# Advance Report of Final Natality Statistics, 1994 

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#### Abstract

Objectives-This report presents 1994 data on U.S. births according to a wide variety of characteristics. Data are provided 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, 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, 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 nearly $4,000,000$ births that occurred in 1994 are presented and explained.

Results-Birth and fertility rates generally declined in 1994, particularly for teenagers and women in their twenties. Rates increased modestly for women 30 years and older. Measures of nonmarital childbearing rose $4-5$ percent. Smoking by pregnant women continued to decline and improvements in prenatal care utilization were reported. Rates for cesarean delivery continued to fall. However, measures of birth outcome, particularly the percents of low birthweight and preterm births, deteriorated or changed little. The proportions of multiple births, especially triplets, continued to increase sharply.

## Highlights

Births in the United States declined for the fourth consecutive year in 1994 by 1 percent, to $3,952,767$. This total is 5 percent lower than in 1990, the most recent high point $(4,158,212)$. The birth rate fell 2 percent to 15.2 births per 1,000 total population, the lowest rate since 1978. The fertility rate declined 1 percent to 66.7 births per 1,000 women aged 15-44 years; the 1994 rate was 6 percent lower than in 1990.

Birth rates for teenagers declined in 1994, to 37.6 per 1,000 women aged 15-17 years and 91.5 births per 1,000 women aged 18-19, both declines of 1 percent. Although these rates have declined 3 percent each in the 1990's, they are still as high or higher than they were more than 20 years ago. Recent declines in abortion rates as well as birth rates for teenagers indicate that the

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teenage pregnancy rate has fallen in the 1990's.

Birth rates for women in their twenties declined in 1994, to 111.1 per 1,000 women aged $20-24$ years and 113.9 per 1,000 women aged 25-29 years, both declines of 1 percent. These rates for women in the principal childbearing ages were each 5 percent lower than their recent high point in 1990.

Birth rates for women in their thirties increased to 81.5 per 1,000 women aged $30-34$ years and 33.7 per 1,000 for women aged $35-39$ years. The rate for women in their early thirties has changed very little since 1990, following a 31-percent rise during the 1980's. The long-term increase in the rate for women aged 35-39 years has also slowed, but the rate for these women is among the few to have risen steadily since 1990.

Birth rates for women in racial and Hispanic origin subgroups differ substantially. Rates were highest for Hispanic women, especially Mexican women, and for black women. Successively lower rates were reported for American Indian, Asian or Pacific Islander, and white women. Rates for teenaged women were highest for Mexican, Puerto Rican, and black women. Rates for women in their thirties were highest for Asian or Pacific Islander women, but were also high for Mexican and "other" Hispanic women. Agespecific rates declined in 1994 for women in most racial and Hispanic subgroups.

Measures of childbearing by unmarried women increased 4-5 percent in 1994. The birth rate per 1,000 unmarried women aged $15-44$ rose to 46.9. During the 5 -year period 1989-94, the rate rose 13 percent or about 2 percent annually, a much slower rate of increase compared with the previous 5 -year period ( 34 percent overall). The number of nonmarital births totaled $1,289,592$ in 1994, and 32.6 percent of all births were to unmarried women. Births to unmarried women comprised 25 percent of births to white women, 70 percent of births to black women, and 43 percent of Hispanic-origin births. Proportions for Asian or Pacific Islander women were generally lower, averaging 16 percent.

More than three-fourths of women who gave birth in 1994 had at least 12
years of schooling ( 77 percent) and 42 percent had one or more years of college. In general, white mothers had more education than black mothers but the disparity was limited to those aged 25 years and over. Educational attainment was generally highest among Asian or Pacific Islander mothers, and lowest for Hispanic mothers, but there were wide variations among racial and Hispanic subgroups.

Maternal weight gain during pregnancy has been shown to have an independent positive relationship with the weight of the newborn. As in previous years, almost two-thirds ( 64 percent) of women who gave birth in 1994 gained 26 pounds or more during pregnancy. The median weight gain was 30.4 pounds in 1994 and has been virtually unchanged over the last five years. Although the median has remained stable, the percent of mothers who gained less than 16 pounds increased between 1989 ( 9.4 percent) and 1994 ( 10.4 percent). The median weight gain for white women was almost 2 pounds more than for black women-30.6 compared with 28.7 pounds.

The most frequently reported medical risk factor, pregnancyassociated hypertension, rose for the third consecutive year to 32 per 1,000 births, an increase of 8 percent, the largest single year increase since 1989. Maternal diabetes was stable at 26 per 1,000 , but the anemia rate rose 7 percent to 20 per 1,000 . Rates for all other reported medical risk factors either increased or were stable.

Cigarette smoking during pregnancy declined again in 1994, for the fifth consecutive year, to 14.6 percent of mothers. Rates fell for white women to 15.6 percent and for black women to 11.4 percent. Smoking rates for women in most Asian or Pacific Islander and Hispanic origin subgroups were much lower, averaging 4 to 5 percent. Maternal smoking has a strong adverse effect on infant birthweight. In 1994, 12.3 percent of births to smokers weighed less than 2,500 grams compared with 6.7 percent of births to nonsmokers.

Eighty percent of mothers began prenatal care within the first trimester of pregnancy, for the third consecutive year
of increase. From 1979 to 1991 this level was static at 76 percent. The proportion of mothers with late or no care continued to decline, dropping to 4 percent. Prenatal care utilization improved among all age and racial and ethnic groups, with the largest increases among those with the least advantageous levels of care.

The rate for the most prevalent obstetric procedure, electronic fetal monitoring (EFM), rose for the fifth consecutive year to include 80 percent of all births. The use of ultrasound also increased by the same amount ( 2 percent), to 61 percent. Although less common than the former two procedures, induction of labor and stimulation of labor have become much more common in recent years, rising steadily from 9 and 11 percent, respectively, for 1989 to 15 percent for 1994.

Data on method of delivery show that the rate of cesarean delivery declined for the fifth consecutive year, and was 7 percent lower in 1994 ( 21.2 percent) than in 1989 ( 22.8 percent). The primary cesarean rate was also 7 percent lower in 1994 (14.9 first cesareans per 100 women who had no previous cesarean delivery) than in 1989 (16.1). The rate of vaginal birth following a previous cesarean delivery (VBAC) was 39 percent higher in 1994 (26.3) than in 1989 (18.9). Overall cesarean rates increase steadily with advancing age of mother and were twice as high in 1994 for mothers 40-49 years of age (31.5) as for teenagers (15.0). The percent of births delivered by forceps is declining ( 3.8 percent in 1994) while the use of vacuum extraction is on the rise ( 5.7 percent in 1994).

The percent of preterm infants was unchanged at 11 percent. The proportion of births of less than 37 completed weeks of gestation increased from 9.4 to 11.0 percent between 1981-93. Preterm births among black newborns fell to 18.1 percent, the lowest proportion in almost a decade, but among white infants the level rose by 2 percent, to 9.6 . Preterm rates were unchanged among American Indian and Hispanic births, but rose slightly for Asian or Pacific Islanders.

The incidence of low birthweight continued to climb, rising from 7.2 to 7.3 percent. The percent low birthweight
has risen from 6.8 percent since the mid1980's. Low birthweight improved among black mothers, dropping slightly between 1993 and 1994 to 13.2 percent, but rose among white mothers to 6.1 percent. There was no change in low birthweight among American Indian or Hispanic mothers, but levels increased among Asian or Pacific Islander infants.

The multiple birth ratio rose to 25.7 per 1,000 , an increase of 2 percent over the previous year, and 33 percent since 1980. The higher-order multiple birth ratio (primarily triplet births) jumped 12 percent, to 116.2 per 100,000 . This ratio has doubled since only 1987 and tripled since the early 1980's. There were 97,064 births in twin and 4, 233 births in triplet deliveries.

## Introduction

This report, the annual release of national birth statistics, presents detailed data on births, 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 affecting birth outcome such as weight gain, tobacco and alcohol use, and medical risk factors are useful in accounting for differences in birth outcome. 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.

Beginning with the 1989 data year, a large variety of new data on maternal and infant health characteristics has been available from birth certificates,
supplementing previously available data on demographic characteristics and more limited health information. Summaries of data on the new characteristics as well as summaries of data on the previously available topics were published in separate reports for 1989-91 (1-6). Beginning with the 1992 data year the annual reports were redesigned as a single report $(7,8)$. The focus of the redesigned report is to provide more detailed information on fertility trends and the demographic characteristics surrounding these trends and to describe the relationships of the new information on maternal lifestyle and medical risk factors and medical care utilization to various birth outcomes for a variety of population subgroups, including detailed racial and Hispanic origin groups.

## 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. Tables showing data by State also provide separate information for Puerto Rico, Virgin Islands, and Guam. Beginning with 1980 data, tabulations of births 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. Race and ethnicity differentials in birth rates and characteristics of births may reflect differences in income, educational levels, access to health care, and health insurance. Text references to black births and black mothers or white births and white mothers are used interchangeably. 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.

## Results and discussion

## Demographic characteristics

## Births and birth rates

The number of births in the United States dropped to $3,952,767$, in 1994,

1 percent below the 1993 total and 5 percent fewer than the recent high point, $1990(4,158,212)$ (table 1 and figure 1). Provisional data suggest that births continued to decline in 1995 by about 2 percent. The 5 -percent drop in births between 1990 and 1994 partly reverses the 11-percent rise reported from 1986 to 1990 ( 3.8 to 4.2 million). From 1980 to 1986, U.S. births were relatively stable at 3.6-3.8 million annually.

The birth rate in 1994 was 15.2 births per 1,000 total population, the lowest rate observed since 1978 (15.0). The 1994 rate was 2 percent lower than in 1993 (15.5), and 9 percent lower than in 1990 (16.7). Provisional data indicate a continued decline in the birth rate in 1995, by about 3 percent.

The fertility rate in 1994 was 66.7 births per 1,000 women aged 15-44 years, 1 percent lower than in 1993 (67.6) and 6 percent lower than in 1990 (70.9). According to provisional statistics, the fertility rate is expected to fall again in 1995, by about 2 percent.

Age of mother-Birth rates by age of mother fell 1 percent in each age group for women 15-29 years. Rates for women in their thirties rose 1 to 2 percent, while the rate for women aged 40-44 years increased 5 percent. Rates for the youngest teenagers, 10-14 years, and for women aged 45-49 years were unchanged. (See tables $2-7$ for births and birth rates by age of mother and live-birth order, by race and Hispanic origin.)

The birth rate for young teenagers $15-17$ years was 37.6 per 1,000 in 1994, 3 percent lower than in 1991 (38.7) when it was higher than in any year since 1972. Despite the 1-percent decline from 1993 to 1994, the rate for 15-17-year-olds was still as high as it was two decades earlier (table 4 and figure 2). Although this rate had declined 17 percent through the 1970's, it changed very little in the 1980-85 period. The rate for young teenagers then rose 27 percent in the 5 -year period, 1986-91.

The rate for older teenagers 18-19 years was 91.5 per 1,000 , also 1 percent lower than in 1993. This rate has fallen 3 percent in the 1992-94 period. Nevertheless, the rate in 1994 was higher than in any year from 1973 to 1990; the rate was 96.9 in 1972. The birth rate for older teenagers fell sharply in the 1970's


NOTE: Beginning with 1959, trend lines are based on registered live births; trend lines for 1930-59 are based on live births adjusted for underregistration.

Figure 1. Live births and fertility rates: United States, 1930-94


Figure 2. Birth rates by age of mother: United States, 1960-94
(29 percent from 1970 to 1979), and then was essentially unchanged until 1987 when it began a 20-percent increase that stopped in 1991-92.

Although the rate for teenagers 15-17 years declined slightly in 1994, the number of births to women in this age group rose 2 percent to 195,169 , the second annual increase of this size. This
increase is entirely a reflection of the 3-percent rise between 1993 and 1994 in the number of young women aged 15-17 years (9). Population projections show that the number of women aged 15-17 years will continue to rise over the next several years as the number of young girls aged 12-14 years gradually enter the age group $15-17$ years (10) . It is already
evident that the modest declines since 1991 in the birth rate for teenagers 15-17 years are insufficient to compensate for this population growth. Without larger declines in the birth rate, the number of births to these young women can be expected to continue to increase.

Although declines in the birth rate for older teenagers 18-19 years were similar to those for younger teenagers, the effect on the number of births was quite different. The number of teenagers 18-19 years rose about 1 percent in 1994 (9), essentially compensating for the 1-percent decline in the birth rate. As a result, the number of births to women aged 18-19 years was virtually the same in $1994(310,319)$ as in $1993(310,558)$. The population of older teenagers will also rise over the next several years, as the growing number of younger teenagers gradually enter the $18-19$-year age group (10). The birth rate for teenagers aged 18-19 years will have to decline further in order to keep the number of births from increasing again. If birth rates for both young and older teenagers remain at their 1994 levels in the year 2000, the number of births to women aged 15-19 years could rise to about $570,000,13$ percent higher than the 1994 total, because of the projected increases in the teenage population.

Birth rates for women in their twenties, the principal childbearing ages, dropped 1 percent in 1994. The rate for women aged $20-24$ years was 111.1 per $1,000,5$ percent lower than its recent high point, 116.5, in 1990. The rate for women aged 25-29 years was 113.9 , also 5 percent lower than in 1990 (120.2). From the mid 1970's to the mid 1980's, rates for women in their twenties were relatively stable. Rates for these women did rise in the late 1980's. However, the increases were relatively small (8-9 percent) compared with those for teenagers and women in age groups 30-44 years (15-34 percent).

The birth rate for women aged 30-34 rose just 1 percent in 1994 , to 81.5 per 1,000 . This rate changed very little each year between 1990 and 1994, in sharp contrast to the 31-percent rise between 1980 and 1990 ( 61.9 to 80.8 per 1,000 ). Despite the small increase in the rate in 1994, the number of births to women aged $30-34$ reached a record high of

906,498 , overcoming a decline in the number of women in this age group (9). In the coming years, the number of women aged $30-34$ will continue to fall (10). It is likely therefore that the number of births in this age group will stabilize and begin to fall unless there are offsetting increases in their birth rate.

The birth rate for women in their late thirties rose again in 1994, by 2 percent, to 33.7 per 1,000 . The 1994 rate was 70 percent higher than in 1980 (19.8). Although the pace of increase in this rate has slowed considerably in the 1990's, still the rate for women aged 35-39 years is among the few that have risen steadily since 1990. Reflecting increases of 2 percent each in the number of women aged 35-39 years (9) and in the birth rate, the number of births to these women reached a record high, 371,608, in 1994.

The birth rate for women in their early forties has risen steadily for a decade. The rate in 1994 was 6.4 births per 1,000 women aged 40-44 years, compared with 3.9 in 1984. The number of women in this age group has continued to rise in recent years, 3 percent from 1993 to 1994 , and 12 percent from 1990 to $1994(9,11)$. The increases in the rate and the number of women have resulted in dramatic increases in the number of births in this age group. The 1994 total, 63,502 , was 8 percent higher than in 1993, and the highest number since 1967 $(67,053)$.

The modest changes in birth rates in 1994 for teenagers likely reflect a combination of demographic and behavioral factors. The decline, although modest, in teenage birth rates appears to reflect in part recent changes in teenage sexual activity. The proportion of young teenagers in particular who have had sexual intercourse has stopped increasing (12). A growing proportion of those teenagers who are sexually active are using contraceptives, especially the condom (12).

It appears that the steady increases in the teenage pregnancy rate observed during that late 1980 's may have halted; the rate for women aged 15-19 years had increased 10 percent from 105 per 1,000 in 1986 to 115 in 1990 and 1991 (13). The pregnancy rate for 15-19-year-olds fell 3 percent between 1991 and 1992, to 111 per 1,000 , reflected in declines in both the birth and abortion rates;
additional declines in the teenage pregnancy rate are indicated for 1993 based on the continued declines in the birth rate and preliminary abortion data $(7,14,15$, and 16).

The rapid pace of increase in birth rates reported for women in their thirties in the late 1970's through $1990(5,17)$ has slowed considerably, especially for women aged 30-34 years. This recent moderation likely reflects several factors. Levels of childlessness among women in their thirties have stopped increasing. The proportion of women aged 35 years at the end of 1994 who were childless was about 20 percent, essentially unchanged since 1990, although much higher than in the early 1970's (10 percent) (18).

Moreover, the proportion of currently married childless women in their early thirties who report that they expect to have at least one child has declined since 1990 (19). It may be that this decline reflects increased recognition of possible fertility impairments which will likely limit the realization of their expectations. About one-third of currently married childless women aged 35-44 years have impaired fertility according to the 1988 National Survey of Family Growth (20). In addition, the proportion of women in their thirties who are not currently married has continued to increase; these women have lower birth expectations than their married counterparts $(19,21)$. The combination of declining proportions married and declines in birth expectations among the currently married are both likely factors in the recent moderation in birth rate increases for women in their thirties.

Birth and population patterns described here and in recent reports $(5-8,10)$ suggest that total births will continue to fall over the next several years, resulting from declining or stable birth rates and declining numbers of women in age groups $20-34$ years, the ages when more than three-quarters of births occur. Any increases in the total number of births in the near future will depend on appreciable increases in birth rates for these women which more than offset the declines in the number of women.

Live-birth order-Birth rates declined by 2 to 3 percent for second, third, and fourth order births in 1994, while
rates for first and fifth and higher-order births did not change (table 5). Although the first birth rate was unchanged at 27.5 per 1,000 women aged $15-44$ years, this rate was 5 percent below its most recent high point in 1990 (29.0). Between 1990 and 1994, rates for second through fifth order births dropped 6-9 percent.

The stability in the overall first birth rate results from compensating changes in first birth rates by age. (See table 3 for 1994 rates.) Rates increased 1 to 2 percent for women in age groups $15-17$ and 18-19 years and 3 percent for women aged 30-34 and 35-39 years. The rate for women aged 40-44 years also increased. However, the first birth rates were essentially unchanged for women in their twenties, the ages at which more than half of first births occur. Increases in first birth rates for women in their thirties continue a pattern observed since the mid 1970's, although the pace of increase has slowed in recent years (17).

The first birth rate for teenagers 15-17 years increased 1 percent in 1994, and 3 percent between 1992 and 1994, reversing the 3-percent drop in the rate from 1991 to 1992. The rate in 1994, 32.8 , is nearly as high as it was in 1991, its recent peak. The rate for older teenagers rose 2 percent in 1994, to 65.6, higher than at any time since 1973 (67.5). These rates for teenagers are of concern because they indicate a renewed increase in the proportion of young women who have become mothers for the first time. On the other hand, there were considerable declines between 1993 and 1994 in second and third birth rates for teenagers. Second order birth rates fell 9 percent for ages 15-17 years and 5 percent for ages 18-19 years. In other words, rates of repeat childbearing fell for teenagers.

Second order birth rates fell by 1 percent for women aged $20-24$ and 25-29 years, while they increased $1-3$ percent for women aged 30-34 and 35-39 years. Third and fourth birth rates generally fell for women under 35 years; these rates increased 3 percent each for women 35-39 years of age.

Race-The number of births declined 1 percent for white women and 3 percent for black and American Indian women. Births rose 3 percent for Asian or Pacific Islander (API) women. Birth rates per 1,000 total population declined in all
racial groups, by 1 to 2 percent for the white and API populations and by 4 to 5 percent for the black and American Indian populations. Fertility rates per 1,000 women aged $15-44$ years were also lower in 1994 for white women (1 percent) and for black and American Indian women ( 3 to 4 percent). The rate for API women rose slightly. (See tables 1-4 and 8 for national and State data.)

Fertility rates for each racial group in 1994 were $4-11$ percent lower than in 1990, declines that are generally mirrored in comparable reductions in births in 1994 compared with 1990. The single exception is the number of API births, which rose 11 percent from 1990 to 1994, despite the 4-percent drop in the fertility rate. The number of births rose because the number of API women in the childbearing ages (15-44 years) rose 16 percent during this period $(9,11)$

The fertility rate for white women declined 1 percent because the birth rate for married white women fell 3 percent, to an all-time low of 85.0 per 1,000 . The rate for unmarried white women did increase 7 percent, but this was not enough to make up for the decline in marital fertility among white women, which fell 10 percent between 1990 and 1994. The 4-percent drop in the fertility rate for black women reflects a substantial decline ( 9 percent) in marital fertility to an all-time low of 66.9 per 1,000 , as well as a smaller decline ( 2 percent) in nonmarital fertility.

Birth rates by age differ substantially for white, black, American Indian, and API women (table 3). Up to age 25 years, black and American Indian women have the highest rates, with rates much lower for white and API teenagers and women in their early twenties. For example, the 1994 rates for black and American Indian teenagers 18-19 years (130-148 per 1,000 ) were 59 to 236 percent higher than for white and API women of the same age (44-82 per 1,000 ).

Rates by race are most similar at ages 25-29, with a range of 104 (black and American Indian) to 116-119 (white and API). Beginning at ages 30 and older, the pattern noted for the youngest mothers is reversed. Rates are highest for white and API women. The rate for API women aged 30-34, for example, was

60-72 percent higher than the rates for black and American Indian women of the same age.

The high birth rates for white and API women in their thirties, especially for first births, indicate that the making up of previously postponed childbearing continues to be an important trend. First birth rates for API women aged 30-34 and $35-39$ years rose 5 and 6 percent, respectively, in 1994, to levels higher than for any other racial group. A previous report showed substantial variability in birth patterns by age for API subgroups (Chinese, Japanese, Hawaiian, and Filipino) (22). Evidence of considerable variability in birth patterns for several additional API subgroups (Asian Indian, Korean, Vietnamese, Guamanian, and Samoan) has recently been reported (23); in this report, data for these subgroups are included in the "other" API category. Unfortunately, birth rates for API subgroups can only be computed in census years when the necessary populations are available. The 1990-based study indicated that delayed childbearing was particularly evident among Chinese and Japanese women (22).

Rates declined up to 4 percent for black and American Indian teenagers and increased up to 1 percent for white teenagers and up to 2 percent for API teenagers. Rates for women in their twenties declined much more for black and American Indian women than for their white and API peers. At ages 30-34 and $35-39$ years, rates declined up to 3 percent for black and American Indian women, while they rose up to 3 percent for white and API women.

Hispanic origin-The fertility rate of Hispanic women as a group declined 1 percent in 1994 to 105.6 per 1,000 . Rates for Mexican and Cuban women increased 1 percent, while rates for Puerto Rican and "other" Hispanic women declined 1 and 7 percent, respectively. The rate for Mexican women, 115.4 in 1994, continues to be the highest among the racial and ethnic groups for whom fertility patterns can be reliably computed. The rates for other Hispanic subgroups were 81.9 for Puerto Rican, 55.9 for Cuban, and 97.7 for "other" Hispanic. (See tables 6, 7, and 9 for births and birth rates.)

In general, birth rates by age for Hispanic women as a group and for Mexican women are higher than for either non-Hispanic white or black women. One exception is the rate for young teenagers 15-17 years; the rate for non-Hispanic black teenagers was slightly higher than for Mexican teenagers of the same age. Rates for Puerto Rican teenagers were slightly lower than those for Mexican teenagers.

The disparity in the fertility of Hispanic and non-Hispanic black women compared with the fertility of nonHispanic white women is greatest in the rates for teenagers. The rates for Hispanic and non-Hispanic black teenagers 15-19 years are 2.3 to 3.4 times the rates for non-Hispanic white teenagers (table A). The differential in rates declines with advancing maternal age through ages 35-39 years, but rates for Hispanic women in every age group 20-49 years exceed those for non-Hispanic white and black women.

Between 1993 and 1994, the rates for Mexican teenagers 15-17 and 18-19 years jumped 9 and 6 percent, respectively, faster than for any other major population subgroup. Rates for Mexican women in age groups 20-24 and 35-44 years rose up to 4 percent, while rates declined for women in age groups 25-34 and 45-49 years.

The fertility pattern of Mexican women is unique in that rates are high throughout the childbearing period. In contrast, the pattern of rates for Puerto Rican women is quite similar to that for non-Hispanic black women, with high fertility for women under age 30 years followed by much lower rates for women aged 30 years and over. The pattern of rates for Cuban women suggests a tendency to postpone childbearing, with very low rates for women under age 25 years and relatively high rates for women in their thirties.

Total fertility rate-The total fertility rate indicates the number of births that a hypothetical group of 1,000 women would have if they experienced during their childbearing years the age-specific birth rates observed in a given calendar year. This hypothetical measure shows the potential impact of current fertility levels on completed family size. The total

Table A. Birth rates by age and Hispanic origin of mother, and by race of mother for mothers of non-Hispanic origin: United States, 1994
[Rate per 1,000 women in specified group]

| Age of mother | Total | Hispanic | Non-Hispanic |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | White | Black |
| 15-44 years ${ }^{1}$. | 66.7 | 105.6 | 58.3 | 79.0 |
| 10-14 years. | 1.4 | 2.7 | 0.5 | 4.7 |
| 15-19 years. | 58.9 | 107.7 | 40.4 | 107.7 |
| 15-17 years | 37.6 | 74.0 | 22.8 | 78.6 |
| 18-19 years | 91.5 | 158.0 | 67.4 | 152.9 |
| 20-24 years. | 111.1 | 188.2 | 90.9 | 150.3 |
| 25-29 years. | 113.9 | 153.2 | 107.9 | 107.0 |
| 30-34 years. | 81.5 | 95.4 | 80.7 | 67.5 |
| 35-39 years. | 33.7 | 44.3 | 32.1 | 29.5 |
| 40-44 years. | 6.4 | 10.7 | 5.7 | 6.0 |
| 45-49 years. | 0.3 | 0.6 | 0.2 | 0.3 |

${ }^{1}$ Rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.
fertility rate is age-adjusted because it is computed from age-specific birth rates; it assumes the same number of women in each age group.

The total fertility rate (TFR) in 1994 was $2,036.0$, slightly lower than in 1993 $(2,046.0)$ (table 4). The rate has fallen slowly but steadily since $1990(2,081.0)$. The TFR continued to fall in 1994 because birth rates by age declined for all women under age 30 years when birth rates are highest. Increases in birth rates for women aged 30 years and over were not sufficient to offset the declines in rates for younger women.

The TFR considered necessary for a given generation to exactly replace itself is 2,100 . The TFR in the United States has been below the "replacement" level since 1971 ( $2,266.5$ ). TFR's in 1994 were above replacement level for Mexican $(3,211.5)$, "other" Hispanic $(2,855.5)$, Puerto Rican ( $2,490.0$ ), and non-Hispanic black women ( $2,365.0$ ) (tables 10 and 11). The rate for American Indian women was close to replacement level $(2,080.0)$, but rates for Asian or Pacific Islander (API) (1,943.0), non-Hispanic white $(1,792.0)$, and Cuban women $(1,680.5)$ were much lower. TFR's increased up to 3 percent for Cuban, Mexican, and API women. Rates declined by up to 6 percent for "other" Hispanic, non-Hispanic black, American Indian, Puerto Rican, and non-Hispanic white women. The relative levels of the TFR's have been fairly stable since 1990 (5-8).

## Births by State

Birth data by race and Hispanic origin for 1994 are shown in tables 8 and

9 for the 50 States and the District of Columbia, and Puerto Rico, the Virgin Islands, and Guam. The American Indian, API, and Hispanic populations are highly concentrated geographically as reflected in these distributions of births by State. For example, more than half of American Indian births in the 50 States and the District of Columbia were reported by 5 States (Alaska, Arizona, California, New Mexico, and Oklahoma). Similarly, California, Hawaii, and New York accounted for more than half of API births.

Nearly 60 percent of all Hispanic births in the 50 States and the District of Columbia were to residents of California and Texas; three-quarters of Mexican births were to residents of these two States. More than half of Puerto Rican births outside of Puerto Rico were to residents of Florida, New Jersey, and New York. Two-thirds of Cuban births were to Florida residents.

Births declined in 1994 by up to 5 percent in 39 States and in Puerto Rico and the Virgin Islands; births to residents of the District of Columbia fell 7 percent. Increases of up to 3 percent were reported in 10 States and Guam; births in Nevada rose 7 percent.

The birth rate per 1,000 total population declined in 47 States and the District of Columbia by 1-5 percent. Rates increased in Arkansas, Nevada, and Utah by 1 percent each.

The fertility rate per 1,000 women aged 15-44 years declined up to 4 percent in 45 States and the District of Columbia. Rates increased up to 2 percent in Arkansas, Nevada, and New Jersey, and were unchanged in Arizona
and Utah. Birth and fertility rates are not available for Puerto Rico, the Virgin Islands, and Guam.

## Sex ratio

There were $2,022,589$ male live births in 1994 compared with $1,930,178$ female live births. These numbers yielded a sex ratio of 1,048 male per 1,000 female live births (table 10), similar to the sex ratio in $1993(1,050)$ and similar to ratios over the last 50 years. As in previous years, Asian or Pacific Islander mothers had the highest sex ratio $(1,064)$, followed by white mothers $(1,051)$, American Indian mothers (1,031), and black mothers $(1,028)$. The sex ratio for Hispanic mothers was 1,041 , intermediate between non-Hispanic white mothers $(1,054)$ and non-Hispanic black mothers $(1,028)$ (table 11).

## Month of birth

Monthly birth rates in 11 months of 1994 were below the rates for the same month observed in 1993. In 10 of the 12 months of 1994, monthly fertility rates were below the rates observed in 1993. The peak months of occurrence of births in 1994 were July and August (table 12). When the seasonal component is removed from the monthly birth and fertility rates, the underlying trends can be observed. Like the 4 previous years, seasonally adjusted birth and fertility rates for the first half of 1994 were, on average, higher than the rates for the second half of the year. Seven months had the lowest seasonally adjusted birth rates in 16 years, while October and December showed the lowest rates since 1977.

## Day of the week of birth

Since 1980 when these data were first tabulated, there has been a steady decline in births on Saturdays and Sundays, with a concomitant increase in births on weekdays. Variation in the daily pattern of births can be measured by an index of occurrence. The index is defined as the ratio of the average number of births for a particular day of the week to the average daily number of births for the
year, multiplied by 100. In 1994 the Sunday index was 76.1, an indication that there were 23.9 percent fewer births on Sundays than the daily average, considered to be 100.0. The Saturday index was 82.7. As in past years, births occurred most frequently on Tuesdays with an index of 112.0 in 1994.

A weekend deficit is apparent for both vaginal and cesarean deliveries, but is far larger for cesarean deliveries, particularly repeat cesareans (table 13). In 1994 the Sunday index for vaginal births was 81.6 , compared with 66.2 for primary, and 38.6 for repeat cesareans.

The growing concentration of births on weekdays in the early and mid 1980's has been attributed to the increasing rate of cesarean deliveries because many cesareans are scheduled on weekdays (24). However, in the late 1980's, the cesarean rate stabilized (25), and since 1989 it has declined. The more recent increase in the weekend deficit can be partly explained by the growing proportion of births that are induced, and the fact that labor is more likely to be induced on weekdays than on weekends.

## Births to unmarried women

The birth rate for unmarried women increased 4 percent in 1994, to 46.9 births per 1,000 unmarried women aged 15-44 years. Other measures of nonmarital birth rose as well. The number of births increased 4 percent to $1,289,592$, and the proportion of all births that occurred outside of marriage rose to 32.6 percent (tables B, 14, and 15).

The increases in nonmarital childbearing in 1994 were large compared with those in recent years, and to a great extent reflect improvements in the completeness of reporting of nonmarital births in two States, Michigan and Texas. Previous issues of this report and other NCHS publications have noted the underreporting of Texas' nonmarital births (7, 8, and 26). Briefly, both of these States had underreported the number of nonmarital births since 1989 because they did not include births for which paternity acknowledgment had been made in the nonmarital totals. The number of paternity acknowledgments has increased steadily in these States since the late 1980's. Beginning with 1994, Texas has a

Table B. Number, rate, and percent of births to unmarried women: United States, 1980 and 1985-94

| Year | Number | Rate $^{1}$ | Percent ${ }^{2}$ |
| :---: | :---: | :---: | :---: |
| 1994 | 1,289,592 | 46.9 | 32.6 |
| 1993 | 1,240,172 | 45.3 | 31.0 |
| 1992 . | 1,224,876 | 45.2 | 30.1 |
| 1991 | 1,213,769 | 45.2 | 29.5 |
| 1990 | 1,165,384 | 43.8 | 28.0 |
| 1989 | 1,094,169 | 41.6 | 27.1 |
| 1988 | 1,005,299 | 38.5 | 25.7 |
| 1987 | 933,013 | 36.0 | 24.5 |
| 1986 | 878,477 | 34.2 | 23.4 |
| 1985 | 828,174 | 32.8 | 22.0 |
| 1980 . . . | 665,747 | 29.4 | 18.4 |

${ }^{1}$ Births to unmarried women per 1,000 unmarried women aged 15-44 years.
${ }^{2}$ Percent of all births to unmarried women.
separate direct question on the birth certificate asking for the mother's marital status, so that data are no longer affected by the presence or absence of a paternity affidavit. Michigan's nonmarital birth data continue to be inferred on the basis of related information on the birth certificate because there is no direct marital status question, but the presence of a paternity acknowledgment is now taken into account in the coding process as an indicator of a nonmarital birth. These reporting changes are described in more detail in the Technical notes.

Although it is not possible to compute birth rates for unmarried women for a reporting area which includes all States except Michigan and Texas because State populations by marital status are not available, it is possible to compare the trends in the numbers and proportions of nonmarital births for such a reporting area. The number of nonmarital births in this reporting area declined very slightly between 1993 and 1994, while increasing 4 percent for the United States as a whole. Similarly, the proportion of all births to unmarried women in this reporting area rose just 1 percent compared with a 5-percent increase in the total United States. Thus, virtually all of the increases in the number and proportion of nonmarital births in the United States are due to the changes in reporting by Michigan and Texas.

Although the annual changes in nonmarital births were somewhat understated for the 1989-93 period in previous reports, and the increase from 1993 to 1994 is relatively large, the overall trend from 1989 to 1994 has been affected much less by these changes in reporting
practices. That is, the increase in nonmarital births has slowed considerably in recent years. This can be seen clearly if the change from 1984 to 1989 , when nonmarital childbearing increased dramatically, is compared with the change between 1989 and 1994; statistics for 1989 and 1994 are believed to represent fairly accurately the incidence of nonmarital births, although data for the intervening years are not complete. For example, the nonmarital birth rate increased 34 percent between 1984 and 1989, or about 6 percent per year. Over the ensuing 5 -year period 1989-94, the rate increased 13 percent overall, or just about 2 percent annually.

Birth rates for unmarried white and Hispanic women increased 6 to 7 percent in 1994 , to 38.3 and 101.2 per 1,000 , respectively. The rate for black women declined 2 percent to 82.1. The nonmarital birth rate for black women was 4.5 times the rate for white women in 1980; by 1994, the differential had declined to 2.1 . This change is due entirely to the 112-percent rise in the rate for white women, while the rate for black women increased just 1 percent.

For unmarried white women, the increase in the birth rate between 1984 and 1989 was 47 percent, or about 8 percent annually, compared with 27 percent overall during 1989-94, or 5 percent per year. Among black women, the rate rose 21 percent during 1984-89, less than 4 percent per year, and then declined 9 percent from 1989 to 1994, or about 2 percent annually. The change in reporting practices in Texas also affected the rate for unmarried Hispanic women, which increased to 101.2 in 1994
compared with 89.6 in 1990, the first year for which this rate is available (26); 14 percent of U.S. Hispanic births to unmarried women were to Texas residents in 1994.

Increases in birth rates to unmarried women by age over the 5 -year period 1989-94 were also relatively modest compared with increases in the 1984-89 period. During 1989-94, they amounted to $11-38$ percent, compared with 31-50 percent in the previous 5 years (figure 3 ).

Rates by age rose $25-48$ percent for white women during 1989-94, compared with $41-60$ percent during the previous period. Increases for white women in recent years were largest for women aged $18-19$ and $40-44$ years. For black women during the 1989-94 period, rates declined $3-9$ percent for women in age groups $15-17$ and $20-34$ years and increased for women 35-44 years. In the 1984-89 period, all age-specific rates for black women had increased, by 16-38 percent.

Regardless of the changes in recent years in rates by age and race, the relative levels of unmarried childbearing have remained fairly stable. That is, in 1994, as in previous years, the rates were highest for women aged 18-19 and $20-24$ years ( 70 and 72 per 1,000 in 1994, respectively) followed by women aged $25-29$ years ( 59 per 1,000). Rates were much lower for women aged 15-17 and $30-34$ years ( $32-40$ per 1,000 ).

One factor accounting for the recent increases in rates for unmarried white women is the relatively high rate for Hispanic women and the growing proportion of births to Hispanic women. Race and Hispanic origin are reported independently on the birth certificate; 91 percent of Hispanic women were reported as white in 1994 (9). Since about one-fifth of births to white women are to Hispanic women, the high rates for Hispanic women would be expected to affect the overall white rate. In fact, the nonmarital birth rate for non-Hispanic white women in 1994 was 30.4, 21 percent lower than the overall rate for white women, 38.3 (table C). A similar difference is observed for rates for women in age groups 18-44 years.

Although the overall nonmarital birth rate for Hispanic women was 23 percent higher than for black women in 1994


Figure 3. Birth rates for unmarried women, by age of mother: United States, 1980-94

Table C. Birth rates for unmarried women by age and Hispanic origin and race of mother: United States, 1994
[Rate per 1,000 unmarried women in specified group]

| Age of mother | Total | Hispanic | White |  | Black |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | Non-Hispanic |  |
| 15-44 years ${ }^{1}$ | 46.9 | 101.2 | 38.3 | 30.4 | 82.1 |
| 15-19 years | 46.4 | 82.6 | 36.2 | 35.5 | 100.9 |
| 15-17 years | 32.0 | 59.0 | 24.1 | 26.9 | 75.1 |
| 18-19 years | 70.1 | 123.6 | 56.4 | 45.0 | 141.6 |
| 20-24 years | 72.2 | 154.8 | 58.1 | 43.8 | 138.1 |
| 25-29 years | 59.0 | 141.6 | 49.7 | 35.0 | 93.6 |
| 30-34 years | 40.1 | 95.5 | 34.2 | 24.9 | 57.2 |
| 35-39 years | 19.8 | 48.4 | 17.3 | 12.9 | 26.3 |
| 40-44 years ${ }^{2}$. | 4.7 | 14.0 | 4.3 | 3.1 | 5.9 |

${ }^{1}$ Rates computed by relating all births to unmarried women to unmarried women aged 15-44 years.
${ }^{2}$ Rates computed by relating all births to unmarried women aged 40 years and over to unmarried women aged 40-44 years.
(101.2 and 82.1, respectively), this difference is not replicated within each age group (table 14). Rates for black teenagers are higher than for Hispanic teenagers, but the pattern reverses for women aged 20 years and over. Rates for Hispanic women remain high throughout the childbearing ages while rates for black women decline considerably after ages 20-24 years. One factor contributing to the high Hispanic rates is the relatively high incidence of cohabitation among Hispanic couples (27). Evidence of this also comes from the birth certificate. For
example, 42 percent of Puerto Rican births in Puerto Rico were nonmarital in 1994 (table 16), but about three-quarters of these nonmarital births or 32 percent of all births were to women living with the father of the child. A number of studies have shown an increase in cohabitation among couples in the United States $(28,29)$.

