.2 | 88.6 | 73.6 | 73.6 | 74.8 | 2.8 | 2.1 | 2.0 | 7.0 | 7.0 | 6.1 |
| Montana ..................... | 82.6 | 84.8 | 84.9 | 74.2 |  | 77.3 | 3.6 | 2.8 | 2.7 |  |  |  |
| Nebraska ..................... | 83.9 | 85.0 | 87.0 | 72.0 | 72.0 | 67.1 | 2.9 | 2.6 | 2.1 | 6.8 | 6.8 | 7.2 |
| Nevada ....................... | 76.1 | 76.9 | 83.3 | 66.6 | 66.8 | 64.3 | 6.3 | 6.1 | 3.8 | 9.1 | 9.0 | 10.5 |
| New Hampshire ............ | 89.6 | 89.8 | 90.1 | 78.0 | 78.5 | 77.9 | 1.8 | 1.7 | 1.7 |  |  |  |
| New Jersey .................. | 81.3 | 85.5 | 89.4 | 63.9 | 63.2 | 71.2 | 4.7 | 3.0 | 2.2 | 12.1 | 12.5 | 6.3 |
| New Mexico ................. | 70.2 | 72.5 | 79.1 | 64.2 | 65.4 | 67.6 | 7.6 | 6.9 | 4.4 | 10.8 | 10.8 | 8.7 |
| New York | 80.6 | 84.1 | 87.9 | 69.8 | 69.7 | 71.1 | 5.0 | 3.8 | 2.7 | 8.7 | 9.0 | 7.2 |
| North Carolina .............. | 83.9 | 88.1 | 90.0 | 73.2 | 73.2 | 69.3 | 3.2 | 2.2 | 1.7 | 6.1 | 6.1 | 7.4 |
| North Dakota ............... | 84.8 | 86.7 | 87.0 | 75.0 | 73.8 | 75.7 | 2.2 | 1.5 | 1.5 | * | * | * |
| Ohio ........................... | 85.1 | 87.4 | 87.7 | 72.2 | 72.2 | 76.6 | 4.3 | 3.3 | 3.2 | 9.9 | 9.8 | 5.7 |
| Oklahoma .................... | 78.5 | 81.1 | 82.1 | 67.7 | 67.5 | 67.5 | 4.8 | 3.9 | 3.6 | 8.3 | 8.3 | 7.8 |
| Oregon ....................... | 81.1 | 81.4 | 83.9 | 79.4 | 79.2 | 66.7 | 3.6 | 3.6 | 3.0 | 4.1 | 4.2 | 6.8 |
| Pennsylvania ............... | 83.8 | 86.6 | 87.5 | 68.0 | 68.1 | 71.5 | 4.4 | 3.4 | 3.1 | 10.5 | 10.5 | 7.4 |
| Rhode Island ............... | 89.5 | 90.6 | 92.2 | 79.9 | 79.5 | 81.3 | 1.7 | 1.3 | 1.1 | 5.5 | 5.4 | 2.4 |
| South Carolina .............. | 80.5 | 87.0 | 87.6 | 68.8 | 68.9 | 67.6 | 4.7 | 2.7 | 2.5 | 8.3 | 8.3 | 9.0 |
| South Dakota ................ | 82.1 | 85.2 | 85.5 | 69.2 | 69.7 | 70.8 | 3.4 | 2.1 | 2.0 |  |  |  |
| Tennessee ................... | 83.7 | 87.1 | 87.9 | 71.8 | 71.8 | 63.2 | 3.9 | 2.6 | 2.3 | 8.3 | 8.3 | 12.7 |
| Texas ......................... | 78.5 | 78.8 | 86.8 | 74.6 | 74.6 | 71.2 | 5.1 | 5.1 | 2.6 | 6.1 | 6.1 | 7.4 |
| Utah ............................ | 83.7 | 84.6 | 87.0 | 70.2 | 69.6 | 63.7 | 3.5 | 3.1 | 2.3 | 10.6 | 11.0 | 9.5 |
| Vermont ....................... | 88.0 | 88.2 | 88.3 |  |  | * | 2.0 | 1.9 | 1.9 | * | * | * |
| Virginia ....................... | 85.1 | 88.8 | 90.2 | 73.5 | 73.5 | 72.6 | 3.2 | 2.1 | 1.8 | 6.5 | 6.5 | 5.9 |
| Washington ................. | 83.3 | 84.1 | 86.2 | 77.1 | 77.1 | 70.7 | 3.4 | 3.1 | 2.6 | 5.1 | 5.0 | 5.9 |
| West Virginia ............... | 82.0 | 82.6 | 82.7 | 65.3 | 65.3 | 72.6 | 3.1 | 2.9 | 2.9 | 8.9 | 8.9 | * |
| Wisconsin | 84.6 | 87.3 | 88.2 | 68.9 | 68.9 | 72.6 | 3.2 | 2.5 | 2.2 | 8.0 | 8.0 | 7.2 |
| Wyoming .................... | 82.5 | 83.2 | 84.0 | 75.8 | 75.9 | 73.9 | 3.7 | 3.5 | 3.4 |  |  | 5.2 |
| Puerto Rico .................. | 78.3 | 79.0 | --- | 69.7 | --- | --- | 2.9 | 2.7 | --- | 4.7 | --- | --- |
| Virgin Islands ............... | 56.9 | 61.3 | 80.0 | 55.7 | 56.3 | 53.2 | 10.9 | 10.6 | * | 10.9 | 10.9 | 11.3 |
| Guam .......................... | 64.2 | 86.2 | 86.3 | 87.9 | 87.5 | 78.0 | 12.7 |  | * |  |  |  |

* Figure does not meet standards of reliability or precision.
-- Data not available.
1 Care beginning in 3d 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 Puerto Rico, Virgin Islands, and Guam.
NOTE: Data on prenatal care are not available for American Samoa.

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, 1997

| Number of prenatal visits and race and Hispanic origin of mother | All births | Month of pregnancy prenatal care began |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st trimester |  |  | $2 d$ trimester | Late or no care |  |  | Not stated |
|  |  | Total | 1st and 2d months | $\begin{gathered} 3 d \\ \text { month } \end{gathered}$ | 4th-6th months | Total | 7th-9th months | No care |  |
| All races ............................................... | 3,880,894 | 3,119,693 | 2,391,738 | 727,955 | 512,228 | 148,281 | 102,041 | 46,240 | 100,692 |
| No visits | 46,240 |  |  |  |  | 46,240 |  | 46,240 |  |
| 1-2 visits ...................................... | 39,708 | 9,521 | 6,191 | 3,330 | 9,811 | 18,543 | 18,543 | ... | 1,833 |
| $3-4$ visits | 80,812 | 22,759 | 13,031 | 9,728 | 29,926 | 25,906 | 25,906 |  | 2,221 |
| 5-6 visits | 171,906 | 72,260 | 42,029 | 30,231 | 71,099 | 25,360 | 25,360 |  | 3,187 |
| 7-8 visits | 320,312 | 192,513 | 118,154 | 74,359 | 108,458 | 14,848 | 14,848 |  | 4,493 |
| $9-10$ visits | 725,694 | 566,701 | 377,717 | 188,984 | 142,658 | 8,402 | 8,402 |  | 7,933 |
| 11-12 visits | 993,183 | 904,056 | 693,869 | 210,187 | 80,162 | 3,247 | 3,247 | ... | 5,718 |
| $13-14$ visits .................................. | 658,969 | 624,402 | 519,933 | 104,469 | 30,424 | 1,374 | 1,374 | ... | 2,769 |
| 15-16 visits ................................... | 464,444 | 441,444 | 377,387 | 64,057 | 19,999 | 923 | 923 | ... | 2,078 |
| 17-18 visits ................................... | 100,800 | 96,513 | 82,611 | 13,902 | 3,613 | 208 | 208 |  | 466 |
| 19 visits or more ............................ | 145,036 | 137,454 | 120,801 | 16,653 | 6,382 | 379 | 379 |  | 821 |
| Not stated ..................................... | 133,790 | 52,070 | 40,015 | 12,055 | 9,696 | 2,851 | 2,851 | ... | 69,173 |
| Median number of visits .................. | 12.3 | 12.6 | 12.9 | 11.7 | 9.6 | 5.4 | 5.4 | $\ldots$ | 10.3 |
| White, total ........................................ | 3,072,640 | 2,545,590 | 1,971,327 | 574,263 | 363,139 | 97,210 | 69,505 | 27,705 | 66,701 |
| No visits ........................................ | 27,705 |  |  |  |  | 27,705 |  | 27,705 |  |
| 1-2 visits ...................................... | 24,285 | 5,998 | 4,033 | 1,965 | 5,461 | 11,790 | 11,790 | ... | 1,036 |
| $3-4$ visits | 51,959 | 14,659 | 8,411 | 6,248 | 18,540 | 17,363 | 17,363 | ... | 1,397 |
| 5-6 visits | 118,539 | 51,238 | 29,959 | 21,279 | 47,723 | 17,502 | 17,502 | ... | 2,076 |
| 7-8 visits | 240,235 | 149,460 | 92,770 | 56,690 | 77,186 | 10,486 | 10,486 |  | 3,103 |
| $9-10$ visits | 569,728 | 455,022 | 306,558 | 148,464 | 103,139 | 5,918 | 5,918 | ... | 5,649 |
| 11-12 visits ................................... | 818,391 | 751,585 | 581,509 | 170,076 | 59,847 | 2,482 | 2,482 | ... | 4,477 |
| $13-14$ visits ................................... | 549,599 | 523,343 | 437,443 | 85,900 | 22,974 | 1,045 | 1,045 | ... | 2,237 |
| 15-16 visits ................................... | 378,548 | 361,757 | 311,103 | 50,654 | 14,563 | 677 | 677 | ... | 1,551 |
| 17-18 visits ................................... | 83,131 | 79,907 | 68,768 | 11,139 | 2,702 | 150 | 150 | ... | 372 |
| 19 visits or more ............................. | 118,118 | 112,781 | 99,842 | 12,939 | 4,432 | 269 | 269 | ... | 636 |
| Not stated ..................................... | 92,402 | 39,840 | 30,931 | 8,909 | 6,572 | 1,823 | 1,823 | ... | 44,167 |
| Median number of visits | 12.4 | 12.7 | 12.9 | 11.8 | 9.8 | 5.5 | 5.5 | $\ldots$ | 10.5 |
| White, non-Hispanic .......................... | 2,333,363 | 2,014,137 | 1,591,887 | 422,250 | 223,753 | 54,238 | 38,205 | 16,033 | 41,235 |
| No visits ........................................ | 16,033 |  |  | .. | ... | 16,033 |  | 16,033 |  |
| 1-2 visits | 13,106 | 3,464 | 2,390 | 1,074 | 2,968 | 6,076 | 6,076 | ... | 598 |
| 3-4 visits ...................................... | 29,081 | 8,946 | 5,336 | 3,610 | 10,222 | 9,063 | 9,063 |  | 850 |
| 5-6 visits ...................................... | 72,141 | 34,279 | 20,887 | 13,392 | 27,212 | 9,393 | 9,393 | ... | 1,257 |
| 7-8 visits ...................................... | 162,353 | 108,559 | 69,581 | 38,978 | 45,842 | 6,015 | 6,015 | ... | 1,937 |
| $9-10$ visits ..................................... | 413,280 | 342,713 | 237,365 | 105,348 | 63,161 | 3,531 | 3,531 | ... | 3,875 |
| 11-12 visits ................................... | 653,753 | 607,759 | 477,151 | 130,608 | 40,982 | 1,612 | 1,612 | ... | 3,400 |
| $13-14$ visits ................................... | 451,319 | 432,695 | 364,260 | 68,435 | 16,173 | 728 | 728 | ... | 1,723 |
| 15-16 visits | 299,638 | 288,998 | 252,189 | 36,809 | 9,022 | 432 | 432 | ... | 1,186 |
| 17-18 visits ................................... | 68,575 | 66,221 | 57,432 | 8,789 | 1,962 | 102 | 102 | ... | 290 |
| 19 visits or more ............................. | 97,235 | 93,568 | 83,450 | 10,118 | 2,982 | 184 | 184 |  | 501 |
| Not stated ..................................... | 56,849 | 26,935 | 21,846 | 5,089 | 3,227 | 1,069 | 1,069 | ... | 25,618 |
| Median number of visits ................... | 12.5 | 12.7 | 12.9 | 12.0 | 10.0 | 5.7 | 5.7 | $\ldots$ | 10.8 |
| Black, total ......................................... | 599,913 | 414,251 | 301,287 | 112,964 | 117,343 | 41,592 | 25,356 | 16,236 | 26,727 |
| No visits ........................................ | 16,236 |  |  |  |  | 16,236 |  | 16,236 |  |
| 1-2 visits ...................................... | 12,789 | 2,948 | 1,809 | 1,139 | 3,729 | 5,441 | 5,441 | ... | 671 |
| 3-4 visits ...................................... | 23,230 | 6,584 | 3,758 | 2,826 | 9,306 | 6,663 | 6,663 | ... | 677 |
| 5-6 visits ...................................... | 41,313 | 16,119 | 9,321 | 6,798 | 18,294 | 6,047 | 6,047 | ... | 853 |
| 7-8 visits ...................................... | 59,099 | 30,810 | 18,100 | 12,710 | 23,895 | 3,337 | 3,337 | ... | 1,057 |
| $9-10$ visits .................................... | 114,753 | 80,122 | 50,638 | 29,484 | 30,995 | 1,933 | 1,933 | .. | 1,703 |
| 11-12 visits .................................. | 122,612 | 105,509 | 77,157 | 28,352 | 15,645 | 556 | 556 | .. | 902 |
| $13-14$ visits ................................... | 77,816 | 71,340 | 57,736 | 13,604 | 5,846 | 232 | 232 | ... | 398 |
| 15-16 visits ................................... | 63,784 | 58,693 | 48,478 | 10,215 | 4,503 | 171 | 171 | ... | 417 |
| 17-18 visits ................................... | 13,450 | 12,599 | 10,404 | 2,195 | 730 | 44 | 44 |  | 77 |
| 19 visits or more ............................. | 21,562 | 19,605 | 16,560 | 3,045 | 1,710 | 94 | 94 | ... | 153 |
| Not stated ..................................... | 33,269 | 9,922 | 7,326 | 2,596 | 2,690 | 838 | 838 | ... | 19,819 |
| Median number of visits .................. | 11.7 | 12.5 | 12.8 | 11.2 | 9.2 | 5.0 | 5.0 | $\ldots$ | 9.4 |

[^32]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, 1997 --Con.

| Number of prenatal visits and race and Hispanic origin of mother | All births | Month of pregnancy prenatal care began |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st trimester |  |  | $\begin{aligned} & \frac{2 d \text { trimester }}{\text { 4th-6th }} \\ & \text { months } \end{aligned}$ | Late or no care |  |  | Not stated |
|  |  | Total | 1st and 2d months | 3d month |  | Total | 7th-9th months | No care |  |
| Black, non-Hispanic ........................... | 581,431 | 401,994 | 292,736 | 109,258 | 113,971 | 40,425 | 24,502 | 15,923 | 25,041 |
| No visits ........................................ | 15,923 |  |  |  |  | 15,923 |  | 15,923 |  |
| 1-2 visits ...................................... | 12,450 | 2,866 | 1,758 | 1,108 | 3,635 | 5,321 | 5,321 |  | 628 |
| 3-4 visits ...................................... | 22,576 | 6,406 | 3,660 | 2,746 | 9,081 | 6,450 | 6,450 | ... | 639 |
| 5-6 visits ...................................... | 39,967 | 15,596 | 9,024 | 6,572 | 17,762 | 5,803 | 5,803 |  | 806 |
| 7-8 visits ...................................... | 56,994 | 29,648 | 17,432 | 12,216 | 23,159 | 3,206 | 3,206 | ... | 981 |
| 9-10 visits ..................................... | 110,519 | 77,036 | 48,646 | 28,390 | 30,086 | 1,855 | 1,855 | ... | 1,542 |
| 11-12 visits .... | 118,878 | 102,383 | 74,964 | 27,419 | 15,152 | 536 | 536 | ... | 807 |
| $13-14$ visits ................................... | 75,818 | 69,533 | 56,342 | 13,191 | 5,685 | 220 | 220 | ... | 380 |
| $15-16$ visits ................................... | 62,332 | 57,378 | 47,395 | 9,983 | 4,404 | 163 | 163 | ... | 387 |
| 17-18 visits ................................... | 13,136 | 12,310 | 10,179 | 2,131 | 711 | 43 | 43 | ... | 72 |
| 19 visits or more ............................ | 21,077 | 19,179 | 16,197 | 2,982 | 1,672 | 92 | 92 | ... | 134 |
| Not stated ..................................... | 31,761 | 9,659 | 7,139 | 2,520 | 2,624 | 813 | 813 | ... | 18,665 |
| Median number of visits .................. | 11.7 | 12.5 | 12.8 | 11.3 | 9.2 | 5.0 | 5.0 | $\ldots$ | 9.3 |
| Hispanic 2 ............................................. | 709,767 | 506,442 | 358,733 | 147,709 | 138,218 | 42,666 | 31,283 | 11,383 | 22,441 |
| No visits ........................................ | 11,383 |  |  |  |  | 11,383 |  | 11,383 |  |
| 1-2 visits ...................................... | 11,107 | 2,486 | 1,603 | 883 | 2,484 | 5,698 | 5,698 | ... | 439 |
| 3-4 visits ...................................... | 22,809 | 5,665 | 3,052 | 2,613 | 8,295 | 8,309 | 8,309 | ... | 540 |
| 5-6 visits ...................................... | 46,050 | 16,586 | 8,820 | 7,766 | 20,535 | 8,136 | 8,136 | ... | 793 |
| 7-8 visits ...................................... | 75,990 | 39,271 | 21,933 | 17,338 | 31,106 | 4,468 | 4,468 | ... | 1,145 |
| $9-10$ visits ..................................... | 151,885 | 108,105 | 65,966 | 42,139 | 39,666 | 2,388 | 2,388 | ... | 1,726 |
| 11-12 visits ................................... | 155,352 | 134,974 | 96,969 | 38,005 | 18,510 | 855 | 855 | ... | 1,013 |
| $13-14$ visits ................................... | 92,954 | 85,554 | 68,895 | 16,659 | 6,652 | 309 | 309 | ... | 439 |
| 15-16 visits ................................... | 75,953 | 69,874 | 56,350 | 13,524 | 5,496 | 253 | 253 | ... | 330 |
| 17-18 visits ................................... | 13,895 | 13,048 | 10,751 | 2,297 | 727 | 48 | 48 | ... | 72 |
| 19 visits or more ............................. | 20,153 | 18,500 | 15,728 | 2,772 | 1,446 | 84 | 84 | ... | 123 |
| Not stated ..................................... | 32,236 | 12,379 | 8,666 | 3,713 | 3,301 | 735 | 735 | $\ldots$ | 15,821 |
| Median number of visits .................. | 11.5 | 12.4 | 12.7 | 11.1 | 9.4 | 5.3 | 5.3 | $\ldots$ | 9.7 |

[^33]Table 36. Live births to mothers with selected obstetric procedures and rates by age of mother, by race of mother: United States, 1997
[Rates are number of live births with specified procedure per 1,000 live births in specified group]

| Obstetric procedure and race of mother | All births | Obstetric procedure reported | Age of mother |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All ages | Under 20 years | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-54 \\ & \text { years } \end{aligned}$ |  |


| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Amniocentesis | 3,880,894 | 118,298 | 30.7 | 8.1 | 9.9 | 13.6 | 26.6 | 131.0 | 177.2 | 30,008 |
| Electronic fetal monitoring ............................. | 3,880,894 | 3,207,918 | 833.0 | 843.0 | 836.7 | 835.4 | 830.5 | 818.2 | 800.4 | 30,008 |
| Induction of labor ......................................... | 3,880,894 | 708,151 | 183.9 | 165.0 | 178.7 | 192.2 | 189.5 | 184.4 | 185.1 | 30,008 |
| Stimulation of labor ....................................... | 3,880,894 | 670,409 | 174.1 | 184.7 | 179.0 | 176.4 | 170.4 | 157.1 | 147.1 | 30,008 |
| Tocolysis | 3,880,894 | 85,834 | 22.3 | 24.5 | 23.1 | 21.9 | 21.3 | 21.0 | 21.7 | 30,008 |
| Ultrasound ................................................ | 3,880,894 | 2,480,726 | 644.2 | 620.1 | 634.6 | 651.9 | 655.0 | 652.3 | 641.5 | 30,008 |
| White |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 3,072,640 | 101,043 | 33.1 | 8.5 | 10.1 | 14.0 | 27.8 | 138.7 | 189.8 | 22,716 |
| Electronic fetal monitoring | 3,072,640 | 2,548,914 | 835.7 | 845.0 | 838.4 | 838.7 | 834.6 | 821.6 | 803.4 | 22,716 |
| Induction of labor | 3,072,640 | 598,273 | 196.2 | 179.3 | 192.2 | 203.9 | 199.9 | 193.8 | 194.7 | 22,716 |
| Stimulation of labor | 3,072,640 | 541,361 | 177.5 | 191.5 | 183.7 | 179.3 | 173.2 | 160.1 | 149.8 | 22,716 |
| Tocolysis | 3,072,640 | 68,238 | 22.4 | 25.2 | 23.4 | 22.0 | 21.3 | 21.0 | 21.2 | 22,716 |
| Ultrasound ................................................ | 3,072,640 | 2,008,198 | 658.4 | 640.5 | 649.8 | 664.6 | 666.1 | 663.8 | 652.8 | 22,716 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 599,913 | 10,209 | 17.1 | 7.0 | 8.9 | 12.2 | 18.9 | 74.2 | 99.6 | 3,453 |
| Electronic fetal monitoring ............................. | 599,913 | 497,949 | 834.8 | 844.9 | 839.9 | 833.2 | 824.1 | 817.1 | 810.1 | 3,453 |
| Induction of labor. | 599,913 | 82,039 | 137.5 | 131.0 | 134.6 | 142.2 | 140.9 | 144.9 | 151.1 | 3,453 |
| Stimulation of labor | 599,913 | 95,011 | 159.3 | 170.7 | 164.5 | 157.9 | 149.6 | 135.3 | 128.8 | 3,453 |
| Tocolysis .................................................. | 599,913 | 13,002 | 21.8 | 22.2 | 21.9 | 21.6 | 21.8 | 20.5 | 23.4 | 3,453 |
| Ultrasound ................................................ | 599,913 | 349,846 | 586.5 | 573.3 | 584.9 | 595.2 | 593.4 | 591.4 | 588.4 | 3,453 |