The proportion of all births that were to unmarried women rose in 1994 to 32.6 percent. Twenty-five percent of white births, 70 percent of black births, and 43 percent of Hispanic births were
nonmarital. The proportion of nonmarital births is affected not only by the birth rate for unmarried women and the number of unmarried women, but also by the birth rate for married women. This rate, as noted in an earlier section (Births and birth rates), has fallen sharply in recent years to unprecedented low levels-83.8 per 1,000 in 1994, down 10 percent compared with 1990 (93.2). This rapid decline in marital fertility-measured for both white and black women-is the principal factor in the continued increase in the proportion of nonmarital births in the last few years. Although the proportion of nonmarital births (the nonmarital birth ratio) clearly has important analytic limitations, it is often the only measure that is available in addition to the number of births, because the population data needed to compute rates are available only in census years for States and cities.

The proportions of nonmarital births vary widely by race and Hispanic origin (tables 10 and 11). At least 41 percent of births to American Indian, Hawaiian, Mexican, Puerto Rican, Central and South American, and non-Hispanic black women were nonmarital in 1994 (range of 41-71 percent). Proportions were lowest for Chinese and Japanese births (7-11 percent). The range for other groups was 16-23 percent (Filipino, "other" Asian, Cuban, and non-Hispanic white). As these figures indicate, there is wide variability in the proportions for API and Hispanic subgroups.

Over the next several years, the principal area of population change will be an increase in the number of teenagers while the number of women in their thirties starts to decline (10). Thus the number of unmarried women can be expected to grow faster because the overwhelming majority of teenagers are unmarried. This population growth in turn will likely contribute to further increases in nonmarital births unless birth rates for unmarried women begin to fall.

The numbers and proportions of births to unmarried women by race are shown in table 16 for the 50 States and the District of Columbia, Puerto Rico, Virgin Islands, and Guam. The proportions by State in 1994 increased in all but nine States. The proportions declined in Georgia, Montana, North Carolina, Ohio, Tennessee, and Washington, and did not
change in Idaho and North and South Dakota. As already noted, numbers and proportions increased substantially in Michigan and Texas. The percent of nonmarital births rose to 29 percent in Texas and to 35 percent in Michigan.

## Age of father

The birth rate per 1,000 men aged 15-54 years declined again in 1994, by 2 percent, to 53.2 (table 17). This rate fell by 9 percent between 1990 and 1994, following a 7 -percent increase during 1986-90.

Rates declined by 2 percent or less for men in age groups 25-39 years. The rate for men aged 15-19 years rose 1 percent. The rates for men aged 40 years and over are the lowest by age and either did not change or declined. Between 1986 and 1991, the rate for teenaged men had increased 39 percent and has now risen again in both 1993 and 1994. Increases for men aged 20-54 years were observed from 1986 through 1990 only, and were considerably smaller than for teenagers. Although 16 percent of the records do not have the father's age reported in 1994, these records are distributed before rates are computed in a way to reduce bias in rates by age (see Technical notes).

Birth rates declined by 2 percent for white men, to 50.0 per 1,000 , and by 4 percent for black men, to 74.9. Patterns by age for white men showed declines for ages 25-29 and 45-49 years. Birth rates by age for black men declined for all age groups ranging from 2 percent (20-24 years) to 15 percent ( 55 years and over).

## Educational attainment

The educational attainment of women who give birth is important because higher educational attainment is associated with more timely receipt of prenatal care and fewer lifestyle and health behaviors during pregnancy that are detrimental to birth outcome (discussed in later sections). Data from the birth certificate show that the educational attainment of mothers has increased substantially over the last few decades, partly reflecting the increases in educational attainment of all women during the time period (30). More than three-fourths of women who gave birth in 1994 had at least 12 years of schooling ( 77 percent)
and 42 percent had at least some college (table 18). The percent of mothers with at least a high school diploma increased with additional age, to about 90 percent for women who gave birth in their thirties, and then declined slightly for mothers 40 years of age and over ( 86 percent). The median educational attainment for all mothers in 1994 was 12.8 years.

In general, white mothers had more education than black mothers- 78 percent of white mothers had at least a high school diploma compared with 71 percent of black mothers; 44 percent of white mothers had at least some college compared with 30 percent of black mothers. However, the higher educational attainment for white than black mothers was limited to those 25 years of age and over. There was almost no difference by race in the percent of teenaged mothers with at least a high school diploma, and a slightly higher proportion of black than white mothers 20-24 years of age had attained this educational level.

Only two-thirds of American Indian mothers had 12 or more years of schooling, the lowest of any racial group, while more than 80 percent of all Asian or Pacific Islander (API) subgroups except for "other" API had attained this educational level (table 10). In particular, nearly all of Japanese mothers ( 97 percent) had 12 or more years of schooling. The proportion of Hispanic mothers with at least a high school education was low (47 percent) but there was tremendous variation among Hispanic subgroups, ranging from 41 percent of Mexican mothers to 85 percent of Cuban mothers (table 11). The low educational attainment of Hispanic mothers in general and the variation among subgroups parallels the educational attainment of the Hispanic population in general (31).

## Maternal lifestyle and health characteristics

## Maternal 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 (32). The total weight gained by the mother during pregnancy has been shown to have an independent, positive relationship with the weight of the newborn (33). Inadequate maternal weight gain along
with low prepregnancy weight and smoking during pregnancy have been shown to be critical factors in intrauterine growth retardation and low birthweight (34, 35).

In 1990 the National Academy of Sciences published weight-gain guidelines that varied according to the 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 (36).

Beginning with 1989 , information on maternal weight gain was collected from the birth certificate, but information on the mother's prepregnancy weight and height is not collected. 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 height and prepregnancy weight. Given the limitations of vital statistics data, the primary focus of this section is on the median weight gain (for descriptive purposes) and on weight gains that are for most women considered inadequate regardless of prepregnancy weight and height (less than 16 pounds).

In 1994 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. As in previous years, in 1994 almost two-thirds (64 percent) of women who gave birth gained 26 pounds or more during pregnancy (table 19). The median weight gain was 30.4 pounds in 1994 and has been virtually unchanged since 1989. Although the median has remained stable, the percent of mothers who gained minimally (less than 16 pounds) was higher in 1994 ( 10.4 percent) than in 1989 ( 9.4 percent).

The weight gain of the mother varied considerably by period of gestation. Mothers who had preterm infants (gestations of under 37 completed weeks) gained 4 pounds less during pregnancy
(26.8 pounds) than mothers who had babies with gestations of 40 weeks and over ( 30.8 pounds). The percent of mothers who gained less than 16 pounds was twice as high for gestations of under 37 weeks than for gestations of 40 weeks and over- 17.9 compared with 8.9 percent.

Overall, white women gained almost two pounds more during pregnancy than black women- 30.6 compared with 28.7 pounds. For gestations of under 37 weeks, the median weight gain for white women was 3.3 pounds heavier than for black women but declined to less than a pound for longer gestational periods. Overall, the percent of black mothers who had weight gains of less than 16 pounds ( 16.5 percent) was much higher than for white mothers (9.1 percent) while American Indian mothers were intermediate ( 13.8 percent) (table 23). In general, the percent of Asian or Pacific Islander (API) mothers who gained less than 16 pounds ( 9.4 percent) was very similar to that of white mothers but all API subgroups had a lower proportion with the exception of "other" API mothers (10.9 percent).

The median weight gain for Hispanic mothers ( 29.6 pounds) was intermediate between non-Hispanic white mothers (30.7 pounds) and non-Hispanic black mothers ( 28.7 pounds) (table 21). However, the weight gained by Hispanic mothers and non-Hispanic black mothers was virtually the same for gestation periods of 37 weeks or longer. Within Hispanic subgroups, Cuban mothers gained the most weight ( 30.9 pounds) while Mexican mothers gained the least ( 28.5 pounds) and this relationship was evident within each gestational period. The percent of mothers who gained less than 16 pounds was lowest for Cuban mothers ( 7.4 percent) and highest for Mexican mothers (13.4 percent) (table 24).

As mentioned above, maternal weight gain has been shown to have a positive correlation with the birthweight of the infant. This relationship is substantiated by the data in table 20 that shows the percent of infants with low birthweight by the weight gain of the mother. Overall, the percent of infants with low birthweight drops steadily with increasing weight gain through 35
pounds and then levels off with higher weight gains. About 15 percent of infants whose mothers gained less than 16 pounds were low birthweight compared with 5 percent of those whose mothers gained 31-35 pounds. The percent of infants with low birthweight ranged between 4 and 5 percent for mothers who gained more than 35 pounds. The relationship between maternal weight gain and low birthweight was evident for both white and black mothers regardless of gestational period. The decline in low birthweight with additional maternal weight gain was also present for each Hispanic subgroup (table 22).

## Medical risk factors

Medical risk factors can severely complicate pregnancy, particularly when not adequately treated. For example, the hypertensive disorders (preeclampsia and pregnancy-associated and chronic hypertension) have been tied to inadequate birthweight, shortened gestations, and infant death; diabetes has been associated with cesarean delivery, hyaline membrane disease/respiratory distress syndrome, and congenital malformations (37-39).

Sixteen diverse risk factors affecting the pregnancy are identified on the birth certificate. Despite the fairly small proportion of certificates for which the presence or absence of risk factors was not stated (1.3 percent for 1994), birth certificate data may underreport medical risk factor prevalence (40). It is also important to note that rates for some smaller population groups and for less common factors can vary widely from year to year and should be used with caution.

Between 1993 and 1994 no substantive declines in medical risk factor rates were observed; rates for all reported medical risk factors either increased or were essentially stable. (See table 25 for current year data.)

Pregnancy-associated hypertension, the most frequently reported risk factor, increased for the third consecutive year, rising by 8 percent from 29.7 to 32.2 per 1,000 , the largest single-year increase since these data first became available (1989). Increases were noted among all age groups. The rate of chronic hypertension was unchanged but that of
eclampsia, a potentially serious hypertensive condition related to pregnancyassociated hypertension, rose slightly from 3.3 to 3.5 per 1,000 between 1993 and 1994. The eclampsia rate had been declining since 1989.

Diabetes and anemia are the second and third most frequently reported maternal medical risk factors. Following several years of increase, the diabetes rate was basically stable at 25.5 per 1,000 for 1994. The maternal anemia rate, which had been quite stable, increased by 7 percent between 1993 and 1994, rising from 18.7 to 20.0 per 1,000 .

The prevalence of maternal acute or chronic lung disease (e.g., asthma, tuberculosis) and hydramnios/oligohydramnios (the excess or shortage of amniotic fluid) rose by 19 and 11 percent, respectively, between 1993 and 1994. Rates for both factors have risen steadily since 1989 with increases most pronounced among mothers under 25 years of age.

Rates for most medical risk factors vary widely by age of mother. For example, anemia is most common among teenaged mothers, whereas chronic conditions such as cardiac disease and diabetes occur more frequently among mothers 30 years of age and over. For other risk factors, such as eclampsia and pregnancy-associated hypertension, rates are highest at both extremes of the age distribution.

Medical risk factor rates also often differ by race or ethnicity. In order of frequency, the most common risk factors among white mothers are pregnancyassociated hypertension, diabetes, and anemia, whereas among black mothers anemia, pregnancy-associated hypertension, and diabetes are the first, second, and third most commonly reported factors. In general, the overall trends and differences for 1993-94 in medical risk factor rates discussed above were applicable for both black and white mothers.

Anemia and pregnancy-associated hypertension rates also rose for Asian or Pacific Islanders (table 26) and Hispanics (table 27) overall, and among each of the respective subgroups. Overall diabetes rates and those for most subgroups were stable.

Among American Indian mothers the anemia rate declined from a high of 63.3 reported for 1993 to 58.9 for 1994. The
diabetes rate was essentially unchanged, and the rate of pregnancy-associated hypertension rose slightly between 1993 and 1994. Levels of these conditions continue to be higher among American Indian mothers than among those of any other racial/ethnic groups (table 26).

## Tobacco use during pregnancy

Smoking during pregnancy was reported by 14.6 percent of women who gave birth in 1994, down 8 percent from 1993 (15.8 percent). Reported tobacco use during pregnancy has fallen about 25 percent since questions on maternal smoking were first added to the birth certificate in 1989, when the smoking rate was 19.5 percent. Items on tobacco use were included on the birth certificates of 46 States, the District of Columbia, and New York City in 1994 (tables 23, 24, and 28-31). This reporting area, which excluded California, Indiana, South Dakota, and the remainder of New York, accounted for 79 percent of U.S. births in 1994.

The decline in smoking by pregnant women is generally consistent with recent trends in smoking by all women in the childbearing ages. Smoking rates for all women are somewhat higher than for pregnant women, but changed little during 1990-92 after declining in the late 1980's (41).

Tobacco use during pregnancy has been repeatedly associated with a variety of adverse birth outcomes, including low birthweight and intrauterine growth retardation, infant morbidity and infant mortality (including sudden infant death syndrome) (42-45). Tobacco use adversely affects pregnancy and birth outcome by facilitating the passage of substances such as nicotine, hydrogen cyanide, and carbon monoxide from the placenta into the fetal blood supply, thus restricting the growing infant's access to oxygen (43, 46). Additionally, cigarette smoking has been linked to adverse consequences for child health and development, including, for example, higher rates of upper respiratory and ear infections and asthma; some negative consequences were found even among children born to mothers who stopped smoking early in pregnancy $(45,47)$.

Declines in smoking rates were reported for both white and black women
in 1994, to 15.6 percent of white mothers and 11.4 percent of black mothers. During the 1989-94 period, maternal smoking fell steadily, by 24 percent for white mothers and 33 percent for black mothers.

Maternal smoking continues to be very uncommon for Asian or Pacific Islander (API) (3.6 percent) and Hispanic (4.6 percent) mothers (tables 23, 24, and 29). Higher smoking rates were reported for American Indian mothers ( 21.0 percent). All smoking rates for 1994 were lower than reported for 1993.

Data on smoking for API and Hispanic women have been somewhat limited because the information has not been reported by California and New York, which together account for nearly half of all births to these women. However, in 1994, completeness of coverage improved for at least some API and Hispanic subgroups, especially Chinese, Puerto Rican, and Central and South American, because New York City began reporting tobacco use. In 1994, at least half and up to 95 percent of Chinese, Puerto Rican, and Central and South American births were to residents of the reporting area. Low smoking rates derived from birth certificate data for API and Hispanic women have also been confirmed by other studies (48).

The much lower smoking rates of Hispanic women as a group are an important factor in helping to reduce the overall smoking rate for white women. In 1994, 91 percent of Hispanic women were reported as white (9). The smoking rate for non-Hispanic white women (17.7 percent) is substantially higher than for most other racial and ethnic groups.

In 1994 the rate for non-Hispanic white mothers was highest for older teenagers 18-19 years ( 29 percent) and then fell steadily with advancing maternal age to 11 percent of mothers in their forties (table 29 and figure 4). In contrast, rates for non-Hispanic black mothers were very low among those under age 20 years (6 percent or less) and then rose sharply to 19 percent of mothers aged 35-39 before declining for mothers in their forties. In contrast to these variations by age, maternal smoking rates for Hispanic women were quite low for all ages.

During the 1989-94 period, smoking rates fell 24-29 percent for mothers


Figure 4. Percent of mothers who smoked during pregnancy by age and race/Hispanic origin of mother: United States, 1994
under age 30 years and 10-22 percent for mothers aged 30 years and over. Declines between 1993 and 1994, however, were somewhat larger for mothers aged 25-29 and $30-34$ years ( 8 to 9 percent) compared with teenage mothers and mothers aged 35 years and over (declines of 3-6 percent).

Just as tobacco use during pregnancy has declined in recent years, likewise the average number of cigarettes smoked per day has fallen. Overall, the proportion of mothers smoking more than half a pack (10 cigarettes) per day was 36 percent in 1994, compared with 37 percent in 1993 and 42 percent in $1989(1,8)$. Declines in the number of cigarettes smoked were observed for white and black mothers, but as in past years, white mothers were much more likely to smoke more than half a pack, 39 percent compared with 21 percent. Young mothers, black and white, are less apt to smoke more than 10 cigarettes daily; the number of cigarettes smoked increases steadily with advancing maternal age (table 28).

Among the most consistent relationships is that between smoking during pregnancy and maternal education (table 30). In 1994, as in earlier years, mothers who have completed some high school but have not graduated had the highest smoking rate, 27 percent, followed by high school graduates, 18 percent, and mothers with a grade school education, 14 percent. Among mothers with some college, 11 percent were smokers, while just 3 percent of college graduates reported smoking. College
graduates who smoked also reported the lowest number of cigarettes smoked. Even among mothers aged 20 years and over, smoking rates were persistently highest for mothers who attended but did not complete high school (34 percent) (tabular data not shown).

Many studies over a long period of time have linked smoking during pregnancy with an elevated risk of low birthweight (42, 43, 49, and 50). Findings from birth certificate data continue to corroborate these findings. In 1994, 12.3 percent of births to smokers weighed less than 2,500 grams compared with 6.7 percent of births to nonsmokers (table 31). This differential by maternal smoking status of nearly two times has been observed since 1989 ( $1-3,7$, and 8 ). For both white and black infants, the smoker/nonsmoker differential in low birthweight (LBW) is also nearly two times.

Advancing maternal age is an additional risk for births to white and black mothers who smoke (50). In fact, the disparity in LBW by maternal smoking status tends to increase with increasing maternal age, peaking for births to mothers in their thirties before declining slightly. The elevated LBW risk for births to older mothers who smoke may be linked to the greater number of cigarettes smoked by these women, as noted earlier, in addition to the higher rates of LBW at each consumption level for births to older women.

Low birthweight levels are higher for all births to mothers who smoke,
regardless of the number of cigarettes smoked, compared with births to nonsmokers. Even babies born to mothers smoking fewer than 6 cigarettes per day were at 67 percent greater risk of LBW than babies born to nonsmokers (11.2 percent compared with 6.7 percent). The LBW risk for births to mothers smoking more than a pack a day was 32 percent greater than that for light smokers ( 14.8 percent compared with 11.2 percent) and more than double the risk for nonsmokers.

It is evident that smokers and nonsmokers differ in important ways, including such characteristics as age and educational attainment. Nevertheless, as already indicated, the LBW rate for births to smokers is consistently higher than for nonsmokers in every age group. The overall impact of smoking on LBW can be approximated by estimating the risk of LBW attributable to maternal smoking, that is, the percent of attributable risk (42, 49, and 51). Approximately 11 percent of the incidence of LBW in 1994 was related to maternal smoking. That is, if no mothers had smoked during pregnancy and the levels of other risk factors were comparable, the LBW rate would have been about 6.4 percent rather than the 7.3 percent actually reported. This translates to approximately 33,000 fewer babies with LBW in 1994.

## Alcohol use during pregnancy

Pregnancy and birth outcome can be jeopardized by maternal alcohol use during pregnancy. The most severe adverse effect of excessive drinking is fetal alcohol syndrome (FAS), which is characterized by growth retardation, facial malformations, and disorders of the central nervous system, in particular mental retardation (52, 53). Even low to moderate alcohol use has been shown to negatively impact birth outcome, independent of other risk factors such as tobacco use and other maternal risk factors (52, 54, and 55).

Reported alcohol use declined again in 1994. Just 1.7 percent of mothers reported any alcohol use (table 32) compared with 2.1 percent in 1993 and 4.1 percent in 1989, the first year this information was reported on the birth certificates (1, 8). All States except California and South Dakota included items
on alcohol use on their birth certificates in 1994. This reporting area accounted for 85 percent of U.S. births.

Among mothers who reported alcohol use in 1994, a pattern of increased consumption was noted. Fiftythree percent of mothers in 1994 reported consuming 1 drink or less per week, compared with 55 percent in 1993 and 61 percent in $1989(1,8)$.

Alcohol use during pregnancy is clearly substantially underreported on the birth certificate (40). Numerous other studies based on personal interviews and self-administered questionnaires have reported rates of alcohol use during pregnancy ranging from 20 to 45 percent during the 1980's (56, 57). Moreover, a recently published study reported alcohol use by about half of women in the childbearing ages and by 15 percent of pregnant women (58). It is probable that the questions on alcohol use on the birth certificate have unintentionally affected the levels of reporting. These questions focus on the number of drinks per week, whereas other studies inquire about drinks per month. Women who drink relatively little, perhaps 1 to 2 drinks per month, may believe that their alcohol consumption is too little to report in response to the birth certificate questions. Also contributing to the underreporting, no doubt, is the stigma associated with alcohol use during pregnancy $(32,59)$.

Even taking into account the severe underreporting of alcohol use on the birth certificate, these data do show a distinct pattern of elevated risk of low birthweight (LBW) among births to mothers reporting alcohol use. Moreover, greater alcohol consumption is associated with higher LBW rates. In 1994, 14.8 percent of births to drinkers weighed less than 2,500 grams, compared with 7.3 percent of births to nondrinkers. The LBW rate for births to mothers consuming five drinks or more weekly was 2.6 times the rate for births to mothers consuming one drink or less ( 26 percent compared with 10 percent).

## Medical services utilization

## Prenatal care

For 1994, 80 percent of mothers began care in the first trimester of
pregnancy compared with 79 percent for 1993, and 78 percent for 1992. Following rapid improvement during the 1970's, levels of timely care held static during the 1980's at about 76 percent. The percent of mothers who delayed care until the third trimester or had no care at all also improved between 1993 and 1994 dropping to the lowest level ever reported, 4 percent. Despite these gains, nearly 800,000 women who gave birth in 1994 did not receive prenatal care in the first trimester. (See table 33 for 1994 data.)

Although the effects of prenatal care are difficult to measure $(60,61)$, early comprehensive care can promote healthier pregnancies by detecting and managing preexisting medical conditions, providing health behavior advice, and assessing the risk of pregnancy complications such as low birthweight and preterm birth (62). Prenatal care can be crucial to maternal health and can serve as a gateway into the health care system, especially for socially disadvantaged women (61).

Between 1993 and 1994 gains were made in first trimester care for mothers of all racial and ethnic groups, educational levels, and marital statuses, but slightly larger increases were observed among groups with less advantageous levels of care. Between 1993 and 1994, early care increased by 3 to 4 percent for teenaged mothers, unmarried mothers, mothers with less than a high school education, and for black and Hispanic mothers, compared with a 2-percent increase among all mothers.

The percent of white mothers receiving timely care rose slightly from 82 to 83 percent between 1993 and 1994, and the percent of mothers with late or no care remained at 4 percent. Throughout the 1980's these levels had changed little, hovering at about 79 and 4 to 5 percent, respectively (63).

Between 1993 and 1994 the percent of black mothers with first trimester care increased from 66 to 68 percent and the percent of mothers with a concurrent decline in late or no care went from 9 to 8 percent. Timely care among black mothers has improved markedly since 1989 (60 percent), after deteriorating slightly during the 1980's (table D) (63).

Although the black-white difference in prenatal care utilization has narrowed slightly as the result of larger gains among black mothers, it is still substantial ( 68 compared with 83 percent). This gap is reduced, however, with increasing education. For 1994, 95 percent of white compared with 91 percent of black college-educated married mothers received prenatal care in the first trimester (data not shown). Differences by race or ethnicity in "unintended" births (mistimed or unwanted) which are less likely to receive early care, may also contribute to the differential in prenatal care (56, 64).

Among Hispanic mothers, first trimester prenatal care increased from 67 to 69 percent and late or no care declined from 9 to 8 percent from the previous year. (See table 24 for 1994 data.) Since 1991, Hispanic prenatal care utilization has improved markedly; early care has risen from 61 and late or no care has fallen from 11 percent. Although the proportion of mothers who begin care early has risen among all subgroups with the largest gains occurring among groups with the lowest levels, broad subgroup differences persist. For example, for 1994, 90 percent of Cuban mothers compared with 67 percent of Mexican mothers began care in the first trimester of pregnancy.

The proportion of American Indian mothers with first trimester care increased from 63 to 65 percent and with late or no care remained at 10 percent between 1993 and 1994 (table 23 for 1994 data). Nonetheless, American Indian mothers continue to be less likely than mothers of any other racial or ethnic group to receive timely prenatal care, and to be the most likely to begin care in the final trimester or to receive no care at all.

Prenatal care utilization also improved among all Asian or Pacific Islander subgroups. Overall, the increase was from 78 to 80 percent. For 1994 more than 86 percent of Chinese and Japanese mothers began care in the first trimester, among the highest levels reported (table 23).

At least 10 prenatal visits are recommended for an uncomplicated term pregnancy of 37 completed weeks of gestation or more (65). For 1994 the

Table D. Percent of mothers beginning prenatal care in the first trimester by race of mother: United States, 1980 and 1985-94

|  | Year | All races ${ }^{1}$ | White | Black |
| :---: | :---: | :---: | :---: | :---: |
| 1994 |  | 80.2 | 82.8 | 68.3 |
| 1993 |  | 78.9 | 81.8 | 66.0 |
| 1992 |  | 77.7 | 80.8 | 63.9 |
| 1991 |  | 76.2 | 79.5 | 61.9 |
| 1990 |  | 75.8 | 79.2 | 60.6 |
| 1989 |  | 75.5 | 78.9 | 60.0 |
| 1988 |  | 75.9 | 79.3 | 60.7 |
| 1987 |  | 76.0 | 79.3 | 60.8 |
| 1986 |  | 75.9 | 79.1 | 61.2 |
| 1985 |  | 76.2 | 79.3 | 61.5 |
| 1980 |  | 76.3 | 79.2 | 62.4 |

${ }^{1}$ Includes races other than white and black.
median number of prenatal visits for all gestations, including complicated pregnancies, was 12.2 (table 35), unchanged from 1993. There has been only small movement in this measure since 1987 ( 12.0 visits). The median for white mothers was also unchanged at 12.3 visits. Among black mothers, however, the median number of visits rose from 10.6 to 10.9 between 1989 and 1993, and to 11.1 for 1994.

Timely care increased for nearly all States for both black and white mothers between 1993 and 1994, as it had for 1992-93. The few States for which early care receipt did not increase were unchanged or declined by less than 2 percent. (Only States with at least 1,000 births to black mothers are included in this analysis.) Decreases in the proportion of black and white mothers with late or no prenatal care were also reported for most States. (See table 34.)

## Obstetric procedures

The most prevalent obstetric procedure in 1994 was electronic fetal monitoring (EFM), reported for over 3.1 million births, or 80 percent of all live births (table 36). EFM usage in 1994 rose for the fifth consecutive year, reflecting continuing increases in all age groups. White mothers had the highest ( 81 percent) and Filipino mothers had the lowest (72 percent) rates in EFM usage in 1994 (table 26). For Hispanic mothers, table 27 shows the lowest rate to be for Mexican mothers (72 percent).

According to data from the birth certificate, 61 percent of mothers who had live births in 1994 received ultrasound, about the same as in 1993 but
a 27-percent increase over 1989 (48 percent).

The overall rates of stimulation of labor and induction of labor in 1994 were 152 and 147 per 1,000 live births, respectively, about 10 percent above their levels in 1993. The rates of both of these procedures have been rising steadily every year since 1989 (figure 5), stimulation by about 40 percent (from 109 per 1,000 ) and induction by 63 percent (from 90 per $1,000)$.

Amniocentesis, an invasive prenatal diagnostic procedure performed to detect genetic disorders, was reported for 31 of every 1,000 live births in 1994. The rate of amniocentesis for the oldest age group (40-49 years of age) was 19 times the rate for the youngest mothers (less than 20 years of age), 193 per 1,000 compared with 10 per 1,000 .

## Complications of labor and/or delivery

Of the fifteen reported complications of labor and/or delivery, five were reported at a rate greater than or equal to 30 per 1,000 live births in 1994: meconium, moderate/heavy ( 57 per 1,000 ), fetal distress ( 41 per 1,000), breech/malpresentation ( 37 per 1,000), premature rupture of membrane (PROM) (31 per 1,000 ), and dysfunctional labor ( 30 per 1,000 ) (table 37). For these five complications there were observable variations by race and Hispanic origin (tables 26 and 27). It has been shown that levels of these complications may be underreported on the birth certificate (40).

Although not frequent, placenta previa is a serious complication that occured in over 13,000 births in 1994. Data from birth certificates identify increasing age of mother and live-birth order as two risk factors for this complication (66).

## Attendant at birth and place of delivery

A physician-attended delivery in a hospital setting was by far the most common approach to delivery in 1994, comprising 93.7 percent of all births (table 38). The percent of births with this arrangement was unchanged from 1993, but has declined since 1975 when nearly all births were of this type ( 98.4 percent).


Figure 5. Rates of induction and stimulation of labor: United States, 1989-94

During this period, the percent of births attended by midwives increased sharply, from 1.0 percent in 1975 to 5.5 percent in 1994. About 94 percent of midwifedelivered births were by certified nurse midwives (CNM), and the remaining 6 percent by "other" midwives. CNMattended deliveries were almost universally in hospitals ( 95 percent) whereas deliveries by "other" midwives were most likely in a residence ( 63 percent).

Altogether, 99 percent of births in 1994 were delivered in hospitals, almost unchanged from the 1975 level. The majority of out-of-hospital deliveries were in a residence ( 62 percent) while 29 percent were in a freestanding birthing center. Birthing centers have been shown to be a cost-effective, safe alternative to a hospital setting for low-risk women (67).

About 9 out of 10 deliveries for both white and black women were attended by doctors of medicine (MD's) in a hospital setting. However, there were some differences between white and black women in the attendant and place of delivery. For hospital deliveries, black women were slightly less likely than white women to have births attended by doctors of osteopathy (DO's) (2.5 and 3.8 percent, respectively) but more likely to have CNM-attended births ( 5.5 and 4.7 percent, respectively). For out-of-hospital deliveries, black women were more likely than white women to have births attended by MD's and less likely to have midwifeattended births. For example, for births occurring in a residence more than half of those to white women were attended by a midwife ( 53 percent) compared with only 7 percent of births to black women. In contrast, MD's attended the births of only 10 percent of white women delivering in a residence compared with 42 percent of black women.

There are distinct differences in the populations of women who give birth in hospitals compared with other places of delivery. For example, a higher proportion of births in hospitals were to teenaged and unmarried women than were births in most other places of delivery (data not shown). About 13 percent of births in hospitals were to teenagers compared with 9.1 percent of births in clinics or doctor's offices, 8.9 percent of births in birthing centers, and 6.2 percent of home births. Similarly, the proportion of
hospital births that were to unmarried women ( 32.7 percent) was higher than the proportion of births occurring in clinics or doctor's offices ( 27.8 percent), residences ( 23.7 percent), or birthing centers (17.2 percent).

## Method of delivery

The rate of cesarean delivery declined for the fifth consecutive year and was 7 percent lower in 1994 (21.2 per 100 live births) than in 1989 (22.8), the first year this information was available on the birth certificate (table E and table 39). Similarly, the primary cesarean rate (first cesareans per 100 live births to women who had no previous cesarean) also declined each year and was also 7 percent lower in 1994 (14.9) than in 1989 (16.1). Concomitant with the decline in cesarean rates during this period was a 39 -percent increase in the rate of vaginal birth after previous cesarean delivery (VBAC)—from 18.9 in 1989 to 26.3 in 1994.

Despite the favorable trends, the cesarean and VBAC rates still fall far short of the year 2000 objectives (overall cesarean rate- 15 or lower; primary cesarean rate-12 or lower; VBAC rate- 35 or higher (68)). However, some States are approaching or have already achieved these rates. Two States (Colorado and Idaho) had overall cesarean rates that were just above 15 . Ten States had already achieved primary cesarean rates of 12 or lower and 9 States had VBAC rates of 35 or higher. A detailed analysis of State variation in cesarean and VBAC rates is published elsewhere (69).

Overall cesarean rates increased almost linearly by age of the mother and were twice as high for mothers 40-49 years of age (31.5) than for teenagers
(15.0) (table 40). Primary cesarean rates also increased with additional age but the differences between age categories were small for mothers under 35 years of age. VBAC rates declined with increasing age-almost a third of teenagers who had a previous cesarean had a VBAC delivery ( 31.2 percent) compared with 20 percent of mothers 40-49 years of age. Compared with 1993, all age groups had lower overall and primary rates and higher VBAC rates in 1994.

The cesarean rate in 1994 for black women (21.8) was higher than for white women (21.2), reversing the pattern from 1989-92. Since 1992, when the primary rates for white and black women were identical, the primary cesarean rate for white women declined by 6 percent (from 15.7 in 1992 to 14.8 in 1994) while the primary rate for black women remained unchanged at 15.7. The rate of VBAC delivery in 1992 was also virtually identical for white and black women but has increased more sharply for white women since then. In 1994, overall and primary cesarean rates for every age category were higher for black than white women. VBAC rates for black mothers were higher than for white mothers at ages under 25 years but were lower than for white mothers at older ages.

With the exception of Filipino mothers, all specified categories of Asian or Pacific Islander mothers had lower rates of cesarean delivery than white and black mothers (table 23). The rate of cesarean delivery for American Indian mothers (18.0) was also lower than for white and black mothers.

Rates of cesarean delivery were slightly lower for Hispanic than nonHispanic mothers- 20.5 compared with 21.4 per 100 births (table 24). The rate of

Table E. Total and primary cesarean rates and vaginal birth after previous cesarean delivery rates: United States, 1989-94

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

[^0]cesarean delivery varied between 20.0 and 21.6 for all Hispanic subgroups except for Cuban mothers whose rate was much higher (30.9).

All of the selected medical risk factors in table 41 were associated with overall cesarean rates that were higher than the national average. Cesarean rates for the medical risk factors ranged from 21.6 for mothers with Rh sensitization to 49.5 for mothers with eclampsia. Other medical risk factors in which more than a third of births were by cesarean were chronic hypertension (39.6), hydramnios/ oligohydramnios (38.8), genital herpes (38.4), pregnancy-associated hypertension (37.4), and diabetes (35.4). Certain complications of labor and/or delivery are also associated with high cesarean rates. Nearly all births with cephalopelvic disproportion were cesarean deliveries (97.4) while the cesarean rates for breech/malpresentation (85.5) and placenta previa (82.8) were also very high. In addition, more than half of births with dysfunctional labor (65.2), cord prolapse (61.8), abruptio placenta (57.9), and fetal distress (56.5) were by cesarean delivery. Obstetric procedures with cesarean rates above the national average were amniocentesis (33.1), tocolysis (28.4), and ultrasound (23.0). Cesarean rates for most of the medical risk factors, complications of labor and/or delivery, and obstetric procedures have declined since 1989.

During the 1989-94 period, the percent of births that were delivered by forceps declined each year while the use of vacuum extraction consistently increased. In 1994, 3.8 percent of births were delivered by forceps compared with 5.5 percent in 1989-a 31 percent decline. Vacuum extraction was used in 5.7 percent of births in 1994, a 63-percent increase compared with 1989 (3.5). As in previous years, forcep- and vacuumextraction deliveries were slightly more common in births to white than black mothers.

## Infant health characteristics

## Period of gestation

The overall incidence of preterm birth was 11.0 percent for 1994, unchanged from 1993 (figure 6). The percent of births born preterm (prior to 37


Figure 6. Gestation distribution: United States, 1994
completed weeks of gestation) has risen quite steadily since 1981 (from 9.4 percent). (See tables 42 and 43.) Preterm birth is an important cause of infant mortality and morbidity. More than half of all infant deaths are preterm babies (70), and those who survive run a greater risk of neurodevelopmental and respiratory disorders, as well as other problems (71).

The primary method used to determine the gestational age of the newborn from birth certificate data 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. Since 1989, the "clinical estimate of gestation," which is the birth attendant's estimate of gestational length based on ultrasound or other techniques, has been used when the LMP is inconsistent with birthweight or unknown. For 1994, the clinical estimate was used for 4.1 percent of the records. The effect of the use of the clinical estimate has been to depress preterm rates slightly. Based on gestation computed from the LMP alone (the method used prior to 1989) the 1994 preterm rate would have been 11.05 percent, compared with the reported rate (LMP with clinical
estimate) of 11.02 percent. Recent increases in the preterm rate cannot, therefore, be attributed to this change in the editing procedure.

Preterm birth results principally from spontaneous labor, premature rupture of the membrane (PROM), or medically induced labor, categories which are not necessarily mutually exclusive (71). PROM, induced deliveries, and several conditions resulting in spontaneous labor, have been separately identified on the birth certificate since 1989 . Since that year, the preterm rate for PROM has declined slightly, but the reported preterm rate for induced deliveries has risen by 58 percent. Labor may be induced because of maternal illness or fetal distress; rates for at least two medical risk factors which are indications for induction, pregnancy-induced hypertension and diabetes (72), have also risen over this period (see section on medical risk factors).

The preterm rate increased slightly among births to white mothers between 1993 and 1994, from 9.5 to 9.6 percent. The increase was chiefly among lowerrisk births of 34-36 weeks of gestation and included both singleton and multiple births and all age groups.

Among births to black mothers the percent preterm declined from 18.5 to 18.1, the lowest level reported since
1986. The preterm rate for black births had risen to 18.8-18.9 percent for 1989-91. Preterm levels fell among mothers less than 35 years of age, but increased among older mothers.

There was essentially no change in the percent of American Indian (12.1) or Hispanic preterm births (10.9) between 1993 and 1994 (tables 23 and 24). Rates for most Hispanic subgroups were also largely unchanged and continued to show marked variation, ranging from 10.6 (Mexican) to 13.4 percent (Puerto Rican).

Among Asian or Pacific Islanders, the Chinese preterm rate was unchanged from 1993, but the level among Japanese, Hawaiian, and Filipino newborns increased (table 23). The percent of preterm births among subgroups ranged from 7.2 (Chinese) to 12.2 percent (Hawaiian).

## Birthweight

The proportion of low birthweight (LBW) births rose slightly to 7.3 for 1994, following an increase from 7.1 to 7.2 percent for 1992-93. During the 1970's and early 1980's LBW declined, but recent increases have raised the level to that reported for 1976. (See table 43 and figure 5.) Low birthweight (less than 2,500 grams) is the result of shortened gestation, impaired growth in utero, or a combination of the two. These infants are at much greater risk of mortality and long-term disability than heavier babies, and despite medical advances which have greatly improved their survival $(73,74)$, they are twenty times more likely than heavier infants to die during the first year of life (70).

Low birthweight rose slightly among births to white mothers from 6.0 to 6.1 percent, and declined slightly among black mothers, from 13.3 to 13.2 percent. Because births to white mothers comprise the large majority of all births ( 79 percent for 1994), most of the current year rise in overall LBW (as for 1992-93) reflects the increase in white LBW.

Since 1992, white singleton LBW has increased, rising from 4.7 to 4.8 for 1992-93 and to 4.9 for 1994. This is in contrast to 1980-92, when LBW among white singleton births declined slightly, and the increase in overall white LBW was attributed to the rise in multiple births because of their high LBW risk
(75). The largest increases in white singleton low birthweight for 1993-94 were among mothers under 20 years of age and 40 years of age and older, but increases were observed among most age groups. Low birthweight rose among singleton births to white mothers of all educational levels, including collegeeducated married mothers (data not shown).

The 1993-94 increase in white LBW was in the "moderate" LBW interval of 1,500-2,499 grams, and thus, the percent very low birthweight (VLBW) (less than 1,500 grams) was unchanged at 1.0 percent (figure 7). VLBW babies are at very high risk of morbidity and mortality; they account for 1 percent of all births, but two-thirds of all neonatal deaths.

The decrease in LBW among births to black mothers for 1993-94 occurred in the moderately LBW range and, therefore, the proportion of VLBW (less than 1,500 grams) was unchanged at 3.0 percent. The percent of VLBW rose from 2.4 to 3.0 between 1970 and 1991, and has been static since.

Much of the disparity in LBW between black and white births can be attributed to the higher rate of preterm births (less than 37 completed weeks of
gestation) among black mothers (18.1 compared with 9.6 percent). Although preterm LBW risk varies somewhat by race, overall, nearly half of all preterm births are LBW compared with 3 percent of term infants. Also contributing to the disparity is the higher risk of LBW among black infants, regardless of gestation. The black preterm LBW rate was 48.4 percent compared with 40.4 percent for white infants (table 42); black term babies were twice as likely as white babies to weigh less than 2,500 grams ( 5.6 compared with 2.5 percent) (figure 8 ).