[^34]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, 1997
[Rates are number of live births with specified complication per 1,000 live births in specified group]

| Complication and race of mother | $\underset{\text { births }{ }^{1}}{\text { All }}$ | Complication reported | Age of mother |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All ages | Under 20 years | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-54 \\ & \text { years } \end{aligned}$ |  |


| All races ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Febrile ....................................................... | 3,880,894 | 60,114 | 15.7 | 18.7 | 16.1 | 16.1 | 14.7 | 12.4 | 12.6 | 40,352 |
| Meconium, moderate/heavy | 3,880,894 | 215,127 | 56.0 | 60.2 | 56.3 | 54.4 | 54.7 | 56.6 | 60.1 | 40,352 |
| Premature rupture of membrane .................... | 3,880,894 | 108,831 | 28.3 | 28.8 | 26.9 | 27.7 | 28.9 | 30.4 | 33.7 | 40,352 |
| Abruptio placenta ........................................ | 3,880,894 | 22,063 | 5.7 | 5.3 | 5.4 | 5.4 | 5.9 | 7.2 | 8.8 | 40,352 |
| Placenta previa | 3,880,894 | 12,477 | 3.2 | 1.1 | 1.9 | 2.9 | 4.4 | 6.5 | 9.1 | 40,352 |
| Other excessive bleeding | 3,880,894 | 21,797 | 5.7 | 5.4 | 5.4 | 5.4 | 5.7 | 6.7 | 7.7 | 40,352 |
| Seizures during labor | 3,880,894 | 1,286 | 0.3 | 0.7 | 0.3 | 0.3 | 0.2 | 0.2 | 0.4 | 40,352 |
| Precipitous labor .......................................... | 3,880,894 | 79,713 | 20.8 | 14.6 | 19.6 | 20.7 | 23.3 | 24.9 | 24.3 | 40,352 |
| Prolonged labor | 3,880,894 | 32,728 | 8.5 | 8.9 | 8.7 | 8.7 | 8.2 | 8.0 | 8.7 | 40,352 |
| Dysfunctional labor ...................................... | 3,880,894 | 106,157 | 27.6 | 25.9 | 26.7 | 28.4 | 28.3 | 28.1 | 30.6 | 40,352 |
| Breech/Malpresentation | 3,880,894 | 147,248 | 38.3 | 29.8 | 31.8 | 37.9 | 43.9 | 49.5 | 55.4 | 40,352 |
| Cephalopelvic disproportion | 3,880,894 | 81,208 | 21.1 | 19.5 | 19.6 | 22.4 | 22.1 | 21.0 | 21.9 | 40,352 |
| Cord prolapse ................... | 3,880,894 | 7,868 | 2.0 | 1.6 | 1.7 | 2.0 | 2.3 | 2.6 | 2.9 | 40,352 |
| Anesthetic complication ${ }^{3}$ | 3,546,920 | 2,181 | 0.6 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.7 | 42,875 |
| Fetal distress ${ }^{3}$ | 3,546,920 | 141,502 | 40.4 | 44.3 | 39.8 | 38.6 | 39.1 | 42.8 | 49.3 | 42,875 |
| White |  |  |  |  |  |  |  |  |  |  |
| Febrile | 3,072,640 | 45,442 | 14.9 | 17.8 | 15.6 | 15.6 | 14.0 | 11.8 | 11.8 | 31,747 |
| Meconium, moderate/heavy | 3,072,640 | 156,876 | 51.6 | 53.7 | 51.5 | 50.4 | 51.0 | 53.1 | 56.3 | 31,747 |
| Premature rupture of membrane .................... | 3,072,640 | 83,123 | 27.3 | 27.1 | 25.7 | 26.9 | 28.0 | 29.6 | 33.0 | 31,747 |
| Abruptio placenta ........................................ | 3,072,640 | 16,943 | 5.6 | 5.3 | 5.2 | 5.2 | 5.7 | 6.9 | 8.6 | 31,747 |
| Placenta previa | 3,072,640 | 9,834 | 3.2 | 1.1 | 1.8 | 2.8 | 4.3 | 6.2 | 8.8 | 31,747 |
| Other excessive bleeding | 3,072,640 | 17,234 | 5.7 | 5.8 | 5.6 | 5.4 | 5.6 | 6.4 | 7.2 | 31,747 |
| Seizures during labor | 3,072,640 | 921 | 0.3 | 0.6 | 0.3 | 0.3 | 0.2 | 0.2 | 0.4 | 31,747 |
| Precipitous labor. | 3,072,640 | 62,027 | 20.4 | 13.4 | 18.7 | 20.1 | 23.3 | 25.1 | 24.0 | 31,747 |
| Prolonged labor | 3,072,640 | 26,681 | 8.8 | 9.5 | 9.1 | 8.8 | 8.3 | 8.2 | 9.2 | 31,747 |
| Dysfunctional labor | 3,072,640 | 85,168 | 28.0 | 26.3 | 27.3 | 28.8 | 28.3 | 27.9 | 30.9 | 31,747 |
| Breech/Malpresentation | 3,072,640 | 122,347 | 40.2 | 32.7 | 33.6 | 39.6 | 44.9 | 50.4 | 56.2 | 31,747 |
| Cephalopelvic disproportion | 3,072,640 | 66,674 | 21.9 | 20.2 | 20.7 | 23.3 | 22.6 | 21.3 | 21.8 | 31,747 |
| Cord prolapse ............................................. | 3,072,640 | 6,220 | 2.0 | 1.5 | 1.8 | 2.0 | 2.3 | 2.5 | 2.9 | 31,747 |
| Anesthetic complication ${ }^{3}$ | 2,788,319 | 1,795 | 0.7 | 0.5 | 0.5 | 0.7 | 0.7 | 0.8 | 0.7 | 33,844 |
| Fetal distress ${ }^{3}$ | 2,788,319 | 105,621 | 38.3 | 41.6 | 37.8 | 36.9 | 37.4 | 40.7 | 46.1 | 33,844 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Febrile | 599,913 | 10,127 | 17.0 | 20.9 | 17.0 | 16.1 | 15.1 | 13.1 | 12.6 | 4,747 |
| Meconium, moderate/heavy | 599,913 | 46,465 | 78.1 | 76.5 | 74.7 | 78.4 | 82.9 | 83.8 | 84.6 | 4,747 |
| Premature rupture of membrane | 599,913 | 19,703 | 33.1 | 32.1 | 30.8 | 32.7 | 36.4 | 38.1 | 41.5 | 4,747 |
| Abruptio placenta ........................................ | 599,913 | 4,061 | 6.8 | 5.6 | 6.2 | 6.8 | 8.1 | 9.6 | 10.0 | 4,747 |
| Placenta previa | 599,913 | 1,708 | 2.9 | 1.0 | 1.8 | 3.2 | 4.6 | 6.9 | 8.2 | 4,747 |
| Other excessive bleeding | 599,913 | 2,850 | 4.8 | 4.0 | 4.2 | 4.9 | 5.4 | 7.0 | 8.4 | 4,747 |
| Seizures during labor | 599,913 | 299 | 0.5 | 0.9 | 0.4 | 0.4 | 0.4 | * | * | 4,747 |
| Precipitous labor .. | 599,913 | 13,155 | 22.1 | 16.7 | 22.2 | 24.1 | 25.1 | 24.7 | 26.4 | 4,747 |
| Prolonged labor | 599,913 | 3,988 | 6.7 | 7.1 | 6.5 | 6.8 | 6.7 | 6.1 | 5.3 | 4,747 |
| Dysfunctional labor | 599,913 | 15,143 | 25.4 | 23.9 | 24.0 | 26.0 | 27.5 | 28.8 | 28.7 | 4,747 |
| Breech/Malpresentation | 599,913 | 17,870 | 30.0 | 22.7 | 25.3 | 30.0 | 39.6 | 46.4 | 52.1 | 4,747 |
| Cephalopelvic disproportion | 599,913 | 9,931 | 16.7 | 18.1 | 15.6 | 16.8 | 17.3 | 15.5 | 15.3 | 4,747 |
| Cord prolapse | 599,913 | 1,268 | 2.1 | 1.8 | 1.7 | 2.3 | 2.7 | 3.0 | 3.2 | 4,747 |
| Anesthetic complication ${ }^{3}$ | 560,429 | 290 | 0.5 | 0.3 | 0.5 | 0.5 | 0.6 | 1.0 | * | 5,123 |
| Fetal distress ${ }^{3}$........................................... | 560,429 | 29,248 | 52.7 | 52.0 | 49.4 | 52.2 | 54.8 | 60.7 | 73.7 | 5,123 |

[^35]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, 1997

|  |  | Physician |  |  | Midwife |  |  | Other | Unspecified |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |


| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total .......................................... | 3,880,894 | 3,584,686 | 3,435,037 | 149,649 | 272,201 | 258,227 | 13,974 | 22,207 | 1,800 |
| In hospital ${ }^{2}$................................... | 3,843,506 | 3,579,057 | 3,430,553 | 148,504 | 251,758 | 248,802 | 2,956 | 12,052 | 639 |
| Not in hospital ............................. | 36,521 | 5,419 | 4,372 | 1,047 | 20,164 | 9,179 | 10,985 | 9,911 | 1,027 |
| Freestanding birthing center ......... | 10,264 | 1,484 | 880 | 604 | 8,596 | 6,239 | 2,357 | 177 | 7 |
| Clinic or doctor's office ................. | 705 | 385 | 308 | 77 | 168 | 89 | 79 | 130 | 22 |
| Residence ................................. | 23,236 | 2,792 | 2,473 | 319 | 11,082 | 2,664 | 8,418 | 8,545 | 817 |
| Other | 2,316 | 758 | 711 | 47 | 318 | 187 | 131 | 1,059 | 181 |
| Not specified ............................... | 867 | 210 | 112 | 98 | 279 | 246 | 33 | 244 | 134 |
| White, total |  |  |  |  |  |  |  |  |  |
| Total | 3,072,640 | 2,843,483 | 2,714,373 | 129,110 | 210,960 | 198,333 | 12,627 | 16,836 | 1,361 |
| In hospital ${ }^{2}$ | 3,040,220 | 2,839,398 | 2,711,370 | 128,028 | 191,618 | 189,639 | 1,979 | 8,718 | 486 |
| Not in hospital ............................. | 31,629 | 3,901 | 2,915 | 986 | 19,075 | 8,460 | 10,615 | 7,885 | 768 |
| Freestanding birthing center ......... | 9,626 | 1,429 | 829 | 600 | 8,023 | 5,764 | 2,259 | 167 | 7 |
| Clinic or doctor's office ................. | 564 | 306 | 234 | 72 | 152 | 79 | 73 | 88 | 18 |
| Residence .. | 19,973 | 1,787 | 1,503 | 284 | 10,624 | 2,462 | 8,162 | 6,909 | 653 |
| Other ........................................ | 1,466 | 379 | 349 | 30 | 276 | 155 | 121 | 721 | 90 |
| Not specified ............................... | 791 | 184 | 88 | 96 | 267 | 234 | 33 | 233 | 107 |
| White, non-Hispanic |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 2,333,363 | 2,173,703 | 2,067,425 | 106,278 | 146,174 | 135,666 | 10,508 | 12,525 | 961 |
| In hospital ${ }^{2}$ | 2,306,735 | 2,170,275 | 2,065,032 | 105,243 | 130,390 | 128,742 | 1,648 | 5,747 | 323 |
| Not in hospital ............................. | 25,976 | 3,257 | 2,314 | 943 | 15,578 | 6,751 | 8,827 | 6,555 | 586 |
| Freestanding birthing center ......... | 6,933 | 1,237 | 645 | 592 | 5,558 | 4,368 | 1,190 | 136 | 2 |
| Clinic or doctor's office ................. | 505 | 279 | 208 | 71 | 129 | 64 | 65 | 79 | 18 |
| Residence ................................. | 17,518 | 1,472 | 1,217 | 255 | 9,682 | 2,217 | 7,465 | 5,844 | 520 |
| Other ........................................ | 1,020 | 269 | 244 | 25 | 209 | 102 | 107 | 496 | 46 |
| Not specified ............................... | 652 | 171 | 79 | 92 | 206 | 173 | 33 | 223 | 52 |
| Black, total |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 599,913 | 551,569 | 536,066 | 15,503 | 44,190 | 43,182 | 1,008 | 3,842 | 312 |
| In hospital ${ }^{2}$ | 596,216 | 550,309 | 534,857 | 15,452 | 43,519 | 42,686 | 833 | 2,265 | 123 |
| Not in hospital ............................. | 3,637 | 1,241 | 1,192 | 49 | 664 | 489 | 175 | 1,566 | 166 |
| Freestanding birthing center ......... | 421 | 25 | 24 | 1 | 391 | 330 | 61 | 5 |  |
| Clinic or doctor's office ................. | 52 | 30 | 29 | 1 | 8 | 5 | 3 | 12 | 2 |
| Residence .. | 2,522 | 888 | 856 | 32 | 236 | 131 | 105 | 1,301 | 97 |
| Other ........................................ | 642 | 298 | 283 | 15 | 29 | 23 | 6 | 248 | 67 |
| Not specified ............................... | 60 | 19 | 17 | 2 | 7 | 7 | - | 11 | 23 |
| Black, non-Hispanic |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 581,431 | 536,324 | 521,396 | 14,928 | 41,072 | 40,094 | 978 | 3,751 | 284 |
| In hospital ${ }^{2}$................................. | 577,882 | 535,099 | 520,221 | 14,878 | 40,450 | 39,633 | 817 | 2,216 | 117 |
| Not in hospital ............................. | 3,502 | 1,206 | 1,158 | 48 | 615 | 454 | 161 | 1,525 | 156 |
| Freestanding birthing center ......... | 407 | 25 | 24 | 1 | 377 | 317 | 60 | 5 |  |
| Clinic or doctor's office ................. | 51 | 29 | 28 | 1 | 8 | 5 | 3 | 12 | 2 |
| Residence ................................. | 2,423 | 859 | 827 | 32 | 203 | 110 | 93 | 1,267 | 94 |
| Other ........................................ | 621 | 293 | 279 | 14 | 27 | 22 | 5 | 241 | 60 |
| Not specified ............................... | 47 | 19 | 17 | 2 | 7 | 7 | - | 10 | 11 |
| Hispanic ${ }^{3}$ |  |  |  |  |  |  |  |  |  |
| Total .......................................... | 709,767 | 641,734 | 620,710 | 21,024 | 63,812 | 61,866 | 1,946 | 3,952 | 269 |
| In hospital ${ }^{2}$.................................. | 704,762 | 641,153 | 620,167 | 20,986 | 60,527 | 60,238 | 289 | 2,937 | 145 |
| Not in hospital ............................. | 4,984 | 572 | 538 | 34 | 3,278 | 1,621 | 1,657 | 1,013 | 121 |
| Freestanding birthing center ......... | 2,662 | 186 | 178 | 8 | 2,441 | 1,374 | 1,067 | 30 | 5 |
| Clinic or doctor's office ................ | 58 | 28 | 27 | 1 | 21 | 14 | 7 | 9 | - |
| Residence ................................. | 1,863 | 255 | 234 | 21 | 755 | 184 | 571 | 767 | 86 |
| Other ........................................ | 401 | 103 | 99 | 4 | 61 | 49 | 12 | 207 | 30 |
| Not specified ............................... | 21 | 9 | 5 | 4 | 7 | 7 | - | 2 | 3 |

[^36]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, 1989-97

| Year and race and Hispanic origin of mother | Births by method of delivery |  |  |  |  |  |  | Cesarean delivery rate |  | Rate of vaginal birth after previous cesarean ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All births | Vaginal |  | Cesarean |  |  | Not stated | Total ${ }^{1}$ | Primary ${ }^{2}$ |  |
|  |  | Total | After previous cesarean | Total | Primary | Repeat |  |  |  |  |
| All races ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |
| 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 | 3,899,589 | 3,063,724 | 112,439 | 806,722 | 510,104 | 296,618 | 29,143 | 20.8 | 14.7 | 27.5 |
| 1994 | 3,952,767 | 3,087,576 | 110,341 | 830,517 | 520,647 | 309,870 | 34,674 | 21.2 | 14.9 | 26.3 |
| 1993 | 4,000,240 | 3,098,796 | 103,581 | 861,987 | 539,251 | 322,736 | 39,457 | 21.8 | 15.3 | 24.3 |
| 1992 ................................. | 4,065,014 | 3,100,710 | 97,549 | 888,622 | 554,662 | 333,960 | 75,682 | 22.3 | 15.6 | 22.6 |
| 1991 ................................. | 4,110,907 | 3,100,891 | 90,690 | 905,077 | 569,195 | 335,882 | 104,939 | 22.6 | 15.9 | 21.3 |
| $1990{ }^{5}$............................... | 4,110,563 | 3,111,421 | 84,299 | 914,096 | 575,066 | 339,030 | 85,046 | 22.7 | 16.0 | 19.9 |
| $1989{ }^{6}$............................... | 3,798,734 | 2,793,463 | 71,019 | 826,955 | 521,873 | 305,082 | 178,316 | 22.8 | 16.1 | 18.9 |
| White, total |  |  |  |  |  |  |  |  |  |  |
| 1997 ................................. | 3,072,640 | 2,415,236 | 89,522 | 630,613 | 393,603 | 237,010 | 26,791 | 20.7 | 14.5 | 27.4 |
| 1996 ................................. | 3,093,057 | 2,434,079 | 93,783 | 631,409 | 395,851 | 235,558 | 27,569 | 20.6 | 14.5 | 28.5 |
| 1995 ................................ | 3,098,885 | 2,435,191 | 90,940 | 639,818 | 401,098 | 238,720 | 23,876 | 20.8 | 14.6 | 27.6 |
| 1994 ................................. | 3,121,004 | 2,435,965 | 88,471 | 656,400 | 407,946 | 248,454 | 28,639 | 21.2 | 14.8 | 26.3 |
| 1993 ................................. | 3,149,833 | 2,435,229 | 82,995 | 682,355 | 423,540 | 258,815 | 32,249 | 21.9 | 15.3 | 24.3 |
| 1992 ................................. | 3,201,678 | 2,434,959 | 77,977 | 705,841 | 437,398 | 268,443 | 60,878 | 22.5 | 15.7 | 22.5 |
| 1991 ................................. | 3,241,273 | 2,434,900 | 72,564 | 723,088 | 452,534 | 270,554 | 83,285 | 22.9 | 16.1 | 21.1 |
| $1990{ }^{5}$.............................. | 3,252,473 | 2,453,857 | 67,191 | 732,713 | 458,656 | 274,057 | 65,903 | 23.0 | 16.1 | 19.7 |
| $1989{ }^{6}$............................... | 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 |  |  |  |  |  |  |  |  |  |  |
| 1997 | 2,333,363 | 1,829,213 | 70,284 | 481,982 | 305,605 | 176,377 | 22,168 | 20.9 | 14.8 | 28.5 |
| 1996 ................................. | 2,358,989 | 1,851,058 | 73,973 | 485,530 | 308,482 | 177,048 | 22,401 | 20.8 | 14.8 | 29.5 |
| 1995 ................................. | 2,382,638 | 1,867,024 | 72,124 | 496,103 | 313,933 | 182,170 | 19,511 | 21.0 | 14.9 | 28.4 |
| 1994 ................................. | 2,438,855 | 1,896,609 | 71,597 | 518,021 | 324,236 | 193,785 | 24,225 | 21.5 | 15.1 | 27.0 |
| 1993 | 2,472,031 | 1,902,433 | 67,536 | 542,013 | 338,236 | 203,777 | 27,585 | 22.2 | 15.6 | 24.9 |
| 19928 | 2,527,207 | 1,916,414 | 63,828 | 566,788 | 352,470 | 214,318 | 44,005 | 22.8 | 16.0 | 22.9 |
| $19918{ }^{8}$............................. | 2,589,878 | 1,941,726 | 60,174 | 587,802 | 368,721 | 219,081 | 60,350 | 23.2 | 16.4 | 21.5 |
| 1990 5, 9 .......................... | 2,626,500 | 1,972,754 | 55,952 | 603,467 | 378,508 | 224,959 | 50,279 | 23.4 | 16.5 | 19.9 |
| 1989 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 |  |  |  |  |  |  |  |  |  |  |
| 1997 | 599,913 | 466,001 | 16,986 | 130,142 | 83,025 | 47,117 | 3,770 | 21.8 | 15.6 | 26.5 |
| 1996 | 594,781 | 462,378 | 16,866 | 128,357 | 82,646 | 45,711 | 4,046 | 21.7 | 15.6 | 27.0 |
| 1995 | 603,139 | 468,984 | 16,224 | 130,482 | 84,441 | 46,041 | 3,673 | 21.8 | 15.7 | 26.1 |
| 1994 | 636,391 | 493,879 | 16,970 | 138,067 | 88,636 | 49,431 | 4,445 | 21.8 | 15.7 | 25.6 |
| 1993 | 658,875 | 509,816 | 16,179 | 143,452 | 91,677 | 51,775 | 5,607 | 22.0 | 15.7 | 23.8 |
| 1992 | 673,633 | 514,929 | 15,382 | 146,480 | 93,165 | 53,315 | 12,224 | 22.1 | 15.7 | 22.4 |
| 1991 ................................ | 682,602 | 519,047 | 14,213 | 145,583 | 92,645 | 52,938 | 17,972 | 21.9 | 15.5 | 21.2 |
| 19905 | 679,236 | 516,581 | 13,496 | 146,472 | 93,476 | 52,996 | 16,183 | 22.1 | 15.7 | 20.3 |
| $1989{ }^{6}$............................... | 611,147 | 452,291 | 11,104 | 127,907 | 82,695 | 45,212 | 30,319 | 22.0 | 15.8 | 19.7 |
| Black, non-Hispanic |  |  |  |  |  |  |  |  |  |  |
| 1997 ................................. | 581,431 | 451,744 | 16,353 | 126,138 | 80,599 | 45,539 | 3,549 | 21.8 | 15.6 | 26.4 |
| 1996 ................................. | 578,099 | 449,544 | 16,322 | 124,836 | 80,457 | 44,379 | 3,719 | 21.7 | 15.7 | 26.9 |
| 1995 | 587,781 | 457,104 | 15,721 | 127,171 | 82,395 | 44,776 | 3,506 | 21.8 | 15.7 | 26.0 |
| 1994 | 619,198 | 480,551 | 16,478 | 134,526 | 86,411 | 48,115 | 4,121 | 21.9 | 15.7 | 25.5 |
| 1993 ................................ | 641,273 | 496,333 | 15,675 | 139,702 | 89,315 | 50,387 | 5,238 | 22.0 | 15.7 | 23.7 |
| 19928 | 657,450 | 502,669 | 14,950 | 143,153 | 91,086 | 52,067 | 11,628 | 22.2 | 15.7 | 22.3 |
| $1991{ }^{8}$ ¢ ${ }^{\text {a }}$.......................... | 666,758 | 507,522 | 13,847 | 142,417 | 90,664 | 51,753 | 16,819 | 21.9 | 15.5 | 21.1 |
| 1990 5, 9 ........................... | 661,701 | 503,720 | 13,157 | 142,838 | 91,175 | 51,663 | 15,143 | 22.1 | 15.7 | 20.3 |
| 1989 6, 10 .......................... | 611,269 | 440,310 | 10,726 | 125,290 | 81,177 | 44,113 | 45,669 | 22.2 | 15.9 | 19.6 |
| Hispanic ${ }^{7}$ |  |  |  |  |  |  |  |  |  |  |
| 1997 ................................. | 709,767 | 563,114 | 17,942 | 142,907 | 84,410 | 58,497 | 3,746 | 20.2 | 13.4 | 23.5 |
| 1996 ................................. | 701,339 | 558,105 | 18,491 | 139,554 | 83,392 | 56,162 | 3,680 | 20.0 | 13.4 | 24.8 |
| 1995 ................................. | 679,768 | 539,731 | 17,396 | 136,640 | 82,662 | 53,978 | 3,397 | 20.2 | 13.7 | 24.4 |
| 1994 ................................ | 665,026 | 525,928 | 16,206 | 135,569 | 81,961 | 53,608 | 3,529 | 20.5 | 13.9 | 23.2 |
| 1993 _............................... | 654,418 | 514,493 | 14,586 | 136,279 | 82,576 | 53,703 | 3,646 | 20.9 | 14.2 | 21.4 |
| $19928{ }^{8}$............................... | 643,271 | 494,338 | 13,111 | 133,369 | 81,211 | 52,158 | 15,564 | 21.2 | 14.4 | 20.1 |
| $19918{ }^{8}$.............................. | 623,085 | 472,126 | 11,615 | 129,752 | 80,228 | 49,524 | 21,207 | 21.6 | 14.8 | 19.0 |
| 1990 5, 9 ............................ | 595,073 | 458,242 | 10,395 | 122,969 | 76,027 | 46,942 | 13,862 | 21.2 | 14.5 | 18.1 |
| 1989 6, 10 .......................... | 532,249 | 385,462 | 8,549 | 105,268 | 64,905 | 40,363 | 41,519 | 21.5 | 14.7 | 17.5 |

[^37]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, 1997

| Age and race and Hispanic origin of mother | Births by method of delivery |  |  |  |  |  |  | Cesarean delivery rate |  | Rate of vaginal birth after previous cesarean ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All births | Vaginal |  | Cesarean |  |  | Not stated | Total ${ }^{1}$ | Primary ${ }^{2}$ |  |
|  |  | Total | After previous cesarean | Total | Primary | Repeat |  |  |  |  |
| All races ${ }^{4}$. | 3,880,894 | 3,046,621 | 112,145 | 799,033 | 502,526 | 296,507 | 35,240 | 20.8 | 14.6 | 27.4 |
| Under 20 years ................... | 493,341 | 419,228 | 3,813 | 70,087 | 62,475 | 7,612 | 4,026 | 14.3 | 13.1 | 33.4 |
| 20-24 years ........................ | 942,048 | 772,126 | 21,144 | 161,513 | 111,725 | 49,788 | 8,409 | 17.3 | 13.0 | 29.8 |
| 25-29 years ........................ | 1,069,436 | 841,432 | 32,613 | 218,191 | 135,972 | 82,219 | 9,813 | 20.6 | 14.4 | 28.4 |
| 30-34 years ........................ | 886,798 | 668,566 | 34,843 | 210,052 | 117,119 | 92,933 | 8,180 | 23.9 | 15.6 | 27.3 |
| 35-39 years ........................ | 409,710 | 292,033 | 16,964 | 113,669 | 60,466 | 53,203 | 4,008 | 28.0 | 18.0 | 24.2 |
| 40-54 years ........................ | 79,561 | 53,236 | 2,768 | 25,521 | 14,769 | 10,752 | 804 | 32.4 | 22.6 | 20.5 |
| White, total ......................... | 3,072,640 | 2,415,236 | 89,522 | 630,613 | 393,603 | 237,010 | 26,791 | 20.7 | 14.5 | 27.4 |
| Under 20 years ................... | 343,293 | 292,651 | 2,305 | 47,871 | 43,057 | 4,814 | 2,771 | 14.1 | 12.9 | 32.4 |
| 20-24 years ........................ | 720,546 | 592,302 | 15,363 | 122,079 | 85,365 | 36,714 | 6,165 | 17.1 | 12.9 | 29.5 |
| 25-29 years ........................ | 871,636 | 687,177 | 26,121 | 176,754 | 110,265 | 66,489 | 7,705 | 20.5 | 14.3 | 28.2 |
| 30-34 years ........................ | 735,571 | 557,241 | 29,173 | 171,868 | 95,029 | 76,839 | 6,462 | 23.6 | 15.3 | 27.5 |
| 35-39 years ........................ | 337,423 | 242,492 | 14,281 | 91,847 | 48,265 | 43,582 | 3,084 | 27.5 | 17.5 | 24.7 |
| 40-54 years ........................ | 64,171 | 43,373 | 2,279 | 20,194 | 11,622 | 8,572 | 604 | 31.8 | 22.0 | 21.0 |
| White, non-Hispanic .......... | 2,333,363 | 1,829,213 | 70,284 | 481,982 | 305,605 | 176,377 | 22,168 | 20.9 | 14.8 | 28.5 |
| Under 20 years ................... | 222,097 | 188,388 | 1,373 | 31,542 | 28,692 | 2,850 | 2,167 | 14.3 | 13.3 | 32.5 |
| 20-24 years ........................ | 500,928 | 410,557 | 10,598 | 85,343 | 60,966 | 24,377 | 5,028 | 17.2 | 13.2 | 30.3 |
| 25-29 years ........................ | 674,498 | 532,371 | 19,930 | 135,686 | 87,865 | 47,821 | 6,441 | 20.3 | 14.6 | 29.4 |
| 30-34 years ........................ | 603,304 | 459,428 | 24,227 | 138,407 | 78,568 | 59,839 | 5,469 | 23.2 | 15.3 | 28.8 |
| 35-39 years ........................ | 280,393 | 203,068 | 12,227 | 74,751 | 40,065 | 34,686 | 2,574 | 26.9 | 17.4 | 26.1 |
| 40-54 years ........................ | 52,143 | 35,401 | 1,929 | 16,253 | 9,449 | 6,804 | 489 | 31.5 | 22.0 | 22.1 |
| Black, total ....... | 599,913 | 466,001 | 16,986 | 130,142 | 83,025 | 47,117 | 3,770 | 21.8 | 15.6 | 26.5 |
| Under 20 years ................... | 133,251 | 112,077 | 1,370 | 20,460 | 17,817 | 2,643 | 714 | 15.4 | 13.9 | 34.1 |
| 20-24 years ........................ | 182,600 | 147,284 | 4,992 | 34,154 | 22,315 | 11,839 | 1,162 | 18.8 | 13.6 | 29.7 |
| 25-29 years ....................... | 135,529 | 103,457 | 4,966 | 31,181 | 18,184 | 12,997 | 891 | 23.2 | 15.6 | 27.6 |
| 30-34 years ........................ | 94,123 | 67,106 | 3,756 | 26,410 | 14,684 | 11,726 | 607 | 28.2 | 18.8 | 24.3 |
| 35-39 years ........................ | 45,069 | 30,162 | 1,631 | 14,585 | 8,073 | 6,512 | 322 | 32.6 | 22.1 | 20.0 |
| 40-54 years ........................ | 9,341 | 5,915 | 271 | 3,352 | 1,952 | 1,400 | 74 | 36.2 | 25.7 | 16.2 |
| Black, non-Hispanic ........... | 581,431 | 451,744 | 16,353 | 126,138 | 80,599 | 45,539 | 3,549 | 21.8 | 15.6 | 26.4 |
| Under 20 years ................... | 129,956 | 109,246 | 1,344 | 20,032 | 17,436 | 2,596 | 678 | 15.5 | 13.9 | 34.1 |
| 20-24 years ........ | 177,494 | 143,145 | 4,847 | 33,243 | 21,676 | 11,567 | 1,106 | 18.8 | 13.5 | 29.5 |
| 25-29 years ....................... | 130,942 | 99,907 | 4,776 | 30,201 | 17,623 | 12,578 | 834 | 23.2 | 15.6 | 27.5 |
| 30-34 years ........................ | 90,637 | 64,665 | 3,561 | 25,408 | 14,174 | 11,234 | 564 | 28.2 | 18.8 | 24.1 |
| 35-39 years ........................ | 43,434 | 29,085 | 1,562 | 14,047 | 7,816 | 6,231 | 302 | 32.6 | 22.1 | 20.0 |
| 40-54 years ........................ | 8,968 | 5,696 | 263 | 3,207 | 1,874 | 1,333 | 65 | 36.0 | 25.6 | 16.5 |
| Hispanic $5^{\text {......................... }}$ | 709,767 | 563,114 | 17,942 | 142,907 | 84,410 | 58,497 | 3,746 | 20.2 | 13.4 | 23.5 |
| Under 20 years ................... | 120,955 | 104,084 | 934 | 16,230 | 14,269 | 1,961 | 641 | 13.5 | 12.2 | 32.3 |
| 20-24 years ........................ | 216,152 | 178,775 | 4,651 | 36,257 | 24,023 | 12,234 | 1,120 | 16.9 | 12.1 | 27.5 |
| 25-29 years ........................ | 188,669 | 148,107 | 5,912 | 39,563 | 21,361 | 18,202 | 999 | 21.1 | 13.1 | 24.5 |
| 30-34 years ........................ | 121,539 | 89,530 | 4,413 | 31,382 | 15,226 | 16,156 | 627 | 26.0 | 15.2 | 21.5 |
| 35-39 years ........................ | 51,601 | 35,460 | 1,743 | 15,836 | 7,552 | 8,284 | 305 | 30.9 | 18.3 | 17.4 |
| 40-54 years ........................ | 10,851 | 7,158 | 289 | 3,639 | 1,979 | 1,660 | 54 | 33.7 | 22.4 | 14.8 |

[^38]Table 41. Rates of cesarean delivery and vaginal birth after previous cesarean delivery by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1997
[By place of residence]

| State | Cesarean delivery rate ${ }^{1}$ |  |  |  |  |  | Rate of vaginal births after previous cesarean ${ }^{2}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | White |  | Black |  | Hispanic ${ }^{4}$ | $\begin{gathered} \text { All } \\ \text { races } 3 \end{gathered}$ | White |  | Black |  | Hispanic ${ }^{4}$ |
|  | $\stackrel{\text { All }}{\text { races }^{3}}$ | Total | NonHispanic | Total | NonHispanic |  |  | Total | NonHispanic | Total | NonHispanic |  |
| United States ${ }^{5}$......... | 20.8 | 20.7 | 20.9 | 21.8 | 21.8 | 20.2 | 27.4 | 27.4 | 28.5 | 26.5 | 26.4 | 23.5 |
| Alabama ................... | 23.9 | 24.5 | 24.6 | 22.6 | 22.6 | 20.9 | 22.3 | 21.6 | 21.4 | 23.7 | 23.7 | 27.4 |
| Alaska .................... | 16.8 | 19.2 | 19.1 | 22.8 | 23.0 | 21.4 | 33.4 | 27.8 | 27.7 |  |  |  |
| Arizona .................... | 16.8 | 16.8 | 18.1 | 19.9 | 20.0 | 15.1 | 26.4 | 25.3 | 25.7 | 24.2 | 23.2 | 25.0 |
| Arkansas ................. | 24.5 | 24.3 | 24.6 | 25.6 | 25.6 | 18.8 | 19.3 | 18.9 | 18.5 | 20.2 | 20.2 | 25.8 |
| California .................. | 21.0 | 21.0 | 21.9 | 23.3 | 23.3 | 20.3 | 20.6 | 20.4 | 21.7 | 18.1 | 18.1 | 19.5 |
| Colorado .................. | 15.3 | 15.2 | 15.4 | 17.8 | 17.9 | 14.4 | 35.7 | 36.0 | 35.4 | 35.5 | 35.8 | 37.4 |
| Connecticut .............. | 19.8 | 19.7 | 20.1 | 20.2 | 20.4 | 17.2 | 33.2 | 33.5 | 34.2 | 30.3 | 30.6 | 31.2 |
| Delaware ................. | 21.0 | 20.9 | 21.3 | 20.9 | 21.0 | 15.4 | 31.0 | 30.2 | 29.5 | 33.5 | 32.9 | 39.6 |
| District of Columbia ... | 21.2 | 20.3 | 22.1 | 21.7 | 21.8 | 16.5 | 23.4 | 17.9 |  | 24.6 | 24.3 | * |
| Florida ..................... | 22.2 | 22.6 | 21.9 | 20.9 | 20.9 | 24.5 | 24.2 | 24.1 | 26.4 | 24.1 | 24.1 | 18.1 |
| Georgia ................... | 20.8 | 20.6 | 21.1 | 21.2 | 21.3 | 16.3 | 23.7 | 24.1 | 23.8 | 22.9 | 22.8 | 26.9 |
| Hawaii | 16.7 | 19.8 | 19.7 | 20.8 | 21.2 | 17.5 | 44.7 | 37.0 | 37.6 | 39.1 | 37.1 | 45.3 |
| Idaho ....................... | 16.4 | 16.4 | 16.2 | * | * | 17.7 | 33.5 | 33.8 | 34.4 |  | * | 27.6 |
| Illinois ..................... | 19.1 | 19.2 | 19.9 | 19.0 | 19.0 | 16.8 | 32.7 | 33.7 | 33.5 | 28.6 | 28.6 | 34.4 |
| Indiana .................... | 19.7 | 19.6 | 19.6 | 20.2 | 20.2 | 19.9 | 27.7 | 27.9 | 28.0 | 26.1 | 26.2 | 28.0 |
| lowa ....................... | 18.9 | 19.0 | 19.2 | 17.7 | 16.8 | 16.2 | 33.6 | 33.8 | 33.3 | 27.6 | 30.0 | 42.2 |
| Kansas | 18.5 | 18.6 | 18.8 | 18.5 | 18.5 | 16.4 | 27.1 | 26.4 | 26.5 | 32.8 | 32.8 | 26.1 |
| Kentucky ................. | 22.4 | 22.4 | 22.5 | 22.0 | 21.9 | 17.5 | 24.1 | 24.0 | 23.8 | 26.1 | 26.1 | 28.9 |
| Louisiana .................. | 25.4 | 26.4 | 26.5 | 24.2 | 24.2 | 24.4 | 13.0 | 10.5 | 10.4 | 16.9 | 16.8 |  |
| Maine ...................... | 20.8 | 20.8 | 20.8 | * | * | 20.7 | 29.3 | 28.9 | 29.3 | * | * | * |
| Maryland | 21.0 | 20.6 | 21.0 | 21.9 | 22.0 | 16.7 | 31.1 | 31.7 | 31.5 | 29.3 | 29.3 | 31.4 |
| Massachusetts .......... | 19.7 | 19.8 | 20.2 | 21.0 | 20.8 | 17.7 | 33.7 | 33.8 | 33.9 | 29.8 | 30.2 | 31.6 |
| Michigan ................... | 20.1 | 20.2 | 20.3 | 19.8 | 19.9 | 19.9 | 27.1 | 27.4 | 27.2 | 25.9 | 25.7 | 29.2 |
| Minnesota ................ | 17.1 | 17.6 | 17.7 | 16.3 | 16.2 | 17.5 | 34.7 | 33.7 | 33.5 | 43.6 | 43.8 | 37.6 |
| Mississippi ................ | 26.7 | 27.8 | 27.9 | 25.5 | 25.5 | 22.3 | 15.6 | 13.9 | 13.7 | 17.4 | 17.4 |  |
| Missouri ................... | 20.1 | 20.4 | 20.5 | 18.0 | 18.0 | 19.9 | 30.8 | 30.0 | 30.1 | 36.4 | 36.3 | 30.5 |
| Montana .................. | 19.0 | 18.5 | 18.5 | * | * | 18.6 | 32.5 | 34.2 | 34.0 |  | * | * |
| Nebraska .................. | 20.2 | 20.3 | 20.5 | 18.9 | 19.0 | 18.6 | 27.6 | 27.5 | 27.2 | 28.5 | 28.5 | 28.1 |
| Nevada .................... | 20.1 | 19.6 | 20.9 | 23.2 | 23.4 | 17.0 | 26.6 | 26.9 | 25.6 | 25.5 | 25.4 | 29.5 |
| New Hampshire ........ | 19.3 | 19.3 | 19.5 | 19.4 | * | 15.8 | 36.3 | 36.4 | 36.3 | * | * | * |
| New Jersey .............. | 24.9 | 25.0 | 25.0 | 24.4 | 24.1 | 25.2 | 34.1 | 33.4 | 34.3 | 37.7 | 39.1 | 29.5 |
| New Mexico ............. | 16.6 | 17.2 | 17.5 | 21.9 | 22.0 | 16.9 | 39.3 | 38.2 | 38.7 | * | * | 38.0 |
| New York ................. | 23.0 | 23.0 | 23.5 | 23.4 | 23.5 | 22.2 | 31.7 | 32.2 | 31.6 | 30.7 | 30.8 | 30.6 |
| North Carolina ........... | 21.2 | 21.2 | 21.6 | 21.6 | 21.6 | 16.6 | 28.2 | 28.1 | 27.7 | 28.1 | 28.2 | 33.6 |
| North Dakota ............ | 18.4 | 18.2 | 18.2 |  |  | 21.2 | 32.3 | 32.4 | 32.3 |  | * |  |
| Ohio ........................ | 19.0 | 19.1 | 19.1 | 18.9 | 18.8 | 20.1 | 35.5 | 35.3 | 35.3 | 36.9 | 37.0 | 33.8 |
| Oklahoma ................. | 22.3 | 22.1 | 22.3 | 23.0 | 23.0 | 20.8 | 21.6 | 21.0 | 20.6 | 24.7 | 24.5 | 25.2 |
| Oregon .................... | 16.9 | 16.9 | 17.1 | 19.3 | 19.0 | 15.5 | 37.6 | 37.6 | 37.2 | 38.2 | 37.6 | 40.5 |
| Pennsylvania ............ | 19.4 | 19.5 | 19.7 | 18.9 | 18.9 | 17.1 | 35.0 | 34.2 | 33.9 | 39.3 | 39.4 | 38.2 |
| Rhode Island ............. | 18.6 | 18.8 | 19.5 | 19.5 | 18.9 | 16.5 | 31.8 | 31.3 | 31.0 | 27.7 | 28.4 | 31.8 |
| South Carolina .......... | 22.8 | 23.0 | 23.1 | 22.5 | 22.5 | 18.0 | 23.3 | 24.0 | 23.5 | 21.7 | 21.8 | 35.6 |
| South Dakota ............ | 20.0 | 19.8 | 19.8 | 22.2 | 22.7 | 20.6 | 23.6 | 25.2 | 25.0 | * |  |  |
| Tennessee ............... | 21.9 | 21.9 | 22.0 | 21.7 | 21.7 | 19.2 | 25.6 | 24.9 | 24.8 | 27.7 | 27.7 | 30.1 |
| Texas ..................... | 23.1 | 23.0 | 23.7 | 24.8 | 24.9 | 22.3 | 19.5 | 19.5 | 21.8 | 18.1 | 18.2 | 17.4 |
| Utah ....................... | 15.8 | 15.7 | 15.6 | 18.8 | 19.4 | 17.1 | 32.9 | 32.7 | 32.2 | * |  | 36.4 |
| Vermont ................... | 15.6 | 15.6 | 15.6 | * | * | * | 39.3 | 39.5 | 39.6 | * | * | * |
| Virginia .................... | 21.5 | 21.1 | 21.1 | 22.8 | 22.9 | 20.3 | 31.6 | 31.6 | 31.5 | 31.2 | 31.2 | 31.8 |
| Washington .............. | 17.2 | 17.0 | 17.0 | 21.4 | 21.5 | 17.1 | 34.3 | 34.2 | 34.4 | 30.0 | 29.7 | 33.8 |
| West Virginia ............ | 24.4 | 24.2 | 24.3 | 28.9 | 28.9 | * | 21.2 | 21.3 | 21.3 |  | * |  |
| Wisconsin ................. | 15.7 | 16.2 | 16.3 | 13.1 | 13.1 | 15.3 | 33.6 | 33.8 | 34.0 | 28.9 | 29.1 | 29.8 |
| Wyoming ................. | 18.6 | 18.5 | 18.3 |  |  | 20.4 | 31.6 | 31.1 | 32.2 |  | * |  |
| Puerto Rico .............. | 33.4 | 33.8 | --- | 28.7 | --- | --- | 8.0 | 7.9 | --- | 8.7 | -- | --- |
| Virgin Islands ........... | 22.8 | 24.3 | 26.2 | 22.7 | 22.6 | 21.8 | 19.8 |  | * | 21.8 | 22.9 | * |
| Guam ...................... | 15.8 | 15.4 | 15.1 |  |  |  | 30.8 | * | * | . |  | * |

[^39]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, 1997

| Medical risk factor and complication | All births to mothers with specified condition and/or procedure | Cesarean delivery rate |  | Rate of vaginal birth after previous cesarean ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Total ${ }^{1}$ | Primary ${ }^{2}$ |  |
| Medical risk factors |  |  |  |  |
| Anemia | 77,334 | 22.3 | 15.7 | 30.7 |
| Cardiac disease | 19,929 | 24.5 | 17.5 | 31.6 |
| Acute or chronic lung disease ....................................... | 37,153 | 24.0 | 17.2 | 30.3 |
| Diabetes ................................................................. | 101,176 | 35.6 | 25.6 | 19.9 |
| Genital herpes ${ }^{4}$ | 31,550 | 35.0 | 29.1 | 29.7 |
| Hydramnios/Oligohydramnios | 50,025 | 35.8 | 30.6 | 25.6 |
| Hemoglobinopathy .... | 3,123 | 25.1 | 17.7 | 25.2 |
| Hypertension, chronic | 26,378 | 39.7 | 30.1 | 18.2 |
| Hypertension, pregnancy-associated ............................ | 141,235 | 35.5 | 30.7 | 21.7 |
| Eclampsia | 12,782 | 48.0 | 43.8 | 15.5 |
| Incompetent cervix | 10,208 | 31.2 | 24.5 | 29.1 |
| Renal disease ${ }^{5}$ | 10,886 | 24.7 | 18.0 | 30.0 |
| Rh sensitization 6 | 24,505 | 21.7 | 15.4 | 33.5 |
| Uterine bleeding 4 | 24,463 | 31.2 | 24.4 | 24.9 |
| Complications of labor and/or delivery |  |  |  |  |
| Febrile | 60,114 | 30.1 | 28.2 | 49.1 |
| Meconium, moderate/heavy | 215,127 | 20.1 | 17.2 | 47.4 |
| Premature rupture of membrane | 108,831 | 25.1 | 22.1 | 40.7 |
| Abruptio placenta | 22,063 | 58.2 | 53.5 | 17.7 |
| Placenta previa | 12,477 | 82.0 | 78.3 | 5.0 |
| Other excessive bleeding 7 | 21,797 | 26.7 | 21.1 | 34.4 |
| Seizures during labor .................................................. | 1,286 | 49.1 | 46.7 | 25.7 |
| Precipitous labor (less than 3 hours) ............................. | 79,713 | 2.4 | 1.5 | 78.2 |
| Prolonged labor (more than 20 hours) | 32,728 | 35.0 | 33.6 | 47.8 |
| Dysfunctional labor ..................................................... | 106,157 | 63.2 | 60.6 | 16.8 |
| Breech/Malpresentation | 147,248 | 84.5 | 82.9 | 5.3 |
| Cephalopelvic disproportion ........................................ | 81,208 | 96.2 | 95.7 | 1.7 |
| Cord prolapse ............... | 7,868 | 66.4 | 64.1 | 14.3 |
| Anesthetic complication ${ }^{8}$............................................ | 2,181 | 41.4 | 32.9 | 23.5 |
| Fetal distress ${ }^{8}$.......................................................... | 141,502 | 54.4 | 51.6 | 23.5 |