The risk of LBW is greatest among infants born to mothers under 15 years of age. For 1994, about one out of 10 infants born to these youngest mothers was low birthweight compared with one out of 15 infants born to mothers 25-34 years of age (table 44). LBW levels for infants born to mothers 40 years of age and older were similar to those of teenaged mothers ( 9.5 compared with 9.3 percent). These patterns however can vary considerably by race or ethnicity. Among black mothers 35-39 years of age the LBW risk rivals that of even the youngest mothers ( 16.4 compared with 16.3 percent) while white mothers 35-39 years of age were


Figure 7. Percent low birthweight and very low birthweight by race of mother: United States, 1970-94


NOTE: Preterm=less than 37 completed weeks of gestation; term=37 to 41 weeks; postterm=42 weeks and over.

Figure 8. Percent low birthweight by gestation and race of mother: United States, 1994
much less likely than their much younger counterparts to have a LBW infant (6.8 compared with 11.1 percent).

There was no change in LBW among American Indian ( 6.4 percent) and Hispanic infants ( 6.2 percent) between 1993 and 1994, but the overall low birthweight percent increased among Asian or Pacific Islander newborns from 6.6 to 6.8 percent. Sizable increases were noted for Japanese, Hawaiian, and Filipino infants.

The percent of macrosomic infants (birthweight of at least 4,000 grams) fell again for 1994 to 10.4 percent of all births (table 23). This level has dropped since 1991, after peaking at about 11 percent in the 1980's.

Between 1993 and 1994 increases in white LBW of at least 3 percent occurred in about half of the States. The only declines were for Arkansas, the District of Columbia, Kansas, and North Dakota. Rates ranged from 5.0 percent for Alaska and Washington to 8.8 percent for Wyoming. Conversely, declines in black LBW occurred in more than half of the 37 areas reporting at least 1,000 black births. Declines of at least 3.0 percent were observed in Arizona, Delaware, the District of Columbia, Illinois, Indiana, Maryland, Nevada, New York, and Washington. Low birthweight levels among black infants ranged from 10.1 percent for Washington to 16.1 percent for the District of Columbia.

## 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 (76). 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 scores of the five components and a score of 7 or greater indicates that the baby is in good to excellent physical condition. The Apgar score is assessed at 1 and 5 minutes after delivery and used to predict the baby's survival chances.

In 1994 every State except California and Texas collected information on both the 1 - and 5-minute Apgar score. Births to residents in these States accounted for 78 percent of all births in the United States. In 1994, 8.4 percent of babies had 1-minute scores that were considered low (less than 7), identical to the percent in 1993 (table 23). Only 1.4 percent of babies had low scores at 5 minutes after birth, also unchanged from 1993. The percent of infants with low 1 - and 5-minute Apgar scores declined sharply between 1984-90 but has changed very little since then.

Of all racial groups, Asian or Pacific Islander babies were in the best physical condition shortly after delivery (table 23). This was particularly true for Japanese and Chinese babies-only 5 percent had low 1-minute scores and less than 1 percent had low 5-minutes scores. The percent of babies with low scores was
intermediate for white and American Indian mothers and highest for black mothers. More than one in ten black babies had low 1 -minute scores and 2.5 percent had low 5 -minute scores.

Overall, Hispanic babies were in better physical condition at 1 minute after birth (only 7.2 percent had low scores) than either non-Hispanic white or black babies (table 24). However, there was considerable variation among Hispanic subgroups in the percent of babies with low 1-minute scores-from 4.4 percent of Cuban babies to 7.9 percent of Mexican and "other" Hispanic babies. Non-Hispanic black infants were twice as likely to have low 5-minute scores ( 2.5 percent) than either Hispanic babies or non-Hispanic white babies (each with 1.2 percent).

In general, the variation among racial and ethnic groups in the percent of babies with low 1- and 5-minute Apgar scores was consistent with the percent of babies that were born preterm or with low birthweight (tables 23 and 24).

## Abnormal conditions of the newborn

Of the eight specific abnormal conditions reported on the birth certificate, the three highest rates per 1,000 live births in 1994 were for assisted ventilation less than 30 minutes ( 18 per 1,000 ), assisted ventilation 30 minutes or longer ( 8 per 1,000 ), and hyaline membrane disease/ respiratory distress syndrome (RDS) (7 per 1,000 ). It has been shown that these conditions may be underreported on the birth certificate (77).

The rates for abnormal conditions in 1994 were higher for black births than for white births for all conditions except birth injuries (table 45).

Birth injury was the only abnormal condition for which there were lower rates among low birthweight infants (less than 2,500 grams) than among infants weighing 2,500 grams or more. Rates of hyaline membrane disease/RDS were far higher for low birthweight infants than those of higher weight ( 56 compared with 3 per 1,000 live births); there were similar large differences in rates by birthweight for assisted ventilation 30 minutes or longer ( 64 and 4 per 1,000 live births) (tabular data not shown).

## Congenital anomalies

Since 1989, information for some of the most severe and common congenital anomalies has been available from a checkbox item on live birth certificates. In 1994 the birth certificates of the District of Columbia and all States except New Mexico and New York City contained an item on congenital anomalies. These areas included 96 percent of births in the United States. It has been shown that these anomalies are underreported (77).

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. 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.

Rates for many of the anomalies reported on the birth certificates vary considerably by age of mother (table 46). Heart malformations and chromosomal anomalies are notable examples of anomalies for which rates increase rapidly with advancing maternal age.

## Multiple births

Babies born in multiple deliveries are more vulnerable to early death and disability than are babies born in singleton deliveries (78). More than half of all multiple births are low birthweight (less than 2,500 grams) compared with 6 percent of singleton births (data not shown). Multiple births are 7 times more likely than singletons to die in the first week of life. (70). Multiples also require more health care dollars; each birth in a twin or triplet delivery is reported to cost 2 to 3 times that of a birth in a singleton delivery ( 79,80 ).

The number of live births in multiple deliveries increased by 1 percent between 1993 and 1994, to 101,658 births. In contrast, the number of singleton births declined by 1 percent. (See table 47 for 1994 data.) The multiple birth total included 97,064 twin, 4,233 triplet, 315 quadruplet, and 46 quintuplet or greater multiples. Over the last decade the number of twin births has risen by 33 percent (from 72,949 in 1984), and the number of higher order multiples by

178 percent (from 1,653 to 4,594 between 1984 and 1994).

Reflecting the rise in multiple and the decline in singleton births, the multiple birth ratio (the number of live births in multiple deliveries per 1,000 total births) rose to 25.7 per 1,000 for 1994 (i.e., 2.6 percent of all births), an increase of 2 percent over the level reported for 1993 (25.2). Following modest increases in the 1970's, this ratio has increased 33 percent since 1980 ( 19.3 per 1,000). The proportion of all multiples comprised by twins has declined with the rapid increase in triplet births, but the vast majority of multiples continue to be twins ( 95 percent), and thus, the multiple birth ratio is still primarily a measure of twin births.

The higher order multiple birth ratio (defined as the number of triplet and greater multiple births per 100,000 live births) rose 12 percent for the current year, from 104.2 to 116.2 per 100,000 . Although still comparatively rare (only 0.1 percent of all births were higher order multiples in 1994), these births have become much more common in recent years. The higher order multiple birth ratio has doubled since 1987, tripled since the early 1980's, and quadrupled since the early 1970's. (See figure 9.) Put another way, in 1994, 1 of 860 births was a higher order multiple compared with only about 1 of 3,500 births in the early 1970's.

While multiple birth ratios have risen among both white and black mothers since 1980, the ratios for white women,
especially the higher order multiple birth ratio, have risen more rapidly. Between 1980 and 1994 the twin ratio for white mothers (the number of twin births per 1,000 total births) rose 33 percent (from 18.1 to 24.1 ) compared with a 20 -percent rise in the twin ratio for black mothers (from 24.0 to 28.8), and the higher order multiple birth ratio for white mothers rose 252 percent ( 37.6 to 132.2), compared with a 52 -percent increase in the ratio for black mothers (from 37.1 to 56.3). Much of the increase in white multiple births was among mothers 30 years of age and over. Between 1980 and 1994, the higher order multiple birth ratio for white mothers 30 years of age and over more than quadrupled, climbing from 58.0 to 246.3 , but the ratio rose only from 29.6 to 33.8 among mothers 20-24 years of age. For 1994 older white mothers accounted for 66 percent of all higher order multiple births, but only 35 percent of all singleton births. (Note that higher order multiple birth ratios by race and/or age can fluctuate widely from year to year because of small numbers.)

The likelihood of women having a higher order multiple birth increases with age until the late thirties. The increase in black higher order multiple births has been attributed to a shift toward older childbearing, but only part of the rise in white higher order multiples has been attributed to this shift (81-83). Most of the increase among white mothers has been related to the rising use of fertility enhancing techniques (ovulationinducing drugs and assisted reproductive


Figure 9. Higher order multiple birth ratios by race of mother: United States, 1971-94
techniques such as in vitro fertilization) (81-83). Birth certificate data does not identify births resulting from the use of fertility enhancing techniques, but another source estimates that $63-80$ percent of all higher-order multiple births result from these procedures (79).

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| Prenatal care . . . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 23 | 24 |  |
| Race of father. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 17 |  |  |  |  |  |  |  |  |
| Race of mother . | ${ }^{1} 1$ | ${ }^{12}$ | ${ }^{1} 3$ | ${ }^{1} 4$ | 5 | ${ }^{2} 6$ | ${ }^{2} 7$ | ${ }^{1} 8$ | ${ }^{2} 9$ | ${ }^{3} 10$ | ${ }^{2} 11$ | 12 | 13 | 14 | 15 | 16 |  | 18 | 19 | 20 | ${ }^{2} 21$ | ${ }^{2} 22$ | ${ }^{3} 23$ | ${ }^{2} 24$ | 25 |
| Sex of child |  |  |  |  |  |  |  |  |  | 10 | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tobacco use. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 23 | 24 |  |
| Unmarried mothers. |  |  |  |  |  |  |  |  |  | 10 | 11 |  |  | 14 | 15 | 16 |  |  |  |  |  |  |  |  |  |
| Weight gain during pregnancy . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 19 | 20 | 21 | 22 | 23 | 24 |  |


| TABLE: | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Page: | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 78 | 79 | 81 |
| Geographic area: <br> States |  |  |  |  |  |  |  |  | 34 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| Years: Current year only | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |  | 40 | 41 | 42 |  | 44 | 45 | 46 | 47 |
| Trend. |  |  |  |  |  |  |  |  |  |  |  |  |  | 39 |  |  |  | 43 |  |  |  |  |
| Type of entry: Number of births. | 26 | 27 | 28 | 29 | 30 |  | 32 | 33 |  | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 |  | 44 | 45 | 46 | 47 |
| 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 |
| Characteristics: <br> Abnormal conditions of newborn |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 45 |  |  |
| Age of mother . |  |  | 28 | 29 |  | 31 | 32 | 33 |  |  | 36 | 37 |  |  | 40 |  |  |  | 44 | 45 | 46 | 47 |
| Alcohol use. |  |  |  |  |  |  | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attendant at birth |  |  |  |  |  |  |  |  |  |  |  |  | 38 |  |  |  |  |  |  |  |  |  |
| Birthweight |  |  |  |  |  | 31 |  |  |  |  |  |  |  |  |  |  | 42 | 43 | 44 |  |  |  |
| Complications of labor | 26 | 27 |  |  |  |  |  |  |  |  |  | 37 |  |  |  | 41 |  |  |  |  |  |  |
| Congenital anomalies. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 46 |  |
| Education |  |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gestational age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 42 | 43 |  |  |  |  |
| Hispanic origin of mother |  | 27 |  | 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Medical risk factors | 26 | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  | 41 |  |  |  |  |  |  |
| Method of delivery. |  |  |  |  |  |  |  |  |  |  |  |  |  | 39 | 40 | 41 |  |  |  |  |  |  |
| Obstetric procedures | 26 | 27 |  |  |  |  |  |  |  |  | 36 |  |  |  |  | 41 |  |  |  |  |  |  |
| Place of delivery. |  |  |  |  |  |  |  |  |  |  |  |  | 38 |  |  |  |  |  |  |  |  |  |
| Multiple births |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 47 |
| Prenatal care. |  |  |  |  |  |  |  | 33 | 34 | 35 |  |  |  |  |  |  |  |  |  |  |  |  |
| Race of mother | ${ }^{3} 26$ | ${ }^{2} 27$ | 28 | ${ }^{2} 29$ | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| Tobacco use |  |  | 28 | 29 | 30 | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^1]
Table 1. Live births, birth rates, and fertility rates, by race: United States, specified years 1940-55 and each year, 1960-94
[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]

| Year | Number |  |  |  |  | Birth rate |  |  |  |  | Fertility rate |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { races } 1 \end{gathered}$ | White | Black | American Indian ${ }^{2}$ | Asian or Pacific Islander | $\begin{gathered} \text { All } \\ \text { races } 1 \end{gathered}$ | White | Black | American Indian ${ }^{2}$ | Asian or Pacific Islander | $\begin{gathered} \text { All } \\ \text { races } 1 \end{gathered}$ | White | Black | American Indian ${ }^{2}$ | Asian or Pacific Islander |

Registered
births

| Race of mother: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | --- |  |
| 19783 | 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 | --- | --- |
| 19733 | 3,136,965 | 2,551,030 | 512,597 | 26,464 | --- | 14.8 | 13.8 | 21.4 | --- | --- | 68.8 | 64.9 | 93.6 | --- | --- |
| 19723 | 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 | --- | --- |
| 19714 | 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
underregi-
stration


[^2]Table 2. Live births by age of mother, live-birth order, and race of mother: United States, 1994
[Live-birth order refers to number of children born alive to mother]

| Live-birth order and race of mother | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ | Age of mother |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 15 years | 15-19 years |  |  |  |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | 25-29 years | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{gathered} 15 \\ \text { years } \end{gathered}$ | $\begin{gathered} 16 \\ \text { years } \end{gathered}$ | $\begin{gathered} 17 \\ \text { years } \end{gathered}$ | $\begin{gathered} 18 \\ \text { years } \end{gathered}$ | $\begin{gathered} 19 \\ \text { years } \end{gathered}$ |  |  |  |  |  |  |
| All races | 3,952,767 | 12,901 | 505,488 | 30,742 | 63,125 | 101,302 | 137,547 | 172,772 | 1,001,418 | 1,088,845 | 906,498 | 371,608 | 63,502 | 2,507 |
| First child | 1,618,811 | 12,504 | 389,940 | 28,811 | 56,258 | 83,905 | 103,744 | 117,222 | 474,004 | 402,096 | 246,522 | 80,272 | 12,973 | 500 |
| Second child ................... | 1,266,056 | 291 | 91,343 | 1,608 | 5,860 | 14,663 | 27,253 | 41,959 | 333,423 | 380,946 | 325,777 | 117,084 | 16,717 | 475 |
| Third child ....................... | 631,571 | 11 | 17,461 | 67 | 477 | 1,812 | 4,901 | 10,204 | 131,400 | 189,261 | 193,983 | 86,148 | 12,915 | 392 |
| Fourth child .................... | 245,636 | - | 2,815 | 4 | 25 | 157 | 681 | 1,948 | 41,171 | 70,339 | 79,337 | 43,735 | 7,948 | 291 |
| Fifth child ........................ | 93,043 | - | 401 | 2 | 3 | 16 | 75 | 305 | 11,847 | 25,157 | 30,731 | 20,058 | 4,631 | 218 |
| Sixth child ....................... | 38,834 | - | 45 | - | 1 | 3 | 11 | 30 | 3,158 | 9,414 | 13,414 | 9,935 | 2,720 | 148 |
| Seventh child .................. | 17,770 | - | 8 | - | - |  | 3 | 5 | 753 | 3,673 | 6,152 | 5,299 | 1,784 | 101 |
| Eighth child and over ........ | 18,257 | - | 4 | - | - | 1 | 2 | 1 | 283 | 2,137 | 5,418 | 6,770 | 3,295 | 350 |
| Not stated ....................... | 22,789 | 95 | 3,471 | 250 | 501 | 745 | 877 | 1,098 | 5,379 | 5,822 | 5,164 | 2,307 | 519 | 32 |
| White | 3,121,004 | 5,978 | 348,081 | 17,443 | 40,198 | 68,747 | 96,605 | 125,088 | 764,085 | 889,581 | 754,871 | 305,291 | 51,192 | 1,925 |
| First child | 1,290,315 | 5,798 | 278,286 | 16,545 | 36,777 | 59,196 | 76,391 | 89,377 | 380,435 | 338,969 | 207,789 | 67,667 | 10,957 | 414 |
| Second child .................... | 1,022,360 | 110 | 57,302 | 706 | 2,867 | 8,188 | 16,986 | 28,555 | 258,252 | 318,484 | 276,486 | 97,543 | 13,800 | 383 |
| Third child ....................... | 496,852 | 2 | 8,700 | 29 | 175 | 736 | 2,300 | 5,460 | 90,860 | 151,807 | 163,472 | 71,348 | 10,340 | 323 |
| Fourth child .................... | 182,812 | - | 1,047 | - | 10 | 49 | 241 | 747 | 23,615 | 52,044 | 64,072 | 35,455 | 6,345 | 234 |
| Fifth child ........................ | 64,042 | - | 137 | 1 | 2 | 9 | 23 | 102 | 5,413 | 16,183 | 22,976 | 15,629 | 3,547 | 157 |
| Sixth child ....................... | 24,991 | - | 14 | - | 1 | - | 4 | 9 | 1,184 | 5,064 | 9,220 | 7,355 | 2,052 | 102 |
| Seventh child ................... | 10,965 | - | 3 | - | - | - | 1 | 2 | 226 | 1,701 | 3,842 | 3,800 | 1,333 | 60 |
| Eighth child and over ........ | 11,192 | - | 4 | - | - | 1 | 2 | 1 | 108 | 837 | 2,939 | 4,667 | 2,413 | 224 |
| Not stated ....................... | 17,475 | 68 | 2,588 | 162 | 366 | 568 | 657 | 835 | 3,992 | 4,492 | 4,075 | 1,827 | 405 | 28 |
| Black ........... | 636,391 | 6,465 | 140,968 | 12,297 | 20,853 | 29,413 | 36,489 | 41,916 | 197,841 | 142,355 | 99,155 | 42,029 | 7,339 | 239 |
| First child ........................ | 245,196 | 6,270 | 99,106 | 11,343 | 17,652 | 22,119 | 24,040 | 23,952 | 73,726 | 37,470 | 20,794 | 6,730 | 1,068 | 32 |
| Second child ................... | 182,499 | 164 | 31,067 | 837 | 2,784 | 6,017 | 9,371 | 12,058 | 63,548 | 45,025 | 30,114 | 11,010 | 1,523 | 48 |
| Third child .. | 107,572 | 5 | 8,080 | 32 | 276 | 1,001 | 2,412 | 4,359 | 35,672 | 30,124 | 22,278 | 9,837 | 1,542 | 34 |
| Fourth child .................... | 51,665 | - | 1,621 | 3 | 10 | 102 | 408 | 1,098 | 15,613 | 15,153 | 12,013 | 6,160 | 1,078 | 27 |
| Fifth child ........................ | 23,832 | - | 236 | 1 | 1 | 7 | 45 | 182 | 5,743 | 7,403 | 6,242 | 3,404 | 774 | 30 |
| Sixth child ....................... | 11,082 | - | 25 | - | - | 3 | 7 | 15 | 1,745 | 3,551 | 3,277 | 1,970 | 492 | 22 |
| Seventh child ................... | 5,256 | - | 5 | - | - | - | 2 | 3 | 468 | 1,585 | 1,777 | 1,112 | 295 | 14 |
| Eighth child and over ........ | 5,007 | - | - | - | - | - | - | - | 146 | 1,039 | 1,862 | 1,447 | 484 | 29 |
| Not stated ....................... | 4,282 | 26 | 828 | 81 | 130 | 164 | 204 | 249 | 1,180 | 1,005 | 798 | 359 | 83 | 3 |
| American Indian ${ }^{1}$. | 37,740 | 211 | 7,705 | 467 | 1,046 | 1,554 | 2,079 | 2,559 | 12,158 | 9,010 | 5,738 | 2,435 | 461 | 22 |
| First child ........................ | 13,451 | 204 | 5,835 | 445 | 947 | 1,287 | 1,526 | 1,630 | 4,471 | 1,860 | 809 | 239 | 30 | 3 |
| Second child ................... | 9,774 | 4 | 1,482 | 17 | 89 | 229 | 460 | 687 | 4,069 | 2,506 | 1,259 | 388 | 65 | 1 |
| Third child ....................... | 6,630 | 2 | 303 | 1 | 6 | 30 | 78 | 188 | 2,268 | 2,111 | 1,323 | 532 | 89 | 2 |
| Fourth child .................... | 3,691 | - | 55 | - | 1 | 2 | 10 | 42 | 900 | 1,290 | 949 | 413 | 80 | 4 |
| Fifth child ........................ | 2,060 | - | 6 | - | - | - | 1 | 5 | 301 | 732 | 624 | 333 | 62 | 2 |
| Sixth child ....................... | 1,010 | - | - | - | - | - | - | - | 74 | 287 | 380 | 226 | 38 | 5 |
| Seventh child ................... | 509 | - | - | - | - | - | - | - | 19 | 117 | 200 | 136 | 35 | 2 |
| Eighth child and over ........ | 457 | - | - | - | - | - | - | - | 5 | 66 | 167 | 157 | 59 | 3 |
| Not stated ....................... | 158 | 1 | 24 | 4 | 3 | 6 | 4 | 7 | 51 | 41 | 27 | 11 | 3 | - |
| Asian or Pacific Islander ... | 157,632 | 247 | 8,734 | 535 | 1,028 | 1,588 | 2,374 | 3,209 | 27,334 | 47,899 | 46,734 | 21,853 | 4,510 | 321 |
| First child ........................ | 69,849 | 232 | 6,713 | 478 | 882 | 1,303 | 1,787 | 2,263 | 15,372 | 23,797 | 17,130 | 5,636 | 918 | 51 |
| Second child ................... | 51,423 | 13 | 1,492 | 48 | 120 | 229 | 436 | 659 | 7,554 | 14,931 | 17,918 | 8,143 | 1,329 | 43 |
| Third child ....................... | 20,517 | 2 | 378 | 5 | 20 | 45 | 111 | 197 | 2,600 | 5,219 | 6,910 | 4,431 | 944 | 33 |
| Fourth child .................... | 7,468 | - | 92 | 1 | 4 | 4 | 22 | 61 | 1,043 | 1,852 | 2,303 | 1,707 | 445 | 26 |
| Fifth child ........................ | 3,109 | - | 22 | - | - | - | 6 | 16 | 390 | 839 | 889 | 692 | 248 | 29 |
| Sixth child ....................... | 1,751 | - | 6 | - | - | - | - | 6 | 155 | 512 | 537 | 384 | 138 | 19 |
| Seventh child ................... | 1,040 | - | - | - | - | - | - | - | 40 | 270 | 333 | 251 | 121 | 25 |
| Eighth child and over ........ | 1,601 | - | - | - | - | - | - | - | 24 | 195 | 450 | 499 | 339 | 94 |
| Not stated ....................... | 874 | - | 31 | 3 | 2 | 7 | 12 | 7 | 156 | 284 | 264 | 110 | 28 | 1 |

[^3]Table 3. Birth rates by age of mother, live-birth order, and race of mother: United States, 1994
[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 | 15-44 <br> years ${ }^{1}$ | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 15-19 years |  |  |  | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 <br> years | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ |
|  |  | years | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | 18-19 <br> years |  |  |  |  |  |  |
| All races .......................... | 66.7 | 1.4 | 58.9 | 37.6 | 91.5 | 111.1 | 113.9 | 81.5 | 33.7 | 6.4 | 0.3 |
| First child ........................ | 27.5 | 1.4 | 45.8 | 32.8 | 65.6 | 52.9 | 42.3 | 22.3 | 7.3 | 1.3 | 0.1 |
| Second child .................... | 21.5 | 0.0 | 10.7 | 4.3 | 20.5 | 37.2 | 40.1 | 29.5 | 10.7 | 1.7 | 0.1 |
| Third child ........................ | 10.7 | * | 2.0 | 0.5 | 4.5 | 14.7 | 19.9 | 17.5 | 7.9 | 1.3 | 0.0 |
| Fourth child ..................... | 4.2 | * | 0.3 | 0.0 | 0.8 | 4.6 | 7.4 | 7.2 | 4.0 | 0.8 | 0.0 |
| Fifth child ........................ | 1.6 | * | 0.0 | 0.0 | 0.1 | 1.3 | 2.6 | 2.8 | 1.8 | 0.5 | 0.0 |
| Sixth and seventh child ..... | 1.0 | * | 0.0 | * | 0.0 | 0.4 | 1.4 | 1.8 | 1.4 | 0.5 | 0.0 |
| Eighth child and over ......... | 0.3 | * | * | * | * | 0.0 | 0.2 | 0.5 | 0.6 | 0.3 | 0.0 |
| White .. | 64.9 | 0.8 | 51.1 | 30.7 | 82.1 | 106.2 | 115.5 | 83.2 | 33.7 | 6.2 | 0.3 |
| First child .................. | 27.0 | 0.8 | 41.1 | 27.6 | 61.8 | 53.2 | 44.3 | 23.0 | 7.5 | 1.3 | 0.1 |
| Second child .............. | 21.4 | 0.0 | 8.5 | 2.9 | 17.0 | 36.1 | 41.6 | 30.6 | 10.8 | 1.7 | 0.1 |
| Third child ................. | 10.4 | * | 1.3 | 0.2 | 2.9 | 12.7 | 19.8 | 18.1 | 7.9 | 1.3 | 0.0 |
| Fourth child ................ | 3.8 | * | 0.2 | 0.0 | 0.4 | 3.3 | 6.8 | 7.1 | 3.9 | 0.8 | 0.0 |
| Fifth child .................. | 1.3 | * | 0.0 | * | 0.0 | 0.8 | 2.1 | 2.5 | 1.7 | 0.4 | 0.0 |
| Sixth and seventh child | 0.8 | * | * | * | * | 0.2 | 0.9 | 1.4 | 1.2 | 0.4 | 0.0 |
| Eighth child and over .. | 0.2 | * | * | * | * | 0.0 | 0.1 | 0.3 | 0.5 | 0.3 | 0.0 |
| Black | 76.9 | 4.6 | 104.5 | 76.3 | 148.3 | 146.0 | 104.0 | 65.8 | 28.9 | 5.9 | 0.3 |
| First child .................. | 29.8 | 4.5 | 73.9 | 62.7 | 91.3 | 54.7 | 27.6 | 13.9 | 4.7 | 0.9 | 0.0 |
| Second child .............. | 22.2 | 0.1 | 23.2 | 11.8 | 40.8 | 47.2 | 33.1 | 20.1 | 7.6 | 1.2 | 0.1 |
| Third child ................. | 13.1 | * | 6.0 | 1.6 | 12.9 | 26.5 | 22.2 | 14.9 | 6.8 | 1.3 | 0.0 |
| Fourth child ................ | 6.3 | * | 1.2 | 0.1 | 2.9 | 11.6 | 11.1 | 8.0 | 4.3 | 0.9 | 0.0 |
| Fifth child .................. | 2.9 | * | 0.2 | * | 0.4 | 4.3 | 5.4 | 4.2 | 2.4 | 0.6 | 0.0 |
| Sixth and seventh child | 2.0 | * | 0.0 | * | 0.1 | 1.6 | 3.8 | 3.4 | 2.1 | 0.6 | 0.0 |
| Eighth child and over .. | 0.6 | * | * | * | * | 0.1 | 0.8 | 1.2 | 1.0 | 0.4 | 0.0 |
| American Indian ${ }^{2}$....... | 70.9 | 1.9 | 80.8 | 51.3 | 130.3 | 134.2 | 104.1 | 61.2 | 27.5 | 5.9 | 0.4 |
| First child .................. | 25.4 | 1.8 | 61.4 | 45.0 | 88.9 | 49.6 | 21.6 | 8.7 | 2.7 | 0.4 | * |
| Second child .............. | 18.4 | * | 15.6 | 5.6 | 32.3 | 45.1 | 29.1 | 13.5 | 4.4 | 0.8 | * |
| Third child ................. | 12.5 | * | 3.2 | 0.6 | 7.5 | 25.1 | 24.5 | 14.2 | 6.0 | 1.2 | * |
| Fourth child ................ | 7.0 | * | 0.6 | * | 1.5 | 10.0 | 15.0 | 10.2 | 4.7 | 1.0 | * |
| Fifth child .................. | 3.9 | * | * | * | * | 3.3 | 8.5 | 6.7 | 3.8 | 0.8 | * |
| Sixth and seventh child | 2.9 | * | * | * | * | 1.0 | 4.7 | 6.2 | 4.1 | 0.9 | * |
| Eighth child and over .. | 0.9 | * | * | * | * | * | 0.8 | 1.8 | 1.8 | 0.8 | * |
| Asian or Pacific Islander $\qquad$ | 66.8 | 0.7 | 27.1 | 16.1 | 44.1 | 73.1 | 118.6 | 105.2 | 51.3 | 11.6 | 1.0 |
| First child .................. | 29.8 | 0.6 | 20.9 | 13.6 | 32.1 | 41.3 | 59.3 | 38.8 | 13.3 | 2.4 | 0.2 |
| Second child .............. | 21.9 | * | 4.6 | 2.0 | 8.7 | 20.3 | 37.2 | 40.6 | 19.2 | 3.5 | 0.1 |
| Third child ................. | 8.7 | * | 1.2 | 0.4 | 2.4 | 7.0 | 13.0 | 15.6 | 10.4 | 2.5 | 0.1 |
| Fourth child ................ | 3.2 | * | 0.3 | * | 0.7 | 2.8 | 4.6 | 5.2 | 4.0 | 1.2 | 0.1 |
| Fifth child .................. | 1.3 | * | 0.1 | * | 0.2 | 1.0 | 2.1 | 2.0 | 1.6 | 0.6 | 0.1 |
| Sixth and seventh child | 1.2 | * | * | * | * | 0.5 | 1.9 | 2.0 | 1.5 | 0.7 | 0.1 |
| Eighth child and over .. | 0.7 | * | * | * | * | 0.1 | 0.5 | 1.0 | 1.2 | 0.9 | 0.3 |

[^4]Table 4. Total fertility rates and birth rates by age of mother and race: United States, 1970-94
[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 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 15-19 years |  |  |  | 20-24 years | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | 35-39 years | 40-44 years | 45-49 <br> years |
|  |  | years | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $18-19$ <br> years |  |  |  |  |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| 1994 ..................... | 2,036.0 | 1.4 | 58.9 | 37.6 | 91.5 | 111.1 | 113.9 | 81.5 | 33.7 | 6.4 | 0.3 |
| 1993 | 2,046.0 | 1.4 | 59.6 | 37.8 | 92.1 | 112.6 | 115.5 | 80.8 | 32.9 | 6.1 | 0.3 |
| 1992 | 2,065.0 | 1.4 | 60.7 | 37.8 | 94.5 | 114.6 | 117.4 | 80.2 | 32.5 | 5.9 | 0.3 |
| 1991 | 2,073.0 | 1.4 | 62.1 | 38.7 | 94.4 | 115.7 | 118.2 | 79.5 | 32.0 | 5.5 | 0.2 |
| 1990 | 2,081.0 | 1.4 | 59.9 | 37.5 | 88.6 | 116.5 | 120.2 | 80.8 | 31.7 | 5.5 | 0.2 |
| 1989 | 2,014.0 | 1.4 | 57.3 | 36.4 | 84.2 | 113.8 | 117.6 | 77.4 | 29.9 | 5.2 | 0.2 |
| 1988 | 1,934.0 | 1.3 | 53.0 | 33.6 | 79.9 | 110.2 | 114.4 | 74.8 | 28.1 | 4.8 | 0.2 |
| 1987 | 1,872.0 | 1.3 | 50.6 | 31.7 | 78.5 | 107.9 | 111.6 | 72.1 | 26.3 | 4.4 | 0.2 |
| 1986 | 1,837.5 | 1.3 | 50.2 | 30.5 | 79.6 | 107.4 | 109.8 | 70.1 | 24.4 | 4.1 | 0.2 |
| 1985 | 1,844.0 | 1.2 | 51.0 | 31.0 | 79.6 | 108.3 | 111.0 | 69.1 | 24.0 | 4.0 | 0.2 |
| 19842 | 1,806.5 | 1.2 | 50.6 | 31.0 | 77.4 | 106.8 | 108.7 | 67.0 | 22.9 | 3.9 | 0.2 |
| 19832 | 1,799.0 | 1.1 | 51.4 | 31.8 | 77.4 | 107.8 | 108.5 | 64.9 | 22.0 | 3.9 | 0.2 |
| 19822 | 1,827.5 | 1.1 | 52.4 | 32.3 | 79.4 | 111.6 | 111.0 | 64.1 | 21.2 | 3.9 | 0.2 |
| 19812 | 1,812.0 | 1.1 | 52.2 | 32.0 | 80.0 | 112.2 | 111.5 | 61.4 | 20.0 | 3.8 | 0.2 |
| 19802 | 1,839.5 | 1.1 | 53.0 | 32.5 | 82.1 | 115.1 | 112.9 | 61.9 | 19.8 | 3.9 | 0.2 |
| 19792 | 1,808.0 | 1.2 | 52.3 | 32.3 | 81.3 | 112.8 | 111.4 | 60.3 | 19.5 | 3.9 | 0.2 |
| 19782 | 1,760.0 | 1.2 | 51.5 | 32.2 | 79.8 | 109.9 | 108.5 | 57.8 | 19.0 | 3.9 | 0.2 |
| 19772 | 1,789.5 | 1.2 | 52.8 | 33.9 | 80.9 | 112.9 | 111.0 | 56.4 | 19.2 | 4.2 | 0.2 |
| 19762 | 1,738.0 | 1.2 | 52.8 | 34.1 | 80.5 | 110.3 | 106.2 | 53.6 | 19.0 | 4.3 | 0.2 |
| 19752 | 1,774.0 | 1.3 | 55.6 | 36.1 | 85.0 | 113.0 | 108.2 | 52.3 | 19.5 | 4.6 | 0.3 |
| 19742 | 1,835.0 | 1.2 | 57.5 | 37.3 | 88.7 | 117.7 | 111.5 | 53.8 | 20.2 | 4.8 | 0.3 |
| 19732 | 1,879.0 | 1.2 | 59.3 | 38.5 | 91.2 | 119.7 | 112.2 | 55.6 | 22.1 | 5.4 | 0.3 |
| 19722 | 2,010.0 | 1.2 | 61.7 | 39.0 | 96.9 | 130.2 | 117.7 | 59.8 | 24.8 | 6.2 | 0.4 |
| 19713 | 2,266.5 | 1.1 | 64.5 | 38.2 | 105.3 | 150.1 | 134.1 | 67.3 | 28.7 | 7.1 | 0.4 |
| 19703 | 2,480.0 | 1.2 | 68.3 | 38.8 | 114.7 | 167.8 | 145.1 | 73.3 | 31.7 | 8.1 | 0.5 |
| White |  |  |  |  |  |  |  |  |  |  |  |
| Race of mother: |  |  |  |  |  |  |  |  |  |  |  |
| 1994 | 1,985.0 | 0.8 | 51.1 | 30.7 | 82.1 | 106.2 | 115.5 | 83.2 | 33.7 | 6.2 | 0.3 |
| 1993 | 1,982.0 | 0.8 | 51.1 | 30.3 | 82.1 | 106.9 | 116.6 | 82.1 | 32.7 | 5.9 | 0.3 |
| 1992 | 1,993.5 | 0.8 | 51.8 | 30.1 | 83.8 | 108.2 | 118.4 | 81.4 | 32.2 | 5.7 | 0.2 |
| 1991 | 1,995.5 | 0.8 | 52.8 | 30.7 | 83.5 | 109.0 | 118.8 | 80.5 | 31.8 | 5.2 | 0.2 |
| 1990 | 2,003.0 | 0.7 | 50.8 | 29.5 | 78.0 | 109.8 | 120.7 | 81.7 | 31.5 | 5.2 | 0.2 |
| 1989 | 1,931.0 | 0.7 | 47.9 | 28.1 | 72.9 | 106.9 | 117.8 | 78.1 | 29.7 | 4.9 | 0.2 |
| 1988 | 1,856.5 | 0.6 | 44.4 | 26.0 | 69.6 | 103.7 | 114.8 | 75.4 | 27.7 | 4.5 | 0.2 |
| 1987 | 1,804.5 | 0.6 | 42.5 | 24.6 | 68.9 | 102.3 | 112.3 | 73.0 | 25.9 | 4.1 | 0.2 |
| 1986 | 1,776.0 | 0.6 | 42.3 | 23.8 | 70.1 | 102.7 | 110.8 | 70.9 | 23.9 | 3.8 | 0.2 |
| 1985 | 1,787.0 | 0.6 | 43.3 | 24.4 | 70.4 | 104.1 | 112.3 | 69.9 | 23.3 | 3.7 | 0.2 |
| 19842 | 1,748.5 | 0.6 | 42.9 | 24.3 | 68.4 | 102.7 | 109.8 | 67.7 | 22.2 | 3.6 | 0.2 |
| 19832 | 1,740.5 | 0.6 | 43.9 | 25.0 | 68.8 | 103.8 | 109.4 | 65.3 | 21.3 | 3.6 | 0.2 |
| 19822 | 1,767.0 | 0.6 | 45.0 | 25.5 | 70.8 | 107.7 | 111.9 | 64.0 | 20.4 | 3.6 | 0.2 |
| 19812 | 1,748.0 | 0.5 | 44.9 | 25.4 | 71.5 | 108.3 | 112.3 | 61.0 | 19.0 | 3.4 | 0.2 |
| 19802 | 1,773.0 | 0.6 | 45.4 | 25.5 | 73.2 | 111.1 | 113.8 | 61.2 | 18.8 | 3.5 | 0.2 |

See footnotes at end of table.