[^40]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, 1997

| Birthweight ${ }^{1}$ and race and Hispanic origin of mother | All births | Period of gestation 2 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Preterm |  |  |  |  | Term |  |  |  | Postterm | Not stated |
|  |  | Total under 37 weeks | Under 28 weeks | $\begin{aligned} & \text { 28-31 } \\ & \text { weeks } \end{aligned}$ | $\begin{aligned} & 32-35 \\ & \text { weeks } \end{aligned}$ | 36 weeks | Total 37-41 weeks | $\begin{aligned} & 37-39 \\ & \text { weeks } \end{aligned}$ | 40 weeks | 41 <br> weeks | 42 weeks and over |  |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$ | 3,880,894 | 436,600 | 28,005 | 46,398 | 204,232 | 157,965 | 3,103,295 | 1,793,421 | 851,729 | 458,145 | 302,541 | 38,458 |
| Less than 500 grams ........ | 5,634 | 5,433 | 5,181 | 230 | 20 | 2 | 9 | 6 | 3 | - | - | 192 |
| 500-999 grams ............... | 21,747 | 21,069 | 15,710 | 4,811 | 509 | 39 | 177 | 107 | 50 | 20 | 27 | 474 |
| 1,000-1,499 grams .......... | 27,592 | 25,518 | 3,717 | 14,592 | 6,691 | 518 | 1,437 | 1,044 | 258 | 135 | 211 | 426 |
| 1,500-1,999 grams .......... | 56,821 | 46,647 | 924 | 10,973 | 29,912 | 4,838 | 8,621 | 7,196 | 953 | 472 | 805 | 748 |
| 2,000-2,499 grams .......... | 179,360 | 90,369 | 753 | 4,222 | 58,005 | 27,389 | 81,735 | 66,806 | 10,140 | 4,789 | 5,293 | 1,963 |
| 2,500-2,999 grams .......... | 642,089 | 114,384 | 1,075 | 4,186 | 51,623 | 57,500 | 485,777 | 355,560 | 89,868 | 40,349 | 35,795 | 6,133 |
| 3,000-3,499 grams .......... | 1,435,290 | 87,284 |  | 4,784 | 36,478 | 46,022 | 1,224,614 | 744,090 | 322,681 | 157,843 | 110,227 | 13,165 |
| 3,500-3,999 grams ........... | 1,117,562 | 36,031 | - | 2,485 | 16,375 | 17,171 | 965,920 | 479,036 | 311,000 | 175,884 | 105,620 | 9,991 |
| 4,000-4,499 grams .......... | 330,894 | 7,449 | - |  | 3,801 | 3,648 | 283,482 | 118,881 | 99,133 | 65,468 | 36,934 | 3,029 |
| 4,500-4,999 grams .......... | 53,936 | 1,202 | - |  | 542 | 660 | 45,459 | 17,842 | 15,804 | 11,813 | 6,734 | 541 |
| 5,000 grams or more ........ | 5,941 | 184 | - | - | 94 | 90 | 4,933 | 2,188 | 1,542 | 1,203 | 754 | 70 |
| Not stated ....................... | 4,028 | 1,030 | 645 | 115 | 182 | 88 | 1,131 | 665 | 297 | 169 | 141 | 1,726 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... Low birthweight 5 | 1.4 | 11.9 | 89.9 | 42.4 | 3.5 | 0.4 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 3.0 |
|  | 7.5 | 43.4 | 96.1 | 75.3 | 46.6 | 20.8 | 3.0 | 4.2 | 1.3 | 1.2 | 2.1 | 10.4 |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| White, total ..................... | 3,072,640 | 310,843 | 16,204 | 30,326 | 145,634 | 118,679 | 2,489,555 | 1,417,786 | 693,618 | 378,151 | 243,494 | 28,748 |
| Less than 500 grams ........ | 3,107 | 2,989 | 2,839 | 138 | 12 | - | 7 | 5 | 2 | - | - | 111 |
| 500-999 grams ............... | 13,168 | 12,730 | 9,336 | 3,044 | 324 | 26 | 132 | 79 | 38 | 15 | 22 | 284 |
| 1,000-1,499 grams .......... | 18,277 | 16,900 | 2,228 | 9,711 | 4,604 | 357 | 963 | 698 | 170 | 95 | 139 | 275 |
| 1,500-1,999 grams .......... | 38,988 | 32,041 | 472 | 7,504 | 20,757 | 3,308 | 5,898 | 4,908 | 668 | 322 | 560 | 489 |
| 2,000-2,499 grams .......... | 124,855 | 63,982 | 397 | 2,554 | 41,642 | 19,389 | 56,058 | 45,995 | 6,770 | 3,293 | 3,574 | 1,241 |
| 2,500-2,999 grams .......... | 459,648 | 82,319 | 557 | 2,431 | 36,746 | 42,585 | 347,844 | 254,771 | 63,942 | 29,131 | 25,347 | 4,138 |
| 3,000-3,499 grams .......... | 1,123,452 | 64,411 | - | 3,060 | 25,701 | 35,650 | 963,272 | 584,706 | 253,597 | 124,969 | 85,897 | 9,872 |
| 3,500-3,999 grams .......... | 944,304 | 27,651 |  | 1,800 | 12,185 | 13,666 | 819,688 | 404,583 | 264,834 | 150,271 | 88,817 | 8,148 |
| 4,000-4,499 grams .......... | 291,179 | 6,026 |  |  | 3,005 | 3,021 | 250,218 | 104,131 | 87,867 | 58,220 | 32,336 | 2,599 |
| 4,500-4,999 grams .......... | 47,790 | 965 |  |  | 436 | 529 | 40,325 | 15,557 | 14,132 | 10,636 | 6,033 | 467 |
| 5,000 grams or more ........ | 5,129 | 160 | ${ }^{-}$ | - | 79 | 81 | 4,261 | 1,847 | 1,347 | 1,067 | 661 | 47 |
| Not stated ...................... | 2,743 | 669 | 375 | 84 | 143 | 67 | 889 | 506 | 251 | 132 | 108 | 1,077 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... Low birthweight 5 | 1.1 | 10.5 | 91.0 | 42.6 | 3.4 | 0.3 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 2.4 |
|  | 6.5 | 41.5 | 96.5 | 75.9 | 46.3 | 19.5 | 2.5 | 3.6 | 1.1 | 1.0 | 1.8 | 8.7 |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| White, non-Hispanic ....... | 2,333,363 | 230,592 | 11,997 | 22,452 | 106,487 | 89,656 | 1,905,396 | 1,080,746 | 532,826 | 291,824 | 183,691 | 13,684 |
| Less than 500 grams ........ | 2,280 | 2,228 | 2,116 | 104 | 8 | - | 3 | 3 | - | - | - | 49 |
| 500-999 grams ............... | 9,890 | 9,648 | 6,993 | 2,402 | 236 | 17 | 100 | 61 | 27 | 12 | 16 | 126 |
| 1,000-1,499 grams .......... | 13,919 | 13,033 | 1,609 | 7,606 | 3,547 | 271 | 645 | 472 | 114 | 59 | 105 | 136 |
| 1,500-1,999 grams .......... | 29,986 | 24,898 | 322 | 5,803 | 16,233 | 2,540 | 4,445 | 3,738 | 468 | 239 | 401 | 242 |
| 2,000-2,499 grams .......... | 94,875 | 49,574 | 290 | 1,768 | 32,455 | 15,061 | 42,041 | 34,666 | 4,988 | 2,387 | 2,657 | 603 |
| 2,500-2,999 grams .......... | 337,656 | 61,850 | 378 | 1,523 | 27,170 | 32,779 | 255,464 | 188,193 | 46,201 | 21,070 | 18,436 | 1,906 |
| 3,000-3,499 grams .......... | 834,586 | 45,247 | - | 1,978 | 16,695 | 26,574 | 722,037 | 439,589 | 189,575 | 92,873 | 62,895 | 4,407 |
| 3,500-3,999 grams .......... | 731,509 | 18,707 | - | 1,197 | 7,701 | 9,809 | 640,904 | 315,887 | 207,152 | 117,865 | 67,946 | 3,952 |
| 4,000-4,499 grams ........... | 233,974 | 4,098 | - | - | 1,998 | 2,100 | 202,789 | 83,735 | 71,532 | 47,522 | 25,761 | 1,326 |
| 4,500-4,999 grams .......... | 38,647 | 658 |  |  | 275 | 383 | 32,884 | 12,589 | 11,484 | 8,811 | 4,863 | 242 |
|  | 4,040 | 113 | - | - | 54 | 59 | 3,381 | 1,418 | 1,083 | 880 | 522 | 24 |
| Not stated ....................... | 2,001 | 538 | 289 | 71 | 115 | 63 | 703 | 395 | 202 | 106 | 89 | 671 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... | 1.1 | 10.8 | 91.5 | 45.2 | 3.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 2.4 |
| Low birthweight 5 ............ | 6.5 | 43.2 | 96.8 | 79.0 | 49.3 | 20.0 | 2.5 | 3.6 | 1.1 | 0.9 | 1.7 | 8.9 |

[^41]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, 1997 --Con.

| Birthweight ${ }^{1}$ and race and Hispanic origin of mother | All births | Period of gestation ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Preterm |  |  |  |  | Term |  |  |  | Postterm | Not stated |
|  |  | Total under 37 weeks | Under 28 weeks | $\begin{aligned} & \text { 28-31 } \\ & \text { weeks } \end{aligned}$ | $\begin{aligned} & 32-35 \\ & \text { weeks } \end{aligned}$ | 36 weeks | $\begin{aligned} & \text { Total } \\ & 37-41 \\ & \text { weeks } \end{aligned}$ | $\begin{aligned} & 37-39 \\ & \text { weeks } \end{aligned}$ | 40 weeks | 41 weeks | 42 weeks and over |  |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| Black, total ...................... | 599,913 | 104,152 | 10,736 | 14,040 | 48,350 | 31,026 | 445,747 | 273,351 | 113,749 | 58,647 | 44,745 | 5,269 |
| Less than 500 grams ........ | 2,343 | 2,274 | 2,179 | 87 | 6 | 2 | 1 | 1 | - | - | - | 68 |
| 500-999 grams ............... | 7,732 | 7,537 | 5,799 | 1,571 | 156 | 11 | 39 | 23 | 12 | 4 | 4 | 152 |
| 1,000-1,499 grams .......... | 8,109 | 7,540 | 1,328 | 4,294 | 1,780 | 138 | 396 | 291 | 69 | 36 | 64 | 109 |
| 1,500-1,999 grams .......... | 15,151 | 12,473 | 422 | 3,032 | 7,746 | 1,273 | 2,296 | 1,919 | 247 | 130 | 206 | 176 |
| 2,000-2,499 grams .......... | 44,584 | 21,976 | 314 | 1,495 | 13,644 | 6,523 | 20,673 | 16,697 | 2,735 | 1,241 | 1,440 | 495 |
| 2,500-2,999 grams .......... | 139,623 | 25,940 | 449 | 1,528 | 12,230 | 11,733 | 104,096 | 75,695 | 19,656 | 8,745 | 8,460 | 1,127 |
| 3,000-3,499 grams .......... | 227,388 | 18,309 | - | 1,434 | 8,797 | 8,078 | 188,839 | 114,619 | 49,959 | 24,261 | 18,576 | 1,664 |
| 3,500-3,999 grams .......... | 122,093 | 6,540 |  | 575 | 3,270 | 2,695 | 102,421 | 51,947 | 32,164 | 18,310 | 12,236 | 896 |
| 4,000-4,499 grams .......... | 27,335 | 1,049 |  | - | 596 | 453 | 22,879 | 10,240 | 7,627 | 5,012 | 3,225 | 182 |
| 4,500-4,999 grams .......... | 4,164 | 182 |  |  | 84 | 98 | 3,495 | 1,580 | 1,114 | 801 | 455 | 32 |
| 5,000 grams or more ........ | 530 | 19 | - |  | 12 | 7 | 447 | 235 | 132 | 80 | 55 | 9 |
| Not stated ...................... | 861 | 313 | 245 | 24 | 29 | 15 | 165 | 104 | 34 | 27 | 24 | 359 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... Low birthweight 5 | 3.0 | 16.7 | 88.7 | 42.5 | 4.0 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 6.7 |
|  | 13.0 | 49.9 | 95.7 | 74.8 | 48.3 | 25.6 | 5.3 | 6.9 | 2.7 | 2.4 | 3.8 | 20.4 |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| Black, non-Hispanic ....... | 581,431 | 101,533 | 10,462 | 13,710 | 47,201 | 30,160 | 431,630 | 265,226 | 109,923 | 56,481 | 43,296 | 4,972 |
| Less than 500 grams ........ | 2,286 | 2,219 | 2,124 | 87 | 6 | 2 | 1 | 1 | - | $\overline{-}$ | - | 66 |
| 500-999 grams ............... | 7,523 | 7,339 | 5,643 | 1,536 | 149 | 11 | 36 | 21 | 12 | 3 | 4 | 144 |
| 1,000-1,499 grams .......... | 7,909 | 7,360 | 1,295 | 4,194 | 1,737 | 134 | 384 | 282 | 66 | 36 | 60 | 105 |
| 1,500-1,999 grams .......... | 14,850 | 12,227 | 414 | 2,973 | 7,602 | 1,238 | 2,254 | 1,884 | 243 | 127 | 200 | 169 |
| 2,000-2,499 grams .......... | 43,566 | 21,481 | 306 | 1,461 | 13,332 | 6,382 | 20,210 | 16,334 | 2,664 | 1,212 | 1,402 | 473 |
| 2,500-2,999 grams .......... | 136,016 | 25,260 | 440 | 1,494 | 11,934 | 11,392 | 101,437 | 73,830 | 19,134 | 8,473 | 8,234 | 1,085 |
| 3,000-3,499 grams .......... | 220,324 | 17,816 | - | 1,390 | 8,576 | 7,850 | 182,924 | 111,185 | 48,317 | 23,422 | 18,009 | 1,575 |
| 3,500-3,999 grams .......... | 117,581 | 6,330 |  | 551 | 3,171 | 2,608 | 98,621 | 50,044 | 30,984 | 17,593 | 11,791 | 839 |
| 4,000-4,499 grams .......... | 26,133 | 1,008 |  | - | 576 | 432 | 21,870 | 9,818 | 7,287 | 4,765 | 3,085 | 170 |
| 4,500-4,999 grams .......... | 3,941 | 169 |  |  | 79 | 90 | 3,306 | 1,502 | 1,054 | 750 | 435 | 31 |
| 5,000 grams or more ........ | 514 | 18 | - | - | 11 | 7 | 433 | 229 | 130 | 74 | 54 | 9 |
| Not stated ....................... | 788 | 306 | 240 | 24 | 28 | 14 | 154 | 96 | 32 | 26 | 22 | 306 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... Low birthweight 5 | 3.1 | 16.7 | 88.7 | 42.5 | 4.0 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 6.8 |
|  | 13.1 | 50.0 | 95.7 | 74.9 | 48.4 | 25.8 | 5.3 | 7.0 | 2.7 | 2.4 | 3.8 | 20.5 |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic ${ }^{6}$...................... | 709,767 | 77,919 | 4,004 | 7,671 | 38,052 | 28,192 | 560,079 | 324,508 | 153,514 | 82,057 | 57,582 | 14,187 |
| Less than 500 grams ........ | 734 | 671 | 638 | 30 | 3 | 7 | 4 | 2 | 2 | 4 | , | 59 |
| 500-999 grams ............... | 3,137 | 2,944 | 2,246 | 609 | 82 | 7 | 35 | 20 | 11 | 4 | 3 | 155 |
| 1,000-1,499 grams .......... | 4,177 | 3,701 | 602 | 2,021 | 997 | 81 | 313 | 222 | 58 | 33 | 26 | 137 |
| 1,500-1,999 grams .......... | 8,566 | 6,774 | 148 | 1,615 | 4,279 | 732 | 1,407 | 1,133 | 190 | 84 | 156 | 229 |
| 2,000-2,499 grams .......... | 28,897 | 13,822 | 108 | 766 | 8,790 | 4,158 | 13,593 | 10,963 | 1,745 | 885 | 889 | 593 |
| 2,500-2,999 grams .......... | 118,520 | 19,943 | 183 | 913 | 9,331 | 9,516 | 89,648 | 64,567 | 17,236 | 7,845 | 6,786 | 2,143 |
| 3,000-3,499 grams .......... | 279,074 | 18,840 |  | 1,097 | 8,904 | 8,839 | 232,674 | 140,137 | 61,703 | 30,834 | 22,296 | 5,264 |
| 3,500-3,999 grams .......... | 202,811 | 8,863 | - | 608 | 4,466 | 3,789 | 169,967 | 84,788 | 54,572 | 30,607 | 19,990 | 3,991 |
| 4,000-4,499 grams ........... | 53,773 | 1,891 |  | - | 990 | 901 | 44,471 | 19,331 | 15,261 | 9,879 | 6,204 | 1,207 |
| 4,500-4,999 grams .......... | 8,550 | 299 | - | - | 155 | 144 | 6,956 | 2,821 | 2,447 | 1,688 | 1,084 | 211 |
| 5,000 grams or more ........ | 1,039 | 47 | ${ }^{-}$ | - | 27 | 20 | 837 | 417 | 244 | 176 | 132 | 23 |
| Not stated ....................... | 489 | 124 | 79 | 12 | 28 | 5 | 174 | 107 | 45 | 22 | 16 | 175 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... | 1.1 | 9.4 | 88.8 | 34.7 | 2.8 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 2.5 |
| Low birthweight ${ }^{5}$............ | 6.4 | 35.9 | 95.3 | 65.8 | 37.2 | 17.7 | 2.7 | 3.8 | 1.3 | 1.2 | 1.9 | 8.4 |

[^42]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, 1981-97

| Year | Very preterm ${ }^{1}$ |  |  |  |  |  | Preterm ${ }^{2}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | White |  | Black |  | Hispanic ${ }^{4}$ | $\begin{gathered} A l l \\ \text { races }^{3} \end{gathered}$ | White |  | Black |  | Hispanic ${ }^{4}$ |
|  | $\begin{gathered} \text { All } \\ \text { races } \end{gathered}$ | Total | NonHispanic | Total | NonHispanic |  |  | Total | NonHispanic | Total | NonHispanic |  |
| 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 |
| 19927 ..................... | 1.91 | 1.40 | 1.33 | 4.47 | 4.50 | 1.64 | 10.7 | 9.1 | 8.7 | 18.4 | 18.5 | 10.7 |
| 19917 .................... | 1.94 | 1.41 | 1.35 | 4.62 | 4.65 | 1.65 | 10.8 | 9.1 | 8.7 | 18.9 | 19.0 | 11.0 |
| $19908{ }^{8}$..................... | 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 birthweight ${ }^{5}$ |  |  |  |  |  | Low birthweight ${ }^{6}$ |  |  |  |  |  |
|  |  | White |  | Black |  | Hispanic ${ }^{4}$ | White |  |  | Black |  |  |
|  | $\begin{gathered} \text { All } \\ \text { races }^{3} \end{gathered}$ | Total | NonHispanic | Total | NonHispanic |  | $\begin{gathered} \text { All } \\ \text { races }^{3} \end{gathered}$ | Total | NonHispanic | Total | NonHispanic | Hispanic ${ }^{4}$ |
| 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 |
| 19927 ..................... | 1.29 | 0.96 | 0.94 | 2.96 | 2.97 | 1.04 | 7.1 | 5.8 | 5.7 | 13.3 | 13.4 | 6.1 |
| 19917 ..................... | 1.29 | 0.96 | 0.94 | 2.96 | 2.97 | 1.02 | 7.1 | 5.8 | 5.7 | 13.6 | 13.6 | 6.1 |
| 19908 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 |
| 19899 ..................... | 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 | --- | --- |

[^43]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, 1997

| Age and race and Hispanic origin of mother | Low birthweight ${ }^{1}$ |  | Birthweight 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Total | Less <br> than 500 grams | $\begin{gathered} 500- \\ 999 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 1,000- \\ 1,499 \\ \text { grams } \end{gathered}$ | $\begin{aligned} & 1,500- \\ & 1,999 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & \text { 2,000- } \\ & \text { 2,499 } \\ & \text { grams } \end{aligned}$ | $\begin{gathered} 2,500- \\ 2,999 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 3,000- \\ 3,499 \\ \text { grams } \end{gathered}$ | $\begin{aligned} & 3,500- \\ & 3,999 \\ & \text { grams } \end{aligned}$ | $\begin{gathered} 4,000- \\ 4,499 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 4,500- \\ 4,999 \\ \text { grams } \end{gathered}$ | 5,000grams or more | Not stated |



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, 1997--Con.

| Age and race and Hispanic origin of mother | Low birthweight ${ }^{1}$ |  | Birthweight ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Total | Less than 500 grams | $\begin{gathered} 500- \\ 999 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 1,000- \\ 1,499 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 1,500- \\ 1,999 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 2,000- \\ 2,499 \\ \text { grams } \end{gathered}$ | $\begin{aligned} & 2,500- \\ & 2,999 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 3,000- \\ & 3,499 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 3,500- \\ & 3,999 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 4,000- \\ & 4,499 \\ & \text { grams } \end{aligned}$ | $\begin{gathered} 4,500- \\ 4,999 \\ \text { grams } \end{gathered}$ | $\begin{aligned} & \text { 5,000- } \\ & \text { grams } \\ & \text { or more } \end{aligned}$ | Not stated |


| Black, total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All ages ......................... | 77,919 | 13.0 | 599,913 | 2,343 | 7,732 | 8,109 | 15,151 | 44,584 | 139,623 | 227,388 | 122,093 | 27,335 | 4,164 | 530 | 861 |
| Under 15 years ................ | 761 | 16.2 | 4,712 | 26 | 73 | 80 | 140 | 442 | 1,329 | 1,822 | 682 | 105 | 7 | 3 | 3 |
| 15-19 years .................... | 16,995 | 13.2 | 128,539 | 422 | 1,487 | 1,618 | 3,250 | 10,218 | 34,721 | 50,978 | 21,775 | 3,480 | 387 | 30 | 173 |
| 15 years ...................... | 1,370 | 14.6 | 9,381 | 38 | 131 | 145 | 234 | 822 | 2,688 | 3,674 | 1,438 | 185 | 14 | 1 | 11 |
| 16 years ...................... | 2,493 | 14.1 | 17,658 | 58 | 207 | 240 | 502 | 1,486 | 4,986 | 6,856 | 2,834 | 415 | 47 | 2 | 25 |
| 17 years ..................... | 3,579 | 13.5 | 26,595 | 79 | 307 | 376 | 669 | 2,148 | 7,335 | 10,521 | 4,430 | 633 | 62 | 1 | 34 |
| 18 years ... | 4,504 | 13.0 | 34,712 | 130 | 389 | 384 | 905 | 2,696 | 9,189 | 13,925 | 5,927 | 985 | 115 | 11 | 56 |
| 19 years ...................... | 5,049 | 12.6 | 40,193 | 117 | 453 | 473 | 940 | 3,066 | 10,523 | 16,002 | 7,146 | 1,262 | 149 | 15 | 47 |
| 20-24 years .................... | 21,644 | 11.9 | 182,600 | 664 | 2,091 | 2,131 | 4,117 | 12,641 | 43,788 | 71,770 | 36,633 | 7,384 | 1,031 | 107 | 243 |
| 25-29 years .................... | 16,767 | 12.4 | 135,529 | 560 | 1,793 | 1,843 | 3,237 | 9,334 | 28,950 | 50,886 | 30,100 | 7,364 | 1,108 | 144 | 210 |
| 30-34 years .................... | 12,873 | 13.7 | 94,123 | 430 | 1,380 | 1,445 | 2,524 | 7,094 | 19,351 | 33,604 | 21,245 | 5,756 | 998 | 153 | 143 |
| 35-39 years .................... | 7,245 | 16.1 | 45,069 | 201 | 757 | 806 | 1,520 | 3,961 | 9,450 | 15,263 | 9,733 | 2,706 | 514 | 81 | 77 |
| 40-44 years .................... | 1,563 | 17.4 | 8,981 | 40 | 147 | 177 | 345 | 854 | 1,950 | 2,931 | 1,876 | 522 | 116 | 11 | 12 |
| 45-54 years .................... | 71 | 19.7 | 360 | - | 4 | 9 | 18 | 40 | 84 | 134 | 49 | 18 | 3 | 1 | - |
| Black, non-Hispanic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All ages ......................... | 76,134 | 13.1 | 581,431 | 2,286 | 7,523 | 7,909 | 14,850 | 43,566 | 136,016 | 220,324 | 117,581 | 26,133 | 3,941 | 514 | 788 |
| Under 15 years ................ | 743 | 16.1 | 4,613 | 24 | 72 | 78 | 139 | 430 | 1,307 | 1,785 | 662 | 103 | 7 | 3 | 3 |
| 15-19 years .................... | 16,678 | 13.3 | 125,343 | 417 | 1,461 | 1,586 | 3,193 | 10,021 | 33,934 | 49,669 | 21,130 | 3,370 | 373 | 30 | 159 |
| 15 years ...................... | 1,345 | 14.7 | 9,163 | 38 | 131 | 140 | 231 | 805 | 2,628 | 3,584 | 1,399 | 182 | 13 | 1 | 11 |
| 16 years ...................... | 2,451 | 14.2 | 17,235 | 58 | 205 | 235 | 496 | 1,457 | 4,887 | 6,669 | 2,758 | 401 | 47 | 2 | 20 |
| 17 years.. | 3,526 | 13.6 | 25,940 | 79 | 305 | 369 | 659 | 2,114 | 7,164 | 10,248 | 4,295 | 616 | 60 | 1 | 30 |
| 18 years ...................... | 4,412 | 13.0 | 33,870 | 129 | 381 | 375 | 882 | 2,645 | 8,983 | 13,595 | 5,757 | 946 | 112 | 11 | 54 |
| 19 years ...................... | 4,944 | 12.6 | 39,135 | 113 | 439 | 467 | 925 | 3,000 | 10,272 | 15,573 | 6,921 | 1,225 | 141 | 15 | 44 |
| 20-24 years .................... | 21,174 | 11.9 | 177,494 | 649 | 2,041 | 2,079 | 4,043 | 12,362 | 42,725 | 69,770 | 35,413 | 7,113 | 967 | 105 | 227 |
| 25-29 years .................. | 16,353 | 12.5 | 130,942 | 552 | 1,743 | 1,787 | 3,182 | 9,089 | 28,141 | 49,149 | 28,888 | 7,019 | 1,057 | 139 | 196 |
| 30-34 years .................... | 12,562 | 13.9 | 90,637 | 417 | 1,335 | 1,412 | 2,475 | 6,923 | 18,749 | 32,358 | 20,294 | 5,461 | 936 | 148 | 129 |
| 35-39 years .................... | 7,041 | 16.2 | 43,434 | 189 | 730 | 783 | 1,472 | 3,867 | 9,178 | 14,665 | 9,366 | 2,553 | 489 | 77 | 65 |
| 40-44 years .................... | 1,514 | 17.6 | 8,624 | 38 | 138 | 175 | 328 | 835 | 1,899 | 2,803 | 1,782 | 497 | 109 | 11 | 9 |
| 45-54 years .................... | 69 | 20.1 | 344 | - | 3 | 9 | 18 | 39 | 83 | 125 | 46 | 17 | 3 | 1 | - |
| Hispanic 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All ages ......................... | 45,511 | 6.4 | 709,767 | 734 | 3,137 | 4,177 | 8,566 | 28,897 | 118,520 | 279,074 | 202,811 | 53,773 | 8,550 | 1,039 | 489 |
| Under 15 years ................ | 309 | 10.9 | 2,833 | 5 | 26 | 25 | 69 | 184 | 643 | 1,198 | 592 | 81 | 10 | ${ }^{-}$ | ${ }^{-}$ |
| 15-19 years .................... | 9,324 | 7.9 | 118,122 | 117 | 593 | 819 | 1,624 | 6,171 | 24,783 | 50,118 | 27,945 | 5,249 | 565 | 55 | 83 |
| 15 years ...................... | 741 | 9.5 | 7,778 | 15 | 38 | 86 | 112 | 490 | 1,742 | 3,367 | 1,635 | 257 | 28 | 3 | 5 |
| 16 years ...................... | 1,318 | 8.3 | 15,870 | 18 | 88 | 119 | 247 | 846 | 3,470 | 6,822 | 3,565 | 625 | 53 | 3 | 14 |
| 17 years ...................... | 2,069 | 8.4 | 24,768 | 21 | 136 | 166 | 369 | 1,377 | 5,278 | 10,632 | 5,622 | 1,034 | 109 | 7 | 17 |
| 18 years | 2,431 | 7.7 | 31,542 | 35 | 140 | 212 | 435 | 1,609 | 6,653 | 13,263 | 7,609 | 1,414 | 133 | 15 | 24 |
| 19 years ...................... | 2,765 | 7.2 | 38,164 | 28 | 191 | 236 | 461 | 1,849 | 7,640 | 16,034 | 9,514 | 1,919 | 242 | 27 | 23 |
| 20-24 years ..................... | 12,846 | 5.9 | 216,152 | 176 | 761 | 1,074 | 2,384 | 8,451 | 38,058 | 88,447 | 60,274 | 14,231 | 1,951 | 206 | 139 |
| 25-29 years .................... | 10,448 | 5.5 | 188,669 | 175 | 740 | 948 | 1,978 | 6,607 | 28,288 | 72,911 | 57,914 | 15,999 | 2,671 | 294 | 144 |
| 30-34 years .................... | 7,550 | 6.2 | 121,539 | 157 | 578 | 781 | 1,477 | 4,557 | 17,426 | 44,493 | 37,755 | 11,820 | 2,144 | 266 | 85 |
| 35-39 years .................... | 4,015 | 7.8 | 51,601 | 84 | 353 | 423 | 818 | 2,337 | 7,585 | 18,214 | 15,283 | 5,310 | 976 | 186 | 32 |
| 40-44 years .................... | 964 | 9.3 | 10,405 | 19 | 79 | 100 | 205 | 561 | 1,663 | 3,558 | 2,929 | 1,028 | 230 | 28 | 5 |
| 45-54 years .................... | 55 | 12.4 | 446 | 1 | 7 | 7 | 11 | 29 | 74 | 135 | 119 | 55 | 3 | 4 | 1 |