Table 4. Total fertility rates and birth rates by age of mother and race: United States, 1970-94-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 | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $18-19$ years |  |  |  |  |  |  |

White - con.
Race of child:

| 19802 | 1,748.5 | 0.6 | 44.7 | 25.2 | 72.1 | 109.5 | 112.4 | 60.4 | 18.5 | 3.4 | 0.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19792 | 1,715.5 | 0.6 | 43.7 | 24.7 | 71.0 | 107.0 | 110.8 | 59.0 | 18.3 | 3.5 | 0.2 |
| 19782 | 1,667.5 | 0.6 | 42.9 | 24.9 | 69.4 | 104.1 | 107.9 | 56.6 | 17.7 | 3.5 | 0.2 |
| 19772 | 1,703.0 | 0.6 | 44.1 | 26.1 | 70.5 | 107.7 | 110.9 | 55.3 | 18.0 | 3.8 | 0.2 |
| 19762 | 1,652.0 | 0.6 | 44.1 | 26.3 | 70.2 | 105.3 | 105.9 | 52.6 | 17.8 | 3.9 | 0.2 |
| 19752 | 1,686.0 | 0.6 | 46.4 | 28.0 | 74.0 | 108.2 | 108.1 | 51.3 | 18.2 | 4.2 | 0.2 |
| 19742 | 1,748.5 | 0.6 | 47.9 | 28.7 | 77.3 | 113.0 | 111.8 | 52.9 | 18.9 | 4.4 | 0.2 |
| 19732 | 1,783.0 | 0.6 | 49.0 | 29.2 | 79.3 | 114.4 | 112.3 | 54.4 | 20.7 | 4.9 | 0.3 |
| 19722 | 1,906.5 | 0.5 | 51.0 | 29.3 | 84.3 | 124.8 | 117.4 | 58.4 | 23.3 | 5.6 | 0.3 |
| 19713 | 2,160.5 | 0.5 | 53.6 | 28.5 | 92.3 | 144.9 | 134.0 | 65.4 | 26.9 | 6.4 | 0.4 |
| $1970{ }^{3}$ | 2,385.0 | 0.5 | 57.4 | 29.2 | 101.5 | 163.4 | 145.9 | 71.9 | 30.0 | 7.5 | 0.4 |

Black
Race of mother:

| 1994 | 2,300.0 | 4.6 | 104.5 | 76.3 | 148.3 | 146.0 | 104.0 | 65.8 | 28.9 | 5.9 | 0.3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1993 ................................. | 2,384.5 | 4.6 | 108.6 | 79.8 | 151.9 | 152.6 | 108.4 | 67.3 | 29.2 | 5.9 | 0.3 |
| 1992 | 2,442.0 | 4.7 | 112.4 | 81.3 | 157.9 | 158.0 | 111.2 | 67.5 | 28.8 | 5.6 | 0.2 |
| 1991 | 2,480.0 | 4.8 | 115.5 | 84.1 | 158.6 | 160.9 | 113.1 | 67.7 | 28.3 | 5.5 | 0.2 |
| 1990 | 2,480.0 | 4.9 | 112.8 | 82.3 | 152.9 | 160.2 | 115.5 | 68.7 | 28.1 | 5.5 | 0.3 |
| 1989 | 2,432.5 | 5.1 | 111.5 | 81.9 | 151.9 | 156.8 | 114.4 | 66.3 | 26.7 | 5.4 | 0.3 |
| 1988 | 2,298.0 | 4.9 | 102.7 | 75.7 | 142.7 | 149.7 | 108.2 | 63.1 | 25.6 | 5.1 | 0.3 |
| 1987 | 2,198.0 | 4.8 | 97.6 | 72.1 | 135.8 | 142.7 | 104.3 | 60.6 | 24.6 | 4.8 | 0.2 |
| 1986 | 2,135.5 | 4.7 | 95.8 | 69.3 | 135.1 | 137.3 | 101.1 | 59.3 | 23.8 | 4.8 | 0.3 |
| 1985 | 2,109.0 | 4.5 | 95.4 | 69.3 | 132.4 | 135.0 | 100.2 | 57.9 | 23.9 | 4.6 | 0.3 |
| 19842 | 2,070.5 | 4.4 | 94.1 | 69.2 | 128.1 | 132.2 | 98.4 | 56.7 | 23.3 | 4.8 | 0.2 |
| 19832 | 2,066.0 | 4.1 | 93.9 | 69.6 | 127.1 | 131.9 | 98.4 | 56.2 | 23.3 | 5.1 | 0.3 |
| 19822 | 2,106.5 | 4.0 | 94.3 | 69.7 | 128.9 | 135.4 | 101.3 | 57.5 | 23.3 | 5.1 | 0.4 |
| 19812 | 2,117.5 | 4.0 | 94.5 | 69.3 | 131.0 | 136.5 | 102.3 | 57.4 | 23.1 | 5.4 | 0.3 |
| 19802 | 2,176.5 | 4.3 | 97.8 | 72.5 | 135.1 | 140.0 | 103.9 | 59.9 | 23.5 | 5.6 | 0.3 |
| Race of child: |  |  |  |  |  |  |  |  |  |  |  |
| 19802 | 2,266.0 | 4.3 | 100.0 | 73.6 | 138.8 | 146.3 | 109.1 | 62.9 | 24.5 | 5.8 | 0.3 |
| 19792 | 2,263.2 | 4.6 | 101.7 | 75.7 | 140.4 | 146.3 | 108.2 | 60.7 | 24.7 | 6.1 | 0.4 |
| 19782 | 2,218.0 | 4.4 | 100.9 | 75.0 | 139.7 | 143.8 | 105.4 | 58.3 | 24.3 | 6.1 | 0.4 |
| 19772 | 2,251.0 | 4.7 | 104.7 | 79.6 | 142.9 | 144.4 | 106.4 | 57.5 | 25.4 | 6.6 | 0.5 |
| 19762 | 2,187.0 | 4.7 | 104.9 | 80.3 | 142.5 | 140.5 | 101.6 | 53.6 | 24.8 | 6.8 | 0.5 |
| 19752 | 2,243.0 | 5.1 | 111.8 | 85.6 | 152.4 | 142.8 | 102.2 | 53.1 | 25.6 | 7.5 | 0.5 |
| 19742 | 2,298.5 | 5.0 | 116.5 | 90.0 | 158.7 | 146.7 | 102.2 | 54.1 | 27.0 | 7.6 | 0.6 |
| 19732 | 2,411.0 | 5.4 | 123.1 | 96.0 | 166.6 | 153.1 | 103.9 | 58.1 | 29.4 | 8.6 | 0.6 |
| 19722 | 2,601.0 | 5.1 | 129.8 | 99.5 | 179.5 | 165.0 | 112.4 | 64.0 | 33.4 | 9.8 | 0.7 |
| 19713 | 2,902.0 | 5.1 | 134.5 | 99.4 | 192.6 | 186.6 | 128.0 | 74.8 | 38.9 | 11.6 | 0.9 |
| $1970{ }^{3}$ | 3,099.5 | 5.2 | 140.7 | 101.4 | 204.9 | 202.7 | 136.3 | 79.6 | 41.9 | 12.5 | 1.0 |

See footnotes at end of table.

Table 4. Total fertility rates and birth rates by age of mother and race: United States, 1970-94-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 |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $30-34$years | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $15-17$ years | $\begin{aligned} & 18-19 \\ & \text { years } \\ & \hline \end{aligned}$ |  |  |  |  |  |  |

American Indian 4
Race of mother:

| 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 | * |
| 19842 | 2,136.0 | 1.7 | 81.5 | 50.7 | 124.7 | 142.4 | 109.2 | 60.5 | 26.3 | 5.6 | * |
| 19832 | 2,180.5 | 1.9 | 84.2 | 55.2 | 121.4 | 145.5 | 113.7 | 58.9 | 25.5 | 6.4 | * |
| 19822 | 2,213.0 | 1.4 | 83.5 | 52.6 | 127.6 | 148.1 | 115.8 | 60.9 | 26.9 | 6.0 | * |
| 19812 | 2,090.0 | 2.1 | 78.4 | 49.7 | 121.5 | 141.2 | 105.6 | 58.9 | 25.2 | 6.6 | * |
| $1980{ }^{2}$ | 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

Race of mother:

| 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 |
| 19842 | 1,892.0 | 0.5 | 24.2 | 12.6 | 40.7 | 86.7 | 124.3 | 92.4 | 40.6 | 8.7 | 1.0 |
| 19832 | 1,943.5 | 0.5 | 26.1 | 12.9 | 44.5 | 94.0 | 126.2 | 93.3 | 39.4 | 8.2 | 1.0 |
| 19822 | 2,015.5 | 0.4 | 29.4 | 14.0 | 50.8 | 98.9 | 130.9 | 94.4 | 39.2 | 8.8 | 1.1 |
| 19812 | 1,976.0 | 0.3 | 28.5 | 13.4 | 49.5 | 96.4 | 129.1 | 93.4 | 38.0 | 8.6 | 0.9 |
| $1980{ }^{2}$ | 1,953.5 | 0.3 | 26.2 | 12.0 | 46.2 | 93.3 | 127.4 | 96.0 | 38.3 | 8.5 | 0.7 |

1 For 1970-91 includes births to races not shown separately.
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.
3 Based on a 50 -percent sample of births.
4 Includes births to Aleuts and Eskimos.

Table 5. Birth rates by live-birth order and race of mother: United States, 1980-94
[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]


[^5]Table 6. Live births by age of mother, live-birth order, Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: United States, 1994
[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 15 years | 15-19 years |  |  |  |  |  | 20-24 <br> years | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | 35-39 years | 40-44 <br> years | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{gathered} 15 \\ \text { years } \end{gathered}$ | $\begin{gathered} 16 \\ \text { years } \end{gathered}$ | $\begin{gathered} 17 \\ \text { years } \end{gathered}$ | $\begin{gathered} 18 \\ \text { years } \end{gathered}$ | $\begin{gathered} 19 \\ \text { years } \end{gathered}$ |  |  |  |  |  |  |


| Hispanic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total ............................. | 665,026 | 3,147 | 115,232 | 7,924 | 15,740 | 23,680 | 30,538 | 37,350 | 205,732 | 176,031 | 111,461 | 44,370 | 8,686 | 367 |
| First child | 255,654 | 3,014 | 86,457 | 7,334 | 13,749 | 18,999 | 22,151 | 24,224 | 90,745 | 47,473 | 20,671 | 6,197 | 1,047 | 50 |
| Second child ................... | 194,326 | 74 | 22,445 | 452 | 1,623 | 3,881 | 6,670 | 9,819 | 70,660 | 58,765 | 31,239 | 9,613 | 1,482 | 48 |
| Third child ....................... | 115,309 | 2 | 4,145 | 23 | 108 | 427 | 1,193 | 2,394 | 29,792 | 40,340 | 28,609 | 10,718 | 1,655 | 48 |
| Fourth child | 54,027 | - | 590 | - | 8 | 28 | 143 | 411 | 9,418 | 17,933 | 16,674 | 7,880 | 1,490 | 42 |
| Fifth child | 22,481 | - | 78 | 1 | 1 | 5 | 17 | 54 | 2,568 | 6,718 | 7,536 | 4,441 | 1,078 | 62 |
| Sixth child | 9,586 | - | 9 | - | 1 | - | 3 | 5 | 610 | 2,353 | 3,404 | 2,497 | 676 | 37 |
| Seventh child | 4,296 | - | 3 | - | - | - | 1 | 2 | 126 | 850 | 1,511 | 1,317 | 473 | 16 |
| Eighth child and over ........ | 3,940 | 57 | 2 | - | - | 1 | 1 | - | 52 | 443 | 1,185 | 1,466 | 730 | 62 |
| Not stated ...................... | 5,407 | 57 | 1,503 | 114 | 250 | 339 | 359 | 441 | 1,761 | 1,156 | 632 | 241 | 55 | 2 |
| Mexican ......................... | 454,536 | 2,183 | 82,330 | 5,568 | 11,146 | 16,793 | 21,820 | 27,003 | 148,075 | 118,987 | 69,973 | 27,295 | 5,450 | 243 |
| First child ........................ | 171,161 | 2,105 | 61,713 | 5,173 | 9,738 | 13,438 | 15,841 | 17,523 | 64,185 | 29,007 | 10,612 | 3,025 | 491 | 23 |
| Second child ................... | 130,320 | 48 | 16,185 | 300 | 1,143 | 2,793 | 4,771 | 7,178 | 51,845 | 39,238 | 17,426 | 4,834 | 717 | 27 |
| Third child | 79,809 | 1 | 2,902 | 19 | 76 | 310 | 840 | 1,657 | 21,816 | 28,915 | 18,872 | 6,369 | 908 | 26 |
| Fourth child | 39,185 | - | 395 | - | 5 | 14 | 90 | 286 | 6,717 | 13,405 | 12,241 | 5,411 | 988 | 28 |
| Fifth child | 16,790 | - | 47 | 1 | 1 | 4 | 10 | 31 | 1,779 | 5,015 | 5,742 | 3,358 | 805 | 44 |
| Sixth child ....................... | 7,385 | - | 6 | - | 1 | - | 1 | 4 | 420 | 1,769 | 2,678 | 1,947 | 535 | 30 |
| Seventh child ................... | 3,316 | - | 3 | - | - | - | 1 | 2 | 85 | 629 | 1,158 | 1,048 | 381 | 12 |
| Eighth child and over ........ | 3,139 | - | 2 | $\overline{-}$ | - | 1 | 1 | - | 35 | 327 | 926 | 1,194 | 604 | 51 |
| Not stated ....................... | 3,431 | 29 | 1,077 | 75 | 182 | 233 | 265 | 322 | 1,193 | 682 | 318 | 109 | 21 | 2 |
| Puerto Rican .................. | 57,240 | 409 | 12,867 | 1,011 | 1,943 | 2,820 | 3,316 | 3,777 | 17,821 | 13,764 | 8,475 | 3,316 | 567 | 21 |
| First child | 22,747 | 388 | 9,293 | 923 | 1,664 | 2,181 | 2,313 | 2,212 | 6,869 | 3,777 | 1,746 | 582 | 84 | 8 |
| Second child | 16,772 | 12 | 2,689 | 75 | 230 | 517 | 768 | 1,099 | 5,884 | 4,440 | 2,724 | 888 | 131 | 4 |
| Third child ....................... | 9,536 | - | 610 | 2 | 21 | 63 | 176 | 348 | 3,075 | 2,890 | 1,999 | 838 | 119 | 5 |
| Fourth child ...... | 4,310 | - | 90 | - | 1 | 7 | 23 | 59 | 1,207 | 1,417 | 1,005 | 493 | 97 | 1 |
| Fifth child | 1,733 | - | 16 | - | - | 1 | 3 | 12 | 400 | 605 | 452 | 211 | 47 | 2 |
| Sixth child ....................... | 754 | - | 1 | - | - | - | - | 1 | 102 | 276 | 213 | 128 | 34 | - |
| Seventh child .................. | 342 | - | - | - | - | - | - | - | 21 | 113 | 124 | 62 | 21 | 1 |
| Eighth child and over ........ | 271 | - | - | - | - | - | - | - | 7 | 56 | 109 | 78 | 21 | - |
| Not stated ....................... | 775 | 9 | 168 | 11 | 27 | 51 | 33 | 46 | 256 | 190 | 103 | 36 | 13 | - |
| Cuban ............................ | 11,889 | 21 | 845 | 45 | 94 | 194 | 219 | 293 | 2,347 | 3,641 | 3,606 | 1,185 | 236 | 8 |
| First child | 5,154 | 21 | 715 | 40 | 89 | 180 | 183 | 223 | 1,426 | 1,610 | 1,061 | 273 | 45 | 3 |
| Second child ................... | 4,191 | - | 111 | 3 | 5 | 13 | 28 | 62 | 706 | 1,364 | 1,481 | 445 | 82 | 2 |
| Third child ....................... | 1,758 | - | 15 | 1 | - | 1 | 6 | 7 | 161 | 498 | 719 | 300 | 64 | 1 |
| Fourth child | 531 | - | 2 | - | - | - | 1 | 1 | 34 | 122 | 227 | 120 | 25 | 1 |
| Fifth child ......................... | 146 | - | - | - | - | - | - | - | 12 | 27 | 73 | 26 | 8 | - |
| Sixth child ....................... | 43 | - | - | - | - | - | - | - | 2 | 9 | 17 | 10 | 5 | - |
| Seventh child | 25 | - | - | - | - | - | - | - | - | 3 | 13 | 6 | 3 | - |
| Eighth child and over ........ | 19 | - | - | - | - | - | - | - | - | 4 | 10 | 1 | 3 | 1 |
| Not stated ....................... | 22 | - | 2 | 1 | - | - | 1 | - | 6 | 4 | 5 | 4 | 1 | - |
| Central and South |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American ..... | 93,485 | 204 | 9,563 | 556 | 1,149 | 1,873 | 2,563 | 3,422 | 23,208 | 27,820 | 21,274 | 9,451 | 1,890 | 75 |
| First child | 37,062 | 197 | 7,631 | 526 | 1,032 | 1,611 | 1,973 | 2,489 | 12,147 | 9,626 | 5,364 | 1,745 | 342 | 10 |
| Second child | 28,605 | 5 | 1,563 | 26 | 100 | 227 | 496 | 714 | 7,324 | 9,698 | 6,984 | 2,597 | 422 | 12 |
| Third child ...... | 16,351 | - | 267 | - | 8 | 23 | 78 | 158 | 2,663 | 5,430 | 5,089 | 2,445 | 444 | 13 |
| Fourth child ................... | 6,632 | - | 41 | - | - | 5 | 6 | 30 | 737 | 1,977 | 2,213 | 1,368 | 286 | 10 |
| Fifth child | 2,570 | - | 5 | - | - | - | 1 | 4 | 165 | 683 | 899 | 632 | 172 | 14 |
| Sixth child | 930 | - | 1 | - | - | - | 1 | - | 31 | 166 | 344 | 303 | 79 | 6 |
| Seventh child | 401 | - | - | - | - | - | - | - | 5 | 47 | 147 | 144 | 55 | 3 |
| Eighth child and over ........ | 350 | - | - | - | - | - | - | - | 4 | 33 | 87 | 146 | 73 | 7 |
| Not stated ....................... | 584 | 2 | 55 | 4 | 9 | 7 | 8 | 27 | 132 | 160 | 147 | 71 | 17 | - |
| Other and unknown Hispanic $\qquad$ | 47,876 | 330 | 9,627 | 744 | 1,408 | 2,000 | 2,620 | 2,855 | 14,281 | 11,819 | 8,133 | 3,123 | 543 | 20 |
| First child ........................ | 19,530 | 303 | 7,105 | 672 | 1,226 | 1,589 | 1,841 | 1,777 | 6,118 | 3,453 | 1,888 | 572 | 85 | 6 |
| Second child ................... | 14,438 | 9 | 1,897 | 48 | 145 | 331 | 607 | 766 | 4,901 | 4,025 | 2,624 | 849 | 130 | 3 |
| Third child ...................... | 7,855 | 1 | 351 | 1 | 3 | 30 | 93 | 224 | 2,077 | 2,607 | 1,930 | 766 | 120 | 3 |
| Fourth child .................... | 3,369 | - | 62 | - | 2 | 2 | 23 | 35 | 723 | 1,012 | 988 | 488 | 94 | 2 |
| Fifth child ........................ | 1,242 | - | 10 | - | - | - | 3 | 7 | 212 | 388 | 370 | 214 | 46 | 2 |
| Sixth child ....................... | 474 | - | 1 | - | - | - | 1 | - | 55 | 133 | 152 | 109 | 23 | 1 |
| Seventh child ................... | 212 | - | - | - | - | - | - | - | 15 | 58 | 69 | 57 | 13 | - |
| Eighth child and over ........ | 161 | - | - | - | - | - | - | - | 6 | 23 | 53 | 47 | 29 | 3 |
| Not stated ....................... | 595 | 17 | 201 | 23 | 32 | 48 | 52 | 46 | 174 | 120 | 59 | 21 | 3 | - |

See footnotes at end of table.

Table 6. Live births by age of mother, live-birth order, Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: United States, 1994 -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 15 years | 15-19 years |  |  |  |  |  | 20-24 years | 25-29 <br> years | 30-34 years | 35-39 years | 40-44 <br> years | 45-49 <br> years |
|  |  |  | Total | $\begin{gathered} 15 \\ \text { years } \end{gathered}$ | 16 years | $\begin{gathered} 17 \\ \text { years } \end{gathered}$ | $\begin{gathered} 18 \\ \text { years } \end{gathered}$ | 19 years |  |  |  |  |  |  |


| Non-Hispanic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total 1 | 3,245,115 | 9,642 | 385,647 | 22,574 | 46,804 | 76,717 | 105,739 | 133,813 | 786,203 | 901,204 | 784,147 | 322,323 | 53,857 | 2,092 |
| First child | 1,346,858 | 9,388 | 300,045 | 21,258 | 42,009 | 64,168 | 80,657 | 91,953 | 379,120 | 350,516 | 222,747 | 72,913 | 11,691 | 438 |
| Second child | 1,058,902 | 214 | 68,094 | 1,148 | 4,195 | 10,675 | 20,336 | 31,740 | 259,663 | 318,517 | 290,992 | 106,018 | 14,990 | 414 |
| Third child | 509,952 | 9 | 13,185 | 44 | 368 | 1,370 | 3,665 | 7,738 | 100,415 | 147,058 | 163,397 | 74,447 | 11,102 | 339 |
| Fourth child | 189,184 | - | 2,204 | 4 | 17 | 129 | 534 | 1,520 | 31,415 | 51,683 | 61,851 | 35,401 | 6,385 | 245 |
| Fifth child | 69,604 | - | 321 | 1 | 2 | 11 | 58 | 249 | 9,168 | 18,166 | 22,888 | 15,401 | 3,508 | 152 |
| Sixth child | 28,813 | - | 36 | - | - | 3 | 8 | 25 | 2,510 | 6,969 | 9,843 | 7,330 | 2,014 | 111 |
| Seventh child | 13,250 | - | 5 | - | - | - | 2 | 3 | 620 | 2,774 | 4,566 | 3,913 | 1,287 | 85 |
| Eighth child and over ........ | 14,023 | - | 1 | - | - | - | 1 | - | 226 | 1,662 | 4,147 | 5,193 | 2,509 | 285 |
| Not stated ...................... | 14,529 | 31 | 1,756 | 119 | 213 | 361 | 478 | 585 | 3,066 | 3,859 | 3,716 | 1,707 | 371 | 23 |
| White | 2,438,855 | 2,858 | 232,731 | 9,625 | 24,509 | 45,088 | 65,975 | 87,534 | 556,019 | 708,577 | 637,244 | 257,984 | 41,917 | 1,525 |
| First child | 1,028,398 | 2,809 | 191,749 | 9,309 | 23,080 | 40,177 | 54,156 | 65,027 | 288,670 | 289,365 | 185,099 | 60,633 | 9,719 | 354 |
| Second child | 822,478 | 41 | 34,891 | 264 | 1,265 | 4,357 | 10,314 | 18,691 | 186,769 | 258,170 | 243,102 | 87,014 | 12,163 | 328 |
| Third child | 379,338 | - | 4,589 | 7 | 70 | 324 | 1,115 | 3,073 | 60,913 | 110,907 | 133,926 | 60,124 | 8,607 | 272 |
| Fourth child | 128,194 | - | 464 | - | 3 | 21 | 102 | 338 | 14,212 | 33,997 | 47,110 | 27,382 | 4,840 | 189 |
| Fifth child | 41,438 | - | 61 | - | 1 | 4 | 7 | 49 | 2,864 | 9,456 | 15,389 | 11,120 | 2,455 | 93 |
| Sixth child | 15,313 | - | 5 | - | - | - | 1 | 4 | 569 | 2,717 | 5,772 | 4,821 | 1,364 | 65 |
| Seventh child .................. | 6,614 | - | - | - | - | - | - | - | 106 | 846 | 2,317 | 2,456 | 845 | 44 |
| Eighth child and over ........ | 7,127 | - | 1 | - | - | - | 1 | - | 53 | 389 | 1,733 | 3,141 | 1,649 | 161 |
| Not stated ...................... | 9,955 | 8 | 971 | 45 | 90 | 205 | 279 | 352 | 1,863 | 2,730 | 2,796 | 1,293 | 275 | 19 |
| Black ............................ | 619,198 | 6,365 | 137,907 | 12,048 | 20,409 | 28,780 | 35,695 | 40,975 | 192,939 | 137,891 | 96,016 | 40,733 | 7,115 | 232 |
| First child | 238,491 | 6,178 | 96,841 | 11,121 | 17,271 | 21,626 | 23,482 | 23,341 | 71,580 | 36,196 | 20,097 | 6,523 | 1,045 | 31 |
| Second child | 177,607 | 159 | 30,489 | 821 | 2,735 | 5,910 | 9,201 | 11,822 | 61,979 | 43,597 | 29,209 | 10,661 | 1,469 | 44 |
| Third child | 104,760 | 5 | 7,960 | 31 | 273 | 983 | 2,369 | 4,304 | 34,972 | 29,202 | 21,573 | 9,522 | 1,492 | 34 |
| Fourth child | 50,407 | - | 1,603 | 3 | 10 | 102 | 402 | 1,086 | 15,372 | 14,730 | 11,640 | 5,986 | 1,049 | 27 |
| Fifth child | 23,281 | - | 234 | 1 | 1 | 7 | 44 | 181 | 5,658 | 7,232 | 6,072 | 3,305 | 751 | 29 |
| Sixth child ....................... | 10,854 | - | 25 | - | - | 3 | 7 | 15 | 1,725 | 3,492 | 3,190 | 1,919 | 481 | 22 |
| Seventh child .................. | 5,156 | - | 5 | - | - | - | 2 | 3 | 460 | 1,556 | 1,747 | 1,086 | 288 | 14 |
| Eighth child and over ........ | 4,891 | - | - | - | - | - | - | - | 144 | 1,017 | 1,813 | 1,417 | 472 | 28 |
| Not stated ....................... | 3,751 | 23 | 750 | 71 | 119 | 149 | 188 | 223 | 1,049 | 869 | 675 | 314 | 68 | 3 |

[^6]Table 7. Birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race of mother for mothers of non-Hispanic origin: United States, 1994
[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 |  |  |  | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 <br> years |
|  |  | years | Total | $15-17$ <br> years | $18-19$ <br> years |  |  |  |  |  |  |
| Hispanic |  |  |  |  |  |  |  |  |  |  |  |
| Total ............................ | 105.6 | 2.7 | 107.7 | 74.0 | 158.0 | 188.2 | 153.2 | 95.4 | 44.3 | 10.7 | 0.6 |
| First child ...................... | 40.9 | 2.7 | 81.9 | 63.6 | 109.2 | 83.7 | 41.6 | 17.8 | 6.2 | 1.3 | 0.1 |
| Second child ................. | 31.1 | 0.1 | 21.3 | 9.4 | 38.8 | 65.2 | 51.5 | 26.9 | 9.6 | 1.8 | 0.1 |
| Third child ..................... | 18.5 | * | 3.9 | 0.9 | 8.4 | 27.5 | 35.3 | 24.6 | 10.8 | 2.0 | 0.1 |
| Fourth child ................... | 8.7 | * | 0.6 | 0.1 | 1.3 | 8.7 | 15.7 | 14.4 | 7.9 | 1.8 | 0.1 |
| Fifth child ...................... | 3.6 | * | 0.1 | * | 0.2 | 2.4 | 5.9 | 6.5 | 4.5 | 1.3 | 0.1 |
| Sixth and seventh child ... | 2.2 | * | * | * | * | 0.7 | 2.8 | 4.2 | 3.8 | 1.4 | 0.1 |
| Eighth child and over ...... | 0.6 | * | * | * | * | 0.0 | 0.4 | 1.0 | 1.5 | 0.9 | 0.1 |
| Mexican ....................... | 115.4 | 2.8 | 116.2 | 78.0 | 175.0 | 202.6 | 165.2 | 96.9 | 46.2 | 11.7 | 0.7 |
| First child ...................... | 43.8 | 2.7 | 88.2 | 66.9 | 121.0 | 88.5 | 40.5 | 14.8 | 5.1 | 1.1 | 0.1 |
| Second child ................. | 33.4 | 0.1 | 23.1 | 10.0 | 43.4 | 71.5 | 54.8 | 24.2 | 8.2 | 1.6 | 0.1 |
| Third child ..................... | 20.4 | * | 4.1 | 1.0 | 9.1 | 30.1 | 40.4 | 26.3 | 10.8 | 2.0 | 0.1 |
| Fourth child ................... | 10.0 | * | 0.6 | * | 1.4 | 9.3 | 18.7 | 17.0 | 9.2 | 2.1 | 0.1 |
| Fifth child | 4.3 | * | 0.1 | * | 0.1 | 2.5 | 7.0 | 8.0 | 5.7 | 1.7 | 0.1 |
| Sixth and seventh child ... | 2.7 | * | * | * | * | 0.7 | 3.3 | 5.3 | 5.1 | 2.0 | 0.1 |
| Eighth child and over ...... | 0.8 | * | * | * | * | 0.0 | 0.5 | 1.3 | 2.0 | 1.3 | 0.2 |
| Puerto Rican ................. | 81.9 | 3.2 | 106.0 | 72.8 | 168.4 | 181.0 | 111.7 | 62.3 | 28.0 | 5.6 | 0.2 |
| First child ..................... | 33.0 | 3.1 | 77.6 | 61.1 | 108.7 | 70.8 | 31.1 | 13.0 | 5.0 | 0.8 | * |
| Second child | 24.3 | * | 22.5 | 10.5 | 44.8 | 60.6 | 36.5 | 20.3 | 7.6 | 1.3 | * |
| Third child ..................... | 13.8 | * | 5.1 | 1.1 | 12.6 | 31.7 | 23.8 | 14.9 | 7.2 | 1.2 | * |
| Fourth child ................... | 6.3 | * | 0.7 | * | 2.0 | 12.4 | 11.7 | 7.5 | 4.2 | 1.0 | * |
| Fifth child ...................... | 2.5 | * | * | * | * | 4.1 | 5.0 | 3.4 | 1.8 | 0.5 | $*$ |
| Sixth and seventh child ... | 1.6 | * | * | * | * | 1.3 | 3.2 | 2.5 | 1.6 | 0.6 | * |
| Eighth child and over ...... | 0.4 | * | * | * | * | * | 0.5 | 0.8 | 0.7 | 0.2 | * |
| Cuban .......................... | 55.9 | 0.6 | 40.2 | 23.1 | 77.4 | 72.5 | 98.4 | 87.6 | 31.3 | 5.5 | * |
| First child ...................... | 24.3 | 0.6 | 34.1 | 21.5 | 61.5 | 44.2 | 43.5 | 25.8 | 7.2 | 1.0 | * |
| Second child ................. | 19.7 | * | 5.3 | 1.5 | 13.6 | 21.9 | 36.9 | 36.0 | 11.8 | 1.9 | * |
| Third child ..................... | 8.3 | * | * | * | * | 5.0 | 13.5 | 17.5 | 7.9 | 1.5 | * |
| Fourth child ................... | 2.5 | * | * | * | * | 1.1 | 3.3 | 5.5 | 3.2 | 0.6 | * |
| Fifth child ...................... | 0.7 | * | * | * | * | * | 0.7 | 1.8 | 0.7 | * | * |
| Sixth and seventh child ... | 0.3 | * | * | * | * | * | * | 0.7 | * | * | * |
| Eighth child and over ...... | * | * | * | * | * | * | * | . | * | * | * |
| Other Hispanic ${ }^{2}$............ | 97.7 | 2.6 | 87.9 | 66.4 | 112.4 | 162.0 | 147.4 | 109.3 | 49.4 | 11.9 | 0.6 |
| First child ..................... | 39.4 | 2.5 | 68.4 | 58.1 | 80.2 | 79.6 | 49.0 | 27.2 | 9.2 | 2.1 | * |
| Second child ................. | 30.0 | * | 16.1 | 7.6 | 25.6 | 53.3 | 51.4 | 36.0 | 13.6 | 2.7 | * |
| Third child ..................... | 16.9 | * | 2.9 | 0.6 | 5.5 | 20.7 | 30.1 | 26.3 | 12.7 | 2.8 | * |
| Fourth child ................... | 7.0 | * | 0.5 | * | 0.9 | 6.4 | 11.2 | 12.0 | 7.3 | 1.9 | * |
| Fifth child ...................... | 2.7 | * | * | * | * | 1.6 | 4.0 | 4.8 | 3.3 | 1.1 | * |
| Sixth and seventh child ... | 1.4 | * | * | * | * | 0.5 | 1.5 | 2.7 | 2.4 | 0.8 | * |
| Eighth child and over ...... | 0.4 | * | * | * | * | * | 0.2 | 0.5 | 0.8 | 0.5 | * |

[^7]Table 7. Birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race of mother for mothers of non-Hispanic origin: United States, 1994 -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 | 15-44 years ${ }^{1}$ | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 10-14 years | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | 25-29 years | 30-34 <br> years | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-44 <br> years | $45-49$ <br> years |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $18-19$ <br> years |  |  |  |  |  |  |


| Non-Hispanic 3 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total 4 | 62.0 | 1.2 | 52.0 | 32.5 | 81.8 | 100.4 | 108.6 | 79.9 | 32.6 | 6.0 | 0.3 |
| First child ...................... | 25.9 | 1.2 | 40.6 | 28.5 | 59.2 | 48.6 | 42.4 | 22.8 | 7.4 | 1.3 | 0.1 |
| Second child .................. | 20.3 | 0.0 | 9.2 | 3.6 | 17.9 | 33.3 | 38.5 | 29.8 | 10.8 | 1.7 | 0.1 |
| Third child ..................... | 9.8 | * | 1.8 | 0.4 | 3.9 | 12.9 | 17.8 | 16.7 | 7.6 | 1.2 | 0.0 |
| Fourth child | 3.6 | * | 0.3 | 0.0 | 0.7 | 4.0 | 6.3 | 6.3 | 3.6 | 0.7 | 0.0 |
| Fifth child ...................... | 1.3 | * | 0.0 | * | 0.1 | 1.2 | 2.2 | 2.3 | 1.6 | 0.4 | 0.0 |
| Sixth and seventh child ... | 0.8 | * | 0.0 | * | 0.0 | 0.4 | 1.2 | 1.5 | 1.1 | 0.4 | 0.0 |
| Eighth child and over ...... | 0.3 | * | * | * | * | 0.0 | 0.2 | 0.4 | 0.5 | 0.3 | 0.0 |
| White ........................... | 58.3 | 0.5 | 40.4 | 22.8 | 67.4 | 90.9 | 107.9 | 80.7 | 32.1 | 5.7 | 0.2 |
| First child ...................... | 24.7 | 0.5 | 33.4 | 21.0 | 52.5 | 47.3 | 44.2 | 23.6 | 7.6 | 1.3 | 0.1 |
| Second child | 19.7 | 0.0 | 6.1 | 1.7 | 12.8 | 30.6 | 39.4 | 30.9 | 10.9 | 1.7 | 0.1 |
| Third child ..................... | 9.1 | * | 0.8 | 0.1 | 1.9 | 10.0 | 17.0 | 17.0 | 7.5 | 1.2 | 0.0 |
| Fourth child ................... | 3.1 | * | 0.1 | 0.0 | 0.2 | 2.3 | 5.2 | 6.0 | 3.4 | 0.7 | 0.0 |
| Fifth child | 1.0 | * | 0.0 | * | 0.0 | 0.5 | 1.5 | 2.0 | 1.4 | 0.3 | 0.0 |
| Sixth and seventh child ... | 0.5 | * | * | * | * | 0.1 | 0.6 | 1.0 | 0.9 | 0.3 | 0.0 |
| Eighth child and over ...... | 0.2 | * | * | * | * | 0.0 | 0.1 | 0.2 | 0.4 | 0.2 | 0.0 |
| Black | 79.0 | 4.7 | 107.7 | 78.6 | 152.9 | 150.3 | 107.0 | 67.5 | 29.5 | 6.0 | 0.3 |
| First child ...................... | 30.6 | 4.6 | 76.1 | 64.6 | 93.9 | 56.1 | 28.3 | 14.2 | 4.8 | 0.9 | 0.0 |
| Second child .................. | 22.8 | 0.1 | 23.9 | 12.2 | 42.2 | 48.6 | 34.0 | 20.7 | 7.8 | 1.3 | 0.1 |
| Third child ..................... | 13.4 | * | 6.2 | 1.7 | 13.4 | 27.4 | 22.8 | 15.3 | 6.9 | 1.3 | 0.0 |
| Fourth child ................... | 6.5 | * | 1.3 | 0.1 | 3.0 | 12.0 | 11.5 | 8.3 | 4.4 | 0.9 | 0.0 |
| Fifth child ...................... | 3.0 | * | 0.2 | * | 0.4 | 4.4 | 5.6 | 4.3 | 2.4 | 0.6 | 0.0 |
| Sixth and seventh child ... | 2.1 | * | 0.0 | * | 0.1 | 1.7 | 3.9 | 3.5 | 2.2 | 0.7 | 0.0 |
| Eighth child and over ...... | 0.6 | * | * | * | * | 0.1 | 0.8 | 1.3 | 1.0 | 0.4 | 0.0 |

[^8]Table 8. Live births by race of mother, birth rates, and fertility rates: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1994
[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]

| State | Number |  |  |  |  | Birth rate | Fertility rate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { All } \\ & \text { races } \end{aligned}$ | White | Black | American Indian ${ }^{1}$ | Asian or Pacific Islander |  |  |
| United States 2 | 3,952,767 | 3,121,004 | 636,391 | 37,740 | 157,632 | 15.2 | 66.7 |
| Alabama | 60,939 | 39,690 | 20,649 | 90 | 510 | 14.4 | 62.9 |
| Alaska | 10,678 | 7,440 | 499 | 2,318 | 421 | 17.6 | 75.2 |
| Arizona | 70,846 | 61,570 | 2,485 | 5,518 | 1,273 | 17.4 | 79.7 |
| Arkansas ....................................................... | 34,718 | 26,378 | 7,836 | 201 | 303 | 14.2 | 64.9 |
| California | 567,930 | 462,719 | 42,807 | 3,355 | 59,049 | 18.1 | 78.3 |
| Colorado | 54,071 | 49,292 | 2,773 | 505 | 1,501 | 14.8 | 63.3 |
| Connecticut | 45,655 | 38,520 | 5,735 | 163 | 1,237 | 13.9 | 62.1 |
| Delaware ....................................................... | 10,411 | 7,774 | 2,396 | 25 | 216 | 14.7 | 62.7 |
| District of Columbia | 9,930 | 1,481 | 8,032 | 7 | 410 | 17.4 | 68.5 |
| Florida ........................................................... | 190,654 | 143,449 | 43,267 | 487 | 3,451 | 13.7 | 65.8 |
| Georgia | 111,011 | 69,641 | 39,070 | 142 | 2,158 | 15.7 | 64.9 |
| Hawaii | 19,517 | 5,435 | 627 | 188 | 13,267 | 16.6 | 74.7 |
| Idaho | 17,526 | 16,952 | 62 | 284 | 228 | 15.5 | 70.3 |
| Illinois ........................................................... | 189,257 | 142,348 | 40,971 | 220 | 5,718 | 16.1 | 70.5 |
| Indiana | 82,595 | 72,711 | 8,978 | 97 | 809 | 14.4 | 62.4 |
| lowa | 37,079 | 35,226 | 1,055 | 176 | 622 | 13.1 | 60.8 |
| Kansas | 37,379 | 33,180 | 3,142 | 313 | 744 | 14.6 | 66.7 |
| Kentucky | 52,983 | 47,641 | 4,895 | 49 | 398 | 13.8 | 60.1 |
| Louisiana | 67,817 | 37,925 | 28,645 | 266 | 981 | 15.7 | 67.6 |
| Maine ............................................................ | 14,441 | 14,118 | 77 | 90 | 156 | 11.6 | 51.4 |
| Maryland | 73,971 | 46,497 | 24,615 | 182 | 2,677 | 14.8 | 61.9 |
| Massachusetts | 83,787 | 72,107 | 8,121 | 150 | 3,409 | 13.9 | 59.3 |
| Michigan | 138,028 | 107,783 | 27,175 | 843 | 2,227 | 14.5 | 63.1 |
| Minnesota ...................................................... | 64,305 | 57,617 | 3,015 | 1,142 | 2,531 | 14.1 | 61.9 |
| Mississippi | 41,954 | 21,541 | 19,955 | 156 | 302 | 15.7 | 68.2 |
| Missouri | 73,543 | 60,489 | 11,875 | 235 | 944 | 13.9 | 62.6 |
| Montana | 11,067 | 9,733 | 32 | 1,205 | 97 | 12.9 | 60.9 |
| Nebraska | 23,156 | 21,148 | 1,273 | 376 | 359 | 14.3 | 64.9 |
| Nevada | 23,911 | 20,429 | 2,079 | 385 | 1,018 | 16.4 | 74.5 |
| New Hampshire ............................................... | 15,106 | 14,840 | 104 | 20 | 142 | 13.3 | 56.2 |
| New Jersey ..................................................... | 117,501 | 88,343 | 23,185 | 469 | 5,504 | 14.9 | 65.9 |
| New Mexico .................................................... | 27,591 | 23,053 | 521 | 3,646 | 371 | 16.7 | 74.8 |
| New York. | 278,392 | 204,271 | 58,901 | 631 | 14,589 | 15.3 | 66.8 |
| North Carolina ................................................. | 101,420 | 70,295 | 27,882 | 1,554 | 1,689 | 14.3 | 62.1 |
| North Dakota | 8,584 | 7,700 | 68 | 703 | 113 | 13.5 | 62.6 |
| Ohio | 155,944 | 130,279 | 23,615 | 239 | 1,811 | 14.0 | 61.8 |
| Oklahoma | 45,703 | 35,812 | 4,769 | 4,370 | 752 | 14.0 | 64.6 |
| Oregon | 41,837 | 38,819 | 947 | 624 | 1,447 | 13.6 | 61.3 |
| Pennsylvania | 157,071 | 130,326 | 23,397 | 218 | 3,130 | 13.0 | 59.6 |
| Rhode Island ................................................... | 13,466 | 11,839 | 1,085 | 113 | 429 | 13.5 | 59.6 |
| South Carolina ................................................. | 52,043 | 32,016 | 19,409 | 109 | 509 | 14.2 | 60.6 |
| South Dakota | 10,507 | 8,777 | 76 | 1,535 | 119 | 14.6 | 68.6 |
| Tennessee | 73,191 | 55,613 | 16,603 | 153 | 822 | 14.1 | 61.4 |
| Texas ............................................................ | 321,114 | 272,308 | 40,276 | 703 | 7,827 | 17.5 | 75.0 |
| Utah | 38,279 | 36,333 | 287 | 654 | 1,005 | 20.1 | 85.9 |
| Vermont ......................................................... | 7,377 | 7,263 | 27 | 10 | 77 | 12.7 | 54.6 |
| Virginia | 95,039 | 69,315 | 22,331 | 141 | 3,252 | 14.5 | 60.5 |
| Washington .................................................... | 77,358 | 67,600 | 3,065 | 1,681 | 5,012 | 14.5 | 62.9 |
| West Virginia .................................................. | 21,375 | 20,451 | 798 | 13 | 113 | 11.7 | 53.3 |
| Wisconsin ....... | 68,282 | 58,813 | 6,843 | 779 | 1,847 | 13.4 | 59.9 |
| Wyoming ........................................................ | 6,428 | 6,104 | 61 | 207 | 56 | 13.5 | 61.2 |
| Puerto Rico ..................................................... | 364,213 | 59,962 | 4,040 | --- | --- | --- | --- |
| Virgin Islands .................................................. | 2,396 | 368 | 2,001 | 8 | 19 | --- | --- |
| Guam ............................................................. | 4,410 | 538 | 73 | 4 | 1,912 | --- | --- |

[^9]
Table 9. Live births by Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1994
[By place of residence]

| State | $\underset{\text { origins }}{\text { All }}$ | Origin of mother |  |  |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Hispanic |  |  |  |  |  | Non-Hispanic |  |  |  |
|  |  | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{1}$ | White | Black |  |
| United States 2 ...... | 3,952,767 | 665,026 | 454,536 | 57,240 | 11,889 | 93,485 | 47,876 | 3,245,115 | 2,438,855 | 619,198 | 42,626 |
| Alabama . | 60,939 | 579 | 337 | 60 | 15 | 92 | 75 | 60,320 | 39,132 | 20,615 | 40 |
| Alaska ...................... | 10,678 | 580 | 200 | 58 | 4 | 42 | 276 | 9,905 | 6,897 | 461 | 193 |
| Arizona ..................... | 70,846 | 24,135 | 23,194 | 190 | 41 | 507 | 203 | 45,135 | 36,597 | 2,322 | 1,576 |
| Arkansas ................... | 34,718 | 782 | 650 | 32 | 6 | 63 | 31 | 33,893 | 25,594 | 7,806 | 43 |
| California ................... | 567,930 | 257,750 | 219,046 | 2,064 | 837 | 28,508 | 7,295 | 306,435 | 204,476 | 41,510 | 3,745 |
| Colorado | 54,071 | 10,667 | 6,695 | 154 | 34 | 211 | 3,573 | 43,391 | 38,930 | 2,679 | 13 |
| Connecticut ................ | 45,655 | 5,297 | 267 | 3,786 | 53 | 908 | 283 | 37,751 | 31,684 | 4,836 | 2,607 |
| Delaware ................... | 10,411 | 526 | 204 | 204 | 8 | 93 | 17 | 9,870 | 7,324 | 2,315 | 15 |
| District of Columbia ..... | 9,930 | 850 | 40 | 11 | - | 751 | 48 | 9,040 | 1,260 | 7,618 | 40 |
| Florida | 190,654 | 32,895 | 6,179 | 5,866 | 8,032 | 11,179 | 1,639 | 157,640 | 111,500 | 42,299 | 119 |
| Georgia .................... | 111,011 | 4,363 | 3,028 | 356 | 90 | 625 | 264 | 106,400 | 65,309 | 38,852 | 248 |
| Hawaii ..... | 19,517 | 2,176 | 418 | 663 | 10 | 60 | 1,025 | 17,334 | 4,728 | 601 | 7 |
| Idaho ....... | 17,526 | 1,978 | 1,695 | 10 | 2 | 45 | 226 | 15,512 | 14,972 | 59 | 36 |
| Illinois ....................... | 189,257 | 30,350 | 24,086 | 3,068 | 189 | 863 | 2,144 | 158,799 | 112,066 | 40,798 | 108 |
| Indiana .................... | 82,595 | 2,324 | 1,759 | 253 | 20 | 105 | 187 | 80,004 | 70,172 | 8,941 | 267 |
| Iowa ......................... | 37,079 | 1,060 | 843 | 23 | 7 | 39 | 148 | 35,985 | 34,177 | 1,047 | 34 |
| Kansas .................... | 37,379 | 2,694 | 2,224 | 75 | 18 | 109 | 268 | 34,321 | 30,194 | 3,102 | 364 |
| Kentucky ................... | 52,983 | 466 | 285 | 70 | 14 | 52 | 45 | 52,479 | 47,179 | 4,876 | 38 |
| Louisiana .................. | 67,817 | 1,413 | 401 | 385 | 60 | 159 | 408 | 66,340 | 36,808 | 28,432 | 64 |
| Maine ....................... | 14,441 | 107 | 30 | 19 | 2 | 10 | 46 | 14,124 | 13,819 | 69 | 210 |
| Maryland ................... | 73,971 | 3,090 | 560 | 290 | 54 | 1,797 | 389 | 70,319 | 44,019 | 23,641 | 562 |
| Massachusetts ........... | 83,787 | 8,435 | 260 | 4,563 | 95 | 3,133 | 384 | 75,033 | 64,821 | 6,667 | 319 |
| Michigan ................... | 138,028 | 4,454 | 2,827 | 415 | 57 | 223 | 932 | 127,222 | 97,473 | 26,876 | 6,352 |
| Minnesota ................. | 64,305 | 1,661 | 1,150 | 55 | 12 | 117 | 327 | 57,784 | 52,141 | 2,554 | 4,860 |
| Mississippi ................ | 41,954 | 182 | 86 | 16 | 1 | 19 | 60 | 41,757 | 21,347 | 19,953 | 15 |
| Missouri .................... | 73,543 | 1,224 | 909 | 56 | 17 | 125 | 117 | 72,253 | 59,289 | 11,813 | 66 |
| Montana .................... | 11,067 | 250 | 158 | 6 | 2 | 7 | 77 | 10,457 | 9,172 | 24 | 360 |
| Nebraska .................. | 23,156 | 1,382 | 1,105 | 11 | 4 | 79 | 183 | 21,393 | 19,399 | 1,265 | 381 |
| Nevada ..................... | 23,911 | 5,227 | 4,270 | 112 | 96 | 492 | 257 | 18,619 | 15,231 | 2,042 | 65 |
| New Hampshire .......... | 15,106 | 187 | 39 | 74 | 5 | 22 | 47 | 14,090 | 13,848 | 87 | 829 |
| New Jersey ................ | 117,501 | 18,083 | 1,782 | 7,877 | 877 | 7,334 | 213 | 99,215 | 71,802 | 21,546 | 203 |
| New Mexico ............... | 27,591 | 12,984 | 4,331 | 47 | 83 | 53 | 8,470 | 14,601 | 10,185 | 505 | 6 |
| New York .................. | 278,392 | 53,216 | 5,504 | 17,543 | 488 | 23,551 | 6,130 | 212,247 | 144,340 | 53,155 | 12,929 |
| North Carolina ............ | 101,420 | 3,135 | 2,063 | 358 | 73 | 411 | 230 | 98,260 | 67,272 | 27,807 | 25 |
| North Dakota .............. | 8,584 | 116 | 63 | 4 | 1 | 9 | 39 | 8,392 | 7,513 | 67 | 76 |
| Ohio ......................... | 155,944 | 2,717 | 1,269 | 1,047 | 43 | 155 | 203 | 152,952 | 127,425 | 23,505 | 275 |
| Oklahoma ................. | 45,703 | 2,260 | 1,664 | 130 | 7 | 51 | 408 | 43,381 | 33,595 | 4,734 | 62 |
| Oregon ...... | 41,837 | 4,357 | 4,012 | 44 | 16 | 166 | 119 | 37,450 | 34,499 | 931 | 30 |
| Pennsylvania .............. | 157,071 | 6,288 | 635 | 4,385 | 94 | 635 | 539 | 150,492 | 124,230 | 22,956 | 291 |
| Rhode Island ............... | 13,466 | 1,623 | 77 | 529 | 13 | 899 | 105 | 10,682 | 9,231 | 946 | 1,161 |
| South Carolina ........... | 52,043 | 643 | 318 | 115 | 24 | 87 | 99 | 51,357 | 31,397 | 19,380 | 43 |
| South Dakota ............. | 10,507 | 124 | 102 | 3 | 2 | 8 | 9 | 10,377 | 8,661 | 76 | 6 |
| Tennessee ................ | 73,191 | 845 | 516 | 108 | 27 | 87 | 107 | 72,319 | 54,783 | 16,576 | 27 |
| Texas ....................... | 321,114 | 133,125 | 117,586 | 888 | 229 | 6,113 | 8,309 | 187,415 | 139,105 | 39,907 | 574 |
| Utah ........................ | 38,279 | 2,704 | 1,876 | 61 | 12 | 362 | 393 | 35,538 | 33,714 | 201 | 37 |
| Vermont .................... | 7,377 | 38 | 12 | 12 | 1 | 5 | 8 | 6,864 | 6,758 | 25 | 475 |
| Virginia ..................... | 95,039 | 4,609 | 858 | 445 | 70 | 2,708 | 528 | 90,323 | 64,824 | 22,176 | 107 |
| Washington ................ | 77,358 | 8,108 | 6,853 | 177 | 27 | 249 | 802 | 66,599 | 57,511 | 2,880 | 2,651 |
| West Virginia .............. | 21,375 | 106 | 34 | 11 | 1 | 7 | 53 | 21,260 | 20,377 | 794 | 9 |
| Wisconsin ................. | 68,282 | 2,401 | 1,641 | 502 | 15 | 156 | 87 | 65,823 | 56,419 | 6,814 | 58 |
| Wyoming ................... | 6,428 | 460 | 395 | 9 | 1 | 4 | 51 | 5,963 | 5,656 | 57 | 5 |
| Puerto Rico ................ | 64,213 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 64,213 |
| Virgin Islands ............. | 2,396 | 405 | 55 | 198 | 2 | 81 | 69 | 1,899 | 139 | 1,738 | 92 |
| Guam ....................... | 4,410 | 66 | 44 | 10 | - | 3 | 9 | 4,294 | 486 | 72 | 50 |

[^10]Table 10. Total number of births, rates, and percent of births with selected demographic characteristics, by specified race of mother: United States, 1994

| 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 |  |  |  |  |  |  |  |  |  |
|  | 3,952,767 | 3,121,004 | 636,391 | 37,740 | 157,632 | 26,578 | 9,230 | 5,955 | 30,495 | 85,374 |
|  | Rate |  |  |  |  |  |  |  |  |  |
| Birth rate ${ }^{2}$ | 15.2 | 14.4 | 19.5 | 17.1 | 17.5 | --- | --- | --- | --- |  |
| Fertility rate 3 ........................ | 66.7 | 64.9 | 76.9 | 70.9 | 66.8 | --- | --- | --- | --- | --- |
| Total fertility rate ${ }^{4}$................. | 2,036.0 | 1,985.0 | 2,300.0 | 2,080.0 | 1,943.0 | --- | --- | --- | --- | --- |
| Sex Ratio ${ }^{5}$. | 1,048 | 1,051 | 1,028 | 1,031 | 1,064 | 1,093 | 1,048 | 1,034 | 1,051 | 1,064 |
|  | Percent |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 |  |  |  |  |  |  |  |  |  |  |
| Fourth- and higher-order births | 10.5 | 9.5 | 15.3 | 20.6 | 9.5 | 2.8 | 4.2 | 15.2 | 7.2 | 12.7 |
| Births to unmarried mothers .... | 32.6 | 25.4 | 70.4 | 57.0 | 16.2 | 7.2 | 11.2 | 48.6 | 18.5 | 16.4 |
| Mothers completing 12 years or more of school $\qquad$ | 77.1 | 78.3 | 70.7 | 66.0 | 82.6 | 86.3 | 97.2 | 81.5 | 91.1 | 76.7 |
| Mothers born in the 50 States and D.C. $\qquad$ | 81.5 | 82.9 | 90.4 | 95.7 | 15.5 | 8.7 | 46.6 | 97.1 | 15.1 | 8.7 |

[^11]Table 11. Total number of births, rates, and percent of births with selected demographic characteristics, by Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: United States, 1994

| Characteristic | All origins ${ }^{1}$ | Hispanic |  |  |  |  |  | Non-Hispanic |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{2}$ | White | Black |
| Births | Number |  |  |  |  |  |  |  |  |  |
|  | 3,952,767 | 665,026 | 454,536 | 57,240 | 11,889 | 93,485 | 47,876 | 3,245,115 | 2,438,855 | 619,198 |
|  | Rate |  |  |  |  |  |  |  |  |  |
| Birth rate ${ }^{3}$ | 15.2 | 25.5 | 27.0 | 21.4 | 10.8 | ${ }_{725.7}$ |  | 14.0 | 12.8 | 20.0 |
| Fertility rate ${ }^{4}$ | 66.7 | 105.6 | 115.4 | 81.9 | 55.9 | 797.7 |  | 62.0 | 58.3 | 79.0 |
| Total fertility rate ${ }^{5}$................. | 2,036.0 | 3,014.0 | 3,211.5 | 2,490.0 | 1,680.5 | $7_{2,855.5}$ |  | 1,905.0 | 1,792.0 | 2,365.0 |
| Sex Ratio ${ }^{6}$ | 1,048 | 1,041 | 1,040 | 1,042 | 1,021 | 1,045 | 1,038 | 1,050 | 1,054 | 1,029 |
|  | Percent |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 years $\qquad$ | 13.1 | 17.8 | 18.6 | 23.2 | 7.3 | 10.4 | 20.8 | 12.2 | 9.7 | 23.3 |
| Fourth- and higher-order births | 10.5 | 14.3 | 15.5 | 13.1 | 6.4 | 11.7 | 11.5 | 9.7 | 8.2 | 15.4 |
| Births to unmarried mothers .... | 32.6 | 43.1 | 40.8 | 60.2 | 22.9 | 45.9 | 43.5 | 30.5 | 20.8 | 70.7 |
| Mothers completing 12 years or more of school $\qquad$ | 77.1 | 47.3 | 40.5 | 60.4 | 85.0 | 58.0 | 66.1 | 83.1 | 86.5 | 70.9 |
| Mothers born in the 50 States and D.C. $\qquad$ | 81.5 | 37.3 | 37.0 | 59.8 | 34.6 | 6.7 | 74.4 | 90.5 | 94.9 | 91.6 |

[^12]Table 12. Live births by race of mother and observed and seasonally adjusted birth and fertility rates, by month: United States, 1994
[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 | 3,952,767 | 3,121,004 | 636,391 | 15.2 | 66.7 | $\ldots$ | $\ldots$ |
| January | 320,705 | 248,719 | 56,076 | 14.6 | 63.8 | 15.3 | 66.9 |
| February | 301,327 | 235,632 | 50,869 | 15.1 | 66.4 | 15.4 | 67.6 |
| March | 339,736 | 268,831 | 54,365 | 15.4 | 67.6 | 15.6 | 68.3 |
| April . | 317,392 | 253,202 | 48,505 | 14.9 | 65.2 | 15.0 | 65.9 |
| May | 330,295 | 263,865 | 50,005 | 15.0 | 65.6 | 15.1 | 66.3 |
| June | 329,737 | 262,277 | 51,183 | 15.4 | 67.7 | 15.1 | 66.5 |
| July | 345,862 | 273,171 | 56,039 | 15.6 | 68.7 | 15.1 | 66.2 |
| August | 352,173 | 278,347 | 56,852 | 15.9 | 69.9 | 15.2 | 66.9 |
| September | 339,223 | 268,085 | 54,528 | 15.8 | 69.6 | 15.0 | 66.2 |
| October | 330,172 | 260,862 | 52,795 | 14.9 | 65.5 | 15.0 | 66.0 |
| November | 319,397 | 251,561 | 51,297 | 14.9 | 65.5 | 15.4 | 67.7 |
| December | 326,748 | 256,452 | 53,877 | 14.7 | 64.8 | 15.0 | 66.0 |

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.

Table 13. Live births by day of week and index of occurrence by method of delivery, day of week, and race of mother: United States, 1994

| 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 ${ }^{3}$ | 10,829 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Sunday | 8,245 | 76.1 | 81.6 | 55.9 | 66.2 | 38.6 |
| Monday | 10,936 | 101.0 | 99.9 | 105.0 | 97.5 | 117.7 |
| Tuesday | 12,131 | 112.0 | 109.7 | 120.3 | 116.4 | 126.8 |
| Wednesday | 11,908 | 110.0 | 108.1 | 116.8 | 113.9 | 121.7 |
| Thursday | 11,845 | 109.4 | 107.6 | 116.1 | 113.0 | 121.2 |
| Friday | 11,820 | 109.1 | 105.9 | 120.8 | 115.4 | 129.8 |
| Saturday | 8,957 | 82.7 | 87.4 | 65.8 | 78.0 | 45.2 |
| White | 8,551 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Sunday | 6,340 | 74.1 | 79.8 | 53.5 | 64.3 | 35.8 |
| Monday | 8,675 | 101.5 | 100.3 | 105.8 | 98.0 | 118.6 |
| Tuesday | 9,661 | 113.0 | 110.6 | 121.6 | 117.5 | 128.3 |
| Wednesday | 9,475 | 110.8 | 109.0 | 117.7 | 114.7 | 122.6 |
| Thursday | 9,424 | 110.2 | 108.4 | 116.8 | 113.8 | 121.7 |
| Friday | 9,395 | 109.9 | 106.4 | 122.3 | 116.3 | 132.0 |
| Saturday | 6,916 | 80.9 | 85.8 | 63.1 | 75.9 | 42.1 |
| Black | 1,744 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Sunday | 1,457 | 83.6 | 88.6 | 65.7 | 73.9 | 50.9 |
| Monday | 1,724 | 98.9 | 98.0 | 102.0 | 95.7 | 113.4 |
| Tuesday | 1,894 | 108.6 | 106.8 | 115.0 | 111.9 | 120.5 |
| Wednesday | 1,862 | 106.8 | 104.9 | 113.8 | 111.3 | 118.2 |
| Thursday | 1,853 | 106.3 | 104.6 | 112.6 | 109.2 | 118.7 |
| Friday | 1,856 | 106.5 | 103.9 | 115.4 | 112.5 | 120.7 |
| Saturday | 1,562 | 89.6 | 93.4 | 76.0 | 85.8 | 58.6 |

[^13]Table 14. Number, rate, and ratio of births to unmarried women by age, race, and Hispanic origin of mother: United States, 1994

| Age of mother | Number |  |  |  | Rate per 1,000 unmarried women in specified group |  |  |  | Ratio per 1,000 live births |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { races } 1 \end{gathered}$ | White | Black | Hispanic ${ }^{2}$ | $\underset{\text { races } 1}{\text { All }}$ | White | Black | Hispanic ${ }^{2}$ | $\begin{gathered} A l l \\ \text { races } 1 \end{gathered}$ | White | Black | Hispanic ${ }^{2}$ |
| All ages .................. | 1,289,592 | 794,261 | 448,315 | 286,469 | ${ }^{3} 46.9$ | $3_{38.3}$ | 382.1 | $3^{3} 101.2$ | 326.3 | 254.5 | 704.5 | 430.8 |
| Under 15 years ......... | 12,186 | 5,407 | 6,404 | 2,805 | --- | --- | --- | --- | 944.6 | 904.5 | 990.6 | 891.3 |
| 15-19 years ............. | 381,499 | 235,263 | 134,371 | 80,319 | 46.4 | 36.2 | 100.9 | 82.6 | 754.7 | 675.9 | 953.2 | 697.0 |
| 15 years ............. | 27,898 | 14,915 | 12,154 | 6,613) |  |  |  |  | 907.5 | 855.1 | 988.4 | 834.6 |
| 16 years ............. | 54,210 | 32,107 | 20,428 | 12,366 | 32.0 | 24.1 | 75.1 | 59.0 | 858.8 | 798.7 | 979.6 | 785.6 |
| 17 years ............. | 82,027 | 50,947 | 28,592 | 17,468 |  |  |  |  | 809.7 | 741.1 | 972.1 | 737.7 |
| 18 years ............. | 102,862 | 64,912 | 34,770 | 20,889 | 70.1 | 56.4 | 141.6 | 123.6 | 747.8 | 671.9 | 952.9 | 684.0 |
| 19 years ............. | 114,502 | 72,382 | 38,427 | 22,983 |  |  |  |  | 662.7 | 578.6 | 916.8 | 615.3 |
| 20-24 years ............. | 449,246 | 277,364 | 156,304 | 96,594 | 72.2 | 58.1 | 138.1 | 154.8 | 448.6 | 363.0 | 790.0 | 469.5 |
| 25-29 years ............. | 237,636 | 146,527 | 81,599 | 58,474 | 59.0 | 49.7 | 93.6 | 141.6 | 218.2 | 164.7 | 573.2 | 332.2 |
| 30-34 years ............. | 136,991 | 83,870 | 47,044 | 31,899 | 40.1 | 34.2 | 57.2 | 95.5 | 151.1 | 111.1 | 474.4 | 286.2 |
| 35-39 years ............. | 59,701 | 37,594 | 19,242 | 13,437 | 19.8 | 17.3 | 26.3 | 48.4 | 160.7 | 123.1 | 457.8 | 302.8 |
| 40 years and over .... | 12,333 | 8,236 | 3,351 | 2,941 | 44.7 | $4_{4.3}$ | 45.9 | 414.0 | 186.8 | 155.1 | 442.2 | 324.9 |

[^14]NOTE: For 45 States and the District of Columbia, marital status of mother is reported on the birth certificate; for 5 States, mother's marital status is inferred; see Technical notes.

Table 15. Birth rates for unmarried women by age of mother and race: United States, 1970, 1975, and 1980-94
[Rates are live births to unmarried women per 1,000 unmarried women in specified group, estimated as of July 1]

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

See footnotes at end of table.

Table 15. Birth rates for unmarried women by age of mother and race: United States, 1970, 1975, and 1980-94-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 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 15-44 \\ \text { years } 1 \end{gathered}$ | 15-19 years |  |  | 20-24 <br> years | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | 35-39 years | 40-44 years ${ }^{2}$ |
|  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |

## Black

Race of mother:

| 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 |
| 1981 4, 5 | 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 |
| Race of child: |  |  |  |  |  |  |  |  |  |
| 1980 5, 6 | 83.2 | 90.3 | 70.6 | 121.8 | 116.0 | 82.9 | 47.0 | 18.5 | 5.5 |
| 1975 5, 6 | 84.2 | 93.5 | 76.8 | 123.8 | 108.0 | 75.7 | 50.0 | 20.5 | 7.2 |
| 1970 6, 7 | 95.5 | 96.9 | 77.9 | 136.4 | 131.5 | 100.9 | 71.8 | 32.9 | 10.4 |

1 Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.
2 Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.
3 Includes races other than white and black.
4 Data for States in which marital status was not reported have been inferred and included with data from the remaining States; see Technical notes.
5 Based on 100 percent of births in selected States and on a 50 -percent sample of births in all other States; see Technical notes.
6 Births to unmarried women are estimated for the United States from data for registration areas in which marital status of mother was reported; see Technical notes.
7 Based on a 50 -percent sample of births.

Table 16. Number and percent of births to unmarried women and number and percent of births of low birthweight, by race of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1994
[By place of residence]

| State | Births to unmarried women ${ }^{1}$ |  |  |  |  |  | Low birthweight 2 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  |  | Percent |  |  | Number |  |  | Percent |  |  |
|  | All races ${ }^{3}$ | White | Black | $\begin{gathered} A l l \\ \text { races } 3 \end{gathered}$ | White | Black | All races ${ }^{3}$ | White | Black | $\begin{gathered} \text { All } \\ \text { races } 3 \end{gathered}$ | White | Black |
| United States 4 ........ | 1,289,592 | 794,261 | 448,315 | 32.6 | 25.4 | 70.4 | 287,607 | 190,388 | 84,095 | 7.3 | 6.1 | 13.2 |
| Alabama ...... | 21,003 | 6,229 | 14,677 | 34.5 | 15.7 | 71.1 | 5,504 | 2,721 | 2,733 | 9.0 | 6.9 | 13.2 |
| Alaska .................... | 3,125 | 1,588 | 194 | 29.3 | 21.3 | 38.9 | 588 | 372 | 53 | 5.5 | 5.0 | 10.7 |
| Arizona ................... | 27,162 | 21,615 | 1,616 | 38.3 | 35.1 | 65.0 | 4,797 | 4,050 | 317 | 6.8 | 6.6 | 12.8 |
| Arkansas ................. | 11,310 | 5,365 | 5,828 | 32.6 | 20.3 | 74.4 | 2,833 | 1,799 | 999 | 8.2 | 6.8 | 12.8 |
| California ................ | 202,803 | 166,220 | 27,040 | 35.7 | 35.9 | 63.2 | 34,937 | 25,562 | 5,335 | 6.2 | 5.5 | 12.5 |
| Colorado ................. | 13,510 | 11,409 | 1,574 | 25.0 | 23.1 | 56.8 | 4,617 | 3,991 | 428 | 8.5 | 8.1 | 15.5 |
| Connecticut ............. | 13,914 | 9,394 | 4,035 | 30.5 | 24.4 | 70.4 | 3,146 | 2,305 | 727 | 6.9 | 6.0 | 12.7 |
| Delaware | 3,614 | 1,803 | 1,779 | 34.7 | 23.2 | 74.2 | 770 | 469 | 278 | 7.4 | 6.0 | 11.6 |
| District of Columbia .. | 6,831 | 221 | 6,401 | 68.8 | 14.9 | 79.7 | 1,403 | 79 | 1,294 | 14.2 | 5.3 | 16.1 |
| Florida .................... | 68,127 | 37,513 | 29,892 | 35.7 | 26.2 | 69.1 | 14,753 | 9,055 | 5,394 | 7.7 | 6.3 | 12.5 |
| Georgia .................. | 39,429 | 12,591 | 26,514 | 35.5 | 18.1 | 67.9 | 9,557 | 4,410 | 5,002 | 8.6 | 6.3 | 12.8 |
| Hawaii ................... | 5,533 | 892 | 125 | 28.3 | 16.4 | 19.9 | 1,369 | 310 | 74 | 7.2 | 5.8 | 11.9 |
| Idaho ..................... | 3,273 | 3,080 | 25 | 18.7 | 18.2 | 40.3 | 958 | 927 | 3 | 5.5 | 5.5 |  |
| Illinois .................... | 64,933 | 32,034 | 32,387 | 34.3 | 22.5 | 79.0 | 14,931 | 8,421 | 6,048 | 7.9 | 5.9 | 14.8 |
| Indiana ................... | 26,044 | 18,914 | 7,014 | 31.5 | 26.0 | 78.1 | 5,638 | 4,490 | 1,106 | 6.8 | 6.2 | 12.4 |
| Iowa ....................... | 9,211 | 8,205 | 790 | 24.8 | 23.3 | 74.9 | 2,172 | 1,980 | 139 | 5.9 | 5.6 | 13.2 |
| Kansas ................... | 9,709 | 7,343 | 2,086 | 26.0 | 22.1 | 66.4 | 2,417 | 1,966 | 394 | 6.5 | 5.9 | 12.5 |
| Kentucky ................. | 14,646 | 11,005 | 3,567 | 27.6 | 23.1 | 72.9 | 4,056 | 3,429 | 607 | 7.7 | 7.2 | 12.4 |
| Louisiana ................ | 28,918 | 7,865 | 20,746 | 42.6 | 20.7 | 72.4 | 6,521 | 2,424 | 4,024 | 9.6 | 6.4 | 14.1 |
| Maine .................... | 4,067 | 3,943 | 36 | 28.2 | 27.9 | 46.8 | 822 | 810 | 2 | 5.7 | 5.8 |  |
| Maryland ................ | 24,943 | 8,897 | 15,643 | 33.7 | 19.1 | 63.6 | 6,260 | 2,874 | 3,194 | 8.5 | 6.2 | 13.0 |
| Massachusetts ......... | 22,291 | 16,378 | 5,079 | 26.6 | 22.7 | 62.5 | 5,332 | 4,206 | 891 | 6.4 | 5.8 | 11.0 |
| Michigan ................. | 48,339 | 26,255 | 21,425 | 35.0 | 24.4 | 78.8 | 10,708 | 6,610 | 3,885 | 7.8 | 6.1 | 14.4 |
| Minnesota ................ | 15,430 | 11,789 | 2,206 | 24.0 | 20.5 | 73.2 | 3,634 | 2,999 | 373 | 5.7 | 5.2 | 12.4 |
| Mississippi .............. | 19,067 | 3,973 | 14,945 | 45.4 | 18.4 | 74.9 | 4,133 | 1,451 | 2,647 | 9.9 | 6.7 | 13.3 |
| Missouri .................. | 23,913 | 14,337 | 9,331 | 32.5 | 23.7 | 78.6 | 5,569 | 3,882 | 1,596 | 7.6 | 6.4 | 13.5 |
| Montana ................. | 2,822 | 1,987 | 9 | 25.5 | 20.4 |  | 691 | 610 |  | 6.2 | 6.3 |  |
| Nebraska ................ | 5,739 | 4,461 | 940 | 24.8 | 21.1 | 73.8 | 1,416 | 1,206 | 164 | 6.1 | 5.7 | 12.9 |
| Nevada ................... | 8,359 | 6,418 | 1,456 | 35.0 | 31.4 | 70.0 | 1,808 | 1,408 | 295 | 7.6 | 6.9 | 14.2 |
| New Hampshire ........ | 3,338 | 3,284 | 35 | 22.1 | 22.1 | 33.7 | 772 | 754 | 4 | 5.1 | 5.1 |  |
| New Jersey ............. | 33,043 | 16,990 | 15,536 | 28.1 | 19.2 | 67.0 | 8,900 | 5,355 | 3,131 | 7.6 | 6.1 | 13.5 |
| New Mexico ............. | 11,496 | 8,569 | 318 | 41.7 | 37.2 | 61.0 | 2,018 | 1,716 | 47 | 7.3 | 7.5 | 9.1 |
| New York ................... | 104,732 | 60,124 | 41,329 | 37.6 | 29.4 | 70.2 | 21,086 | 12,584 | 7,426 | 7.6 | 6.2 | 12.6 |
| North Carolina .......... | 32,321 | 12,408 | 18,872 | 31.9 | 17.7 | 67.7 | 8,784 | 4,730 | 3,790 | 8.7 | 6.7 | 13.6 |
| North Dakota ........... | 1,971 | 1,444 | 16 | 23.0 | 18.8 |  | 465 | 391 | 3 | 5.4 | 5.1 |  |
| Ohio ....................... | 51,363 | 32,756 | 18,322 | 32.9 | 25.1 | 77.6 | 11,622 | 8,286 | 3,201 | 7.5 | 6.4 | 13.6 |
| Oklahoma ............... | 13,616 | 8,277 | 3,340 | 29.8 | 23.1 | 70.0 | 3,206 | 2,336 | 578 | 7.0 | 6.6 | 12.2 |
| Oregon ................... | 12,012 | 10,709 | 676 | 28.7 | 27.6 | 71.4 | 2,214 | 1,998 | 96 | 5.3 | 5.1 | 10.2 |
| Pennsylvania ........... | 51,518 | 32,318 | 18,563 | 32.8 | 24.8 | 79.3 | 11,630 | 8,029 | 3,344 | 7.4 | 6.2 | 14.4 |
| Rhode Island ........... | 4,327 | 3,360 | 753 | 32.1 | 28.4 | 69.4 | 864 | 703 | 124 | 6.5 | 6.0 | 11.6 |
| South Carolina ......... | 19,172 | 5,992 | 13,084 | 36.8 | 18.7 | 67.4 | 4,761 | 2,149 | 2,568 | 9.2 | 6.7 | 13.2 |
| South Dakota ........... | 2,914 | 1,787 | 16 | 27.7 | 20.4 |  | 615 | 493 | 7 | 5.9 | 5.6 | * |
| Tennessee .............. | 24,480 | 11,916 | 12,391 | 33.4 | 21.4 | 74.6 | 6,444 | 3,965 | 2,424 | 8.8 | 7.1 | 14.6 |
| Texas .................... | 92,721 | 66,187 | 25,354 | 28.9 | 24.3 | 63.0 | 22,486 | 16,765 | 5,150 | 7.0 | 6.2 | 12.8 |
| Utah ....................... | 6,005 | 5,383 | 130 | 15.7 | 14.8 | 45.3 | 2,248 | 2,132 | 29 | 5.9 | 5.9 | 10.1 |
| Vermont .................. | 1,864 | 1,837 | 9 | 25.3 | 25.3 |  | 439 | 428 | 4 | 6.0 | 5.9 |  |
| Virginia ................... | 27,760 | 13,085 | 14,268 | 29.2 | 18.9 | 63.9 | 7,124 | 4,124 | 2,775 | 7.5 | 6.0 | 12.5 |
| Washington ............. | 20,090 | 16,427 | 1,692 | 26.0 | 24.3 | 55.2 | 4,080 | 3,378 | 308 | 5.3 | 5.0 | 10.1 |
| West Virginia ........... | 6,454 | 5,836 | 603 | 30.2 | 28.5 | 75.6 | 1,596 | 1,490 | 96 | 7.5 | 7.3 | 12.0 |
| Wisconsin ................ | 18,565 | 12,245 | 5,620 | 27.2 | 20.8 | 82.1 | 4,349 | 3,232 | 978 | 6.4 | 5.5 | 14.3 |
| Wyoming ................. | 1,765 | 1,603 | 28 | 27.5 | 26.3 | 45.9 | 564 | 534 | 10 | 8.8 | 8.8 | * |
| Puerto Rico ............. | 26,891 | 24,476 | 2,311 | 41.9 | 40.8 | 57.2 | 6,353 | 5,899 | 437 | 9.9 | 9.8 | 10.8 |
| Virgin Islands ........... | 1,597 | 166 | 1,422 | 66.7 | 45.4 | 71.1 | 201 | 34 | 162 | 8.4 | 9.2 | 8.1 |
| Guam ..................... | 2,054 | 86 | 17 | 46.6 | 16.0 |  | 285 | 18 | 5 | 6.5 |  | * |

[^15]Table 17. Birth rates by age and race of father: United States, 1980-94
[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 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} 15-19 \\ \text { years }^{2} \end{gathered}$ | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ | $50-54$ years | 55 years and over |


| All races ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| 19844 .................. | 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 |
| 19804 ................... | 57.0 | 18.8 | 92.0 | 123.1 | 91.0 | 42.8 | 17.1 | 6.1 | 2.2 | 0.3 |
| White |  |  |  |  |  |  |  |  |  |  |
| 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 |
| $1984{ }^{4}$.................. | 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 |
| 19814 .................. | 52.9 | 15.0 | 81.7 | 115.8 | 85.8 | 40.3 | 15.0 | 5.2 | 1.8 | 0.3 |
| 19804 .................. | 53.4 | 15.4 | 84.9 | 119.4 | 87.8 | 39.7 | 15.0 | 5.1 | 1.8 | 0.3 |


| Black |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| 19844 | 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 |
| 19804 | 83.0 | 40.1 | 145.3 | 152.8 | 109.6 | 62.0 | 31.2 | 13.6 | 5.9 | 1.1 |

[^16]Table 18. Live births by educational attainment, age, and race of mother: United States, 1994

| Age and race of mother | Total | Years of school completed by mother |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} 0-8 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 9-11 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 12 \\ \text { years } \end{gathered}$ | $13-15$ <br> years | 16 years or more | Not Stated |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |
| All ages ............................ | 3,952,767 | 247,285 | 644,894 | 1,364,436 | 845,172 | 793,827 | 57,153 |
| Under 15 years | 12,901 | 9,972 | 2,530 | - | - | - | 399 |
| 15-19 years | 505,488 | 49,223 | 269,873 | 156,156 | 22,212 | - | 8,024 |
| 15 years | 30,742 | 10,431 | 19,411 | - | - | - | 900 |
| 16 years | 63,125 | 9,029 | 51,389 | 1,570 | - | - | 1,137 |
| 17 years | 101,302 | 8,694 | 76,461 | 14,201 | 306 | - | 1,640 |
| 18 years | 137,547 | 9,511 | 66,755 | 55,541 | 3,795 | - | 1,945 |
| 19 years | 172,772 | 11,558 | 55,857 | 84,844 | 18,111 | - | 2,402 |
| 20-24 years | 1,001,418 | 67,487 | 197,468 | 450,743 | 223,962 | 48,078 | 13,680 |
| 25-29 years | 1,088,845 | 56,049 | 100,667 | 386,327 | 280,173 | 250,713 | 14,916 |
| 30-34 years | 906,498 | 39,088 | 52,201 | 259,190 | 219,421 | 323,809 | 12,789 |
| 35-39 years | 371,608 | 19,782 | 18,756 | 96,496 | 85,542 | 145,132 | 5,900 |
| 40 years and over | 66,009 | 5,684 | 3,399 | 15,524 | 13,862 | 26,095 | 1,445 |
| White |  |  |  |  |  |  |  |
| All ages ............................ | 3,121,004 | 209,550 | 460,295 | 1,052,684 | 673,546 | 685,328 | 39,601 |
| Under 15 years | 5,978 | 4,589 | 1,205 | - | - | - | 184 |
| 15-19 years | 348,081 | 39,243 | 179,954 | 108,865 | 14,997 | - | 5,022 |
| 15 years | 17,443 | 6,297 | 10,667 | - | - | - | 479 |
| 16 years | 40,198 | 6,732 | 31,757 | 1,032 | - | - | 677 |
| 17 years | 68,747 | 7,329 | 50,507 | 9,625 | 226 | - | 1,060 |
| 18 years | 96,605 | 8,445 | 46,448 | 37,960 | 2,499 | - | 1,253 |
| 19 years | 125,088 | 10,440 | 40,575 | 60,248 | 12,272 | - | 1,553 |
| 20-24 years | 764,085 | 60,973 | 148,713 | 338,271 | 168,387 | 38,509 | 9,232 |
| 25-29 years | 889,581 | 49,709 | 77,325 | 307,889 | 228,103 | 216,033 | 10,522 |
| 30-34 years | 754,871 | 33,942 | 38,071 | 209,671 | 181,143 | 282,651 | 9,393 |
| 35-39 years | 305,291 | 16,702 | 12,783 | 76,235 | 69,722 | 125,616 | 4,233 |
| 40 years and over | 53,117 | 4,392 | 2,244 | 11,753 | 11,194 | 22,519 | 1,015 |
| Black |  |  |  |  |  |  |  |
| All ages ............................ | 636,391 | 22,741 | 160,197 | 253,759 | 132,460 | 54,312 | 12,922 |
| Under 15 years | 6,465 | 5,043 | 1,227 | - | - | - | 195 |
| 15-19 years | 140,968 | 8,605 | 81,340 | 42,065 | 6,344 | - | 2,614 |
| 15 years | 12,297 | 3,854 | 8,065 | - | - | - | 378 |
| 16 years | 20,853 | 2,054 | 17,892 | 483 | - | - | 424 |
| 17 years | 29,413 | 1,152 | 23,568 | 4,118 | 70 | - | 505 |
| 18 years | 36,489 | 779 | 18,234 | 15,741 | 1,142 | - | 593 |
| 19 years | 41,916 | 766 | 13,581 | 21,723 | 5,132 | - | 714 |
| 20-24 years | 197,841 | 3,187 | 42,134 | 95,850 | 46,440 | 6,834 | 3,396 |
| 25-29 years | 142,355 | 2,412 | 18,903 | 61,499 | 39,077 | 17,424 | 3,040 |
| 30-34 years | 99,155 | 1,930 | 11,117 | 36,918 | 27,755 | 19,125 | 2,310 |
| 35-39 years | 42,029 | 1,166 | 4,659 | 14,781 | 11,033 | 9,274 | 1,116 |
| 40 years and over | 7,578 | 398 | 817 | 2,646 | 1,811 | 1,655 | 251 |