[^44]Table 46. Number and percent of births of low birthweight by race and Hispanic origin of mother: United States and each State,
Puerto Rico, Virgin Islands, Guam, and American Samoa, 1997
[By place of residence. Low birthweight is birthweight of less than 2,500 grams (5 lb 8 oz )]

| State | Number |  |  |  |  |  | Percent |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | White |  | Black |  | Hispanic ${ }^{2}$ | White |  |  | Black |  | Hispanic ${ }^{2}$ |
|  | $\begin{gathered} \text { All } \\ \text { races 1 } \end{gathered}$ | Total | NonHispanic | Total | NonHispanic |  | $\begin{gathered} \text { All } \\ \text { races } 1 \end{gathered}$ | Total | NonHispanic | Total | NonHispanic |  |
| United States ${ }^{3}$........... | 291,154 | 198,395 | 150,950 | 77,919 | 76,134 | 45,511 | 7.5 | 6.5 | 6.5 | 13.0 | 13.1 | 6.4 |
| Alabama ...................... | 5,627 | 2,986 | 2,912 | 2,592 | 2,586 | 77 | 9.2 | 7.4 | 7.4 | 13.1 | 13.1 | 7.3 |
| Alaska ......................... | 584 | 362 | 322 | 56 | 56 | 43 | 5.9 | 5.5 | 5.3 | 12.3 | 12.6 | 7.1 |
| Arizona ...................... | 5,205 | 4,398 | 2,525 | 340 | 323 | 1,889 | 6.9 | 6.6 | 6.7 | 13.6 | 13.6 | 6.6 |
| Arkansas ................... | 3,044 | 2,014 | 1,915 | 990 | 989 | 100 | 8.4 | 7.2 | 7.2 | 12.7 | 12.7 | 6.5 |
| California ..................... | 32,301 | 23,683 | 9,833 | 4,483 | 4,364 | 13,888 | 6.2 | 5.6 | 5.5 | 12.0 | 12.1 | 5.6 |
| Colorado ...................... | 5,000 | 4,392 | 3,205 | 390 | 376 | 1,209 | 8.8 | 8.5 | 8.3 | 15.1 | 15.1 | 9.1 |
| Connecticut .................. | 3,145 | 2,349 | 1,749 | 658 | 599 | 472 | 7.3 | 6.5 | 6.2 | 12.3 | 12.2 | 8.3 |
| Delaware ..................... | 895 | 520 | 464 | 352 | 348 | 51 | 8.7 | 6.9 | 6.8 | 14.1 | 14.1 | 8.0 |
| District of Columbia ....... | 1,064 | 117 | 73 | 937 | 917 | 43 | 13.4 | 5.9 | 5.7 | 16.1 | 16.2 | 6.2 |
| Florida ........................ | 15,444 | 9,724 | 7,304 | 5,330 | 5,236 | 2,505 | 8.0 | 6.8 | 6.8 | 12.3 | 12.3 | 6.7 |
| Georgia ........................ | 10,390 | 4,967 | 4,541 | 5,162 | 5,132 | 384 | 8.8 | 6.6 | 6.7 | 13.0 | 13.0 | 5.4 |
| Hawaii ......................... | 1,235 | 226 | 189 | 59 | 54 | 156 | 7.2 | 5.1 | 5.1 | 10.2 | 9.9 | 7.4 |
| Idaho ........................ | 1,165 | 1,126 | 936 | 8 | 8 | 174 | 6.3 | 6.3 | 6.1 | * | * | 7.4 |
| Illinois | 14,278 | 8,817 | 6,779 | 4,936 | 4,915 | 2,055 | 7.9 | 6.4 | 6.4 | 13.9 | 14.0 | 6.2 |
| Indiana ........................ | 6,417 | 5,155 | 4,899 | 1,189 | 1,186 | 237 | 7.7 | 7.0 | 7.0 | 13.6 | 13.6 | 7.0 |
| Iowa ............................ | 2,336 | 2,143 | 2,008 | 114 | 107 | 105 | 6.4 | 6.2 | 6.1 | 10.4 | 10.2 | 6.6 |
| Kansas | 2,580 | 2,126 | 1,894 | 361 | 359 | 210 | 6.9 | 6.4 | 6.4 | 12.9 | 13.0 | 5.9 |
| Kentucky | 4,156 | 3,541 | 3,499 | 558 | 552 | 52 | 7.8 | 7.4 | 7.4 | 12.0 | 12.0 | 7.2 |
| Louisiana ..................... | 6,704 | 2,637 | 2,571 | 3,950 | 3,948 | 70 | 10.2 | 7.0 | 7.1 | 14.6 | 14.6 | 5.5 |
| Maine .......................... | 812 | 789 | 765 | 13 | 11 | 4 | 5.9 | 5.9 | 6.0 | * | * |  |
| Maryland ...................... | 6,142 | 2,832 | 2,606 | 3,109 | 3,067 | 216 | 8.8 | 6.4 | 6.4 | 13.6 | 13.6 | 6.6 |
| Massachusetts ............. | 5,584 | 4,500 | 3,907 | 808 | 679 | 683 | 7.0 | 6.6 | 6.4 | 10.6 | 11.0 | 8.3 |
| Michigan ...................... | 10,282 | 6,825 | 5,961 | 3,191 | 3,135 | 366 | 7.7 | 6.5 | 6.4 | 13.2 | 13.1 | 6.7 |
| Minnesota .................... | 3,782 | 3,143 | 2,874 | 369 | 365 | 179 | 5.9 | 5.5 | 5.6 | 11.1 | 11.1 | 6.8 |
| Mississippi ................... | 4,191 | 1,619 | 1,599 | 2,539 | 2,538 | 20 | 10.1 | 7.4 | 7.4 | 13.4 | 13.4 | 6.1 |
| Missouri ....................... | 5,703 | 4,102 | 3,995 | 1,488 | 1,484 | 108 | 7.7 | 6.7 | 6.7 | 13.5 | 13.5 | 6.1 |
| Montana ...................... | 684 | 578 | 526 | 2 |  | 23 | 6.3 | 6.1 | 6.0 | * | * | 7.6 |
| Nebraska ..................... | 1,633 | 1,422 | 1,281 | 146 | 144 | 103 | 7.0 | 6.7 | 6.8 | 11.7 | 11.7 | 5.2 |
| Nevada ....................... | 2,055 | 1,608 | 1,117 | 292 | 287 | 482 | 7.6 | 7.0 | 7.4 | 13.7 | 13.9 | 6.3 |
| New Hampshire ............ | 833 | 819 | 768 | 3 | 3 | 20 | 5.8 | 5.9 | 5.8 | * |  | 8.8 |
| New Jersey ................... | 8,888 | 5,462 | 4,089 | 2,875 | 2,745 | 1,449 | 7.9 | 6.5 | 6.2 | 13.7 | 14.3 | 7.4 |
| New Mexico .................. | 2,083 | 1,769 | 737 | 78 | 75 | 1,045 | 7.8 | 7.8 | 7.7 | 15.4 | 15.8 | 7.9 |
| New York ..................... | 20,111 | 12,333 | 7,293 | 6,495 | 5,791 | 3,875 | 7.8 | 6.7 | 6.2 | 11.8 | 12.3 | 7.6 |
| North Carolina .............. | 9,447 | 5,395 | 4,986 | 3,743 | 3,732 | 421 | 8.8 | 7.1 | 7.2 | 13.6 | 13.6 | 6.1 |
| North Dakota ................ | 516 | 459 | 443 | 6 | 6 | 11 | 6.2 | 6.2 | 6.2 | * | * |  |
| Ohio ............................ | 11,717 | 8,495 | 8,217 | 3,065 | 2,986 | 258 | 7.7 | 6.7 | 6.7 | 13.6 | 13.5 | 7.5 |
| Oklahoma .................... | 3,482 | 2,561 | 2,377 | 577 | 572 | 182 | 7.3 | 6.8 | 6.9 | 12.3 | 12.3 | 5.7 |
| Oregon ........................ | 2,406 | 2,121 | 1,811 | 103 | 99 | 317 | 5.5 | 5.3 | 5.3 | 11.0 | 10.8 | 5.4 |
| Pennsylvania ................ | 10,920 | 7,812 | 7,204 | 2,840 | 2,771 | 606 | 7.6 | 6.5 | 6.4 | 13.9 | 13.9 | 9.2 |
| Rhode Island ................ | 919 | 748 | 497 | 112 | 79 | 138 | 7.4 | 6.9 | 6.4 | 11.9 | 10.2 | 7.8 |
| South Carolina .............. | 4,789 | 2,240 | 2,179 | 2,490 | 2,489 | 66 | 9.2 | 6.8 | 6.8 | 13.5 | 13.5 | 5.9 |
| South Dakota ................ | 563 | 472 | 465 | 9 | 9 | 7 | 5.5 | 5.6 | 5.6 |  |  |  |
| Tennessee ................... | 6,534 | 4,212 | 4,104 | 2,234 | 2,232 | 108 | 8.8 | 7.4 | 7.4 | 13.7 | 13.7 | 6.3 |
| Texas .......................... | 24,250 | 18,578 | 8,878 | 4,908 | 4,860 | 9,683 | 7.3 | 6.5 | 6.5 | 12.4 | 12.5 | 6.6 |
| Utah ............................ | 2,833 | 2,649 | 2,326 | 36 | 35 | 317 | 6.6 | 6.5 | 6.4 | 13.8 | 14.5 | 7.4 |
| Vermont ....................... | 413 | 409 | 382 | 2 | 2 | - | 6.3 | 6.3 | 6.1 |  |  |  |
| Virginia ........................ | 7,085 | 4,158 | 3,820 | 2,642 | 2,634 | 341 | 7.7 | 6.2 | 6.2 | 12.6 | 12.6 | 6.3 |
| Washington .................. | 4,377 | 3,600 | 2,979 | 324 | 303 | 500 | 5.6 | 5.3 | 5.3 | 10.2 | 10.2 | 5.4 |
| West Virginia ................ | 1,717 | 1,613 | 1,609 | 95 | 95 | 6 | 8.3 | 8.1 | 8.1 | 12.8 | 12.8 | * |
| Wisconsin .................... | 4,261 | 3,242 | 3,038 | 853 | 845 | 214 | 6.4 | 5.6 | 5.6 | 13.3 | 13.3 | 6.7 |
| Wyoming ..................... | 572 | 547 | 499 | 7 | 6 | 43 | 9.0 | 9.0 | 9.0 |  |  | 8.0 |
| Puerto Rico .................. | 6,830 | 6,360 | --- | 467 | --- | --- | 10.7 | 10.7 | --- | 9.8 | --- | --- |
| Virgin Islands ................ | 164 | 14 | 1 | 148 | 133 | 22 | 8.1 | * | * | 9.3 | 9.5 | 5.9 |
| Guam | 306 | 21 | 18 | 3 | 3 | 3 | 7.1 | 5.0 | * | * |  | * |
| American Samoa ........... | 53 | 1 | --- | --- | --- | --- | 3.2 | --- | --- | --- | --- | - |

[^45]Table 47. Number and percent of births of very low birthweight by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, Guam, and American Samoa, 1997
[By place of residence. Very low birthweight is birthweight of less than 1,500 grams (3 lb 4 oz )]

| State | Number |  |  |  |  |  | Percent |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | White |  | Black |  | Hispanic ${ }^{2}$ | $\begin{aligned} & \text { All } \\ & \text { races } 1 \end{aligned}$ | White |  | Black |  | Hispanic ${ }^{2}$ |
|  | $\begin{gathered} \text { All } \\ \text { races 1 } \end{gathered}$ | Total | NonHispanic | Total | NonHispanic |  |  | Total | Non- <br> Hispanic | Total | NonHispanic |  |
| United States ${ }^{3}$............. | 54,973 | 34,552 | 26,089 | 18,184 | 17,718 | 8,048 | 1.4 | 1.1 | 1.1 | 3.0 | 3.1 | 1.1 |
| Alabama ...................... | 1,135 | 501 | 494 | 627 | 625 | 9 | 1.9 | 1.2 | 1.3 | 3.2 | 3.2 | * |
| Alaska ......................... | 120 | 71 | 60 | 11 | 11 | 13 | 1.2 | 1.1 | 1.0 | * | * | * |
| Arizona ....................... | 868 | 733 | 423 | 64 | 62 | 310 | 1.1 | 1.1 | 1.1 | 2.6 | 2.6 | 1.1 |
| Arkansas ..................... | 539 | 321 | 304 | 209 | 209 | 17 | 1.5 | 1.1 | 1.1 | 2.7 | 2.7 | * |
| California ..................... | 5,863 | 4,229 | 1,725 | 1,024 | 994 | 2,514 | 1.1 | 1.0 | 1.0 | 2.7 | 2.8 | 1.0 |
| Colorado ...................... | 756 | 660 | 492 | 70 | 65 | 168 | 1.3 | 1.3 | 1.3 | 2.7 | 2.6 | 1.3 |
| Connecticut .................. | 659 | 445 | 334 | 184 | 163 | 89 | 1.5 | 1.2 | 1.2 | 3.4 | 3.3 | 1.6 |
| Delaware ..................... | 189 | 93 | 81 | 93 | 93 | 10 | 1.8 | 1.2 | 1.2 | 3.7 | 3.8 |  |
| District of Columbia ....... | 273 | 29 | 13 | 241 | 232 | 16 | 3.4 | 1.5 |  | 4.2 | 4.1 | * |
| Florida ........................ | 2,931 | 1,694 | 1,260 | 1,192 | 1,165 | 448 | 1.5 | 1.2 | 1.2 | 2.7 | 2.7 | 1.2 |
| Georgia ........................ | 2,127 | 879 | 809 | 1,210 | 1,202 | 66 | 1.8 | 1.2 | 1.2 | 3.0 | 3.1 | 0.9 |
| Hawaii ......................... | 186 | 31 | 27 | 13 | 13 | 18 | 1.1 | 0.7 | 0.7 | * | * |  |
| Idaho .......................... | 157 | 154 | 120 | 1 | 1 | 30 | 0.8 | 0.9 | 0.8 | * | * | 1.3 |
| Illinois ......................... | 2,846 | 1,663 | 1,271 | 1,098 | 1,088 | 396 | 1.6 | 1.2 | 1.2 | 3.1 | 3.1 | 1.2 |
| Indiana ......................... | 1,117 | 861 | 812 | 244 | 244 | 46 | 1.3 | 1.2 | 1.2 | 2.8 | 2.8 | 1.4 |
| Iowa | 459 | 415 | 388 | 26 | 24 | 20 | 1.3 | 1.2 | 1.2 | 2.4 | 2.3 | 1.2 |
| Kansas | 436 | 351 | 311 | 74 | 74 | 38 | 1.2 | 1.1 | 1.1 | 2.6 | 2.7 | 1.1 |
| Kentucky ...................... | 739 | 600 | 589 | 133 | 132 | 13 | 1.4 | 1.3 | 1.2 | 2.9 | 2.9 |  |
| Louisiana ..................... | 1,342 | 427 | 416 | 901 | 900 | 11 | 2.0 | 1.1 | 1.1 | 3.3 | 3.3 |  |
| Maine .......................... | 135 | 129 | 124 | 3 | 3 | - | 1.0 | 1.0 | 1.0 | * | * | * |
| Maryland ...................... | 1,367 | 503 | 469 | 827 | 817 | 33 | 1.9 | 1.1 | 1.1 | 3.6 | 3.6 | 1.0 |
| Massachusetts ............. | 1,078 | 841 | 713 | 206 | 179 | 138 | 1.3 | 1.2 | 1.2 | 2.7 | 2.9 | 1.7 |
| Michigan ...................... | 2,033 | 1,215 | 1,059 | 775 | 755 | 64 | 1.5 | 1.2 | 1.1 | 3.2 | 3.2 | 1.2 |
| Minnesota .................... | 703 | 557 | 517 | 92 | 91 | 33 | 1.1 | 1.0 | 1.0 | 2.8 | 2.8 | 1.3 |
| Mississippi ................... | 828 | 291 | 287 | 530 | 530 | 4 | 2.0 | 1.3 | 1.3 | 2.8 | 2.8 |  |
| Missouri ....................... | 1,005 | 675 | 652 | 312 | 312 | 23 | 1.4 | 1.1 | 1.1 | 2.8 | 2.8 | 1.3 |
| Montana ...................... | 109 | 92 | 85 | - | - | 2 | 1.0 | 1.0 | 1.0 | * | * |  |
| Nebraska ..................... | 297 | 260 | 239 | 29 | 29 | 18 | 1.3 | 1.2 | 1.3 | 2.3 | 2.3 | * |
| Nevada ....................... | 323 | 245 | 160 | 54 | 52 | 85 | 1.2 | 1.1 | 1.1 | 2.5 | 2.5 | 1.1 |
| New Hampshire ............ | 162 | 158 | 147 | 2 | 2 | 5 | 1.1 | 1.1 | 1.1 | * | * |  |
| New Jersey ................... | 1,845 | 1,028 | 749 | 754 | 722 | 292 | 1.6 | 1.2 | 1.1 | 3.6 | 3.7 | 1.5 |
| New Mexico ................. | 265 | 228 | 105 | 11 | 11 | 123 | 1.0 | 1.0 | 1.1 | * | * | 0.9 |
| New York ..................... | 3,965 | 2,166 | 1,200 | 1,598 | 1,419 | 724 | 1.5 | 1.2 | 1.0 | 2.9 | 3.0 | 1.4 |
| North Carolina .............. | 2,027 | 1,022 | 959 | 938 | 935 | 66 | 1.9 | 1.3 | 1.4 | 3.4 | 3.4 | 1.0 |
| North Dakota ................ | 94 | 87 | 85 | 2 | 2 | 2 | 1.1 | 1.2 | 1.2 | * | * | * |
| Ohio ............................ | 2,174 | 1,472 | 1,423 | 680 | 657 | 43 | 1.4 | 1.2 | 1.2 | 3.0 | 3.0 | 1.3 |
| Oklahoma .................... | 591 | 414 | 382 | 129 | 128 | 32 | 1.2 | 1.1 | 1.1 | 2.7 | 2.8 | 1.0 |
| Oregon | 384 | 334 | 291 | 21 | 21 | 42 | 0.9 | 0.8 | 0.8 | 2.2 | 2.3 | 0.7 |
| Pennsylvania ................ | 2,083 | 1,381 | 1,258 | 663 | 645 | 119 | 1.4 | 1.1 | 1.1 | 3.3 | 3.2 | 1.8 |
| Rhode Island ................ | 186 | 149 | 93 | 27 | 16 | 29 | 1.5 | 1.4 | 1.2 | 2.9 | * | 1.6 |
| South Carolina .............. | 981 | 397 | 387 | 575 | 575 | 9 | 1.9 | 1.2 | 1.2 | 3.1 | 3.1 | * |
| South Dakota ................ | 108 | 84 | 83 | 4 | 4 | - | 1.1 | 1.0 | 1.0 | * | * | * |
| Tennessee ................... | 1,199 | 687 | 668 | 499 | 498 | 20 | 1.6 | 1.2 | 1.2 | 3.1 | 3.1 | 1.2 |
| Texas .......................... | 4,439 | 3,173 | 1,526 | 1,165 | 1,158 | 1,643 | 1.3 | 1.1 | 1.1 | 3.0 | 3.0 | 1.1 |
| Utah ............................ | 435 | 405 | 342 | 7 | 7 | 60 | 1.0 | 1.0 | 0.9 | * | * | 1.4 |
| Vermont ....................... | 62 | 62 | 57 | - | - | - | 0.9 | 1.0 | 0.9 | * | * | * |
| Virginia ....................... | 1,424 | 779 | 709 | 597 | 592 | 72 | 1.6 | 1.2 | 1.2 | 2.8 | 2.8 | 1.3 |
| Washington ................. | 756 | 629 | 505 | 66 | 61 | 88 | 1.0 | 0.9 | 0.9 | 2.1 | 2.1 | 0.9 |
| West Virginia ................ | 307 | 287 | 286 | 18 | 18 | 1 | 1.5 | 1.4 | 1.4 | * | * | * |
| Wisconsin .................... | 789 | 572 | 538 | 183 | 180 | 38 | 1.2 | 1.0 | 1.0 | 2.9 | 2.8 | 1.2 |
| Wyoming ..................... | 77 | 73 | 62 | 2 | 2 | 8 | 1.2 | 1.2 | 1.1 | * | * | * |
| Puerto Rico ................... | 848 | 798 | --- | 50 | --- | -- | 1.3 | 1.3 | --- | 1.1 | --- | --- |
| Virgin Islands ................ | 41 | 4 | - | 36 | 32 | 6 | 2.0 | * | * | 2.3 | 2.3 | * |
| Guam .......................... | 34 | 2 | 1 | 2 | 2 | 1 | 0.8 | * | * | * | * | * |
| American Samoa .......... | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | - | --- |

[^46]Table 48. Live births with selected abnormal conditions of the newborn and rates by age of mother, by race of mother: United States, 1997
[Rates are number of live births with specified abnormal condition per 1,000 live births in specified group]

| Abnormal condition and race of mother | $\begin{gathered} \text { All } \\ \text { births }{ }^{1} \end{gathered}$ | Abnormal condition reported | Age of mother |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All ages | Under 20 years | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $40-54$ years |  |
| All races ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Anemia | 3,880,894 | 4,209 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.4 | 82,248 |
| Birth injury ${ }^{3}$ | 3,523,601 | 10,604 | 3.1 | 3.1 | 3.1 | 3.2 | 3.0 | 2.9 | 2.8 | 86,017 |
| Fetal alcohol syndrome ${ }^{4}$ | 3,814,337 | 288 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | 83,320 |
| Hyaline membrane disease/RDS ........................... | 3,880,894 | 24,456 | 6.4 | 7.5 | 6.6 | 6.0 | 6.1 | 6.4 | 7.0 | 82,248 |
| Meconium aspiration syndrome ............................ | 3,880,894 | 8,638 | 2.3 | 2.5 | 2.3 | 2.2 | 2.2 | 2.4 | 2.6 | 82,248 |
| Assisted ventilation less than 30 minutes 5 .............. | 3,761,991 | 78,867 | 21.5 | 21.9 | 20.5 | 21.3 | 21.8 | 23.0 | 23.2 | 90,726 |
| Assisted ventilation 30 minutes or longer ${ }^{5}$.............. | 3,761,991 | 33,275 | 9.1 | 10.6 | 9.1 | 8.4 | 8.5 | 9.7 | 11.0 | 90,726 |
| Seizures | 3,880,894 | 2,253 | 0.6 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 82,248 |
| White |  |  |  |  |  |  |  |  |  |  |
| Anemia | 3,072,640 | 3,058 | 1.0 | 1.0 | 0.9 | 1.0 | 1.0 | 1.2 | 1.3 | 60,739 |
| Birth injury ${ }^{3}$ | 2,767,011 | 9,088 | 3.4 | 3.6 | 3.4 | 3.5 | 3.2 | 3.1 | 2.9 | 63,896 |
| Fetal alcohol syndrome ${ }^{4}$..................................... | 3,015,240 | 156 | 0.1 | * | 0.0 | 0.0 | 0.1 | 0.1 | * | 61,765 |
| Hyaline membrane disease/RDS ........................... | 3,072,640 | 19,506 | 6.5 | 7.7 | 6.7 | 6.1 | 6.2 | 6.5 | 6.8 | 60,739 |
| Meconium aspiration syndrome ............................ | 3,072,640 | 6,396 | 2.1 | 2.2 | 2.2 | 2.1 | 2.0 | 2.2 | 2.5 | 60,739 |
| Assisted ventilation less than 30 minutes 5 .............. | 3,007,467 | 63,454 | 21.6 | 21.8 | 20.2 | 21.4 | 22.0 | 23.5 | 23.1 | 68,011 |
| Assisted ventilation 30 minutes or longer ${ }^{5}$.............. | 3,007,467 | 25,580 | 8.7 | 10.3 | 8.7 | 8.1 | 8.2 | 9.5 | 10.4 | 68,011 |
| Seizures .......................................................... | 3,072,640 | 1,785 | 0.6 | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 60,739 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Anemia | 599,913 | 931 | 1.6 | 1.6 | 1.4 | 1.6 | 1.8 | 1.7 | * | 12,908 |
| Birth injury ${ }^{3}$ | 559,176 | 878 | 1.6 | 1.7 | 1.6 | 1.5 | 1.5 | 1.4 | * | 13,290 |
| Fetal alcohol syndrome ${ }^{4}$ | 593,499 | 60 | 0.1 | * | * | * | * | * | * | 12,937 |
| Hyaline membrane disease/RDS .......................... | 599,913 | 4,157 | 7.1 | 7.3 | 6.7 | 7.0 | 7.4 | 7.2 | 9.1 | 12,908 |
| Meconium aspiration syndrome ............................ | 599,913 | 1,860 | 3.2 | 3.0 | 2.8 | 3.2 | 3.8 | 3.7 | 3.6 | 12,908 |
| Assisted ventilation less than 30 minutes ${ }^{5}$.............. | 559,264 | 12,045 | 22.1 | 22.1 | 21.6 | 21.6 | 23.1 | 23.0 | 25.2 | 13,662 |
| Assisted ventilation 30 minutes or longer ${ }^{5}$.............. | 559,264 | 6,434 | 11.8 | 11.5 | 11.1 | 11.8 | 12.8 | 13.0 | 16.0 | 13,662 |
| Seizures ........................................................... | 599,913 | 379 | 0.6 | 0.7 | 0.6 | 0.5 | 0.7 | 0.7 | * | 12,908 |

* Figure does not meet standards of reliability or precision.
0.0 Quantity more than zero but less than 0.05 .

Total number of births to residents of areas reporting specified condition.
2 Includes races other than white and black.
3 Nebraska 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, 1997
[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

| Congenital anomaly and race of mother | $\underset{\text { births }{ }^{1}}{\text { All }}$ | Congenital anomaly reported | Age of mother |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All ages | Under 20 years | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-54 years |  |


| All races ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anencephalus | 3,854,023 | 491 | 12.9 | 13.9 | 12.7 | 11.8 | 14.1 | 12.5 |  | 59,264 |
| Spina bifida/Meningocele | 3,854,023 | 921 | 24.3 | 25.6 | 27.6 | 23.4 | 21.1 | 23.7 | 27.0 | 59,264 |
| Hydrocephalus | 3,854,023 | 993 | 26.2 | 28.1 | 28.4 | 24.6 | 25.2 | 22.7 | 38.6 | 59,264 |
| Microcephalus | 3,854,023 | 255 | 6.7 | 9.1 | 7.0 | 6.1 | 5.9 | 6.5 | * | 59,264 |
| Other central nervous system anomalies ............... | 3,854,023 | 775 | 20.4 | 25.6 | 20.2 | 17.6 | 18.9 | 24.2 | 27.0 | 59,264 |
| Heart malformations | 3,854,023 | 4,423 | 116.6 | 110.3 | 104.0 | 116.4 | 119.4 | 132.5 | 191.6 | 59,264 |
| Other circulatory/respiratory anomalies ................. | 3,854,023 | 5,282 | 139.2 | 139.8 | 134.8 | 133.4 | 137.0 | 161.2 | 177.5 | 59,264 |
| Rectal atresia/stenosis | 3,854,023 | 340 | 9.0 | 9.6 | 9.0 | 9.6 | 8.3 | 6.7 | * | 59,264 |
| Tracheo-esophageal fistula/Esophageal atresia ..... | 3,854,023 | 566 | 14.9 | 16.6 | 13.9 | 13.3 | 13.9 | 19.0 | 28.3 | 59,264 |
| Omphalocele/Gastroschisis | 3,854,023 | 1,067 | 28.1 | 63.6 | 34.2 | 20.3 | 16.4 | 18.0 | * | 59,264 |
| Other gastrointestinal anomalies .......................... | 3,854,023 | 1,174 | 30.9 | 37.8 | 30.9 | 27.9 | 28.8 | 30.9 | 54.0 | 59,264 |
| Malformed genitalia | 3,854,023 | 2,956 | 77.9 | 80.4 | 73.5 | 79.4 | 79.7 | 77.1 | 78.4 | 59,264 |
| Renal agenesis | 3,854,023 | 535 | 14.1 | 16.8 | 13.6 | 14.1 | 12.8 | 14.0 | * | 59,264 |
| Other urogenital anomalies ................................. | 3,854,023 | 4,228 | 111.4 | 97.0 | 107.0 | 115.5 | 113.6 | 119.0 | 133.7 | 59,264 |
| Cleft lip/palate | 3,854,023 | 3,166 | 83.4 | 85.4 | 87.2 | 79.1 | 77.2 | 92.1 | 110.6 | 59,264 |
| Polydactyly/Syndactyly/Adactyly | 3,854,023 | 3,261 | 85.9 | 121.1 | 92.6 | 77.3 | 74.8 | 75.4 | 84.9 | 59,264 |
| Clubfoot | 3,854,023 | 2,261 | 59.6 | 65.9 | 63.9 | 58.8 | 55.5 | 51.7 | 65.6 | 59,264 |
| Diaphragmatic hernia | 3,854,023 | 451 | 11.9 | 12.9 | 12.9 | 11.6 | 10.3 | 12.5 | * | 59,264 |
| Other musculoskeletal/integumental anomalies ...... | 3,854,023 | 7,874 | 207.5 | 217.1 | 205.4 | 200.9 | 209.3 | 211.4 | 221.2 | 59,264 |
| Down's syndrome | 3,854,023 | 1,662 | 43.8 | 22.4 | 25.2 | 25.4 | 46.2 | 98.1 | 336.9 | 59,264 |
| Other chromosomal anomalies | 3,854,023 | 1,458 | 38.4 | 32.4 | 35.8 | 28.7 | 34.0 | 66.1 | 145.3 | 59,264 |
| White |  |  |  |  |  |  |  |  |  |  |
| Anencephalus | 3,049,910 | 383 | 12.7 | 15.3 | 12.2 | 11.4 | 13.6 | 11.8 | * | 43,850 |
| Spina bifida/Meningocele | 3,049,910 | 784 | 26.1 | 30.8 | 31.4 | 24.2 | 21.9 | 23.6 | * | 43,850 |
| Hydrocephalus. | 3,049,910 | 813 | 27.0 | 28.4 | 29.3 | 26.4 | 24.8 | 25.1 | 39.8 | 43,850 |
| Microcephalus .................................................. | 3,049,910 | 196 | 6.5 | 9.6 | 7.0 | 6.3 | 5.0 | 6.7 |  | 43,850 |
| Other central nervous system anomalies ............... | 3,049,910 | 625 | 20.8 | 28.1 | 20.3 | 18.0 | 19.7 | 22.7 | * | 43,850 |
| Heart malformations | 3,049,910 | 3,612 | 120.2 | 113.6 | 107.7 | 120.4 | 122.5 | 131.7 | 203.9 | 43,850 |
| Other circulatory/respiratory anomalies ................. | 3,049,910 | 4,300 | 143.0 | 154.6 | 139.5 | 133.5 | 139.0 | 164.4 | 184.8 | 43,850 |
| Rectal atresia/stenosis | 3,049,910 | 277 | 9.2 | 9.3 | 9.2 | 10.2 | 8.3 | 7.0 | * | 43,850 |
| Tracheo-esophageal fistula/Esophageal atresia ..... | 3,049,910 | 478 | 15.9 | 19.1 | 14.9 | 14.4 | 14.6 | 19.1 |  | 43,850 |
| Omphalocele/Gastroschisis | 3,049,910 | 809 | 26.9 | 69.4 | 33.8 | 18.6 | 15.4 | 17.0 | * | 43,850 |
| Other gastrointestinal anomalies .......................... | 3,049,910 | 924 | 30.7 | 37.7 | 30.0 | 28.6 | 28.6 | 31.2 | 54.2 | 43,850 |
| Malformed genitalia | 3,049,910 | 2,491 | 82.9 | 85.8 | 81.7 | 84.4 | 82.6 | 78.1 | 87.6 | 43,850 |
| Renal agenesis | 3,049,910 | 441 | 14.7 | 17.6 | 14.1 | 14.5 | 13.3 | 15.4 | * | 43,850 |
| Other urogenital anomalies ................................. | 3,049,910 | 3,675 | 122.3 | 114.2 | 118.7 | 123.7 | 122.8 | 128.1 | 148.2 | 43,850 |
| Cleft lip/palate | 3,049,910 | 2,739 | 91.1 | 102.6 | 96.6 | 85.7 | 82.0 | 97.5 | 113.1 | 43,850 |
| Polydactyly/Syndactyly/Adactyly | 3,049,910 | 1,814 | 60.3 | 77.8 | 58.8 | 58.4 | 56.2 | 58.1 | 70.1 | 43,850 |
| Clubfoot | 3,049,910 | 1,952 | 64.9 | 77.8 | 68.7 | 64.2 | 59.5 | 56.0 | 73.3 | 43,850 |
| Diaphragmatic hernia | 3,049,910 | 370 | 12.3 | 14.4 | 13.6 | 11.6 | 10.1 | 13.6 | * | 43,850 |
| Other musculoskeletal/integumental anomalies ...... | 3,049,910 | 5,959 | 198.2 | 214.4 | 196.2 | 192.1 | 195.8 | 204.7 | 213.5 | 43,850 |
| Down's syndrome ............................................. | 3,049,910 | 1,450 | 48.2 | 23.9 | 28.4 | 27.6 | 49.8 | 105.4 | 361.7 | 43,850 |
| Other chromosomal anomalies | 3,049,910 | 1,232 | 41.0 | 35.3 | 39.1 | 29.3 | 35.2 | 70.5 | 162.5 | 43,850 |

See footnotes at end of table.

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, 1997 --Con.
[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

| Congenital anomaly and race of mother | $\underset{\text { births }}{ }{ }^{\text {All }}$ | Congenital anomaly reported | Age of mother |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All ages | Under 20 years | 20-24 years | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-54 \\ & \text { years } \end{aligned}$ |  |
| Black |  |  |  |  |  |  |  |  |  |  |
| Anencephalus | 599,407 | 75 | 12.7 | * | 14.4 | * | * | * | * | 7,927 |
| Spina bifida/Meningocele .................................... | 599,407 | 117 | 19.8 | * | 16.7 | 22.5 | 22.6 | * | * | 7,927 |
| Hydrocephalus | 599,407 | 146 | 24.7 | 25.9 | 24.4 | 18.0 | 35.6 | * | * | 7,927 |
| Microcephalus | 599,407 | 50 | 8.5 | * | * | * | * | * | * | 7,927 |
| Other central nervous system anomalies ............... | 599,407 | 116 | 19.6 | 20.5 | 19.4 | 17.2 | * | * | * | 7,927 |
| Heart malformations | 599,407 | 590 | 99.7 | 101.9 | 87.8 | 92.8 | 108.9 | 135.0 | * | 7,927 |
| Other circulatory/respiratory anomalies ................. | 599,407 | 632 | 106.9 | 91.3 | 100.0 | 125.8 | 106.7 | 130.5 | * | 7,927 |
| Rectal atresia/stenosis ...................................... | 599,407 | 49 | 8.3 | * | ${ }^{*}$ | * | * | * | * | 7,927 |
| Tracheo-esophageal fistula/Esophageal atresia ..... | 599,407 | 69 | 11.7 | * | 11.7 | * | * | * | * | 7,927 |
| Omphalocele/Gastroschisis ................................. | 599,407 | 213 | 36.0 | 45.6 | 37.2 | 31.4 | 26.9 | * | * | 7,927 |
| Other gastrointestinal anomalies ................................................ | 599,407 | 199 | 33.6 | 38.8 | 33.9 | 25.5 | 33.4 | * | * | 7,927 |
| Malformed genitalia ............................................ | 599,407 | 330 | 55.8 | 63.9 | 45.0 | 50.9 | 70.1 | 63.0 | * | 7,927 |
| Renal agenesis ................................................. | 599,407 | 75 | 12.7 | * | 12.2 | * | * | * | * | 7,927 |
| Other urogenital anomalies ................................. | 599,407 | 375 | 63.4 | 54.8 | 63.9 | 70.4 | 59.3 | 67.5 | * | 7,927 |
| Cleft lip/palate ................................................... | 599,407 | 260 | 44.0 | 38.8 | 49.4 | 43.4 | 33.4 | 58.5 | * | 7,927 |
| Polydactyly/Syndactyly/Adactyly .......................... | 599,407 | 1,337 | 226.0 | 233.5 | 232.7 | 200.7 | 240.4 | 222.8 | 228.1 | 7,927 |
| Clubfoot .......................................................... | 599,407 | 227 | 38.4 | 34.2 | 45.0 | 32.9 | 38.8 | * |  | 7,927 |
| Diaphragmatic hernia ........................................ | 599,407 | 61 | 10.3 | * | * | * 7 | * | * | * | 7,927 |
| Other musculoskeletal/integumental anomalies ...... | 599,407 | 1,133 | 191.6 | 187.9 | 188.3 | 182.7 | 221.0 | 189.1 | * | 7,927 |
| Down's syndrome ............................................. | 599,407 | 150 | 25.4 | 19.8 | 13.9 | 15.0 | 31.3 | 67.5 | 217.2 | 7,927 |
| Other chromosomal anomalies ............................ | 599,407 | 149 | 25.2 | 21.3 | 23.3 | 22.5 | 28.0 | * | * | 7,927 |

* Figure does not meet standards of reliability or precision.

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, 1997

| Plurality and race and Hispanic origin of mother | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 15 years | 15-19 years |  |  | 20-24 years | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-44 years | 45-54 years |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $18-19$ years |  |  |  |  |  |  |
|  | Number |  |  |  |  |  |  |  |  |  |  |
| All live births |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{1}$ | 3,880,894 | 10,121 | 483,220 | 180,154 | 303,066 | 942,048 | 1,069,436 | 886,798 | 409,710 | 76,084 | 3,477 |
| White, total | 3,072,640 | 5,021 | 338,272 | 120,165 | 218,107 | 720,546 | 871,636 | 735,571 | 337,423 | 61,417 | 2,754 |
| White, non-Hispanic | 2,333,363 | 2,240 | 219,857 | 71,868 | 147,989 | 500,928 | 674,498 | 603,304 | 280,393 | 49,908 | 2,235 |
| Black, total | 599,913 | 4,712 | 128,539 | 53,634 | 74,905 | 182,600 | 135,529 | 94,123 | 45,069 | 8,981 | 360 |
| Black, non-Hispanic | 581,431 | 4,613 | 125,343 | 52,338 | 73,005 | 177,494 | 130,942 | 90,637 | 43,434 | 8,624 | 344 |
| Hispanic ${ }^{2}$........ | 709,767 | 2,833 | 118,122 | 48,416 | 69,706 | 216,152 | 188,669 | 121,539 | 51,601 | 10,405 | 446 |
| Live births in single deliveries |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{1}$ | 3,770,020 | 10,004 | 475,820 | 177,779 | 298,041 | 922,419 | 1,039,738 | 854,289 | 391,945 | 72,905 | 2,900 |
| White, total | 2,984,532 | 4,972 | 333,583 | 118,722 | 214,861 | 706,805 | 848,041 | 708,017 | 322,208 | 58,676 | 2,230 |
| White, non-Hispanic | 2,260,786 | 2,213 | 216,836 | 71,037 | 145,799 | 490,829 | 655,167 | 579,405 | 267,068 | 47,514 | 1,754 |
| Black, total ............ | 581,394 | 4,653 | 125,975 | 52,752 | 73,223 | 177,402 | 130,633 | 90,397 | 43,290 | 8,704 | 340 |
| Black, non-Hispanic | 563,436 | 4,556 | 122,835 | 51,473 | 71,362 | 172,444 | 126,187 | 87,019 | 41,711 | 8,360 | 324 |
| Hispanic ${ }^{2}$............... | 695,430 | 2,811 | 116,463 | 47,796 | 68,667 | 212,603 | 184,687 | 118,339 | 49,995 | 10,115 | 417 |
| Live births in twin deliveries |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{1}$ | 104,137 | 117 | 7,298 | 2,330 | 4,968 | 19,188 | 28,083 | 29,905 | 16,113 | 2,939 | 494 |
| White, total | 82,090 | 49 | 4,626 | 1,422 | 3,204 | 13,401 | 22,161 | 25,128 | 13,755 | 2,529 | 441 |
| White, non-Hispanic | 67,191 | 27 | 2,988 | 822 | 2,166 | 9,844 | 18,063 | 21,683 | 11,982 | 2,200 | 404 |
| Black, total | 17,989 | 59 | 2,525 | 858 | 1,667 | 5,111 | 4,754 | 3,594 | 1,663 | 263 | 20 |
| Black, non-Hispanic | 17,472 | 57 | 2,469 | 841 | 1,628 | 4,964 | 4,616 | 3,489 | 1,607 | 250 | 20 |
| Hispanic 2 ............... | 13,821 | 22 | 1,629 | 608 | 1,021 | 3,471 | 3,840 | 3,038 | 1,521 | 277 | 23 |
| Live births in higher-order multiple deliveries ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{1}$ | 6,737 | - | 102 | 45 | 57 | 441 | 1,615 | 2,604 | 1,652 | 240 | 83 |
| White, total | 6,018 | - | 63 | 21 | 42 | 340 | 1,434 | 2,426 | 1,460 | 212 | 83 |
| White, non-Hispanic | 5,386 |  | 33 | 9 | 24 | 255 | 1,268 | 2,216 | 1,343 | 194 | 77 |
| Black, total | 530 |  | 39 | 24 | 15 | 87 | 142 | 132 | 116 | 14 |  |
| Black, non-Hispanic | 523 | - | 39 | 24 | 15 | 86 | 139 | 129 | 116 | 14 |  |
| Hispanic 2 ................ | 516 | - | 30 | 12 | 18 | 78 | 142 | 162 | 85 | 13 | 6 |
|  | Ratio per 1,000 live births |  |  |  |  |  |  |  |  |  |  |
| All multiple births |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{1}$ | 28.6 | 11.6 | 15.3 | 13.2 | 16.6 | 20.8 | 27.8 | 36.7 | 43.4 | 41.8 | 165.9 |
| White, total | 28.7 | 9.8 | 13.9 | 12.0 | 14.9 | 19.1 | 27.1 | 37.5 | 45.1 | 44.6 | 190.3 |
| White, non-Hispanic | 31.1 | 12.1 | 13.7 | 11.6 | 14.8 | 20.2 | 28.7 | 39.6 | 47.5 | 48.0 | 215.2 |
| Black, total ............... | 30.9 | 12.5 | 19.9 | 16.4 | 22.5 | 28.5 | 36.1 | 39.6 | 39.5 | 30.8 | 55.6 |
| Black, non-Hispanic | 30.9 | 12.4 | 20.0 | 16.5 | 22.5 | 28.5 | 36.3 | 39.9 | 39.7 | 30.6 | 58.1 |
| Hispanic ${ }^{2}$............... | 20.2 | 7.8 | 14.0 | 12.8 | 14.9 | 16.4 | 21.1 | 26.3 | 31.1 | 27.9 | 65.0 |
| Twin births |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{1}$ | 26.8 | 11.6 | 15.1 | 12.9 | 16.4 | 20.4 | 26.3 | 33.7 | 39.3 | 38.6 | 142.1 |
| White, total | 26.7 | 9.8 | 13.7 | 11.8 | 14.7 | 18.6 | 25.4 | 34.2 | 40.8 | 41.2 | 160.1 |
| White, non-Hispanic | 28.8 | 12.1 | 13.6 | 11.4 | 14.6 | 19.7 | 26.8 | 35.9 | 42.7 | 44.1 | 180.8 |
| Black, total ............ | 30.0 | 12.5 | 19.6 | 16.0 | 22.3 | 28.0 | 35.1 | 38.2 | 36.9 | 29.3 | 55.6 |
| Black, non-Hispanic | 30.0 | 12.4 | 19.7 | 16.1 | 22.3 | 28.0 | 35.3 | 38.5 | 37.0 | 29.0 | 58.1 |
| Hispanic ${ }^{2}$................ | 19.5 | 7.8 | 13.8 | 12.6 | 14.6 | 16.1 | 20.4 | 25.0 | 29.5 | 26.6 | 51.6 |
|  | Ratio per 100,000 live births |  |  |  |  |  |  |  |  |  |  |

Higher-order multiple births 3

| All races | 173.6 | * | 21.1 | 25.0 | 18.8 | 46.8 | 151.0 | 293.6 | 403.2 | 315.4 | 2387.1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| White, total | 195.9 |  | 18.6 | 17.5 | 19.3 | 47.2 | 164.5 | 329.8 | 432.7 | 345.2 | 3013.8 |
| White, non-Hispanic | 230.8 |  | 15.0 | * | 16.2 | 50.9 | 188.0 | 367.3 | 479.0 | 388.7 | 3445.2 |
| Black, total | 88.3 |  | 30.3 | 44.7 | * | 47.6 | 104.8 | 140.2 | 257.4 |  |  |
| Black, non-Hispanic ....................................... | 90.0 |  | 31.1 | 45.9 | * | 48.5 | 106.2 | 142.3 | 267.1 |  |  |
| Hispanic ${ }^{2}$................................................... | 72.7 | * | 25.4 | * | * | 36.1 | 75.3 | 133.3 | 164.7 | * |  |

[^47]
## Technical notes

## Source of data

Data shown in this report for 1997 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 annual report, Vital Statistics of the United States, 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 of 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 six States (Hawaii, Kentucky, Nevada, North Dakota, Virginia, and Wyoming). From 1964 to 1996, mother’s age was edited for ages 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 10-54 years. 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 1997 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 is tabulating its birth data primarily by race of the mother. In 1988 and prior years, births were 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. 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 (68). 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, 15 percent in 1997. Although this proportion has stabilized and declined slightly in the 1990's, it is still higher than in 1977, 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, eight States (California, Hawaii, Illinois, Minnesota, New Jersey, New York, Texas, and Washington) report data on API subgroups included in the "other" API category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API).