[^17]Table 19. Number of live births and percent distribution by weight gain of mother during pregnancy and median weight gain, according to period of gestation and race of mother: Total of 49 reporting States and the District of Columbia, 1994


[^18]NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

Table 20. Percent low birthweight by weight gain of mother during pregnancy, period of gestation, and race of mother: Total of 49 reporting States and the District of Columbia, 1994
[Low birthweight is defined as weight of less than 2,500 grams ( 5 lb 8 oz )]

| Period of gestation 1 and race of mother | Total | Weight gain during pregnancy |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Less than 16 pounds | $\begin{aligned} & 16-20 \\ & \text { pounds } \end{aligned}$ | $\begin{gathered} 21-25 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 26-30 \\ \text { pounds } \end{gathered}$ | 31-35 <br> pounds | $\begin{aligned} & 36-40 \\ & \text { pounds } \end{aligned}$ | $41-45$ <br> pounds | 46 pounds or more | Not stated |
| All gestation periods 2 |  |  |  |  |  |  |  |  |  |  |
| All races 3 . | 7.5 | 15.3 | 10.7 | 7.6 | 5.8 | 4.8 | 4.6 | 4.4 | 4.8 | 11.4 |
| White ................................... | 6.2 | 12.3 | 9.2 | 6.5 | 5.0 | 4.2 | 4.0 | 4.0 | 4.4 | 9.1 |
| Black ................................... | 13.3 | 23.3 | 16.5 | 12.7 | 10.3 | 8.2 | 7.6 | 6.9 | 6.9 | 18.6 |
| Under 37 weeks |  |  |  |  |  |  |  |  |  |  |
| All races 3 | 43.1 | 58.4 | 48.4 | 41.5 | 36.5 | 33.7 | 32.7 | 33.3 | 33.8 | 51.8 |
| White .................................. | 41.2 | 56.4 | 47.5 | 40.3 | 35.3 | 33.1 | 32.4 | 33.6 | 34.3 | 49.2 |
| Black .................................... | 48.4 | 62.0 | 51.2 | 45.3 | 40.6 | 36.7 | 34.7 | 33.6 | 33.4 | 57.0 |
| 37-39 weeks |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$.......................... | 4.5 | 7.6 | 6.1 | 4.7 | 3.8 | 3.3 | 3.2 | 3.1 | 3.3 | 5.7 |
| White ................................... | 3.8 | 6.3 | 5.3 | 4.1 | 3.3 | 2.9 | 2.9 | 2.9 | 3.0 | 4.6 |
| Black ................................... | 7.3 | 11.4 | 9.1 | 7.6 | 6.2 | 5.2 | 5.1 | 4.6 | 4.6 | 9.2 |
| 40 weeks and over |  |  |  |  |  |  |  |  |  |  |
| All races 3 | 1.5 | 3.1 | 2.3 | 1.7 | 1.3 | 1.1 | 1.0 | 0.9 | 0.9 | 2.2 |
| White .................................. | 1.2 | 2.4 | 1.9 | 1.4 | 1.1 | 1.0 | 0.8 | 0.8 | 0.7 | 1.6 |
| Black ................................... | 3.2 | 5.6 | 4.4 | 3.5 | 2.8 | 2.2 | 1.9 | 1.8 | 1.6 | 4.3 |

[^19]NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

Table 21. Number of live births and percent distribution by weight gain of mother during pregnancy and median weight gain, according to period of gestation, Hispanic origin of mother, and race of mother for mothers of non-Hispanic origin: Total of 49 reporting States and the District of Columbia, 1994

| Period of gestation ${ }^{1}$ and race of mother | Number of births | Weight gain during pregnancy |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Less than 16 pounds | $16-20$ <br> pounds | $21-25$ <br> pounds | $\begin{gathered} 26-30 \\ \text { pounds } \end{gathered}$ | 31-35 <br> pounds | 36-40 <br> pounds | $41-45$ <br> pounds | 46 pounds or more | Median weight gain in pounds |
|  | Percent distribution |  |  |  |  |  |  |  |  |  |  |
| All gestation periods ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| All origins ${ }^{3}$.................................. | 3,384,837 | 100.0 | 10.4 | 11.0 | 14.7 | 19.5 | 14.6 | 12.6 | 6.5 | 10.7 | 30.4 |
| Hispanic ...................................... | 407,276 | 100.0 | 12.3 | 13.2 | 15.6 | 19.3 | 13.4 | 11.3 | 5.7 | 9.1 | 29.6 |
| Mexican | 235,490 | 100.0 | 13.4 | 13.9 | 16.0 | 19.2 | 13.0 | 10.8 | 5.3 | 8.3 | 28.5 |
| Puerto Rican ............................... | 55,176 | 100.0 | 11.8 | 12.4 | 14.7 | 17.9 | 13.3 | 11.8 | 6.3 | 11.6 | 30.3 |
| Cuban ........................................ | 11,052 | 100.0 | 7.4 | 9.6 | 13.6 | 20.5 | 15.5 | 14.4 | 6.7 | 12.3 | 30.9 |
| Central and South American ........... | 64,977 | 100.0 | 10.3 | 13.0 | 16.0 | 20.7 | 14.1 | 11.7 | 5.6 | 8.5 | 30.1 |
| Other and unknown Hispanic .......... | 40,581 | 100.0 | 11.2 | 11.7 | 15.1 | 19.5 | 13.8 | 11.8 | 6.5 | 10.3 | 30.2 |
| Non-Hispanic 4 ............................ | 2,938,680 | 100.0 | 10.2 | 10.7 | 14.6 | 19.5 | 14.7 | 12.8 | 6.6 | 10.9 | 30.5 |
| White | 2,234,379 | 100.0 | 8.6 | 9.8 | 14.6 | 20.0 | 15.6 | 13.4 | 7.0 | 11.0 | 30.7 |
| Black ......................................... | 577,688 | 100.0 | 16.6 | 13.8 | 14.4 | 17.1 | 11.3 | 10.7 | 5.4 | 10.8 | 28.7 |
| Under 37 weeks |  |  |  |  |  |  |  |  |  |  |  |
| All origins ${ }^{3}$................................. | 377,000 | 100.0 | 17.9 | 14.8 | 15.4 | 17.2 | 11.3 | 9.7 | 4.8 | 8.8 | 26.8 |
| Hispanic ...................................... | 46,172 | 100.0 | 18.7 | 16.2 | 16.0 | 17.6 | 10.6 | 9.0 | 4.6 | 7.3 | 25.9 |
| Mexican ..................................... | 26,096 | 100.0 | 19.5 | 16.7 | 16.1 | 17.2 | 10.3 | 8.9 | 4.5 | 6.8 | 25.6 |
| Puerto Rican ............................... | 7,347 | 100.0 | 19.5 | 16.5 | 15.3 | 16.5 | 10.7 | 9.0 | 4.3 | 8.2 | 25.8 |
| Cuban ....................................... | 1,113 | 100.0 | 12.3 | 13.8 | 15.1 | 20.3 | 12.2 | 10.6 | 5.5 | 10.1 | 29.5 |
| Central and South American ........... | 6,888 | 100.0 | 17.3 | 15.4 | 16.2 | 19.1 | 10.5 | 9.6 | 4.5 | 7.4 | 26.5 |
| Other and unknown Hispanic .......... | 4,728 | 100.0 | 17.3 | 14.8 | 16.3 | 18.2 | 12.0 | 8.9 | 4.9 | 7.7 | 26.6 |
| Non-Hispanic 4 ............................ | 326,627 | 100.0 | 17.9 | 14.7 | 15.3 | 17.2 | 11.4 | 9.8 | 4.9 | 9.0 | 27.0 |
| White ........................................... | 207,559 | 100.0 | 14.2 | 13.5 | 15.7 | 18.1 | 12.6 | 10.7 | 5.5 | 9.7 | 28.7 |
| Black ......................................... | 105,582 | 100.0 | 25.7 | 16.8 | 14.3 | 15.2 | 8.7 | 8.0 | 3.6 | 7.7 | 25.0 |
| 37-39 weeks |  |  |  |  |  |  |  |  |  |  |  |
| All origins ${ }^{3}$................................. | 1,485,574 | 100.0 | 10.1 | 11.2 | 15.4 | 20.0 | 14.7 | 12.5 | 6.3 | 9.9 | 30.3 |
| Hispanic ...................................... | 181,668 | 100.0 | 12.0 | 13.5 | 16.1 | 19.9 | 13.5 | 11.2 | 5.4 | 8.4 | 29.1 |
| Mexican ...................................... | 104,935 | 100.0 | 13.2 | 14.2 | 16.4 | 19.7 | 13.1 | 10.6 | 5.1 | 7.8 | 28.3 |
| Puerto Rican ............................... | 24,477 | 100.0 | 11.2 | 12.6 | 15.3 | 18.6 | 13.5 | 11.9 | 6.0 | 10.9 | 30.2 |
| Cuban ........................................ | 5,210 | 100.0 | 7.9 | 9.2 | 14.3 | 20.7 | 15.6 | 14.9 | 5.8 | 11.6 | 30.8 |
| Central and South American ........... | 29,014 | 100.0 | 10.0 | 13.4 | 16.8 | 21.3 | 14.0 | 11.6 | 5.2 | 7.6 | 29.9 |
| Other and unknown Hispanic .......... | 18,032 | 100.0 | 11.4 | 12.2 | 15.1 | 20.0 | 14.1 | 11.7 | 6.3 | 9.2 | 30.1 |
| Non-Hispanic 4 ............................ | 1,287,916 | 100.0 | 9.8 | 10.9 | 15.3 | 20.1 | 14.9 | 12.6 | 6.4 | 10.0 | 30.4 |
| White ........................................... | 975,257 | 100.0 | 8.4 | 10.1 | 15.3 | 20.6 | 15.7 | 13.1 | 6.7 | 10.1 | 30.6 |
| Black ......................................... | 253,039 | 100.0 | 15.3 | 13.7 | 14.9 | 17.6 | 11.7 | 10.9 | 5.4 | 10.5 | 29.0 |
| 40 weeks and over |  |  |  |  |  |  |  |  |  |  |  |
| All origins ${ }^{3}$................................. | 1,509,585 | 100.0 | 8.9 | 9.8 | 13.9 | 19.4 | 15.2 | 13.5 | 7.2 | 11.9 | 30.8 |
| Hispanic ...................................... | 177,359 | 100.0 | 10.9 | 12.2 | 15.1 | 19.2 | 14.0 | 12.0 | 6.2 | 10.3 | 30.2 |
| Mexican ...................................... | 103,322 | 100.0 | 12.2 | 12.9 | 15.5 | 19.1 | 13.7 | 11.5 | 5.7 | 9.3 | 29.9 |
| Puerto Rican ............................... | 22,959 | 100.0 | 10.2 | 11.1 | 13.9 | 17.6 | 13.8 | 12.7 | 7.3 | 13.4 | 30.7 |
| Cuban ........................................ | 4,707 | 100.0 | 5.8 | 9.1 | 12.5 | 20.2 | 16.2 | 14.6 | 7.9 | 13.7 | 32.4 |
| Central and South American .......... | 28,864 | 100.0 | 9.0 | 12.0 | 15.3 | 20.5 | 15.1 | 12.3 | 6.3 | 9.5 | 30.4 |
| Other and unknown Hispanic .......... | 17,507 | 100.0 | 9.5 | 10.4 | 14.7 | 19.4 | 14.1 | 12.6 | 7.1 | 12.2 | 30.6 |
| Non-Hispanic 4 ............................ | 1,314,546 | 100.0 | 8.7 | 9.6 | 13.8 | 19.4 | 15.4 | 13.7 | 7.3 | 12.1 | 30.9 |
| White .......................................... | 1,045,723 | 100.0 | 7.6 | 8.9 | 13.7 | 19.8 | 16.0 | 14.1 | 7.6 | 12.2 | 31.0 |
| Black ......................................... | 216,418 | 100.0 | 13.8 | 12.6 | 13.8 | 17.3 | 12.0 | 11.8 | 6.1 | 12.7 | 30.3 |

[^20]NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

Table 22. Percent low birthweight by weight gain of mother during pregnancy and Hispanic origin of mother, and by race of mother for mothers of non-Hispanic origin: Total of 49 reporting States and the District of Columbia, 1994
[Low birthweight is defined as weight of less than 2,500 grams ( 5 lb 8 oz )]

| Origin of mother | Total | Weight gain during pregnancy |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Less than 16 pounds | $16-20$ <br> pounds | $\begin{aligned} & 21-25 \\ & \text { pounds } \end{aligned}$ | 26-30 <br> pounds | 31-35 <br> pounds | 36-40 <br> pounds | $41-45$ <br> pounds | 46 pounds or more | Not stated |
| All origins 1 ..................................... | 7.5 | 15.3 | 10.7 | 7.6 | 5.8 | 4.8 | 4.6 | 4.4 | 4.8 | 11.4 |
| Hispanic ........................................ | 6.7 | 11.8 | 8.4 | 6.3 | 5.1 | 4.4 | 4.3 | 4.3 | 4.0 | 9.0 |
| Mexican ........................................... | 6.1 | 10.3 | 7.7 | 5.6 | 4.5 | 4.0 | 4.2 | 4.2 | 3.8 | 8.1 |
| Puerto Rican ................................... | 9.2 | 17.5 | 12.0 | 8.8 | 7.4 | 5.8 | 5.4 | 5.0 | 4.7 | 12.8 |
| Cuban ............................................ | 6.3 | 13.3 | 10.0 | 7.7 | 5.0 | 3.9 | 4.0 | 5.0 | 4.1 | 11.6 |
| Central and South American .............. | 6.0 | 11.6 | 7.4 | 5.6 | 4.9 | 4.3 | 3.7 | 3.8 | 3.8 | 7.8 |
| Other and unknown Hispanic ............. | 7.8 | 13.3 | 9.9 | 8.4 | 6.2 | 5.5 | 4.3 | 4.2 | 4.3 | 12.2 |
| Non-Hispanic 2 ............................... | 7.6 | 15.8 | 11.1 | 7.7 | 5.9 | 4.8 | 4.6 | 4.4 | 4.9 | 12.1 |
| White .............................................. | 6.1 | 12.4 | 9.3 | 6.6 | 5.0 | 4.2 | 4.0 | 4.0 | 4.4 | 9.1 |
| Black ............................................. | 13.4 | 23.5 | 16.6 | 12.9 | 10.4 | 8.3 | 7.7 | 6.9 | 6.9 | 18.7 |

[^21]NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

Table 23. Percent of births with selected medical or health characteristics, by specified race of mother: United States, 1994

| Characteristic | $\begin{aligned} & \text { All } \\ & \text { races } \end{aligned}$ | White | Black | American Indian 1 | Asian or Pacific Islander |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total | Chinese | Japanese | Hawaiian | Filipino | Other |
| Mother |  |  |  |  |  |  |  |  |  |  |
| Prenatal care beginning in the first trimester ............. | 80.2 | 82.8 | 68.3 | 65.2 | 79.7 | 86.2 | 89.2 | 77.0 | 81.3 | 76.2 |
| Late or no prenatal care ........................................ | 4.4 | 3.6 | 8.2 | 9.8 | 4.1 | 2.7 | 1.9 | 4.7 | 3.6 | 4.8 |
| Smoker 2 ...... | 14.6 | 15.6 | 11.4 | 21.0 | 3.6 | 0.9 | 5.4 | 16.0 | 3.7 | 2.9 |
| Drinker 3 .......................................................... | 1.7 | 1.5 | 2.5 | 5.1 | 0.5 | 0.2 | 1.0 | 1.6 | 0.5 | 0.4 |
|  | 10.4 | 9.1 | 16.5 | 13.8 | 9.4 | 6.5 | 8.3 | 7.7 | 7.6 | 10.9 |
| Cesarean delivery rate ......................................... | 21.2 | 21.2 | 21.8 | 18.0 | 18.7 | 18.7 | 17.8 | 17.3 | 22.9 | 17.5 |
| Infant |  |  |  |  |  |  |  |  |  |  |
| Preterm births 5 .................................................. | 11.0 | 9.6 | 18.1 | 12.1 | 10.1 | 7.2 | 8.2 | 12.2 | 11.4 | 10.7 |
| Birthweight |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 6 ........................................ | 1.3 | 1.0 | 3.0 | 1.1 | 0.9 | 0.6 | 0.9 | 1.2 | 1.2 | 0.9 |
| Low birthweight 7 ............................................. | 7.3 | 6.1 | 13.2 | 6.4 | 6.8 | 4.8 | 6.9 | 7.2 | 7.8 | 7.1 |
| 4,000 grams or more ${ }^{8}$....................................... | 10.4 | 11.7 | 5.3 | 12.5 | 6.1 | 6.4 | 5.4 | 8.8 | 6.4 | 5.7 |
| 5-minute Apgar scores of less than 799 ................. | 1.4 | 1.2 | 2.5 | 1.5 | 1.0 | 0.7 | 0.7 | 1.6 | 1.1 | 1.1 |
| 1-minute Apgar scores of less than 79 .................. | 8.4 | 7.9 | 10.7 | 8.7 | 6.6 | 4.7 | 5.1 | 8.2 | 7.7 | 6.8 |

[^22]Table 24. Percent of births with selected medical or health characteristics, by Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: United States, 1994

| 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 |
| Mother |  |  |  |  |  |  |  |  |  |  |
| Prenatal care beginning in the first trimester .............. | 80.2 | 68.9 | 67.3 | 71.7 | 90.1 | 71.2 | 72.1 | 82.5 | 86.5 | 68.3 |
| Late or no prenatal care ......................................... | 4.4 | 7.6 | 8.3 | 6.5 | 1.6 | 6.5 | 6.2 | 3.7 | 2.5 | 8.2 |
| Smoker 3 ............................................................ | 14.6 | 4.6 | 3.4 | 10.9 | 4.8 | 1.8 | 8.1 | 16.0 | 17.7 | 11.5 |
| Drinker 4 ............................................................ | 1.7 | 0.8 | 0.7 | 1.0 | 0.4 | 0.3 | 1.3 | 1.8 | 1.7 | 2.6 |
| Weight gain of less than 16 lbs 5 ........................... | 10.4 | 12.3 | 13.4 | 11.8 | 7.4 | 10.3 | 11.2 | 10.2 | 8.6 | 16.6 |
| Cesarean delivery rate .......................................... | 21.2 | 20.5 | 20.0 | 20.5 | 30.9 | 21.6 | 20.8 | 21.4 | 21.5 | 21.9 |
| Infant |  |  |  |  |  |  |  |  |  |  |
| Preterm births 6 ................................................... | 11.0 | 10.9 | 10.6 | 13.4 | 10.1 | 10.7 | 11.6 | 11.0 | 9.3 | 18.2 |
| Birthweight |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 7 ......................................... | 1.3 | 1.1 | 1.0 | 1.6 | 1.3 | 1.1 | 1.3 | 1.4 | 1.0 | 3.0 |
| Low birthweight 8 .............................................. | 7.3 | 6.2 | 5.8 | 9.1 | 6.3 | 6.0 | 7.5 | 7.5 | 6.1 | 13.3 |
| 4,000 grams or more 9 ....................................... | 10.4 | 9.1 | 9.4 | 7.1 | 10.4 | 9.3 | 7.6 | 10.7 | 12.4 | 5.2 |
| 5-minute Apgar scores of less than 710 .................. | 1.4 | 1.2 | 1.2 | 1.3 | 0.8 | 1.0 | 1.3 | 1.5 | 1.2 | 2.5 |
| 1-minute Apgar scores of less than 710 .................. | 8.4 | 7.2 | 7.9 | 7.0 | 4.4 | 6.0 | 7.9 | 8.5 | 8.0 | 10.8 |

[^23]2 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.
5 Excludes data for California, which did not report weight gain on the birth certificate.
6 Born prior to 37 completed weeks of gestation.
${ }_{8}^{7}$ Birthweight of less than 1,500 grams ( 3 lb 4 oz ).
8 Birthweight of less than 2,500 grams ( 5 lb 8 oz ).
9 Equivalent to 8 lb 14 oz
10 Excludes data for California and Texas, which did not report either 1- or 5-minute Apgar score on the birth certificate.

Table 25. Live births to mothers with selected medical risk factors and rates by age of mother, by race of mother: United States, 1994
[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 | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $40-49$ years |  |


| All races ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anemia | 3,952,767 | 78,173 | 20.0 | 29.4 | 24.0 | 17.7 | 15.4 | 15.4 | 15.3 | 52,805 |
| Cardiac disease | 3,952,767 | 17,603 | 4.5 | 2.8 | 3.5 | 4.4 | 5.6 | 6.8 | 7.3 | 52,805 |
| Acute or chronic lung disease | 3,952,767 | 22,105 | 5.7 | 7.6 | 6.0 | 5.0 | 5.0 | 5.4 | 6.3 | 52,805 |
| Diabetes | 3,952,767 | 99,492 | 25.5 | 8.3 | 16.4 | 25.3 | 34.0 | 47.0 | 64.9 | 52,805 |
| Genital herpes ${ }^{3}$ | 3,631,653 | 29,531 | 8.2 | 5.7 | 7.2 | 8.0 | 9.6 | 11.2 | 11.1 | 48,775 |
| Hydramnios/Oligohydramnios | 3,952,767 | 39,850 | 10.2 | 11.5 | 10.2 | 9.6 | 9.8 | 10.8 | 14.2 | 52,805 |
| Hemoglobinopathy | 3,952,767 | 2,513 | 0.6 | 0.9 | 0.7 | 0.6 | 0.6 | 0.5 | 0.4 | 52,805 |
| Hypertension, chronic | 3,952,767 | 26,567 | 6.8 | 2.8 | 4.3 | 5.9 | 8.5 | 14.4 | 26.0 | 52,805 |
| Hypertension, pregnancy-associated | 3,952,767 | 125,683 | 32.2 | 37.7 | 32.5 | 30.7 | 29.4 | 33.4 | 41.9 | 52,805 |
| Eclampsia .................................... | 3,952,767 | 13,463 | 3.5 | 5.3 | 3.6 | 2.9 | 2.8 | 3.4 | 4.7 | 52,805 |
| Incompetent cervix | 3,952,767 | 8,925 | 2.3 | 1.0 | 1.7 | 2.2 | 3.1 | 3.8 | 3.9 | 52,805 |
| Previous infant 4000+ grams | 3,952,767 | 40,392 | 10.4 | 1.3 | 6.4 | 11.0 | 15.1 | 18.1 | 21.9 | 52,805 |
| Previous preterm or small-for-gestational-age infant | 3,952,767 | 44,497 | 11.4 | 5.2 | 11.2 | 11.8 | 13.1 | 14.7 | 15.9 | 52,805 |
| Renal disease | 3,952,767 | 10,126 | 2.6 | 3.4 | 3.0 | 2.4 | 2.1 | 2.1 | 2.6 | 52,805 |
| Rh sensitization 4 | 3,915,388 | 25,301 | 6.6 | 5.1 | 6.0 | 6.8 | 7.3 | 7.4 | 6.8 | 53,723 |
| Uterine bleeding 3 | 3,631,653 | 28,236 | 7.9 | 5.8 | 7.0 | 8.0 | 8.8 | 9.8 | 10.0 | 48,775 |
| White |  |  |  |  |  |  |  |  |  |  |
| Anemia | 3,121,004 | 51,642 | 16.8 | 24.5 | 19.7 | 15.1 | 13.6 | 13.6 | 13.3 | 41,797 |
| Cardiac disease | 3,121,004 | 14,697 | 4.8 | 2.8 | 3.5 | 4.6 | 6.0 | 7.2 | 7.7 | 41,797 |
| Acute or chronic lung disease | 3,121,004 | 16,897 | 5.5 | 7.2 | 5.8 | 4.9 | 5.0 | 5.4 | 6.6 | 41,797 |
| Diabetes | 3,121,004 | 78,065 | 25.4 | 9.0 | 16.9 | 24.8 | 32.2 | 44.3 | 60.2 | 41,797 |
| Genital herpes ${ }^{3}$ | 2,848,696 | 23,663 | 8.4 | 4.7 | 6.5 | 8.1 | 10.3 | 12.5 | 13.0 | 38,261 |
| Hydramnios/Oligohydramnios | 3,121,004 | 29,839 | 9.7 | 10.8 | 9.7 | 9.2 | 9.3 | 10.1 | 13.9 | 41,797 |
| Hemoglobinopathy | 3,121,004 | 837 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | * | 41,797 |
| Hypertension, chronic | 3,121,004 | 18,266 | 5.9 | 2.3 | 3.7 | 5.4 | 7.2 | 11.6 | 20.6 | 41,797 |
| Hypertension, pregnancy-associated | 3,121,004 | 100,890 | 32.8 | 38.3 | 33.9 | 31.6 | 29.6 | 33.1 | 42.0 | 41,797 |
| Eclampsia | 3,121,004 | 9,725 | 3.2 | 4.5 | 3.4 | 2.8 | 2.6 | 3.1 | 4.4 | 41,797 |
| Incompetent cervix | 3,121,004 | 6,527 | 2.1 | 0.9 | 1.4 | 1.9 | 2.8 | 3.7 | 4.0 | 41,797 |
| Previous infant 4000+ grams ................ | 3,121,004 | 36,275 | 11.8 | 1.5 | 7.2 | 12.1 | 16.6 | 20.0 | 24.2 | 41,797 |
| Previous preterm or small-for-gestational-age infant .... | 3,121,004 | 33,507 | 10.9 | 4.6 | 10.3 | 11.1 | 12.5 | 14.2 | 15.8 | 41,797 |
| Renal disease .................................... | 3,121,004 | 8,240 | 2.7 | 3.8 | 3.2 | 2.4 | 2.1 | 2.2 | 2.6 | 41,797 |
| Rh sensitization 4 | 3,087,824 | 22,745 | 7.5 | 6.0 | 6.8 | 7.7 | 8.2 | 8.4 | 7.8 | 42,644 |
| Uterine bleeding ${ }^{3}$ | 2,848,696 | 23,431 | 8.3 | 6.2 | 7.5 | 8.5 | 9.0 | 10.3 | 10.6 | 38,261 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Anemia | 636,391 | 21,781 | 34.7 | 39.4 | 38.4 | 31.5 | 28.3 | 27.2 | 28.1 | 8,287 |
| Cardiac disease | 636,391 | 2,367 | 3.8 | 2.8 | 3.5 | 3.9 | 4.9 | 5.0 | 6.0 | 8,287 |
| Acute or chronic lung disease | 636,391 | 4,541 | 7.2 | 9.0 | 7.4 | 6.2 | 6.0 | 6.8 | 6.1 | 8,287 |
| Diabetes | 636,391 | 14,338 | 22.8 | 6.4 | 13.8 | 26.5 | 40.9 | 56.6 | 84.7 | 8,287 |
| Genital herpes ${ }^{3}$ | 596,115 | 5,171 | 8.8 | 8.2 | 10.2 | 8.9 | 8.0 | 6.6 | 3.7 | 7,886 |
| Hydramnios/Oligohydramnios ................ | 636,391 | 8,026 | 12.8 | 13.0 | 12.0 | 12.1 | 13.6 | 15.2 | 16.8 | 8,287 |
| Hemoglobinopathy | 636,391 | 1,551 | 2.5 | 2.5 | 2.6 | 2.5 | 2.5 | 1.5 | * | 8,287 |
| Hypertension, chronic | 636,391 | 7,320 | 11.7 | 3.9 | 6.9 | 10.5 | 19.5 | 36.8 | 67.1 | 8,287 |
| Hypertension, pregnancy-associated ..... | 636,391 | 20,492 | 32.6 | 37.0 | 29.1 | 29.7 | 33.1 | 40.5 | 44.5 | 8,287 |
| Eclampsia | 636,391 | 3,209 | 5.1 | 6.9 | 4.6 | 4.1 | 4.3 | 5.9 | 7.8 | 8,287 |
| Incompetent cervix ............................... | 636,391 | 2,139 | 3.4 | 1.2 | 2.7 | 4.2 | 5.8 | 5.7 | 5.1 | 8,287 |
| Previous infant 4000+ grams ................ | 636,391 | 2,636 | 4.2 | 0.8 | 3.4 | 5.3 | 6.9 | 8.2 | 12.7 | 8,287 |
| Previous preterm or small-for-gestational-age infant | 636,391 | 9,105 | 14.5 | 6.4 | 14.9 | 17.4 | 19.3 | 19.6 | 17.9 | 8,287 |
| Renal disease .................................... | 636,391 | 1,481 | 2.4 | 2.4 | 2.6 | 2.1 | 2.6 | 1.7 | * | 8,287 |
| Rh sensitization 4 | 633,249 | 2,205 | 3.5 | 3.0 | 3.4 | 3.6 | 3.9 | 4.1 | 4.3 | 8,347 |
|  | 596,115 | 3,594 | 6.1 | 5.1 | 5.9 | 6.3 | 7.3 | 7.1 | 7.3 | 7,886 |

[^24]Table 26. 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, 1994
[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 | 78,173 | 51,642 | 21,781 | 2,168 | 2,582 | 272 | 134 | 259 | 439 | 1,478 |
| Diabetes ......................................... | 99,492 | 78,065 | 14,338 | 1,650 | 5,439 | 1,028 | 228 | 158 | 1,139 | 2,886 |
| Hypertension, pregnancy-associated ... | 125,683 | 100,890 | 20,492 | 1,565 | 2,736 | 324 | 175 | 190 | 747 | 1,300 |
| Uterine bleeding 2 ............................. | 28,236 | 23,431 | 3,594 | 296 | 915 | 185 | 74 | 24 | 173 | 459 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy ................. | 224,160 | 162,145 | 50,721 | 2,311 | 8,983 | 1,348 | 387 | 479 | 1,975 | 4,794 |
| Premature rupture of membrane .......... | 121,549 | 92,975 | 22,346 | 1,623 | 4,605 | 861 | 353 | 240 | 846 | 2,305 |
| Dysfunctional labor ............................ | 116,670 | 95,203 | 16,054 | 1,241 | 4,172 | 816 | 256 | 191 | 749 | 2,160 |
| Breech/Malpresentation ..................... | 146,283 | 121,267 | 18,157 | 1,355 | 5,504 | 871 | 387 | 272 | 1,153 | 2,821 |
| Cephalopelvic disproprtion ................. | 99,747 | 81,209 | 13,335 | 830 | 4,373 | 784 | 303 | 193 | 1,102 | 1,991 |
| Fetal distress ${ }^{3}$................................. | 147,886 | 110,700 | 30,925 | 1,385 | 4,876 | 721 | 250 | 181 | 1,044 | 2,680 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis .................................. | 123,188 | 105,370 | 10,640 | 757 | 6,421 | 1,564 | 873 | 264 | 1,326 | 2,394 |
| Electronic fetal monitoring .................. | 3,146,757 | 2,499,230 | 503,314 | 29,381 | 114,832 | 19,108 | 6,905 | 4,727 | 21,876 | 62,216 |
| Induction of labor | 574,905 | 487,516 | 66,655 | 5,477 | 15,257 | 2,424 | 1,098 | 773 | 2,724 | 8,238 |
| Ultrasound | 2,396,461 | 1,934,207 | 353,627 | 21,540 | 87,087 | 14,835 | 5,891 | 3,706 | 17,146 | 45,509 |
| Stimulation of labor ........................... | 594,063 | 480,580 | 85,768 | 5,297 | 22,418 | 4,046 | 1,364 | 864 | 3,883 | 12,261 |

Rate

| Medical risk factors |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anemia | 20.0 | 16.8 | 34.7 | 58.9 | 16.6 | 10.3 | 14.8 | 44.6 | 14.5 | 17.5 |
| Diabetes | 25.5 | 25.4 | 22.8 | 44.8 | 34.9 | 39.0 | 25.1 | 27.2 | 37.7 | 34.2 |
| Hypertension, pregnancy-associated ... | 32.2 | 32.8 | 32.6 | 42.5 | 17.6 | 12.3 | 19.3 | 32.7 | 24.7 | 15.4 |
| Uterine bleeding 2 ............................. | 7.9 | 8.3 | 6.1 | 8.2 | 6.2 | 7.3 | 8.3 | 4.2 | 5.9 | 5.8 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy ................ | 57.3 | 52.5 | 80.6 | 62.6 | 57.5 | 51.1 | 42.2 | 80.9 | 65.1 | 56.7 |
| Premature rupture of membrane ......... | 31.1 | 30.1 | 35.5 | 44.0 | 29.5 | 32.7 | 38.5 | 40.6 | 27.9 | 27.3 |
| Dysfunctional labor | 29.8 | 30.8 | 25.5 | 33.6 | 26.7 | 31.0 | 27.9 | 32.3 | 24.7 | 25.6 |
| Breech/Malpresentation | 37.4 | 39.3 | 28.8 | 36.7 | 35.2 | 33.0 | 42.2 | 46.0 | 38.0 | 33.4 |
| Cephalopelvic disproprtion | 25.5 | 26.3 | 21.2 | 22.5 | 28.0 | 29.7 | 33.0 | 32.6 | 36.3 | 23.6 |
| Fetal distress ${ }^{3}$........... | 41.2 | 39.4 | 52.5 | 38.3 | 32.8 | 28.5 | 27.9 | 30.9 | 35.6 | 33.9 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 31.4 | 34.1 | 16.9 | 20.5 | 41.0 | 59.2 | 95.0 | 44.4 | 43.6 | 28.3 |
| Electronic fetal monitoring | 803.1 | 808.0 | 797.4 | 793.8 | 732.9 | 722.7 | 751.2 | 794.2 | 719.0 | 734.7 |
| Induction of labor | 146.7 | 157.6 | 105.6 | 148.0 | 97.4 | 91.7 | 119.5 | 129.9 | 89.5 | 97.3 |
| Ultrasound | 611.6 | 625.3 | 560.2 | 582.0 | 555.8 | 561.1 | 640.9 | 622.6 | 563.5 | 537.4 |
| Stimulation of labor | 151.6 | 155.4 | 135.9 | 143.1 | 143.1 | 153.0 | 148.4 | 145.2 | 127.6 | 144.8 |

[^25]Table 27. 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 of mother for mothers of non-Hispanic origin: United States, 1994
[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 <br> Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{2}$ | White | Black |
|  | Number |  |  |  |  |  |  |  |  |  |
| Medical risk factors |  |  |  |  |  |  |  |  |  |  |
| Anemia ........................................... | 78,173 | 12,538 | 7,652 | 1,630 | 234 | 1,362 | 1,660 | 64,668 | 38,943 | 21,237 |
| Diabetes | 99,492 | 15,935 | 10,361 | 1,756 | 276 | 2,302 | 1,240 | 82,369 | 61,671 | 13,866 |
| Hypertension, pregnancy-associated ... | 125,683 | 14,816 | 9,560 | 1,458 | 292 | 1,983 | 1,523 | 109,528 | 85,480 | 19,977 |
| Uterine bleeding ${ }^{3}$............................. | 28,236 | 2,966 | 1,803 | 299 | 62 | 520 | 282 | 24,817 | 20,185 | 3,495 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy ................. | 224,160 | 38,416 | 25,366 | 3,531 | 555 | 6,138 | 2,826 | 183,206 | 123,042 | 49,384 |
| Premature rupture of membrane .......... | 121,549 | 14,224 | 8,175 | 1,931 | 312 | 2,366 | 1,440 | 105,309 | 77,738 | 21,656 |
| Dysfunctional labor ............................ | 116,670 | 18,053 | 11,360 | 1,729 | 600 | 2,743 | 1,621 | 96,888 | 76,231 | 15,454 |
| Breech/Malpresentation ..................... | 146,283 | 19,575 | 13,022 | 1,869 | 459 | 2,685 | 1,540 | 125,048 | 100,886 | 17,643 |
| Cephalopelvic disproprtion ................. | 99,747 | 11,190 | 7,004 | 1,179 | 322 | 1,714 | 971 | 87,615 | 69,657 | 13,022 |
| Fetal distress 4 ................................. | 147,886 | 19,261 | 12,229 | 1,860 | 386 | 3,192 | 1,594 | 127,044 | 90,827 | 30,249 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis .................................. | 123,188 | 10,139 | 5,447 | 1,190 | 368 | 2,014 | 1,120 | 110,631 | 93,429 | 10,294 |
| Electronic fetal monitoring .................. | 3,146,757 | 487,305 | 324,162 | 46,954 | 9,386 | 68,578 | 38,225 | 2,626,621 | 1,999,248 | 489,368 |
| Induction of labor ............................... | 574,905 | 60,686 | 39,752 | 5,755 | 1,627 | 7,834 | 5,718 | 507,581 | 423,024 | 64,810 |
| Ultrasound ....................................... | 2,396,461 | 317,046 | 205,569 | 33,342 | 7,108 | 43,015 | 28,012 | 2,051,122 | 1,602,815 | 344,473 |
| Stimulation of labor ........................... | 594,063 | 85,852 | 55,517 | 9,535 | 1,576 | 11,829 | 7,395 | 501,247 | 391,626 | 83,053 |
|  | Rate |  |  |  |  |  |  |  |  |  |


| Medical risk factors |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anemia | 20.0 | 19.1 | 17.0 | 29.4 | 19.8 | 14.8 | 35.3 | 20.2 | 16.2 | 34.7 |
| Diabetes | 25.5 | 24.2 | 23.0 | 31.7 | 23.3 | 25.0 | 26.4 | 25.7 | 25.6 | 22.7 |
| Hypertension, pregnancy-associated ... | 32.2 | 22.5 | 21.2 | 26.3 | 24.7 | 21.5 | 32.4 | 34.2 | 35.5 | 32.7 |
| Uterine bleeding 3 ............................. | 7.9 | 5.6 | 5.4 | 5.5 | 5.3 | 6.0 | 7.3 | 8.2 | 8.9 | 6.1 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy ................ | 57.3 | 58.2 | 56.0 | 63.7 | 46.8 | 66.6 | 59.9 | 57.1 | 51.0 | 80.6 |
| Premature rupture of membrane ......... | 31.1 | 21.6 | 18.0 | 34.8 | 26.3 | 25.7 | 30.5 | 32.8 | 32.2 | 35.3 |
| Dysfunctional labor | 29.8 | 27.4 | 25.1 | 31.2 | 50.6 | 29.8 | 34.3 | 30.2 | 31.6 | 25.2 |
| Breech/Malpresentation | 37.4 | 29.7 | 28.7 | 33.7 | 38.7 | 29.1 | 32.6 | 39.0 | 41.8 | 28.8 |
| Cephalopelvic disproprtion ................. | 25.5 | 17.0 | 15.5 | 21.3 | 27.2 | 18.6 | 20.6 | 27.3 | 28.9 | 21.2 |
| Fetal distress ${ }^{4}$ | 41.2 | 36.6 | 36.5 | 34.1 | 33.2 | 37.1 | 41.0 | 42.1 | 40.0 | 52.8 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 31.4 | 15.3 | 12.0 | 21.3 | 31.0 | 21.7 | 23.6 | 34.4 | 38.7 | 16.8 |
| Electronic fetal monitoring | 803.1 | 737.1 | 715.1 | 839.6 | 791.3 | 740.1 | 806.9 | 816.8 | 827.5 | 796.4 |
| Induction of labor | 146.7 | 91.8 | 87.7 | 102.9 | 137.2 | 84.5 | 120.7 | 157.8 | 175.1 | 105.5 |
| Ultrasound | 611.6 | 479.5 | 453.5 | 596.2 | 599.3 | 464.2 | 591.3 | 637.8 | 663.4 | 560.6 |
| Stimulation of labor ........................... | 151.6 | 129.9 | 122.5 | 170.5 | 132.9 | 127.7 | 156.1 | 155.9 | 162.1 | 135.2 |

[^26]Table 28. 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, 1994

| Smoking status, smoking measure, and race of mother | All ages | Age of mother |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 15 years | 15-19 years |  |  | 20-24 years | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | $35-39$years | 40-49 years |
|  |  |  | Total | $15-17$ <br> years | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |
|  | Number |  |  |  |  |  |  |  |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Total ................................................. | 3,141,027 | 10,764 | 412,274 | 159,608 | 252,666 | 806,326 | 863,640 | 712,343 | 286,428 | 49,252 |
| Smoker .............................................. | 450,403 | 714 | 67,825 | 22,711 | 45,114 | 141,400 | 114,900 | 86,327 | 34,270 | 4,967 |
| Nonsmoker ........................................ | 2,643,656 | 9,929 | 338,790 | 134,717 | 204,073 | 653,628 | 735,625 | 614,920 | 247,433 | 43,331 |
| Not stated ......................................... | 46,968 | 121 | 5,659 | 2,180 | 3,479 | 11,298 | 13,115 | 11,096 | 4,725 | 954 |
| White |  |  |  |  |  |  |  |  |  |  |
| Total ................................................ | 2,446,329 | 4,454 | 272,561 | 98,154 | 174,407 | 600,217 | 700,591 | 593,208 | 235,582 | 39,716 |
| Smoker ............................................. | 376,707 | 575 | 59,617 | 19,817 | 39,800 | 121,478 | 95,044 | 69,493 | 26,702 | 3,798 |
| Nonsmoker ........................................................................ | 2,033,083 | 3,816 | 208,951 | 76,878 | 132,073 | 470,146 | 595,102 | 514,799 | 205,095 | 35,174 |
| Not stated ......................................... | 36,539 | 63 | 3,993 | 1,459 | 2,534 | 8,593 | 10,445 | 8,916 | 3,785 | 744 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Total ................................................ | 568,502 | 5,995 | 127,809 | 56,984 | 70,825 | 178,348 | 125,925 | 87,001 | 36,753 | 6,671 |
| Smoker ............................................. | 63,789 | 102 | 6,341 | 2,190 | 4,151 | 16,774 | 17,566 | 15,118 | 6,868 | 1,020 |
| Nonsmoker ....................................... | 496,831 | 5,842 | 120,093 | 54,191 | 65,902 | 159,452 | 106,390 | 70,329 | 29,224 | 5,501 |
| Not stated ......................................... | 7,882 | 51 | 1,375 | 603 | 772 | 2,122 | 1,969 | 1,554 | 661 | 150 |
|  | Percent |  |  |  |  |  |  |  |  |  |
| Smoker ${ }^{1}$............................................ | 14.6 | 6.7 | 16.7 | 14.4 | 18.1 | 17.8 | 13.5 | 12.3 | 12.2 | 10.3 |
| White ................................................. | 15.6 | 13.1 | 22.2 | 20.5 | 23.2 | 20.5 | 13.8 | 11.9 | 11.5 | 9.7 |
| Black ...................................................................... | 11.4 | 1.7 | 5.0 | 3.9 | 5.9 | 9.5 | 14.2 | 17.7 | 19.0 | 15.6 |
|  | Percent distribution |  |  |  |  |  |  |  |  |  |


| Smoker .............................................. | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1-5 cigarettes .................................... | 23.7 | 46.2 | 30.3 | 34.4 | 28.3 | 23.5 | 22.3 | 21.8 | 20.5 | 19.9 |
| 6-10 cigarettes ................................... | 40.3 | 36.1 | 42.9 | 42.8 | 42.9 | 41.9 | 39.7 | 38.2 | 36.5 | 33.4 |
| 11-15 cigarettes ................................ | 6.3 | 3.3 | 4.7 | 4.1 | 5.0 | 6.0 | 6.8 | 7.2 | 6.8 | 7.0 |
| 16-20 cigarettes | 25.0 | 12.9 | 19.3 | 16.5 | 20.7 | 24.6 | 26.1 | 26.9 | 28.5 | 30.2 |
| 21-30 cigarettes | 3.3 | * | 2.0 | 1.6 | 2.2 | 2.8 | 3.5 | 4.1 | 4.9 | 6.1 |
| 31-40 cigarettes ................................. | 1.3 | * | 0.6 | 0.4 | 0.7 | 1.1 | 1.4 | 1.7 | 2.4 | 3.0 |
| 41 cigarettes or more .......................... | 0.2 | * | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.4 | 0.5 |
| White |  |  |  |  |  |  |  |  |  |  |
| Smoker ............................................. | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1-5 cigarettes | 21.0 | 42.5 | 27.5 | 31.5 | 25.6 | 20.7 | 19.6 | 19.3 | 17.8 | 16.4 |
| 6-10 cigarettes | 40.1 | 38.8 | 43.8 | 44.1 | 43.7 | 42.0 | 39.2 | 37.0 | 35.0 | 31.3 |
| 11-15 cigarettes | 6.9 | * | 5.1 | 4.5 | 5.4 | 6.5 | 7.5 | 8.1 | 7.6 | 7.7 |
| 16-20 cigarettes ................................ | 26.8 | 13.9 | 20.6 | 17.7 | 22.0 | 26.4 | 28.2 | 29.0 | 30.8 | 33.4 |
| 21-30 cigarettes ................................. | 3.7 | * | 2.1 | 1.7 | 2.3 | 3.1 | 3.9 | 4.6 | 5.7 | 7.4 |
| 31-40 cigarettes ................................. | 1.4 | * | 0.7 | 0.4 | 0.8 | 1.1 | 1.4 | 1.8 | 2.7 | 3.3 |
| 41 cigarettes or more .......................... | 0.2 | * | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.4 | 0.6 |
| 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 .................................... | 37.8 | 61.1 | 52.4 | 56.5 | 50.3 | 42.1 | 36.2 | 32.6 | 30.1 | 32.6 |
| 6-10 cigarettes .................................. | 41.4 | 27.4 | 35.3 | 32.9 | 36.6 | 40.8 | 42.6 | 43.1 | 42.3 | 40.5 |
| 11-15 cigarettes | 3.0 | * | 1.8 | 1.7 | 1.9 | 2.6 | 2.8 | 3.5 | 3.8 | 4.5 |
| 16-20 cigarettes ................................. | 15.4 | * | 9.3 | 7.5 | 10.2 | 13.0 | 15.7 | 18.0 | 20.2 | 18.8 |
| 21-30 cigarettes ................................. | 1.3 | * | 0.8 | * | 0.8 | 0.8 | 1.5 | 1.7 | 1.9 | * |
| 31-40 cigarettes ................................ | 0.9 | * | * | * | * | 0.7 | 1.0 | 1.0 | 1.4 | * |
| 41 cigarettes or more .......................... | 0.2 | * | * | * | * | * | 0.2 | * | * | * |

[^27]
Table 29. 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 of mother for mothers of non-Hispanic origin: Total of 46 reporting States, the District of Columbia, and New York city, 1994

| Origin of mother | Smoking status |  |  |  | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total births | Smoker | Nonsmoker | Not stated | All ages | Under 15 years | 15-19 years |  |  | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-49 years |
|  |  |  |  |  |  |  | Total | $15-17$ years | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |
| All origins ${ }^{1}$........................... | 3,141,027 | 450,403 | 2,643,656 | 46,968 | 14.6 | 6.7 | 16.7 | 14.4 | 18.1 | 17.8 | 13.5 | 12.3 | 12.2 | 10.3 |
| Hispanic ............................... | 394,565 | 17,805 | 371,438 | 5,322 | 4.6 | 3.1 | 4.8 | 4.5 | 4.9 | 4.7 | 4.2 | 4.6 | 5.0 | 4.3 |
| Mexican ............................... | 232,718 | 7,742 | 222,962 | 2,014 | 3.4 | 2.1 | 3.5 | 3.5 | 3.6 | 3.3 | 3.0 | 3.7 | 4.1 | 3.7 |
| Puerto Rican ......................... | 52,386 | 5,532 | 45,286 | 1,568 | 10.9 | * | 9.2 | 7.9 | 10.2 | 11.5 | 11.2 | 11.6 | 11.9 | 10.4 |
| Cuban .................................. | 10,866 | 516 | 10,298 | 52 | 4.8 | * | 5.8 | * | 6.4 | 5.5 | 4.4 | 4.3 | 5.1 | * |
| Central and South American ... | 61,388 | 1,067 | 59,255 | 1,066 | 1.8 | * | 1.8 | 2.1 | 1.6 | 1.5 | 1.7 | 1.9 | 2.5 | 2.2 |
| Other and unknown Hispanic .. | 37,207 | 2,948 | 33,637 | 622 | 8.1 | * | 7.3 | 6.4 | 8.0 | 8.8 | 8.0 | 7.7 | 8.5 | 6.2 |
| Non-Hispanic 2 ...................... | 2,717,749 | 427,776 | 2,250,844 | 39,129 | 16.0 | 7.5 | 19.1 | 16.6 | 20.6 | 20.1 | 14.7 | 13.1 | 12.9 | 11.0 |
| White ................................... | 2,043,069 | 355,743 | 1,657,825 | 29,501 | 17.7 | 21.1 | 28.1 | 27.2 | 28.6 | 24.4 | 15.3 | 12.8 | 12.3 | 10.5 |
| Black ................................... | 554,496 | 62,763 | 484,389 | 7,344 | 11.5 | 1.7 | 5.0 | 3.8 | 5.9 | 9.6 | 14.4 | 18.0 | 19.3 | 15.8 |

${ }^{1}$ Includes origin not stated.
2 Includes races other than white and black.
NOTE: Excludes data for California, Indiana, New York State (but includes New York city), and South Dakota, which did not require reporting of tobacco use during pregnancy.

Table 30. 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 of mother: Total of 46 reporting States, the District of Columbia, and New York city, 1994

| Smoking measure, and race of mother | Total | Years of school completed by mother |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} 0-8 \\ \text { years } \end{gathered}$ | $\begin{gathered} 9-11 \\ \text { years } \end{gathered}$ | $\begin{gathered} 12 \\ \text { years } \end{gathered}$ | $13-15$ years | 16 years or more | Not Stated |
|  | All births |  |  |  |  |  |  |
| All races ${ }^{1}$....................................... | 3,141,027 | 149,852 | 508,381 | 1,110,639 | 681,747 | 641,003 | 49,405 |
| White ............................................. | 2,446,329 | 120,806 | 344,758 | 843,874 | 542,523 | 560,540 | 33,828 |
| Black ................................................ | 568,502 | 21,172 | 146,210 | 226,298 | 115,794 | 47,531 | 11,497 |
|  | Percent |  |  |  |  |  |  |
| Smoker ${ }^{1}$........................................ | 14.6 | 13.6 | 27.0 | 18.2 | 10.7 | 2.8 | 13.9 |
| White ............................................. | 15.6 | 14.7 | 31.8 | 20.4 | 11.5 | 2.9 | 13.8 |
| Black ............................................. | 11.4 | 9.5 | 16.7 | 11.3 | 7.9 | 3.4 | 16.4 |
|  | Percent distribution |  |  |  |  |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |
| Smoker ........................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less .......................... | 63.9 | 58.7 | 62.9 | 63.5 | 66.4 | 71.7 | 66.5 |
| 11-20 cigarettes .............................. | 31.3 | 33.2 | 31.6 | 32.0 | 29.7 | 25.4 | 28.8 |
| 21 cigarettes or more ........................ | 4.8 | 8.1 | 5.5 | 4.5 | 3.9 | 2.9 | 4.7 |
| White |  |  |  |  |  |  |  |
| Smoker .......................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less .......................... | 61.1 | 56.3 | 59.2 | 60.7 | 64.2 | 70.5 | 63.3 |
| 11-20 cigarettes ............................... | 33.7 | 35.1 | 34.7 | 34.3 | 31.5 | 26.5 | 31.6 |
| 21 cigarettes or more ........................ | 5.2 | 8.7 | 6.1 | 4.9 | 4.2 | 3.0 | 5.1 |
| Black |  |  |  |  |  |  |  |
| Smoker .......................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less .......................... | 79.3 | 76.3 | 78.5 | 80.1 | 80.3 | 81.8 | 72.7 |
| 11-20 cigarettes ............................... | 18.3 | 20.2 | 18.8 | 17.7 | 17.9 | 16.5 | 23.4 |
| 21 cigarettes or more ........................ | 2.4 | 3.5 | 2.8 | 2.2 | 1.8 | 1.7 | 3.9 |

1 Includes races other than white and black.
NOTE: Excludes data for California, Indiana, New York State (but includes New York city), and South Dakota, which did not require reporting of tobacco use during pregnancy.

Table 31. Percent low birthweight by smoking status, age, and race of mother: Total of 46 reporting States, the District of Columbia, and New York city, 1994
[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 |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-49 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \\ & \hline \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \\ & \hline \end{aligned}$ |  |  |  |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Total .................................... | 7.6 | 14.3 | 9.7 | 10.5 | 9.1 | 7.6 | 6.6 | 6.9 | 8.2 | 9.7 |
| Smoker ............................... | 12.3 | 17.1 | 11.4 | 12.0 | 11.1 | 10.6 | 11.9 | 13.9 | 17.0 | 19.0 |
| Nonsmoker .......................... | 6.7 | 14.1 | 9.3 | 10.2 | 8.7 | 6.9 | 5.8 | 5.9 | 7.0 | 8.5 |
| Not stated ............................ | 9.7 | 20.2 | 12.4 | 13.5 | 11.7 | 9.4 | 9.0 | 8.4 | 10.8 | 13.3 |
| White |  |  |  |  |  |  |  |  |  |  |
| Total .................................... | 6.2 | 11.6 | 8.1 | 8.8 | 7.7 | 6.2 | 5.5 | 5.8 | 6.9 | 8.3 |
| Smoker ................................ | 10.6 | 16.3 | 10.9 | 11.5 | 10.6 | 9.6 | 9.9 | 11.2 | 13.9 | 16.1 |
| Nonsmoker .......................... | 5.4 | 10.8 | 7.2 | 8.0 | 6.8 | 5.3 | 4.8 | 5.0 | 6.0 | 7.3 |
| Not stated ............................ | 8.2 | * | 10.7 | 11.9 | 9.9 | 8.0 | 7.7 | 6.9 | 9.3 | 11.3 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Total .................................... | 13.3 | 16.5 | 13.2 | 13.7 | 12.9 | 12.2 | 12.9 | 14.6 | 16.4 | 18.0 |
| Smoker ............................... | 22.8 | 20.6 | 16.8 | 17.3 | 16.6 | 18.3 | 23.1 | 26.5 | 29.3 | 30.6 |
| Nonsmoker .......................... | 12.1 | 16.4 | 13.0 | 13.5 | 12.6 | 11.5 | 11.1 | 12.0 | 13.3 | 15.4 |
| Not stated .............................. | 16.8 | * | 17.2 | 16.8 | 17.5 | 15.9 | 15.6 | 17.1 | 19.3 | 27.7 |

1 Includes races other than white and black.
NOTE: Excludes data for California, Indiana, New York State (but includes New York city), and South Dakota, which did not require reporting of tobacco use during pregnancy.

Table 32. Number of live births by drinking status of mother, percent of mothers who drank during pregnancy, and percent distribution by average number of drinks per week, according to age and race of mother: Total of 48 reporting States and the District of Columbia, 1994

| Drinking status, drinking measure, and race of mother | All ages | Age of mother |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 15 years | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-49 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |
|  | Number |  |  |  |  |  |  |  |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Total .......................................... | 3,374,330 | 11,201 | 435,964 | 168,354 | 267,610 | 858,177 | 930,843 | 773,920 | 311,080 | 53,145 |
| Drinker ...................................... | 57,056 | 70 | 3,964 | 1,387 | 2,577 | 11,329 | 14,941 | 17,100 | 8,256 | 1,396 |
| Nondrinker ................................. | 3,262,567 | 10,992 | 425,544 | 164,523 | 261,021 | 833,969 | 900,859 | 743,413 | 297,164 | 50,626 |
| Not stated ................................... | 54,707 | 139 | 6,456 | 2,444 | 4,012 | 12,879 | 15,043 | 13,407 | 5,660 | 1,123 |
| White |  |  |  |  |  |  |  |  |  |  |
| Total .......................................... | 2,649,508 | 4,677 | 290,536 | 104,365 | 186,171 | 643,812 | 760,370 | 649,089 | 257,828 | 43,196 |
| Drinker | 40,163 | 44 | 2,809 | 974 | 1,835 | 7,547 | 9,936 | 12,596 | 6,177 | 1,054 |
| Nondrinker ................................. | 2,566,617 | 4,556 | 283,210 | 101,771 | 181,439 | 626,553 | 738,483 | 625,565 | 247,006 | 41,244 |
| Not stated | 42,728 | 77 | 4,517 | 1,620 | 2,897 | 9,712 | 11,951 | 10,928 | 4,645 | 898 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Total .......................................... | 593,508 | 6,208 | 133,280 | 59,446 | 73,834 | 185,799 | 131,707 | 91,098 | 38,459 | 6,957 |
| Drinker ...................................... | 14,808 | 17 | 871 | 290 | 581 | 3,186 | 4,490 | 4,066 | 1,881 | 297 |
| Nondrinker ................................. | 569,512 | 6,133 | 130,784 | 58,456 | 72,328 | 180,096 | 124,896 | 85,231 | 35,867 | 6,505 |
| Not stated .................................. | 9,188 | 58 | 1,625 | 700 | 925 | 2,517 | 2,321 | 1,801 | 711 | 155 |
|  | Percent |  |  |  |  |  |  |  |  |  |
| Drinker 1 | 1.7 | 0.6 | 0.9 | 0.8 | 1.0 | 1.3 | 1.6 | 2.2 | 2.7 | 2.7 |
| White | 1.5 | 1.0 | 1.0 | 0.9 | 1.0 | 1.2 | 1.3 | 2.0 | 2.4 | 2.5 |
| Black ......................................... | 2.5 | * | 0.7 | 0.5 | 0.8 | 1.7 | 3.5 | 4.6 | 5.0 | 4.4 |
|  | Percent distribution |  |  |  |  |  |  |  |  |  |

All races 1

| Drinker ...................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 drink or less | 52.7 | 62.9 | 55.6 | 57.1 | 54.9 | 52.0 | 51.6 | 53.9 | 52.4 | 49.9 |
| 2 drinks | 19.4 | * | 18.4 | 17.7 | 18.8 | 19.3 | 19.2 | 19.3 | 20.3 | 19.7 |
| 3-4 drinks | 13.0 | * | 12.3 | 11.7 | 12.6 | 13.4 | 13.4 | 12.7 | 12.4 | 15.2 |
| 5 drinks or more | 14.9 | * | 13.7 | 13.6 | 13.7 | 15.3 | 15.8 | 14.1 | 14.8 | 15.2 |
| White |  |  |  |  |  |  |  |  |  |  |
| Drinker | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 drink or less .............................. | 59.8 | * | 57.4 | 59.0 | 56.6 | 57.4 | 60.3 | 61.5 | 59.4 | 55.8 |
| 2 drinks | 18.1 | * | 16.9 | 16.7 | 17.0 | 17.6 | 17.6 | 18.2 | 19.3 | 18.9 |
| 3-4 drinks | 11.3 | * | 12.0 | 11.5 | 12.3 | 12.1 | 11.1 | 10.9 | 11.1 | 13.4 |
| 5 drinks or more | 10.8 | * | 13.7 | 12.8 | 14.1 | 12.9 | 10.9 | 9.4 | 10.2 | 12.0 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Drinker ...................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 drink or less | 33.1 | * | 48.0 | 46.3 | 48.8 | 39.6 | 32.4 | 29.3 | 27.8 | 27.2 |
| 2 drinks | 23.5 | * | 24.1 | 25.1 | 23.6 | 23.7 | 23.3 | 22.9 | 24.9 | 22.3 |
| 3-4 drinks | 17.7 | * | 14.3 | 13.1 | 14.8 | 16.7 | 18.5 | 18.5 | 16.8 | 22.8 |
| 5 drinks or more .......................... | 25.6 | * | 13.7 | 15.4 | 12.9 | 20.0 | 25.9 | 29.3 | 30.6 | 27.7 |

[^28]NOTE: Excludes data for California, and South Dakota, which did not require reporting of alcohol 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 of mother: United States, 1994

| Age and race of mother | All births | Month of pregnancy prenatal care began |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st trimester |  |  | $2 d$ <br> trimester | Late or no care |  |  | Not stated | Percent |  |
|  |  | Total | 1st and 2d months | $\begin{gathered} 3 d \\ \text { month } \end{gathered}$ | 4th-6th months | Total | 7th-9th months | No care |  | 1st trimester | Late or no care |
| All races ${ }^{1}$.................... | 3,952,767 | 3,098,806 | 2,312,452 | 786,354 | 593,932 | 169,961 | 117,271 | 52,690 | 90,068 | 80.2 | 4.4 |
| Under 15 years ............. | 12,901 | 5,652 | 3,289 | 2,363 | 4,749 | 1,968 | 1,410 | 558 | 532 | 45.7 | 15.9 |
| 15-19 years ................. | 505,488 | 316,655 | 200,041 | 116,614 | 136,241 | 39,351 | 28,404 | 10,947 | 13,241 | 64.3 | 8.0 |
| 15 years ..................... | 30,742 | 16,322 | 9,567 | 6,755 | 10,171 | 3,310 | 2,361 | 949 | 939 | 54.8 | 11.1 |
| 16 years ..................... | 63,125 | 36,376 | 21,901 | 14,475 | 19,101 | 5,827 | 4,168 | 1,659 | 1,821 | 59.3 | 9.5 |
| 17 years .................... | 101,302 | 62,393 | 38,828 | 23,565 | 27,995 | 8,216 | 5,916 | 2,300 | 2,698 | 63.3 | 8.3 |
| 18 years ..................... | 137,547 | 87,617 | 55,772 | 31,845 | 36,212 | 10,215 | 7,407 | 2,808 | 3,503 | 65.4 | 7.6 |
| 19 years ..................... | 172,772 | 113,947 | 73,973 | 39,974 | 42,762 | 11,783 | 8,552 | 3,231 | 4,280 | 67.6 | 7.0 |
| 20-24 years ................. | 1,001,418 | 729,445 | 513,122 | 216,323 | 193,383 | 55,029 | 38,742 | 16,287 | 23,561 | 74.6 | 5.6 |
| 25-29 years ................. | 1,088,845 | 900,061 | 692,620 | 207,441 | 128,887 | 36,554 | 24,481 | 12,073 | 23,343 | 84.5 | 3.4 |
| 30-34 years ................. | 906,498 | 778,735 | 615,083 | 163,652 | 85,070 | 23,803 | 15,634 | 8,169 | 18,890 | 87.7 | 2.7 |
| 35-39 years ................. | 371,608 | 315,027 | 247,437 | 67,590 | 37,306 | 10,664 | 6,922 | 3,742 | 8,611 | 86.8 | 2.9 |
| 40 years and over .......... | 66,009 | 53,231 | 40,860 | 12,371 | 8,296 | 2,592 | 1,678 | 914 | 1,890 | 83.0 | 4.0 |
| White .......................... | 3,121,004 | 2,534,574 | 1,916,630 | 617,944 | 415,937 | 109,868 | 79,515 | 30,353 | 60,625 | 82.8 | 3.6 |
| Under 15 years ............. | 5,978 | 2,870 | 1,679 | 1,191 | 2,009 | 875 | 645 | 230 | 224 | 49.9 | 15.2 |
| 15-19 years ................. | 348,081 | 227,516 | 144,392 | 83,124 | 88,190 | 24,467 | 18,114 | 6,353 | 7,908 | 66.9 | 7.2 |
| 15 years ..................... | 17,443 | 9,921 | 5,819 | 4,102 | 5,312 | 1,774 | 1,278 | 496 | 436 | 58.3 | 10.4 |
| 16 years ..................... | 40,198 | 24,309 | 14,711 | 9,598 | 11,337 | 3,508 | 2,527 | 981 | 1,044 | 62.1 | 9.0 |
| 17 years ..................... | 68,747 | 44,021 | 27,526 | 16,495 | 17,987 | 5,119 | 3,785 | 1,334 | 1,620 | 65.6 | 7.6 |
| 18 years ..................... | 96,605 | 64,002 | 40,806 | 23,196 | 24,096 | 6,428 | 4,798 | 1,630 | 2,079 | 67.7 | 6.8 |
| 19 years ..................... | 125,088 | 85,263 | 55,530 | 29,733 | 29,458 | 7,638 | 5,726 | 1,912 | 2,729 | 69.7 | 6.2 |
| 20-24 years ................. | 764,085 | 575,244 | 408,285 | 166,959 | 136,728 | 36,499 | 26,756 | 9,743 | 15,614 | 76.9 | 4.9 |
| 25-29 years ................. | 889,581 | 755,448 | 587,633 | 167,815 | 93,990 | 24,065 | 17,153 | 6,912 | 16,078 | 86.5 | 2.8 |
| 30-34 years ................. | 754,871 | 663,988 | 529,493 | 134,495 | 62,206 | 15,311 | 10,841 | 4,470 | 13,366 | 89.5 | 2.1 |
| 35-39 years ................. | 305,291 | 265,446 | 210,885 | 54,561 | 26,853 | 6,910 | 4,844 | 2,066 | 6,082 | 88.7 | 2.3 |
| 40 years and over ......... | 53,117 | 44,062 | 34,263 | 9,799 | 5,961 | 1,741 | 1,162 | 579 | 1,353 | 85.1 | 3.4 |
| Black .......................... | 636,391 | 418,374 | 290,069 | 128,305 | 143,916 | 50,272 | 30,029 | 20,243 | 23,829 | 68.3 | 8.2 |
| Under 15 years ............. | 6,465 | 2,602 | 1,511 | 1,091 | 2,579 | 997 | 696 | 301 | 287 | 42.1 | 16.1 |
| 15-19 years ................. | 140,968 | 79,903 | 49,966 | 29,937 | 42,854 | 13,302 | 9,048 | 4,254 | 4,909 | 58.7 | 9.8 |
| 15 years ..................... | 12,297 | 5,928 | 3,465 | 2,463 | 4,478 | 1,420 | 994 | 426 | 471 | 50.1 | 12.0 |
| 16 years ..................... | 20,853 | 10,985 | 6,534 | 4,451 | 7,051 | 2,093 | 1,459 | 634 | 724 | 54.6 | 10.4 |
| 17 years ..................... | 29,413 | 16,693 | 10,285 | 6,408 | 8,945 | 2,768 | 1,880 | 888 | 1,007 | 58.8 | 9.7 |
| 18 years ..................... | 36,489 | 21,044 | 13,370 | 7,674 | 10,738 | 3,388 | 2,295 | 1,093 | 1,319 | 59.8 | 9.6 |
| 19 years ..................... | 41,916 | 25,253 | 16,312 | 8,941 | 11,642 | 3,633 | 2,420 | 1,213 | 1,388 | 62.3 | 9.0 |
| 20-24 years ................. | 197,841 | 127,669 | 86,985 | 40,684 | 47,598 | 15,803 | 9,889 | 5,914 | 6,771 | 66.8 | 8.3 |
| 25-29 years ................. | 142,355 | 100,943 | 73,051 | 27,892 | 25,909 | 9,966 | 5,349 | 4,617 | 5,537 | 73.8 | 7.3 |
| 30-34 years ................. | 99,155 | 72,205 | 53,338 | 18,867 | 16,211 | 6,688 | 3,309 | 3,379 | 4,051 | 75.9 | 7.0 |
| 35-39 years ................. | 42,029 | 29,890 | 21,576 | 8,314 | 7,333 | 2,917 | 1,424 | 1,493 | 1,889 | 74.5 | 7.3 |
| 40 years and over ......... | 7,578 | 5,162 | 3,642 | 1,520 | 1,432 | 599 | 314 | 285 | 385 | 71.8 | 8.3 |

[^29]Table 34. Percent of mothers beginning prenatal care in the first trimester and percent of mothers with late or no prenatal care by race of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1994
[By place of residence]

| State | Percent beginning care in 1st trimester |  |  | Percent late ${ }^{1}$ or no care |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} A l l \\ \text { races } 2 \end{gathered}$ | White | Black | $\begin{gathered} A l l \\ \text { races } 2 \end{gathered}$ | White | Black |
| United States 3 .................................. | 80.2 | 82.8 | 68.3 | 4.4 | 3.6 | 8.2 |
| Alabama | 81.3 | 87.6 | 69.2 | 3.9 | 2.3 | 7.1 |
| Alaska ............................................. | 84.6 | 86.3 | 85.6 | 2.8 | 2.4 |  |
| Arizona ............................................. | 71.6 | 73.0 | 69.3 | 7.4 | 6.9 | 8.3 |
| Arkansas ......................................... | 75.0 | 79.1 | 61.2 | 6.1 | 4.6 | 11.3 |
| California .......................................... | 77.7 | 77.5 | 75.5 | 4.9 | 5.0 | 5.5 |
| Colorado ....................................................................... | 80.7 | 81.6 | 69.9 | 4.6 | 4.3 | 8.4 |
| Connecticut ....................................... | 88.5 | 90.4 | 76.3 | 2.2 | 1.7 | 5.4 |
| Delaware .......................................... | 83.0 | 87.3 | 68.5 | 3.6 | 2.2 | 8.0 |
| District of Columbia ............................. | 57.3 | 84.3 | 53.1 | 15.4 | 5.8 | 17.0 |
| Florida | 81.2 | 84.8 | 69.4 | 3.6 | 2.8 | 6.5 |
| Georgia | 81.9 | 87.1 | 72.6 | 3.8 | 2.5 | 6.3 |
| Hawaii ............................................. | 84.3 | 87.3 | 84.3 | 3.1 | 2.0 |  |
| Idaho ................................................ | 78.9 | 79.2 | 80.6 | 4.5 | 4.4 | * |
| Illinois .............................................. | 80.3 | 84.3 | 66.0 | 4.4 | 3.0 | 9.3 |
| Indiana | 80.6 | 82.5 | 64.7 | 3.7 | 3.2 | 8.3 |
| Iowa ............................................... | 87.3 | 87.9 | 71.4 | 2.4 | 2.2 | 6.9 |
| Kansas | 84.6 | 85.9 | 73.1 | 3.1 | 2.7 | 6.6 |
| Kentucky .......................................... | 83.0 | 84.4 | 69.3 | 3.0 | 2.6 | 7.1 |
| Louisiana ......................................... | 79.2 | 87.0 | 68.7 | 4.2 | 2.1 | 7.0 |
| Maine .............................................. | 89.4 | 89.6 | 75.0 | 1.4 | 1.4 |  |
| Maryland ......................................... | 86.5 | 91.3 | 76.8 | 3.5 | 1.8 | 7.0 |
| Massachusetts .................................. | 89.0 | 90.6 | 78.0 | 1.9 | 1.5 | 4.9 |
| Michigan | 82.5 | 86.0 | 68.1 | 3.7 | 2.6 | 8.3 |
| Minnesota ........................................ | 83.0 | 86.0 | 58.0 | 3.0 | 2.1 | 12.3 |
| Mississippi .... | 75.9 | 85.7 | 65.1 | 5.0 | 2.6 | 7.6 |
| Missouri ........................................... | 83.9 | 86.6 | 70.1 | 3.2 | 2.2 | 8.2 |
| Montana ........................................... | 81.6 | 84.0 | 84.4 | 3.4 | 2.5 |  |
| Nebraska ......................................... | 83.4 | 84.6 | 69.4 | 3.0 | 2.6 | 7.1 |
| Nevada | 75.1 | 76.3 | 64.6 | 7.6 | 7.1 | 11.8 |
| New Hampshire ................................. | 88.6 | 88.7 | 73.3 | 1.9 | 1.8 |  |
| New Jersey ....................................... | 82.2 | 86.5 | 65.0 | 4.5 | 2.8 | 11.1 |
| New Mexico ...................................... | 66.9 | 69.5 | 58.9 | 7.9 | 6.6 | 11.4 |
| New York | 75.6 | 79.8 | 61.3 | 6.1 | 4.8 | 10.7 |
| North Carolina ................................... | 81.9 | 87.4 | 68.4 | 3.8 | 2.2 | 7.6 |
| North Dakota ...................................... | 83.0 | 84.5 | 88.2 | 2.0 | 1.6 | * |
| Ohio | 84.0 | 86.7 | 69.1 | 3.5 | 2.6 | 8.8 |
| Oklahoma | 76.1 | 79.1 | 63.4 | 6.1 | 4.9 | 11.4 |
| Oregon ............................................. | 79.1 | 79.6 | 71.2 | 4.3 | 4.2 | 5.6 |
| Pennsylvania .................................... | 81.8 | 85.6 | 61.4 | 4.4 | 2.9 | 12.6 |
| Rhode Island ...................................... | 89.4 | 90.8 | 77.3 | 1.6 | 1.4 | 3.2 |
| South Carolina ................................... | 76.1 | 84.2 | 62.9 | 5.6 | 3.1 | 9.6 |
| South Dakota ..................................... | 81.8 | 85.2 | 70.0 | 3.9 | 2.3 |  |
| Tennessee ....................................... | 81.8 | 85.5 | 69.3 | 3.8 | 2.6 | 7.7 |
| Texas .............................................. | 75.5 | 76.1 | 70.4 | 6.1 | 5.9 | 7.4 |
| Utah | 85.5 | 86.4 | 70.3 | 2.8 | 2.4 | 8.8 |
| Vermont ........................................... | 86.0 | 86.3 |  | 2.1 | 2.1 |  |
| Virginia .............................................. | 82.9 | 87.0 | 70.8 | 3.5 | 2.3 | 7.0 |
| Washington ....................................... | 82.5 | 83.4 | 75.6 | 3.4 | 3.1 | 6.0 |
| West Virginia ..................................... | 80.0 | 80.6 | 65.0 | 3.4 | 3.1 | 9.7 |
| Wisconsin ........................................ | 83.3 | 86.8 | 63.1 | 3.5 | 2.4 | 11.1 |
| Wyoming ........................................... | 82.3 | 83.2 | 63.9 | 3.6 | 3.2 |  |
| Puerto Rico ....................................... | 76.8 | 77.4 | 67.7 | 3.9 | 3.6 | 7.4 |
| Virgin Islands | 55.7 | 58.9 | 55.0 | 13.4 | 13.4 | 13.5 |
| Guam ................................................ | 66.4 | 76.5 | 78.1 | 8.0 | * |  |

[^30]Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race of mother: United States, 1994

| Number of prenatal visits and race of mother | All births | Month of pregnancy prenatal care began |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st trimester |  |  | $2 d$ trimester 4th-6th months | Late or no care |  |  | Not stated |
|  |  | Total | 1st and 2d months | 3d month |  | Total | 7th-9th months | No care |  |
| All races 1 | 3,952,767 | 3,098,806 | 2,312,452 | 786,354 | 593,932 | 169,961 | 117,271 | 52,690 | 90,068 |
| No visits | 52,690 | $\ldots$ | ... | . | $\ldots$ | 52,690 |  | 52,690 | $\ldots$ |
| 1-2 visits | 46,975 | 10,259 | 6,321 | 3,938 | 11,786 | 22,658 | 22,658 | ... | 2,272 |
| 3-4 visits | 93,583 | 24,146 | 13,087 | 11,059 | 36,537 | 30,756 | 30,756 | $\ldots$ | 2,144 |
| 5-6 visits | 196,655 | 78,313 | 42,907 | 35,406 | 86,237 | 28,978 | 28,978 | $\ldots$ | 3,127 |
| 7-8 visits | 350,779 | 203,156 | 119,937 | 83,219 | 126,924 | 17,008 | 17,008 |  | 3,691 |
| $9-10$ visits | 759,056 | 578,510 | 376,082 | 202,428 | 164,540 | 9,126 | 9,126 | $\ldots$ | 6,880 |
| 11-12 visits | 1,033,482 | 933,459 | 699,634 | 233,825 | 91,806 | 3,322 | 3,322 | $\ldots$ | 4,895 |
| $13-14$ visits | 646,957 | 608,789 | 496,917 | 111,872 | 34,324 | 1,365 | 1,365 | $\ldots$ | 2,479 |
| 15-16 visits | 422,955 | 399,764 | 337,015 | 62,749 | 20,511 | 862 | 862 | ... | 1,818 |
| 17-18 visits | 96,033 | 91,550 | 77,869 | 13,681 | 3,862 | 191 | 191 | $\ldots$ | 430 |
| 19 visits or more | 133,436 | 125,151 | 108,072 | 17,079 | 6,978 | 465 | 465 |  | 842 |
| Not stated | 120,166 | 45,709 | 34,611 | 11,098 | 10,427 | 2,540 | 2,540 | $\ldots$ | 61,490 |
| Median number of visits | 12.2 | 12.6 | 12.8 | 11.6 | 9.5 | 5.3 | 5.3 | $\ldots$ | 10.3 |
| White | 3,121,004 | 2,534,574 | 1,916,630 | 617,944 | 415,937 | 109,868 | 79,515 | 30,353 | 60,625 |
| No visits | 30,353 | . $\ldots$ |  | ... | ... | 30,353 |  | 30,353 |  |
| 1-2 visits | 27,912 | 6,180 | 3,879 | 2,301 | 6,172 | 14,268 | 14,268 | ... | 1,292 |
| 3-4 visits | 58,834 | 15,093 | 8,173 | 6,920 | 22,025 | 20,423 | 20,423 | ... | 1,293 |
| 5-6 visits | 133,948 | 54,765 | 30,184 | 24,581 | 57,142 | 20,042 | 20,042 | ... | 1,999 |
| 7-8 visits | 261,900 | 157,574 | 94,556 | 63,018 | 89,644 | 12,104 | 12,104 | ... | 2,578 |
| $9-10$ visits | 593,060 | 463,673 | 305,227 | 158,446 | 118,042 | 6,456 | 6,456 | $\ldots$ | 4,889 |
| 11-12 visits | 853,911 | 779,503 | 590,078 | 189,425 | 68,121 | 2,506 | 2,506 | $\ldots$ | 3,781 |
| 13-14 visits | 543,940 | 515,191 | 423,467 | 91,724 | 25,816 | 1,007 | 1,007 | ... | 1,926 |
| 15-16 visits | 346,067 | 329,120 | 279,472 | 49,648 | 14,893 | 647 | 647 | ... | 1,407 |
| 17-18 visits | 79,681 | 76,333 | 65,223 | 11,110 | 2,858 | 152 | 152 | $\ldots$ | 338 |
| 19 visits or more | 109,071 | 103,314 | 90,175 | 13,139 | 4,827 | 322 | 322 | $\ldots$ | 608 |
| Not stated | 82,327 | 33,828 | 26,196 | 7,632 | 6,397 | 1,588 | 1,588 | ... | 40,514 |
| Median number of visits | 12.3 | 12.6 | 12.8 | 11.7 | 9.7 | 5.4 | 5.4 | ... | 10.4 |
| Black | 636,391 | 418,374 | 290,069 | 128,305 | 143,916 | 50,272 | 30,029 | 20,243 | 23,829 |
| No visits | 20,243 | ... | ... | . 3 | $\ldots$ | 20,243 | ... | 20,243 |  |
| 1-2 visits | 16,150 | 3,530 | 2,093 | 1,437 | 4,943 | 6,817 | 6,817 | ... | 860 |
| 3-4 visits | 28,861 | 7,724 | 4,177 | 3,547 | 12,184 | 8,233 | 8,233 | $\ldots$ | 720 |
| 5-6 visits | 50,574 | 19,071 | 10,415 | 8,656 | 23,477 | 7,060 | 7,060 | ... | 966 |
| 7-8 visits | 68,118 | 34,101 | 18,950 | 15,151 | 29,310 | 3,819 | 3,819 | $\ldots$ | 888 |
| $9-10$ visits | 125,970 | 84,878 | 51,862 | 33,016 | 37,396 | 2,106 | 2,106 | $\ldots$ | 1,590 |
| 11-12 visits | 129,915 | 109,712 | 76,930 | 32,782 | 18,745 | 613 | 613 | $\ldots$ | 845 |
| 13-14 visits | 75,288 | 67,733 | 52,424 | 15,309 | 6,842 | 290 | 290 | $\ldots$ | 423 |
| 15-16 visits | 58,345 | 53,121 | 43,025 | 10,096 | 4,712 | 171 | 171 | ... | 341 |
| 17-18 visits | 12,033 | 11,105 | 9,098 | 2,007 | 821 | 35 | 35 | ... | 72 |
| 19 visits or more | 19,580 | 17,351 | 14,071 | 3,280 | 1,918 | 119 | 119 | $\ldots$ | 192 |
| Not stated | 31,314 | 10,048 | 7,024 | 3,024 | 3,568 | 766 | 766 | $\ldots$ | 16,932 |
| Median number of visits | 11.1 | 12.3 | 12.6 | 11.1 | 9.0 | 4.9 | 4.9 | ... | 9.0 |