In 1997 race of mother was not reported for 0.7 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 1997.

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 women are reported as white. In these tabulations, data for non-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 (5). Puerto Rico and American Samoa do not collect this information. The percent of records for which Hispanic origin of the parents was not reported in 1997 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. Beginning in 1997, California added a direct question to their birth certificate; thus in 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.

In the three States that used inferential procedures to compile birth statistics by marital status in 1997, a birth is inferred as nonmarital if any of these factors, listed in priority-of-use order, is present: a paternity acknowledgment was received, the father's name is missing, or the father's and mother's current surnames are different. In addition, criteria that are particularly applicable for a given State are also applied as necessary. For example, special procedures were used in California prior to 1997 to compare the parents' surnames when hyphenated if the parents were born in countries where naming practices can identify the parents' marital status. This procedure was in effect for many years for Asian mothers and for 1995-96 for Hispanic mothers (19). 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. The inferential procedures in effect since 1980 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).

The procedures for reporting marital status in California, Nevada, and New York City changed beginning January 1, 1997. Up to that date, the mother's marital status was inferred in California by comparing the surnames of the mother, father, and child. Beginning in 1997, two changes were implemented. First, a law went into effect mandating that the father's name could not be included on the birth certificate unless the parents were married or a paternity affidavit was filed. Second, the marital status of women giving birth in California is now determined by a direct question on the birth certificate, "Mother married at any time during this pregnancy?" similar to the question asked in most other States. Reporting procedures for marital status in California are now essentially the same as those in most other States.

Procedures for inferring marital status for births in New York City changed effective in 1997; New York City is a separate registration area. Beginning in 1997, the mother is assumed to be unmarried if the father's name is missing from the birth certificate, or if a paternity affidavit was filed; these are the same procedures that have been in effect in the balance of New York State for many years. Through 1996, the inferential criteria had included a comparison of the surnames of the mother and father $(21,22)$.

Data on marital status for Nevada prior to 1997 are based on inferential procedures with the key criterion relying on a comparison of parental surnames. Beginning in 1997, Nevada is collecting information on the mother's marital status through the electronic birth registration process. This item is not included, however, on certified or paper copies of the birth certificate. Because of a recently discovered computer processing error, the data previously reported by Nevada for 1995 and 1996 substantially overestimated the number and percent of births to unmarried women. Corrected summary data are now available. The percent unmarried was 38.8 percent in 1995 and 39.3 percent in 1996. Based on the direct question, 35.5 percent of births in 1997 were to unmarried women. If the inferential procedures had remained in effect in 1997, however, Nevada estimates that 39.8 percent of births in that year were to unmarried women (slightly higher than in 1996). The
change in reporting procedures therefore accounts for nearly all of the reported change in nonmarital births in Nevada in 1997.

Because California and New York City together account for 17 percent of U.S. births, data by marital status for these areas were examined carefully to determine the effect of these reporting changes on the national data. The reporting changes had little impact on the total numbers and proportions of nonmarital births for the United States as a whole, and relatively little impact on the overall data for California. The changes affected the overall data for New York State (including New York City) as well as the data by age. In general, there was a tendency for the proportion unmarried to increase between 1996 and 1997 for women aged 15-24 years, and for the proportions to decrease for women aged 30-44 years; changes for women aged 25-29 years were not consistent. The contrasts by age were very pronounced in the data for California. Large decreases in nonmarital births were found for all age groups for New York.

The tendency for considerable increases in the proportions of nonmarital births among teenagers and the concurrent decline for older women in California is a direct reflection of the changes in reporting procedures in that State. Previously, unmarried women were frequently listing the father's name on the birth certificate. In many cases, especially among younger Hispanic and Asian or Pacific Islander women, the inferential procedures identified these births incorrectly as occurring to married women, a result of variations in naming practices among these population groups. National and State laws now preclude the father's name from being listed unless the parents are married or a paternity affidavit has been filed. Among older married women who have retained their birth surname after marriage, particularly well-educated white women, there was a tendency for their births to be considered nonmarital, because the surnames did not match. For California, the changes in nonmarital birth patterns by age were compensating, so that the overall levels of nonmarital births for California in 1997 are only moderately higher than in 1996. For New York, the changes in inferential procedures affected all age groups, identifying fewer births as nonmarital in 1997; without these changes, levels of nonmarital births would have been unchanged $(21,22)$.

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. An evaluation of this method and its validity for California (the largest nonreporting State until 1997) has been published (69). 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 1997 on 0.05 percent of the birth records in the 46 States and the District of Columbia where this information is obtained by a direct question. Marital status was imputed as "married" for these records.

## 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 (59, 70).

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 4.9 percent of the births in 1997 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 fewer than 300 births or less than 0.01 percent of all birth records in 1997. The levels of the adjustments in 1997 data were similar to those for 1996 and earlier years (19).

## 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 $=1 \mathrm{lb} 1 \mathrm{oz}$ or less
$500-999$ grams $=1 \mathrm{lb} 2 \mathrm{oz}-2 \mathrm{lb} 3 \mathrm{oz}$
1,000-1,499 grams $=2 \mathrm{lb} 4$ oz-3 lb 4 oz
$1,500-1,999$ grams $=3 \mathrm{lb} 50 \mathrm{oz}-4 \mathrm{lb} 6 \mathrm{oz}$
2,000-2,499 grams $=4 \mathrm{lb} 7 \mathrm{oz}-5 \mathrm{lb} 8 \mathrm{oz}$
$2,500-2,999$ grams $=5 \mathrm{lb} 9 \mathrm{oz}-6 \mathrm{lb} 9 \mathrm{oz}$
3,000-3,499 grams $=6 \mathrm{lb} 10 \mathrm{oz}-7 \mathrm{lb} 11 \mathrm{oz}$
3,500-3,999 grams $=7 \mathrm{lb} 12 \mathrm{oz}-8 \mathrm{lb} 13 \mathrm{oz}$
$4,000-4,499$ grams $=8 \mathrm{lb} 14 \mathrm{oz}-9 \mathrm{lb} 14 \mathrm{oz}$
$4,500-4,999$ grams $=9 \mathrm{lb} 15$ oz-11 lb 0 oz
5,000 grams or more $=11 \mathrm{lb} 1 \mathrm{oz}$ 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 which 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, or method not stated. The rate for 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 1997 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 1997 shown in tables 1, 3-6, 8-9, and 13-14 are based on populations estimated as of July 1, 1997. These populations are shown in tables II and III. The population estimates have been published by the U.S. Bureau of the Census (13) 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 (71).

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 (72). 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 1997 estimates. Rates for unmarried women shown in tables 17 and 18 are based on distributions of the population by marital status as of March 1997 provided by the U.S. Bureau of the Census (73), which have been adjusted to July 1997 population levels (13) 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, 1997 (13). Rates for Hispanic subgroups are based on special population estimates that are presented in table III in the Technical notes (74).

## 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 ( 1.4 percent) were actually to

Table I. Percent of birth records on which specified items were not stated: United States and each State, Puerto Rico, Virgin Islands, Guam, and American Samoa: 1997
[By place of residence]

| Area | Number of births | $\begin{aligned} & \text { Place } \\ & \text { of } \\ & \text { birth } \end{aligned}$ | Attendant at birth | Mother's birthplace | Father's age | Father's <br> race | Hispanic origin |  | Educational attainment Mother | Livebirth order | Length of gestation | Month prenatal care began | Number of prenatal visits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Mother | Father |  |  |  |  |  |
| Total of reporting areas ${ }^{1}$ | 3,880,894 | 0.0 | 0.0 | 0.2 | 14.5 | 14.9 | 1.4 | 15.6 | 1.5 | 0.5 | 1.0 | 2.6 | 3.4 |
| Alabama | 60,914 | - | 0.0 | 0.1 | 24.7 | 24.8 | 0.0 | 24.7 | 0.4 | 0.0 | 0.1 | 0.5 | 0.9 |
| Alaska. | 9,947 | 0.0 | 0.0 | 0.1 | 14.1 | 16.0 | 0.2 | 14.7 | 1.0 | 0.1 | 0.1 | 1.5 | 1.0 |
| Arizona | 75,699 | 0.0 | 0.1 | 0.3 | 21.6 | 23.7 | 1.3 | 24.1 | 2.1 | 0.3 | 0.2 | 1.3 | 1.7 |
| Arkansas | 36,478 | 0.0 | 0.1 | 0.3 | 20.4 | 21.2 | 0.2 | 20.7 | 0.8 | 0.2 | 0.4 | 2.4 | 3.2 |
| California | 524,840 | 0.0 | 0.1 | 0.1 | 7.5 | 6.6 | 0.5 | 6.0 | 1.3 | 0.1 | ${ }^{2} 5.0$ | 1.2 | 2.6 |
| Colorado | 56,533 | - | 0.0 | 0.2 | 10.0 | 10.6 | 0.1 | 10.8 | 1.2 | 0.1 | 0.0 | 0.7 | 1.4 |
| Connecticut. | 43,109 | 0.0 | 0.0 | 0.4 | 9.3 | 11.0 | 6.1 | 14.8 | 4.8 | 8.2 | 1.2 | 6.7 | 10.4 |
| Delaware | 10,253 | 0.0 | 0.0 | 0.3 | 29.1 | 30.3 | 0.5 | 30.1 | 0.3 | 0.2 | 0.2 | 0.6 | 0.8 |
| District of Columbia . | 7,927 | 0.0 | - | 0.0 | 47.5 | 54.3 | 1.9 | 48.0 | 9.5 | 0.4 | 0.5 | 15.8 | 17.9 |
| Florida . . . . | 192,383 | 0.0 | - | 0.1 | 18.1 | 18.1 | 0.1 | 19.3 | 0.4 | 0.0 | 0.1 | 1.1 | 1.7 |
| Georgia . | 118,221 | 0.0 | 0.0 | 0.2 | 18.5 | 18.7 | 0.9 | 19.2 | 1.3 | 0.3 | 0.1 | 2.0 | 1.7 |
| Hawaii. . | 17,393 | 0.0 | 0.0 | 0.1 | 8.5 | 8.7 | 0.3 | 8.9 | 0.4 | 0.0 | 5.3 | 2.5 | 3.1 |
| Idaho | 18,582 | - | 0.0 | 0.2 | 8.0 | 11.3 | 1.5 | 11.3 | 8.1 | 0.9 | 0.6 | 4.0 | 12.7 |
| Illinois . | 180,803 | 0.0 | 0.0 | 0.1 | 15.4 | 16.9 | 0.0 | 16.9 | 0.7 | 0.1 | 0.2 | 1.6 | 2.0 |
| Indiana | 83,436 | 0.3 | 0.1 | 0.2 | 13.0 | 13.1 | 0.4 | 13.3 | 1.0 | 0.7 | 0.1 | 2.0 | 3.4 |
| lowa. | 36,659 | 0.0 | 0.0 | 0.3 | 12.3 | 14.3 | 1.0 | 14.9 | 1.5 | 0.1 | 0.1 | 1.3 | 4.4 |
| Kansas | 37,289 | 0.0 | 0.0 | 0.1 | 10.6 | 10.9 | 0.9 | 12.0 | 0.3 | 0.1 | 0.1 | 0.6 | 1.0 |
| Kentucky | 53,203 | 0.0 | 0.0 | 0.0 | 22.1 | 22.7 | 0.0 | 24.1 | 0.2 | 0.2 | 0.2 | 0.9 | 1.0 |
| Louisiana. | 66,025 | 0.0 | 0.0 | 0.0 | 23.1 | 23.3 | 0.0 | 23.2 | 0.1 | 0.0 | 0.1 | 0.3 | 0.4 |
| Maine . | 13,669 | 0.0 | - | - | 10.1 | 14.9 | 4.2 | 18.9 | 0.7 | 0.2 | 0.1 | 0.6 | 0.7 |
| Maryland | 70,215 | - | 0.0 | 0.9 | 8.3 | 10.7 | 1.2 | 6.8 | 4.8 | 3.3 | 1.5 | 11.4 | 17.2 |
| Massachusetts . | 80,364 | 0.0 | 0.0 | 0.1 | 8.0 | 7.8 | 0.6 | 7.0 | 0.5 | 0.5 | 0.5 | 1.1 | 1.0 |
| Michigan | 133,714 | 0.1 | 0.1 | 0.1 | 16.6 | 18.5 | 5.3 | 22.8 | 1.2 | 0.5 | 0.1 | 3.6 | 4.2 |
| Minnesota | 64,499 | 0.0 | 0.0 | - | 9.2 | 11.5 | 5.2 | 15.4 | 2.0 | 0.3 | 1.0 | 4.7 | 4.1 |
| Mississippi | 41,533 | 0.0 | 0.0 | 0.1 | 25.4 | 24.6 | 0.1 | 25.3 | 0.2 | 0.1 | 0.2 | 0.5 | 0.8 |
| Missouri. | 74,037 | - | 0.0 | 0.2 | 18.5 | 18.7 | 0.1 | 19.0 | 0.9 | 0.4 | 0.2 | 1.9 | 3.3 |
| Montana | 10,849 | 0.0 | 0.5 | - | 9.7 | 10.7 | 3.2 | 13.7 | 0.2 | 0.1 | 0.0 | 0.6 | 0.5 |
| Nebraska . | 23,319 | - | - | 0.0 | 12.1 | 12.6 | 2.3 | 14.2 | 0.1 | - | 0.0 | 0.3 | 0.6 |
| Nevada | 26,911 | 0.0 | 0.0 | 0.8 | 23.3 | 24.9 | 0.7 | 23.1 | 2.1 | 0.8 | 0.8 | 4.0 | 9.9 |
| New Hampshire . | 14,313 | 0.0 | 0.0 | 0.0 | 8.0 | 8.7 | 3.0 | 10.8 | 0.8 | 0.1 | 0.4 | 2.9 | 3.7 |
| New Jersey | 113,279 | 0.1 | 0.1 | 0.3 | 9.0 | 10.9 | 0.5 | 9.7 | 2.3 | 0.2 | 0.2 | 3.6 | 3.9 |
| New Mexico | 26,871 | - | 0.0 | 2.1 | 26.6 | 25.9 | 0.0 | 25.9 | 4.4 | 0.5 | 0.3 | 4.8 | 4.4 |
| New York. | 257,238 | 0.1 | 0.1 | 0.6 | 17.9 | 18.2 | 9.6 | 26.0 | 1.4 | 0.3 | 0.2 | 8.9 | 5.8 |
| North Carolina | 107,015 | 0.0 | 0.0 | 0.0 | 17.4 | 17.4 | 0.0 | 17.3 | 0.1 | 0.0 | 0.1 | 0.6 | 0.6 |
| North Dakota. | 8,353 | - | - | 0.0 | 8.7 | 9.9 | 2.9 | 12.6 | 0.1 | - | 0.1 | 0.4 | 0.3 |
| Ohio. | 152,033 | 0.0 | 0.1 | 0.2 | 11.5 | 13.9 | 0.5 | 13.5 | 0.5 | 0.1 | 0.0 | 0.4 | 1.7 |
| Oklahoma. | 48,269 | 0.0 | 0.0 | 0.1 | 17.3 | 19.0 | 0.4 | 19.5 | 3.6 | 4.1 | 3.6 | 10.7 | 11.3 |
| Oregon . . . . | 43,809 | 0.0 | 1.0 | 0.1 | 10.7 | 4.3 | 0.2 | 4.6 | 1.0 | 0.0 | 0.0 | 0.4 | 0.5 |
| Pennsylvania. | 144,224 | 0.0 | 0.0 | 0.6 | 5.5 | 3.4 | 0.6 | 3.1 | 2.0 | 0.3 | 0.2 | 1.7 | 2.9 |
| Rhode Island. | 12,455 | 0.0 | - | 0.2 | 13.5 | 14.1 | 13.0 | 23.2 | 2.8 | 2.2 | 2.2 | 8.0 | 8.6 |

See footnotes at end of table.

Table I. Percent of birth records on which specified items were not stated: United States and each State, Puerto Rico, Virgin Islands, Guam, and American Samoa: 1997-Con.
[By place of residence]

| Area | Number of births | $\begin{aligned} & \text { Place } \\ & \text { of } \\ & \text { birth } \end{aligned}$ | Attendant at birth | Mother's birthplace | Father's age | Father's <br> race | Hispanic origin |  | Educational attainment Mother | Livebirth order | Length <br> of <br> gestation | Month prenatal care began | Number of prenatal visits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Mother | Father |  |  |  |  |  |
| South Carolina. | 52,214 | 0.0 | 0.0 | 0.3 | 28.5 | 28.7 | 0.1 | 28.6 | 4.2 | 0.4 | 0.2 | 1.9 | 2.0 |
| South Dakota | 10,173 | - | - | - | 11.9 | 12.1 | 0.2 | 12.7 | 0.3 | 0.0 | 0.0 | 0.6 | 0.6 |
| Tennessee | 74,478 | - | 0.0 | 0.1 | 15.9 | 16.2 | 0.1 | 16.1 | 0.2 | 0.1 | 0.2 | 1.3 | 1.6 |
| Texas | 333,974 | 0.0 | 0.0 | 0.4 | 15.7 | 15.6 | 0.3 | 15.6 | 1.0 | 0.9 | 0.4 | 1.9 | 4.5 |
| Utah. | 43,059 | - | 0.0 | 0.1 | 9.8 | 10.9 | 0.3 | 9.2 | 0.9 | 0.1 | 0.1 | 1.0 | 1.2 |
| Vermont. | 6,607 | - | 0.0 | 0.0 | 6.0 | 9.4 | 3.0 | 10.6 | 2.1 | 0.1 | 0.2 | 3.1 | 1.0 |
| Virginia | 91,862 | 0.0 | 0.0 | 0.1 | 17.9 | 19.1 | 0.1 | 18.0 | 0.4 | 0.2 | 0.3 | 0.9 | 2.0 |
| Washington. | 78,190 | 0.0 | 0.0 | 0.7 | 11.6 | 11.9 | 3.2 | 12.1 | 10.4 | 3.8 | 1.5 | 9.2 | 12.9 |
| West Virginia. | 20,730 | 0.1 | 0.0 | 0.1 | 13.0 | 15.9 | 0.0 | 15.9 | 0.4 | 0.2 | 0.3 | 3.5 | 3.2 |
| Wisconsin. | 66,557 | 0.0 | - | 0.0 | 27.6 | 27.7 | 0.0 | 27.7 | 0.1 | 0.0 | 0.0 | 0.2 | 0.3 |
| Wyoming | 6,387 | - | - | 0.1 | 13.6 | 13.8 | 0.3 | 13.8 | 0.3 | 0.0 | 0.0 | 0.4 | 0.4 |
| Puerto Rico | 64,109 | - | 0.0 | - | 2.7 | 3.0 | --- | --- | 0.2 | 0.0 | 0.0 | 0.2 | 0.1 |
| Virgin Islands | 2,017 | - | 0.2 | - | 19.8 | 21.7 | 5.4 | 31.1 | 1.6 | 0.3 | 0.6 | 0.7 | 1.6 |
| Guam . | 4,308 | 0.1 | 0.3 | 0.7 | 24.8 | 26.8 | 1.9 | 28.2 | 2.1 | 1.5 | 0.9 | 3.5 | 4.0 |
| American Samoa | 1,634 | - | --- | 4.8 | 34.6 | 36.9 | -- | -- - | -- - | -- | -- - | -- - | -- - |

See footnotes at end of table.

Table I. Percent of birth records on which specified items were not stated: United States and each State, Puerto Rico, Virgin Islands, Guam, and American Samoa: 1997-Con.
[By place of residence]

| Area | Number of births | Birthweight | 5-minuteApgar 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 ${ }^{1}$ | 3,880,894 | 0.1 | 0.6 | 1.2 | 1.5 | 1.4 | 8.3 | 0.8 | 1.0 | 0.9 | 2.1 | 1.5 |
| Alabama | 60,914 | 0.0 | 0.3 | ${ }^{3} 0.1$ | 0.2 | 0.2 | 4.4 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 |
| Alaska. | 9,947 | 0.3 | 0.5 | 0.1 | 0.3 | 0.3 | 1.4 | 0.1 | 0.1 | 0.3 | 0.1 | 0.1 |
| Arizona | 75,699 | 0.1 | 0.4 | 0.0 | 1.9 | 2.1 | 10.5 | 0.0 | 0.0 | 0.2 | 0.0 | 0.4 |
| Arkansas | 36,478 | 0.2 | 4.6 | 0.4 | 1.0 | 1.1 | 9.8 | 0.2 | 0.4 | 0.6 | 0.3 | 0.3 |
| California . | 524,840 | 0.0 | -- | 0.0 | -- | -- | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Colorado | 56,533 | 0.0 | 0.3 | 0.0 | 0.2 | 0.2 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Connecticut. | 43,109 | 0.0 | 3.4 | 14.9 | 9.8 | 9.5 | 23.7 | 13.1 | 15.2 | 7.3 | 21.0 | 22.4 |
| Delaware | 10,253 | 0.1 | 0.3 | 0.0 | 0.1 | 0.1 | 0.9 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 |
| District of Columbia . | 7,927 | 0.1 | 1.0 | - | 0.1 | 0.1 | 18.8 | - | - | 0.1 | 0.0 | - |
| Florida | 192,383 | 0.0 | 0.2 | 0.0 | 0.1 | 0.1 | 4.2 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 |
| Georgia . | 118,221 | 0.0 | 0.5 | 0.4 | 0.2 | 0.3 | 4.7 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| Hawaii. | 17,393 | 1.7 | 4.6 | 20.2 | 0.3 | 0.3 | 13.8 | 13.1 | 7.6 | 19.4 | 21.0 | 22.4 |
| Idaho | 18,582 | 0.1 | 0.7 | 0.7 | 1.8 | 2.0 | 10.8 | 0.5 | 0.7 | 0.2 | 0.4 | 0.5 |
| Illinois . | 180,803 | 0.1 | 0.3 | 0.1 | 1.0 | 0.2 | 4.0 | 0.0 | 0.1 | 0.4 | 0.1 | 0.1 |
| Indiana | 83,436 | 0.4 | 0.4 | 0.2 | -- | 0.4 | 4.0 | 0.1 | 0.3 | 0.4 | 0.8 | 0.8 |
| lowa. . | 36,659 | 0.0 | 0.3 | 0.1 | 2.2 | 2.5 | 6.6 | 0.0 | 0.1 | 0.3 | 0.1 | 0.1 |
| Kansas | 37,289 | 0.0 | 0.3 | ${ }^{4} .4$ | 0.5 | 0.5 | 0.7 | 0.3 | 0.3 | 2.5 | 0.3 | 0.3 |
| Kentucky | 53,203 | 0.1 | 0.4 | 6.7 | 5.3 | 5.2 | 9.4 | 4.0 | 7.1 | 4.8 | 12.5 | 11.7 |
| Louisiana . | 66,025 | 0.1 | 0.3 | 0.1 | 0.2 | 0.2 | 7.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Maine . | 13,669 | 0.1 | 0.1 | 0.1 | 1.8 | 2.7 | 1.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 |
| Maryland | 70,215 | 0.1 | 0.5 | 0.0 | 1.1 | 1.6 | 12.6 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| Massachusetts . | 80,364 | 0.5 | 0.6 | 1.2 | 0.4 | 0.4 | 2.0 | 1.1 | 1.2 | 0.8 | 2.1 | 1.9 |
| Michigan | 133,714 | 0.3 | 0.4 | 0.4 | 1.5 | 1.2 | 9.4 | 0.1 | 0.3 | 0.6 | 0.6 | 0.7 |
| Minnesota | 64,499 | 0.1 | 0.7 | 7.0 | 6.1 | 6.2 | 15.2 | 5.2 | 6.2 | 4.4 | 7.1 | 7.4 |
| Mississippi | 41,533 | 0.0 | 0.5 | 0.1 | 0.2 | 0.2 | 5.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Missouri. | 74,037 | 0.1 | 0.4 | 0.1 | 0.6 | 0.6 | 3.7 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| Montana | 10,849 | 0.0 | 0.3 | 0.1 | 1.3 | 1.4 | 0.5 | 0.1 | 0.1 | 0.6 | 0.1 | 0.1 |
| Nebraska | 23,319 | 0.0 | 0.2 | 0.0 | 1.0 | 1.0 | 1.8 | 0.0 | 0.0 | 0.2 | ${ }^{7} .0$ | 0.0 |
| Nevada . | 26,911 | 0.0 | 1.5 | 1.4 | 1.5 | 1.6 | 9.8 | 0.2 | 0.7 | 0.7 | 2.2 | 2.5 |
| New Hampshire | 14,313 | 0.3 | 0.6 | 0.3 | 0.3 | 0.2 | 6.5 | 0.2 | 0.3 | 0.2 | 0.4 | 0.4 |
| New Jersey | 113,279 | 0.1 | 0.3 | 2.1 | 1.4 | 1.4 | 4.5 | 0.2 | 2.1 | 0.4 | 24.2 | 2.6 |
| New Mexico | 26,871 | 0.3 | 3.5 | 0.2 | 2.0 | 2.1 | 11.2 | 0.0 | 0.0 | 0.4 | 0.0 |  |
| New York. | 257,238 | 0.1 | 0.3 | 1.1 | ${ }^{5} 4.4$ | 0.3 | 9.7 | 0.3 | 0.5 | 0.4 | ${ }^{8} 0.8$ | 0.9 |
| North Carolina . | 107,015 | 0.0 | 0.3 | 0.0 | 0.1 | 0.1 | 2.8 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| North Dakota. | 8,353 | 0.1 | 0.3 | 0.1 | 0.5 | 0.8 | 1.5 | 0.1 | 0.1 | 0.7 | 0.1 | 0.1 |
| Ohio. | 152,033 | 0.1 | 0.2 | 0.1 | 0.3 | 0.2 | 3.0 | 0.0 | 0.1 | 0.4 | 0.1 | 0.1 |
| Oklahoma. | 48,269 | 0.7 | 5.5 | 28.8 | 20.8 | 21.0 | 31.4 | 24.2 | 28.0 | 21.2 | 35.0 | 35.8 |
| Oregon | 43,809 | 0.0 | 0.4 | 0.5 | 0.6 | 0.6 | 3.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Pennsylvania. | 144,224 | 0.1 | 0.4 | 0.1 | 0.8 | 0.4 | 6.7 | 0.0 | 0.1 | 0.1 | 0.6 | 0.5 |
| Rhode Island. . . | 12,455 | 0.3 | 0.4 | 4.9 | 2.5 | 2.7 | 10.7 | 4.9 | 5.1 | 0.2 | 12.1 | 12.3 |

Table I. Percent of birth records on which specified items were not stated: United States and each State, Puerto Rico, Virgin Islands, Guam, and American Samoa: 1997-Con.
[By place of residence]

| Area | Number of births | Birthweight | 5-minute- <br> Apgar <br> 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. | 52,214 | 0.0 | 0.3 | 0.0 | 0.2 | 0.3 | 3.5 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 |
| South Dakota | 10,173 | 0.0 | 0.3 | 0.0 | --- | -- - | 2.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| Tennessee | 74,478 | 0.1 | 0.3 | 0.1 | 0.3 | 0.4 | 4.5 | 0.1 | 0.1 | 0.5 | 0.0 | 0.0 |
| Texas | 333,974 | 0.1 | ... | ${ }^{6} 1.2$ | 0.2 | 0.2 | 18.9 | 0.1 | ${ }^{9} .1$ | 0.6 | ${ }^{7} .1$ | 0.1 |
| Utah. | 43,059 | 0.1 | 0.3 | 0.2 | 0.4 | 0.4 | 5.9 | 0.0 | 0.1 | 0.0 | 0.3 | 0.5 |
| Vermont. | 6,607 | 0.3 | 0.2 | 0.1 | 0.9 | 0.3 | 1.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Virginia | 91,862 | 0.1 | 0.4 | 0.1 | 0.2 | 0.1 | 7.7 | 0.1 | 0.1 | 0.3 | 0.3 | 0.0 |
| Washington. | 78,190 | 0.2 | 0.5 | 1.7 | 4.4 | 13.5 | 22.9 | 1.3 | 4.3 | 0.5 | 5.1 | 4.9 |
| West Virginia. | 20,730 | 0.0 | 0.2 | 0.5 | 0.7 | 2.6 | 7.8 | 0.0 | 0.5 | 0.2 | 0.8 | 0.5 |
| Wisconsin. | 66,557 | 0.0 | 0.4 | 0.1 | 0.1 | 0.1 | 1.5 | 0.0 | 0.1 | 0.0 | ${ }^{10} 0.1$ | 0.1 |
| Wyoming | 6,387 | 0.0 | 0.2 | 0.0 | 1.0 | 1.0 | 1.2 | 0.0 | - | 0.2 | 0.0 | - |
| Puerto Rico | 64,109 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Virgin Islands | 2,017 | 0.1 | 2.4 | 8.3 | 1.1 | 1.1 | 9.5 | 4.1 | 9.6 | 1.5 | 10.5 | 10.1 |
| Guam . | 4,308 | 0.2 | 1.9 | 12.6 | 3.1 | 3.3 | 28.6 | 11.9 | 13.3 | 3.5 | 15.3 | 16.0 |
| American Samoa . | 1,634 | 0.2 | --- | -- - | -- | -- - | -- - | -- - | -- - | -- - | -- - | --- |

0.0 Quantity more than zero but less than 0.05 .

- Quantity zero.
- . - Data not available.
${ }^{1}$ Excludes data for Puerto Rico, Virgin Islands, and Guam.
${ }^{2}$ California reports date last normal menses began but does not report clinical estimate of gestation.
${ }^{3}$ Alabama does not report renal disease.
${ }^{4}$ Kansas does not report Rh sensitization.
${ }^{5}$ New York City (but not New York State) reports tobacco use.
${ }^{6}$ Texas does not report genital herpes and uterine bleeding.
Nebraska and Texas do not report birth injury
${ }^{8}$ New York City does not report assisted ventilation less than 30 minutes or assisted ventilation of 30 minutes or more.
${ }^{9}$ Texas does not report anesthetic complications and fetal distress.
${ }^{10}$ Wisconsin does not report fetal alcohol syndrome.

Table II. Estimated total population by race, and estimated female population by age and race: United States, 1997
[Populations estimated as of July 1]

| Age | All races | White | Black | American Indian | Asian or Pacific Islander |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total population | 267,636,061 | 221,334,048 | 33,947,084 | 2,322,044 | 10,032,885 |
| Female population |  |  |  |  |  |
| 15-44 years | 59,688,117 | 48,081,235 | 8,489,065 | 558,304 | 2,559,513 |
| 10-14 years | 9,283,112 | 7,343,738 | 1,444,504 | 117,894 | 376,976 |
| 15-19 years | 9,241,412 | 7,313,274 | 1,457,189 | 108,713 | 362,236 |
| 15-17 years. | 5,615,997 | 4,439,844 | 881,596 | 68,817 | 225,740 |
| 18-19 years. | 3,625,415 | 2,873,430 | 575,593 | 39,896 | 136,496 |
| 20-24 years | 8,532,461 | 6,750,471 | 1,313,327 | 91,290 | 377,373 |
| 25-29 years | 9,398,632 | 7,476,133 | 1,362,390 | 90,965 | 469,144 |
| 30-34 years | 10,400,509 | 8,380,656 | 1,464,368 | 90,478 | 465,007 |
| 35-39 years | 11,338,341 | 9,278,207 | 1,515,068 | 92,041 | 453,025 |
| 40-44 years | 10,776,762 | 8,882,494 | 1,376,723 | 84,817 | 432,728 |
| 45-49 years | 9,396,051 | 7,826,939 | 1,127,973 | 68,960 | 372,179 |

SOURCE: Hollmann FW, Kuzmeskus LB, Perkins RC, Weber EA. U.S. population estimates, by age, sex, race, and Hispanic origin: 1990 to 1997. U.S. Bureau of the Census. PPL-91R. Census file NESTV97. Washington: U.S. Department of Commerce. 1998.

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, 1997
[Populations estimated as of July 1]

| Age | Hispanic |  |  |  |  | Non-Hispanic |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Mexican | Puerto Rican | Cuban | Other Hispanic ${ }^{1}$ | Total ${ }^{2}$ | White | Black |
| Total population | 29,347,806 | 18,649,659 | 3,070,441 | 1,270,140 | 6,357,566 | 238,288,182 | 194,571,380 | 32,298,025 |
| Female population |  |  |  |  |  |  |  |  |
| 15-44 years | 6,905,020 | 4,280,140 | 773,829 | 224,704 | 1,626,347 | 52,783,085 | 41,803,918 | 8,090,724 |
| 10-14 years | 1,226,087 | 831,089 | 158,779 | 24,381 | 211,838 | 8,057,024 | 6,234,838 | 1,373,508 |
| 15-19 years | 1,213,370 | 768,679 | 161,010 | 24,179 | 259,502 | 8,028,041 | 6,210,606 | 1,388,650 |
| 15-17 years. | 730,143 | 461,327 | 102,167 | 12,937 | 153,712 | 4,885,849 | 3,777,361 | 840,473 |
| 18-19 years. | 483,227 | 307,352 | 58,843 | 11,242 | 105,790 | 3,142,192 | 2,433,245 | 548,177 |
| 20-24 years | 1,173,235 | 777,528 | 111,628 | 30,475 | 253,604 | 7,359,218 | 5,678,109 | 1,249,135 |
| 25-29 years | 1,166,826 | 756,901 | 122,034 | 29,218 | 258,673 | 8,231,801 | 6,415,665 | 1,295,990 |
| 30-34 years | 1,241,080 | 757,392 | 141,342 | 50,680 | 291,666 | 9,159,418 | 7,253,480 | 1,390,768 |
| 35-39 years | 1,147,785 | 653,284 | 129,945 | 48,410 | 316,146 | 10,190,558 | 8,236,321 | 1,446,934 |
| 40-44 years | 962,724 | 566,356 | 107,870 | 41,742 | 246,756 | 9,814,049 | 8,009,737 | 1,319,247 |
| 45-49 years | 746,480 | 434,267 | 79,905 | 36,986 | 195,322 | 8,649,573 | 7,149,004 | 1,084,124 |

${ }^{1}$ Includes Central and South American and other and unknown Hispanic.
${ }^{2}$ Includes 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: Hollmann FW, Kuzmeskus LB, Perkins RC, Weber EA. U.S. population estimates, by age, sex, race, and Hispanic origin: 1990 to 1997. U.S. Bureau of the Census. PPL-91R. Census file NESTV97. Washington: U.S. Department of Commerce. 1998.

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 15 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. 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 2-8 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 relative standard error

Although the birth data in this report for births since 1985 are not subject to sampling error, they may be affected by random variation in the number of births involved. When the number of events is small (perhaps less than 100) and the probability of such an event is small, considerable caution must be observed in interpreting the data. Events of rare nature may be assumed to follow a Poisson probability distribution. For this distribution, a simple approximation may be used to estimate the error as follows:

If $N$ is the number of births and $R$ is the corresponding rate, the chances are 19 in 20 that

1. The "true" number of events lies between

$$
N-2 \sqrt{N} \text { and } N+2 \sqrt{N}
$$

2. The "true" rate lies between

$$
R-2 \frac{R}{\sqrt{N}} \text { and } R+2 \frac{R}{\sqrt{N}}
$$

If the rate $R_{1}$ corresponding to $N_{1}$ events is compared to the rate $R_{2}$ corresponding to $N_{2}$ events, the difference between the two rates may be regarded as statistically significant if it exceeds

$$
2 \sqrt{\frac{R_{1}^{2}}{N_{1}}+\frac{R_{2}^{2}}{N_{2}}}
$$

For example, the proportion of mothers receiving first trimester care for area A for 1997 was 63.9 percent and this proportion or rate was based on 53 recorded births. Given prevailing conditions, the chances are 19 in 20 that the "true" or underlying proportion of women receiving early prenatal care in area A lies between 49.3 and 78.5 percent. The 1996 proportion receiving early care in area A was 78.7 based on 70 recorded births. The difference between the rates is 14.8 which is less than twice the standard error of the difference

$$
2 \sqrt{\frac{(63.9)^{2}}{53}+\frac{(78.7)^{2}}{70}}
$$

of the two rates that is computed to be 25.7. From this, it is concluded that the difference between the proportions receiving early prenatal care in 1996 and 1997 is not statistically significant. More information on this topic is included in the Technical Appendix of the annual report, Vital Statistics of the United States, 1992, Volume I, Natality (3). In addition, the relative standard errors for birth rates for Hispanic subgroups, particularly Puerto Rican, Cuban, and "other" Hispanic women, may be somewhat higher than if based only on the number of births. This reflects the considerable sampling variability in the population estimates for these groups (74).

## 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 (75).

## Medical risk factors for this pregnancy

Anemia-Hemoglobin level of less than $10.0 \mathrm{~g} / \mathrm{dL}$ 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 preeclampsia.

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 birthweight of a previous live-born child was over 4,000+ grams (8 lbs. 14 oz .).

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 10th 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.


38b. OTHER RISK FACTORS FOR THIS PREGNANCY
(Complete all items)
Tobacco use during pregnancy . . . . . . . . . . Yes $\square$ No $\square$
Average number cigarettes per day
Alcohol use during pregnancy . . ........ Yes $\square$ No $\square$
Average number drinks per week
Weight gained during pregnancy
39. OBSTETRIC PROCEDURES
(Check all that apply)

| Amniocentesis | $01 \square$ |
| :---: | :---: |
| Electronic fetal monitoring | $02 \square$ |
| Induction of labor | $03 \square$ |
| Stimulation of labor | $04 \square$ |
| Tocolysis | $05 \square$ |
| Ultrasound | $06 \square$ |
| None | . $00 \square$ |
| Other | . $07 \square$ |
| (Specify) |  |




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

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.

## Complications of labor and/or delivery

Febrile-A fever greater than 100 degrees F. or 38 degrees 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 $13.0 \mathrm{~g} / \mathrm{dL}$ 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 (5), triplet births (64), teenage birth rates by State (6), birth rates by educational attainment of the mother (76), cesarean deliveries (77, 78), birth and fertility rates for States (17), births to unmarried mothers (23), characteristics of births in Asian or Pacific Islander population subgroups (4), trends in pregnancies and pregnancy rates (10), and trends in smoking (35).

This report presents summary tabulations from the final natality statistics for 1997. The National Center for Health Statistics will respond to requests for unpublished data whenever possible.


To receive this publication regularly, contact the National Center for Health Statistics by calling 301-436-8500 E-mail: nchsquery @cdc.gov Internet: www.cdc.gov/nchswww/

## Suggested citation

Ventura SJ, Martin JA, Curtin SC, Mathews TJ. Births: Final Data for 1997. National vital statistics reports; vol 47 no. 18. Hyattsville, Maryland: National Center for Health Statistics. 1999.

## 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) 99-1120 9-0340 (4/99)

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[^0]:    ** Not significant at $p<0.05$.
    --- Data not available.
    ${ }^{1}$ Excludes data for Puerto Rico, Virgin Islands, Guam, and American Samoa.

[^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.

[^2]:    ${ }^{1}$ See reference 54 for detailed data on trends.

[^3]:    ${ }^{1}$ Percent of all live births by cesarean delivery.
    ${ }^{2}$ Number of primary cesareans per 100 live births to women who have not had a previous cesarean.
    ${ }^{3}$ Number of vaginal births after previous cesarean (VBAC) delivery per 100 live births to women with a previous cesarean delivery.

[^4]:    -- Data not available
    For 1960-91 includes births to races not shown separately.
    2 Includes births to Aleuts and Eskimos.
    3 Based on 100 percent of births in selected States and on a 50 -percent sample of births in all other States; see Technical notes.
    4 Based on a 50 -percent sample of births.
    Based on a 20-to 50 -percent sample of births.
    6 Figures by race exclude New Jersey.

[^5]:    Quantity zero.
    Includes births to Aleuts and Eskimos.

[^6]:    *Figure does not meet standards of reliability or precision.
    1 Beginning 1997, rates computed by relating births to women aged 45-54 years to women aged 45-49 years.
    2 For 1970-91 includes births to races not shown separately.
    3 Based on 100 percent of births in selected States and on a 50 -percent sample of births in all other States; see Technical notes
    5 Based on a 50-percent sample of births.
    Includes births to Aleuts and Eskimos.

[^7]:    Includes races other than white and black.
    2 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 women (including Hispanic women) are classified only according to their race; see Technical notes.

[^8]:    Includes origin not stated
    Includes races other than white and black
    3 Excludes data for New Hampshire, which did not report Hispanic origin.
    4 Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.
    5 Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.
    6 Live births per 1,000 population in specifed group.
    Includes Central and South American and other and unknown Hispanic.
    8 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.
    9 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.

[^9]:    See footnotes at end of table

[^10]:    1 Excludes data for Puerto Rico, Virgin Islands, Guam, and American Samoa.

[^11]:    -- Data not available.
    1 Includes births to Aleuts and Eskimos.
    2 Excludes data for Puerto Rico, Virgin Islands, Guam, and American Samoa.
    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

[^12]:    -- Data not available.
    1 Includes races other than white and black.
    2 Excludes data for Puerto Rico, Virgin Islands, Guam, and American Samoa.
    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.

[^13]:    --- Data not available.
    1 Includes births to Aleuts and Eskimos.
    2 Rate per 1,000 population.
    3 Rate per 1,000 population.
    4 Rates are sums of birth rates for 5 -year age groups multiplied by 5 .
    5 Rates are sums of birth rates for 5 -year age

[^14]:    1 Includes origin not stated.
    2 Includes races other than white and black.
    3 Rate per 1,000 population.
    4 Rate per 1,000 women aged 15-44 years.
    5 Rates are sums of birth rates for 5 -year age groups multiplied by 5 .
    6 Male live births per 1,000 female live births.
    7 Includes Central and South American and other and unknown Hispanic.

[^15]:    ... Category not applicable.
    1 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).
    2 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.

[^16]:    1 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 .
    2 Includes method of delivery not stated.
    3 Includes races other than white and black

[^17]:    -- Data not available
    1 Includes races other than white and black and origin not stated.
    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.
    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.

[^18]:    See footnotes at end of table

[^19]:    * Figure does not meet standards of reliability or precision.
    --- Data not available.
    1 Includes races other than white and black and origin not stated.
    Includes all persons of Hispanic origin of any race.
    Excludes data for Puerto Rico, Virgin Islands, Guam and American Samoa.

[^20]:    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.
    3 Includes races other than white and black.
    4 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.

[^21]:    -Quantity zero.
    1 Includes races other than white and black.
    2 Includes all persons of Hispanic origin of any race.

[^22]:    Category not applicable
    Expressed in completed weeks.
    2 Includes births with period of gestation not stated.
    3 Includes races other than white and black and origin not stated.
    4 Includes all persons of Hispanic origin of any race.

[^23]:    Expressed in completed weeks.
    2 Includes births with period of gestation not stated.
    3 Includes races other than white and black and origin not stated.
    Includes all persons of Hispanic origin of any race.

[^24]:    * Figure does not meet standards of reliability or precision.

    1 Includes births to Aleuts and Eskimos.
    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.
    3 Excludes data for California and South Dakota, which did not report alcohol use on the birth certificate.
    4 Excludes data for California, which did not report weight gain on the birth certificate. Median weight shown in pounds
    5 Born prior to 37 completed weeks of gestation.
    6 Birthweight of less than 1,500 grams ( 3 lb 4 oz ).
    $7 \begin{aligned} & \text { Birthweight of less than } 1,500 \text { grams ( } 3 \mathrm{lb} 4 \mathrm{oz} \text { ). } \\ & \text { Birthweight of less than } 2,500 \text { grams ( } 5 \mathrm{lb} 8 \mathrm{oz} \text { ). }\end{aligned}$
    8 Equivalent to 8 lb 14 oz .
    Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate

[^25]:    1 Total number of births to residents of areas reporting specified medical risk factor
    3 Includes races other than white and black.
    3 Texas does not report this risk factor.
    4 Alabama does not report this risk factor.
    5 Kansas does not report this risk factor.

[^26]:    Includes births to Aleuts and Eskimos.
    Texas does not report this risk factor.
    3 Texas does not report this complication.

[^27]:    1 Includes origin not stated.
    2 Includes races other than white and black.
    3 Texas does not report this risk factor.
    4 Texas does not report this complication.

[^28]:    * Figure does not meet standards of reliability or precision.

    1 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.

[^29]:    Figure does not meet standards of reliability or precision.
    1 Includes origin not stated.
    2 Includes races other than white and black.

[^30]:    ${ }_{1}^{\star}$ Figure does not meet standards of reliability or precision.
    1 Includes races other than white and black and origin not stated.
    2 Includes all persons of Hispanic origin of any race.

[^31]:    See footnotes at end of table

[^32]:    See footnotes at end of table.

[^33]:    . Category not applicable.
    1 Includes races other than white and black and origin not stated.
    2 Persons of Hispanic origin may be of any race.

[^34]:    1 Includes races other than white and black.

[^35]:    * Figure does not meet standards of reliability or precision.

    1 Total number of births to residents of areas reporting specified complication.
    2 Includes races other than white and black.
    3 Texas does not report this complication.

[^36]:    Quantity zero.
    Includes races other than white and black and origin not stated.
    2 Includes births occurring en route to or on arrival at hospital.
    Includes all persons of Hispanic origin of any race.

[^37]:    1 Percent of all live births by cesarean delivery
    2 Number of primary cesareans per 100 live births to women who have not had a previous cesarean.
    4 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 Oklahoma, which did not report method of delivery on the birth certificate.
    Excludes data for Louisiana, Maryland, Nebraska, Nevada, and Oklahoma, which did not report method of delivery on the birth certificate
    Includes Persons of Hispanic origin of any race.
    Excludes data for New Hampshire which did not report Hispanic origin.
    10 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.

[^38]:    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
    3 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.
    5 Includes all persons of Hispanic origin of any race.

[^39]:    * Figure does not meet standards of reliability or precision.
    --- Data not available.
    Percent of all live births by cesarean delivery.
    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.
    5 Excludes data for Puerto Rico, Virgin Islands, and Guam.
    NOTE: Data on method of delivery are not available for American Samoa.

[^40]:    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.
    5 Alabama does not report this risk factor
    Kansas does not report this risk factor.
    7 New Jersey does not report this complication.
    Texas does not report this complication.

[^41]:    See footnotes at end of table.

[^42]:    Quantity zero.
    0.0 Quantity more than zero but less than 0.05 .

    Equivalents of the gram weights in pounds and ounces are shown in the Technical notes.
    2 Expressed in completed weeks.
    3 Includes races other than white and black and origin not stated.
    4 Birthweight of less than 1,500 grams.
    5 Birthweight of less than 2,500 grams
    6 Persons of Hispanic origin may be of any race.

[^43]:    - 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 .)
    7 Data by Hispanic origin exclude New Hampshire, which did not report Hispanic origin.
    8 Data by Hispanic origin exclude New Hampshire and Oklahoma, which did not report Hispanic origin.
    9 Data by Hispanic origin exclude New Hampshire, Oklahoma, and Louisiana, which did not report Hispanic origin

[^44]:    - Quantity zero.

    Less than 2,500 grams.
    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.
    4 Includes all persons of Hispanic origin of any race.

[^45]:    * Figure does not meet standards of reliability or precision
    -- Data not available.
    1 Includes races other than white and black and origin not stated
    Includes all persons of Hispanic origin of any race.
    3 Excludes data for Puerto Rico, Virgin Islands, Guam, and American Samoa.

[^46]:    * Figure does not meet standards of reliability or precision.
    - Quantity zero.
    --- Data not available.
    1 Includes races other than white and black and origin not stated.
    Includes all persons of Hispanic origin of any race.
    Excludes data for Puerto Rico, Virgin Islands, Guam, and American Samoa.

[^47]:    Quantity zero.
    Figure does not meet standards of reliability or precision.
    Includes races other than white and black and origin not stated.
    Includes all persons of Hispanic origin of any race.
    Births in greater than twin deliveries.