[^31]Table 36. Live births to mothers with selected obstetric procedures and rates by age of mother, by race of mother: United States, 1994
[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 ${ }^{1}$ | Obstetric procedure reported | Age of mother |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All ages | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-49 years |  |
| All races ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 3,952,767 | 123,188 | 31.4 | 9.5 | 11.3 | 15.0 | 27.7 | 145.1 | 192.9 | 34,676 |
| Electronic fetal monitoring | 3,952,767 | 3,146,757 | 803.1 | 814.1 | 808.1 | 805.9 | 798.7 | 783.6 | 767.4 | 34,676 |
| Induction of labor | 3,952,767 | 574,905 | 146.7 | 128.5 | 142.3 | 152.5 | 153.2 | 150.5 | 153.0 | 34,676 |
| Stimulation of labor | 3,952,767 | 594,063 | 151.6 | 157.0 | 154.7 | 154.3 | 147.9 | 139.8 | 136.4 | 34,676 |
| Tocolysis | 3,952,767 | 66,628 | 17.0 | 18.8 | 17.1 | 16.6 | 16.4 | 17.0 | 17.0 | 34,676 |
| Ultrasound | 3,952,767 | 2,396,461 | 611.6 | 594.2 | 605.9 | 617.4 | 619.3 | 616.9 | 607.0 | 34,676 |
| White |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 3,121,004 | 105,370 | 34.1 | 10.3 | 11.8 | 15.4 | 29.0 | 154.2 | 208.2 | 27,841 |
| Electronic fetal monitoring | 3,121,004 | 2,499,230 | 808.0 | 818.7 | 812.7 | 811.6 | 804.3 | 788.5 | 771.7 | 27,841 |
| Induction of labor ............ | 3,121,004 | 487,516 | 157.6 | 140.6 | 154.3 | 162.9 | 162.0 | 159.1 | 160.8 | 27,841 |
| Stimulation of labor | 3,121,004 | 480,580 | 155.4 | 164.5 | 159.7 | 157.6 | 150.5 | 142.2 | 138.7 | 27,841 |
| Tocolysis | 3,121,004 | 53,976 | 17.5 | 20.0 | 17.6 | 17.1 | 16.6 | 17.3 | 17.1 | 27,841 |
| Ultrasound | 3,121,004 | 1,934,207 | 625.3 | 611.7 | 620.5 | 630.1 | 630.1 | 628.4 | 619.1 | 27,841 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 636,391 | 10,640 | 16.9 | 7.7 | 9.5 | 13.0 | 18.6 | 77.3 | 101.9 | 5,168 |
| Electronic fetal monitoring | 636,391 | 503,314 | 797.4 | 809.0 | 802.1 | 792.9 | 786.1 | 780.5 | 773.0 | 5,168 |
| Induction of labor | 636,391 | 66,655 | 105.6 | 101.6 | 103.1 | 106.8 | 109.7 | 113.4 | 129.6 | 5,168 |
| Stimulation of labor | 636,391 | 85,768 | 135.9 | 140.8 | 137.7 | 135.4 | 130.3 | 126.5 | 125.5 | 5,168 |
| Tocolysis | 636,391 | 9,501 | 15.1 | 15.8 | 14.8 | 14.5 | 15.2 | 14.8 | 14.8 | 5,168 |
| Ultrasound | 636,391 | 353,627 | 560.2 | 556.7 | 560.0 | 560.8 | 564.7 | 562.7 | 552.7 | 5,168 |

[^32]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, 1994
[Rates are number of live births with specified complication per 1,000 live births in specified group]

|  |  |  | Age of mother |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Complication and race of mother | $\underset{\text { births }{ }^{1}}{\text { All }}$ | Complication reported | All ages | $\begin{aligned} & \text { Under } \\ & 20 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-49 \\ & \text { years } \end{aligned}$ |  |


| All races ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Febrile | 3,952,767 | 60,564 | 15.5 | 19.4 | 16.4 | 15.2 | 13.9 | 12.7 | 13.8 | 43,818 |
| Meconium, moderate/heavy | 3,952,767 | 224,160 | 57.3 | 61.7 | 58.4 | 55.4 | 55.3 | 58.4 | 61.8 | 43,818 |
| Premature rupture of membrane ........... | 3,952,767 | 121,549 | 31.1 | 30.6 | 29.4 | 30.4 | 31.7 | 35.4 | 39.1 | 43,818 |
| Abruptio placenta | 3,952,767 | 22,721 | 5.8 | 5.6 | 5.5 | 5.5 | 6.0 | 7.1 | 7.8 | 43,818 |
| Placenta previa | 3,952,767 | 13,231 | 3.4 | 1.2 | 2.1 | 3.1 | 4.8 | 6.6 | 8.6 | 43,818 |
| Other excessive bleeding | 3,952,767 | 21,678 | 5.5 | 5.2 | 5.2 | 5.3 | 5.8 | 6.6 | 7.9 | 43,818 |
| Seizures during labor | 3,952,767 | 1,683 | 0.4 | 0.8 | 0.5 | 0.4 | 0.3 | 0.4 | 0.5 | 43,818 |
| Precipitous labor | 3,952,767 | 74,169 | 19.0 | 14.0 | 17.9 | 19.1 | 21.2 | 22.4 | 22.1 | 43,818 |
| Prolonged labor | 3,952,767 | 35,343 | 9.0 | 10.0 | 9.3 | 9.0 | 8.4 | 8.6 | 9.7 | 43,818 |
| Dysfunctional labor | 3,952,767 | 116,670 | 29.8 | 28.1 | 29.1 | 30.7 | 29.9 | 30.8 | 34.2 | 43,818 |
| Breech/Malpresentation | 3,952,767 | 146,283 | 37.4 | 29.6 | 32.3 | 38.0 | 41.9 | 47.0 | 53.0 | 43,818 |
| Cephalopelvic disproportion | 3,952,767 | 99,747 | 25.5 | 22.7 | 24.3 | 27.2 | 26.3 | 25.7 | 27.4 | 43,818 |
| Cord prolapse | 3,952,767 | 9,454 | 2.4 | 2.0 | 2.2 | 2.4 | 2.5 | 3.0 | 3.4 | 43,818 |
| Anesthetic complication ${ }^{3}$ | 3,631,653 | 2,185 | 0.6 | 0.4 | 0.5 | 0.6 | 0.7 | 0.7 | 0.8 | 45,754 |
| Fetal distress 3 ............... | 3,631,653 | 147,886 | 41.2 | 46.5 | 41.3 | 39.2 | 39.2 | 43.0 | 51.5 | 45,754 |
| White |  |  |  |  |  |  |  |  |  |  |
| Febrile | 3,121,004 | 44,802 | 14.5 | 17.6 | 15.5 | 14.5 | 13.1 | 12.1 | 13.5 | 34,848 |
| Meconium, moderate/heavy | 3,121,004 | 162,145 | 52.5 | 54.5 | 53.4 | 51.0 | 51.5 | 54.4 | 57.8 | 34,848 |
| Premature rupture of membrane | 3,121,004 | 92,975 | 30.1 | 29.1 | 28.2 | 29.6 | 30.7 | 34.5 | 39.3 | 34,848 |
| Abruptio placenta | 3,121,004 | 17,430 | 5.6 | 5.5 | 5.4 | 5.4 | 5.7 | 6.9 | 7.5 | 34,848 |
| Placenta previa | 3,121,004 | 10,260 | 3.3 | 1.1 | 2.0 | 3.0 | 4.5 | 6.2 | 8.1 | 34,848 |
| Other excessive bleeding | 3,121,004 | 17,425 | 5.6 | 5.6 | 5.4 | 5.4 | 5.7 | 6.6 | 7.7 | 34,848 |
| Seizures during labor | 3,121,004 | 1,055 | 0.3 | 0.7 | 0.4 | 0.3 | 0.2 | 0.3 | 0.5 | 34,848 |
| Precipitous labor | 3,121,004 | 56,257 | 18.2 | 12.5 | 16.5 | 18.2 | 20.8 | 22.2 | 21.8 | 34,848 |
| Prolonged labor | 3,121,004 | 28,499 | 9.2 | 10.6 | 9.7 | 9.2 | 8.4 | 8.7 | 10.2 | 34,848 |
| Dysfunctional labor | 3,121,004 | 95,203 | 30.8 | 29.6 | 30.6 | 31.6 | 30.4 | 31.2 | 35.8 | 34,848 |
| Breech/Malpresentation | 3,121,004 | 121,267 | 39.3 | 32.8 | 34.4 | 39.5 | 42.8 | 47.5 | 53.2 | 34,848 |
| Cephalopelvic disproportion | 3,121,004 | 81,209 | 26.3 | 22.9 | 25.5 | 28.1 | 26.6 | 25.9 | 27.7 | 34,848 |
| Cord prolapse ........... | 3,121,004 | 7,351 | 2.4 | 2.0 | 2.2 | 2.4 | 2.5 | 2.9 | 3.3 | 34,848 |
| Anesthetic complication ${ }^{3}$ | 2,848,696 | 1,738 | 0.6 | 0.4 | 0.5 | 0.6 | 0.7 | 0.7 | 0.9 | 36,492 |
| Fetal distress 3 ................................... | 2,848,696 | 110,700 | 39.4 | 44.0 | 40.2 | 37.8 | 37.1 | 40.9 | 49.2 | 36,492 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Febrile | 636,391 | 11,898 | 18.9 | 23.5 | 19.3 | 17.0 | 16.4 | 14.0 | 15.1 | 6,770 |
| Meconium, moderate/heavy ................. | 636,391 | 50,721 | 80.6 | 79.1 | 77.3 | 81.5 | 84.7 | 86.9 | 87.3 | 6,770 |
| Premature rupture of membrane ........... | 636,391 | 22,346 | 35.5 | 33.4 | 33.5 | 35.3 | 39.2 | 43.1 | 42.8 | 6,770 |
| Abruptio placenta | 636,391 | 4,314 | 6.9 | 6.1 | 6.2 | 6.7 | 8.3 | 9.0 | 8.3 | 6,770 |
| Placenta previa | 636,391 | 2,088 | 3.3 | 1.2 | 2.3 | 3.6 | 5.8 | 7.4 | 9.4 | 6,770 |
| Other excessive bleeding | 636,391 | 2,246 | 3.6 | 3.3 | 3.1 | 3.4 | 4.1 | 5.2 | 6.0 | 6,770 |
| Seizures during labor ........................... | 636,391 | 393 | 0.6 | 1.0 | 0.7 | 0.4 | 0.4 | 0.6 | * | 6,770 |
| Precipitous labor | 636,391 | 13,207 | 21.0 | 16.6 | 21.4 | 22.9 | 23.4 | 22.3 | 19.8 | 6,770 |
| Prolonged labor | 636,391 | 4,365 | 6.9 | 7.8 | 6.7 | 6.7 | 6.7 | 6.3 | 6.7 | 6,770 |
| Dysfunctional labor | 636,391 | 16,054 | 25.5 | 24.4 | 24.3 | 26.1 | 27.2 | 28.8 | 26.8 | 6,770 |
| Breech/Malpresentation | 636,391 | 18,157 | 28.8 | 22.0 | 24.6 | 30.4 | 37.3 | 44.1 | 48.9 | 6,770 |
| Cephalopelvic disproportion ................. | 636,391 | 13,335 | 21.2 | 22.5 | 19.7 | 21.7 | 22.1 | 19.8 | 18.6 | 6,770 |
| Cord prolapse | 636,391 | 1,702 | 2.7 | 1.9 | 2.5 | 2.9 | 3.3 | 3.9 | 4.6 | 6,770 |
| Anesthetic complication 3 ..................... | 596,115 | 341 | 0.6 | 0.4 | 0.5 | 0.6 | 0.8 | 0.9 | * | 7,045 |
| Fetal distress ${ }^{3}$ | 596,115 | 30,925 | 52.5 | 53.2 | 47.7 | 51.0 | 57.6 | 61.6 | 71.8 | 7,045 |

[^33]Table 38. Live births by attendant, place of delivery, and race of mother: United States, 1994

| Place of delivery and race of mother | All births | Physician |  |  | Midwife |  |  | Other | Unspecified |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Doctor of medicine | Doctor of osteopathy | Total | Certified nurse midwife | Other midwife |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Total .................................... | 3,952,767 | 3,707,606 | 3,569,518 | 138,088 | 218,466 | 205,049 | 13,417 | 24,173 | 2,522 |
| In hospital ${ }^{2}$........................... | 3,912,195 | 3,700,399 | 3,563,502 | 136,897 | 196,977 | 195,410 | 1,567 | 13,283 | 1,536 |
| Not in hospital ........................ | 40,119 | 6,979 | 5,794 | 1,185 | 21,476 | 9,630 | 11,846 | 10,856 | 808 |
| Freestanding birthing center .. | 11,787 | 1,813 | 1,200 | 613 | 9,765 | 6,686 | 3,079 | 201 | 8 |
| Clinic or doctor's office ......... | 923 | 376 | 303 | 73 | 316 | 139 | 177 | 208 | 23 |
| Residence ........................... | 24,694 | 3,924 | 3,473 | 451 | 11,033 | 2,591 | 8,442 | 9,073 | 664 |
| Other .................................. | 2,715 | 866 | 818 | 48 | 362 | 214 | 148 | 1,374 | 113 |
| Not specified ......................... | 453 | 228 | 222 | 6 | 13 | 9 | 4 | 34 | 178 |
| White |  |  |  |  |  |  |  |  |  |
| Total ..................................... | 3,121,004 | 2,932,993 | 2,815,091 | 117,902 | 168,056 | 155,279 | 12,777 | 18,033 | 1,922 |
| In hospital ${ }^{2}$ | 3,086,394 | 2,928,009 | 2,811,209 | 116,800 | 147,521 | 146,279 | 1,242 | 9,710 | 1,154 |
| Not in hospital ........................ | 34,229 | 4,792 | 3,695 | 1,097 | 20,523 | 8,992 | 11,531 | 8,303 | 611 |
| Freestanding birthing center .. | 11,194 | 1,699 | 1,091 | 608 | 9,303 | 6,286 | 3,017 | 187 | 5 |
| Clinic or doctor's office ......... | 726 | 296 | 228 | 68 | 287 | 119 | 168 | 126 | 17 |
| Residence | 20,556 | 2,375 | 1,988 | 387 | 10,601 | 2,398 | 8,203 | 7,068 | 512 |
| Other .................................. | 1,753 | 422 | 388 | 34 | 332 | 189 | 143 | 922 | 77 |
| Not specified ......................... | 381 | 192 | 187 | 5 | 12 | 8 | 4 | 20 | 157 |
| Black |  |  |  |  |  |  |  |  |  |
| Total ..................................... | 636,391 | 595,609 | 579,677 | 15,932 | 35,768 | 35,396 | 372 | 4,565 | 449 |
| In hospital ${ }^{2}$........................... | 631,725 | 593,665 | 577,804 | 15,861 | 35,217 | 34,967 | 250 | 2,530 | 313 |
| Not in hospital ........................ | 4,599 | 1,910 | 1,840 | 70 | 550 | 428 | 122 | 2,022 | 117 |
| Freestanding birthing center .. | 388 | 77 | 76 | 1 | 301 | 269 | 32 | 7 | 3 |
| Clinic or doctor's office .......... | 134 | 51 | 48 | 3 | 16 | 15 | 1 | 61 | 6 |
| Residence | 3,291 | 1,396 | 1,340 | 56 | 212 | 125 | 87 | 1,602 | 81 |
| Other .................................. | 786 | 386 | 376 | 10 | 21 | 19 | 2 | 352 | 27 |
| Not specified ......................... | 67 | 34 | 33 | 1 | 1 | 1 | - | 13 | 19 |

[^34]Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race of mother: United States, 1989-1994

| Year and race of mother | Births by method of delivery |  |  |  |  |  |  | Cesarean delivery rate |  | Rate of vaginal birth after previous cesarean ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Vaginal |  | Cesarean |  |  | Not stated | Total ${ }^{1}$ | Primary ${ }^{2}$ |  |
|  | All births | Total | After previous cesarean | Total | Primary | Repeat |  |  |  |  |


| All races 4 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| 19905 | 4,110,563 | 3,111,421 | 84,299 | 914,096 | 575,066 | 339,030 | 85,046 | 22.7 | 16.0 | 19.9 |
| 19896 | 3,798,734 | 2,793,463 | 71,019 | 826,955 | 521,873 | 305,082 | 178,316 | 22.8 | 16.1 | 18.9 |
| White |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 19905 | 3,252,473 | 2,453,857 | 67,191 | 732,713 | 458,656 | 274,057 | 65,903 | 23.0 | 16.1 | 19.7 |
| 19896 | 3,022,537 | 2,212,843 | 56,851 | 667,114 | 418,177 | 248,937 | 142,580 | 22.8 | 16.1 | 18.9 |
| Black |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 19896 ......................... | 611,147 | 452,291 | 11,104 | 127,907 | 82,695 | 45,212 | 30,319 | 22.0 | 15.8 | 19.7 |

[^35]Table 40. Live births by method of delivery, and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by age and race of mother: United States, 1994

| Age and race 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 | 3,952,767 | 3,087,576 | 110,341 | 830,517 | 520,647 | 309,870 | 34,674 | 21.2 | 14.9 | 26.3 |
| Under 20 years .............. | 518,389 | 437,183 | 4,134 | 77,194 | 68,070 | 9,124 | 4,012 | 15.0 | 13.6 | 31.2 |
| 20-24 years ................... | 1,001,418 | 811,377 | 22,419 | 181,680 | 125,077 | 56,603 | 8,361 | 18.3 | 13.7 | 28.4 |
| 25-29 years ................... | 1,088,845 | 847,290 | 32,994 | 231,809 | 141,917 | 89,892 | 9,746 | 21.5 | 14.8 | 26.8 |
| 30-34 years ................... | 906,498 | 680,678 | 34,379 | 217,469 | 118,532 | 98,937 | 8,351 | 24.2 | 15.5 | 25.8 |
| 35-39 years ................... | 371,608 | 266,276 | 14,304 | 101,796 | 54,812 | 46,984 | 3,536 | 27.7 | 17.9 | 23.3 |
| 40-49 years ................... | 66,009 | 44,772 | 2,111 | 20,569 | 12,239 | 8,330 | 668 | 31.5 | 22.3 | 20.2 |
| White | 3,121,004 | 2,435,965 | 88,471 | 656,400 | 407,946 | 248,454 | 28,639 | 21.2 | 14.8 | 26.3 |
| Under 20 years .............. | 354,059 | 299,439 | 2,441 | 51,740 | 46,242 | 5,498 | 2,880 | 14.7 | 13.5 | 30.7 |
| 20-24 years | 764,085 | 618,917 | 16,263 | 138,477 | 96,523 | 41,954 | 6,691 | 18.3 | 13.8 | 27.9 |
| 25-29 years ................... | 889,581 | 692,748 | 26,853 | 188,617 | 115,537 | 73,080 | 8,216 | 21.4 | 14.8 | 26.9 |
| 30-34 years | 754,871 | 568,610 | 29,030 | 179,003 | 96,429 | 82,574 | 7,258 | 23.9 | 15.2 | 26.0 |
| 35-39 years ................... | 305,291 | 220,088 | 12,140 | 82,187 | 43,561 | 38,626 | 3,016 | 27.2 | 17.3 | 23.9 |
| 40-49 years ................... | 53,117 | 36,163 | 1,744 | 16,376 | 9,654 | 6,722 | 578 | 31.2 | 21.9 | 20.6 |
| Black ............................ | 636,391 | 493,879 | 16,970 | 138,067 | 88,636 | 49,431 | 4,445 | 21.8 | 15.7 | 25.6 |
| Under 20 years .............. | 147,433 | 122,944 | 1,577 | 23,560 | 20,137 | 3,423 | 929 | 16.1 | 14.2 | 31.5 |
| 20-24 years ................... | 197,841 | 158,536 | 5,407 | 37,987 | 24,667 | 13,320 | 1,318 | 19.3 | 13.9 | 28.9 |
| 25-29 years ................... | 142,355 | 107,845 | 4,790 | 33,472 | 19,534 | 13,938 | 1,038 | 23.7 | 15.9 | 25.6 |
| 30-34 years ................... | 99,155 | 70,948 | 3,670 | 27,473 | 15,231 | 12,242 | 734 | 27.9 | 18.5 | 23.1 |
| 35-39 years ................... | 42,029 | 28,676 | 1,315 | 12,989 | 7,458 | 5,531 | 364 | 31.2 | 21.4 | 19.2 |
| 40-49 years ................... | 7,578 | 4,930 | 211 | 2,586 | 1,609 | 977 | 62 | 34.4 | 25.4 | 17.8 |

1 Percent of all live births by cesarean delivery.
${ }_{3}$ 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.
4 Includes races other than white and black.

Table 41. Rates of cesarean delivery and vaginal birth after previous cesarean delivery, by selected maternal medical risk factors, complications of labor and/or delivery, and obstetric procedures: United States, 1994

| Medical risk factor, complication, | All births to mothers <br> and obstetric procedure specified | withere <br> andition and/or <br> procedure |
| :---: | :---: | :---: |


| Medical risk factors |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Anemia | 78,173 | 23.2 | 16.5 | 29.2 |
| Cardiac disease | 17,603 | 24.5 | 17.7 | 27.2 |
| Acute or chronic lung disease | 22,105 | 25.7 | 18.5 | 27.7 |
| Diabetes | 99,492 | 35.4 | 25.5 | 19.2 |
| Genital herpes 4 | 29,531 | 38.4 | 32.7 | 30.0 |
| Hydramnios/Oligohydramnios | 39,850 | 38.8 | 33.5 | 23.3 |
| Hemoglobinopathy | 2,513 | 24.2 | 18.5 | 31.9 |
| Hypertension, chronic | 26,567 | 39.6 | 30.8 | 18.3 |
| Hypertension, pregnancy-associated | 125,683 | 37.4 | 32.7 | 19.5 |
| Eclampsia | 13,463 | 49.5 | 45.6 | 16.2 |
| Incompetent cervix | 8,925 | 30.4 | 23.0 | 26.8 |
| Renal disease | 10,126 | 26.1 | 19.0 | 24.6 |
| Rh sensitization 5 | 25,301 | 21.6 | 15.1 | 31.1 |
| Uterine bleeding 4 ........................................... | 28,236 | 31.1 | 24.2 | 24.8 |
| Complications of labor and/or delivery |  |  |  |  |
| Febrile ............................................................ | 60,564 | 31.4 | 29.4 | 47.2 |
| Meconium, moderate/heavy | 224,160 | 21.2 | 18.3 | 45.7 |
| Premature rupture of membrane | 121,549 | 26.0 | 22.9 | 38.8 |
| Abruptio placenta | 22,721 | 57.9 | 53.4 | 16.8 |
| Placenta previa | 13,231 | 82.8 | 78.8 | 3.9 |
| Other excessive bleeding | 21,678 | 28.3 | 22.3 | 31.8 |
| Seizures during labor ........................................ | 1,683 | 44.1 | 41.2 | 25.2 |
| Precipitous labor (less than 3 hours) | 74,169 | 1.7 | 1.2 | 87.0 |
| Prolonged labor (more than 20 hours) | 35,343 | 36.9 | 35.5 | 45.3 |
| Dysfunctional labor | 116,670 | 65.2 | 62.8 | 16.8 |
| Breech/Malpresentation | 146,283 | 85.5 | 83.9 | 4.8 |
| Cephalopelvic disproportion | 99,747 | 97.4 | 97.1 | 1.2 |
| Cord prolapse | 9,454 | 61.8 | 59.1 | 16.0 |
| Anesthetic complication 6 ................................... | 2,185 | 45.0 | 35.6 | 19.0 |
| Fetal distress ${ }^{6}$. | 147,886 | 56.5 | 53.9 | 21.4 |
| Obstetric procedures |  |  |  |  |
| Amniocentesis | 123,188 | 33.1 | 23.1 | 21.2 |
| Electronic fetal monitoring .................................. | 3,146,757 | 20.6 | 14.9 | 30.0 |
| Induction of labor ............................................. | 574,905 | 18.4 | 16.5 | 56.1 |
| Stimulation of labor | 594,063 | 14.5 | 12.9 | 62.8 |
| Tocolysis | 66,628 | 28.4 | 23.0 | 27.4 |
| Ultrasound ....................................................... | 2,396,461 | 23.0 | 16.2 | 26.1 |

[^36]Table 42. Live births by birthweight and percent very low and low birthweight, by period of gestation and race of mother: United States, 1994

| Birthweight 1 and race of mother | All births | Period of gestation 2 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Preterm |  |  |  |  | Term |  |  |  | Postterm | Not stated |
|  |  | Total under 37 weeks | Under 28 <br> weeks | $\begin{aligned} & 28-31 \\ & \text { weeks } \end{aligned}$ | $\begin{aligned} & 32-35 \\ & \text { weeks } \end{aligned}$ | 36 weeks | Total 37-41 <br> weeks | $\begin{aligned} & 37-39 \\ & \text { weeks } \end{aligned}$ | 40 weeks | 41 weeks | 42 weeks <br> and over |  |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| All races 3 | 3,952,767 | 431,613 | 28,126 | 46,815 | 203,052 | 153,620 | 3,130,482 | 1,731,367 | 887,144 | 511,971 | 355,585 | 35,087 |
| Less than 500 grams ........ | 5,550 | 5,379 | 5,126 | 230 | 23 | - | 6 | 2 | 4 | - | 3 | 162 |
| 500-999 grams ................ | 20,708 | 20,061 | 15,059 | 4,358 | 611 | 33 | 189 | 127 | 38 | 24 | 18 | 440 |
| 1,000-1,499 grams ........... | 26,373 | 24,325 | 3,932 | 13,665 | 6,126 | 602 | 1,428 | 1,059 | 262 | 107 | 225 | 395 |
| 1,500-1,999 grams ........... | 55,158 | 44,517 | 1,157 | 10,841 | 27,877 | 4,642 | 9,053 | 7,419 | 1,064 | 570 | 912 | 676 |
| 2,000-2,499 grams ........... | 179,818 | 88,159 | 845 | 4,644 | 56,043 | 26,627 | 83,448 | 66,659 | 11,375 | 5,414 | 6,319 | 1,892 |
| 2,500-2,999 grams ........... | 647,165 | 113,658 | 1,314 | 4,782 | 51,537 | 56,025 | 487,127 | 347,135 | 95,283 | 44,709 | 40,556 | 5,824 |
| 3,000-3,499 grams ........... | 1,453,730 | 88,357 | - | 5,483 | 38,466 | 44,408 | 1,225,876 | 718,304 | 333,388 | 174,184 | 127,569 | 11,928 |
| 3,500-3,999 grams ........... | 1,147,438 | 36,924 |  | 2,683 | 17,487 | 16,754 | 976,560 | 458,462 | 322,350 | 195,748 | 125,121 | 8,833 |
| 4,000-4,499 grams ........... | 347,048 | 7,699 |  | - | 3,980 | 3,719 | 291,712 | 112,267 | 104,305 | 75,140 | 44,948 | 2,689 |
| 4,500-4,999 grams .......... | 58,443 | 1,184 |  |  | 575 | 609 | 48,091 | 16,881 | 16,931 | 14,279 | 8,685 | 483 |
| 5,000 grams or more ........ | 6,782 | 187 | - | - | 95 | 92 | 5,464 | 2,182 | 1,755 | 1,527 | 1,040 | 91 |
| Not stated ....................... | 4,554 | 1,163 | 693 | 129 | 232 | 109 | 1,528 | 870 | 389 | 269 | 189 | 1,674 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight Low birthweight 5 | 1.3 | 11.6 | 87.9 | 39.1 | 3.3 | 0.4 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 3.0 |
|  | 7.3 | 42.4 | 95.2 | 72.3 | 44.7 | 20.8 | 3.0 | 4.3 | 1.4 | 1.2 | 2.1 | 10.7 |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| White ............................. | 3,121,004 | 297,471 | 15,651 | 29,210 | 139,575 | 113,035 | 2,510,633 | 1,360,675 | 724,711 | 425,247 | 286,629 | 26,271 |
| Less than 500 grams ........ | 2,921 | 2,825 | 2,683 | 128 | 14 | - | 5 | 2 | 3 | - | 1 | 90 |
| 500-999 grams ............... | 12,188 | 11,773 | 8,599 | 2,741 | 415 | 18 | 130 | 87 | 23 | 20 | 13 | 272 |
| 1,000-1,499 grams ........... | 16,818 | 15,512 | 2,311 | 8,722 | 4,066 | 413 | 906 | 664 | 174 | 68 | 140 | 260 |
| 1,500-1,999 grams ........... | 36,569 | 29,543 | 588 | 7,106 | 18,709 | 3,140 | 6,007 | 4,971 | 681 | 355 | 579 | 440 |
| 2,000-2,499 grams ........... | 121,892 | 60,310 | 390 | 2,647 | 38,923 | 18,350 | 56,184 | 45,058 | 7,537 | 3,589 | 4,175 | 1,223 |
| 2,500-2,999 grams ........... | 458,341 | 79,501 | 687 | 2,576 | 35,304 | 40,934 | 346,423 | 246,596 | 67,816 | 32,011 | 28,469 | 3,948 |
| 3,000-3,499 grams ........... | 1,134,177 | 62,652 |  | 3,368 | 25,724 | 33,560 | 963,454 | 561,367 | 263,097 | 138,990 | 99,108 | 8,963 |
| 3,500-3,999 grams ........... | 970,739 | 27,601 |  | 1,847 | 12,727 | 13,027 | 830,242 | 386,490 | 275,437 | 168,315 | 105,621 | 7,275 |
| 4,000-4,499 grams ........... | 306,408 | 6,003 | - | - | 3,034 | 2,969 | 258,427 | 98,169 | 92,905 | 67,353 | 39,680 | 2,298 |
| 4,500-4,999 grams ........... | 52,078 | 923 |  |  | 445 | 478 | 42,955 | 14,796 | 15,204 | 12,955 | 7,772 | 428 |
| 5,000 grams or more ........ | 5,900 | 140 | - | - | 70 | 70 | 4,742 | 1,839 | 1,531 | 1,372 | 939 | 79 |
| Not stated ...................... | 2,973 | 688 | 393 | 75 | 144 | 76 | 1,158 | 636 | 303 | 219 | 132 | 995 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... <br> Low birthweight 5 | 1.0 | 10.1 | 89.1 | 39.8 | 3.2 | 0.4 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 2.5 |
|  | 6.1 | 40.4 | 95.5 | 73.3 | 44.6 | 19.4 | 2.5 | 3.7 | 1.2 | 0.9 | 1.7 | 9.0 |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| Black ............................. | 636,391 | 113,999 | 11,577 | 15,710 | 53,745 | 32,967 | 463,742 | 278,093 | 120,658 | 64,991 | 53,509 | 5,141 |
| Less than 500 grams ........ | 2,478 | 2,411 | 2,309 | 93 | 9 | - | 1 | ${ }^{-}$ | 1 |  | 2 | 64 |
| 500-999 grams ................ | 7,808 | 7,623 | 5,974 | 1,465 | 171 | 13 | 51 | 36 | 12 | 3 | 4 | 130 |
| 1,000-1,499 grams ........... | 8,544 | 7,891 | 1,484 | 4,447 | 1,799 | 161 | 469 | 352 | 80 | 37 | 78 | 106 |
| 1,500-1,999 grams .......... | 16,244 | 13,140 | 532 | 3,340 | 8,006 | 1,262 | 2,624 | 2,102 | 341 | 181 | 297 | 183 |
| 2,000-2,499 grams ........... | 49,021 | 23,977 | 423 | 1,818 | 14,810 | 6,926 | 22,677 | 17,896 | 3,220 | 1,561 | 1,875 | 492 |
| 2,500-2,999 grams ........... | 149,556 | 28,562 | 577 | 1,960 | 13,702 | 12,323 | 109,856 | 78,092 | 21,619 | 10,145 | 9,949 | 1,189 |
| 3,000-3,499 grams ........... | 239,892 | 21,074 | - | 1,840 | 10,560 | 8,674 | 194,875 | 116,056 | 52,230 | 26,589 | 22,319 | 1,624 |
| 3,500-3,999 grams ........... | 128,187 | 7,407 | - | 708 | 3,787 | 2,912 | 105,507 | 51,747 | 33,779 | 19,981 | 14,493 | 780 |
| 4,000-4,499 grams ........... | 28,638 | 1,300 | - | - | 741 | 559 | 23,373 | 9,971 | 7,953 | 5,449 | 3,785 | 180 |
| 4,500-4,999 grams ........... | 4,367 | 188 | - | - | 88 | 100 | 3,542 | 1,432 | 1,202 | 908 | 615 | 22 |
| 5,000 grams or more ........ | 621 | 37 | - | - | 19 | 18 | 517 | 254 | 161 | 102 | 56 | 11 |
| Not stated ....................... | 1,035 | 389 | 278 | 39 | 53 | 19 | 250 | 155 | 60 | 35 | 36 | 360 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... | 3.0 | 15.8 | 86.4 | 38.3 | 3.7 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 6.3 |
| Low birthweight 5 ........... | 13.2 | 48.4 | 94.9 | 71.2 | 46.2 | 25.4 | 5.6 | 7.3 | 3.0 | 2.7 | 4.2 | 20.4 |

[^37]
Table 43. Percent of live births preterm and percent of live births of low birthweight, by race of mother: United States, 1981-94

| Year | Preterm ${ }^{1}$ |  |  | Low birthweight ${ }^{3}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All races ${ }^{2}$ | White | Black | All races ${ }^{2}$ | White | Black |
| 1994 | 11.0 | 9.6 | 18.1 | 7.3 | 6.1 | 13.2 |
| 1993 | 11.0 | 9.5 | 18.5 | 7.2 | 6.0 | 13.3 |
| 1992 | 10.7 | 9.1 | 18.4 | 7.1 | 5.8 | 13.3 |
| 1991 | 10.8 | 9.1 | 18.9 | 7.1 | 5.8 | 13.6 |
| 1990 | 10.6 | 8.9 | 18.8 | 7.0 | 5.7 | 13.3 |
| 1989 | 10.6 | 8.8 | 18.9 | 7.0 | 5.7 | 13.5 |
| 1988 | 10.2 | 8.5 | 18.7 | 6.9 | 5.7 | 13.3 |
| 1987 | 10.2 | 8.5 | 18.4 | 6.9 | 5.7 | 13.0 |
| 1986 | 10.0 | 8.4 | 18.0 | 6.8 | 5.7 | 12.8 |
| 1985 | 9.8 | 8.2 | 17.8 | 6.8 | 5.7 | 12.6 |
| 19844 | 9.4 | 7.9 | 17.1 | 6.7 | 5.6 | 12.6 |
| 19834 | 9.6 | 8.0 | 17.7 | 6.8 | 5.7 | 12.8 |
| 19824 | 9.5 | 8.0 | 17.4 | 6.8 | 5.6 | 12.6 |
| 19814 | 9.4 | 7.9 | 17.3 | 6.8 | 5.7 | 12.7 |

[^38]Table 44. Number and percent low birthweight and number of live births by birthweight, by age and race of mother: United States, 1994

| Age and race of mother | Low birthweight 1 |  | Birthweight 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Total | Less than 500 grams | $\begin{gathered} 500- \\ 999 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 1,000- \\ 1,499 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 1,500- \\ \text { 1,999 } \\ \text { grams } \end{gathered}$ | $\begin{aligned} & 2,000- \\ & 2,499 \\ & \text { grams } \end{aligned}$ | $\begin{gathered} 2,500- \\ 2,999 \\ \text { grams } \end{gathered}$ | $\begin{aligned} & 3,000- \\ & 3,499 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 3,500- \\ & 3,999 \\ & \text { grams } \end{aligned}$ | $\begin{gathered} 4,000 \\ 4,499 \end{gathered}$ grams | $\begin{aligned} & 4,500- \\ & 4,999 \\ & \text { grams } \end{aligned}$ | 5,000grams ormore | Not stated |
| All races ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All ages ..................... | 287,607 | 7.3 | 3,952,767 | 5,550 | 20,708 | 26,373 | 55,158 | 179,818 | 647,165 | 1,453,730 | 1,147,438 | 347,048 | 58,443 | 6,782 | 4,554 |
| Under 15 years .......... | 1,766 | 13.7 | 12,901 | 43 | 200 | 201 | 349 | 973 | 3,297 | 4,968 | 2,388 | 423 | 43 | 1 | 15 |
| 15-19 years ............... | 47,091 | 9.3 | 505,488 | 855 | 3,548 | 4,408 | 8,858 | 29,422 | 106,949 | 201,558 | 119,027 | 26,428 | 3,499 | 315 | 621 |
| 15 years .................. | 3,527 | 11.5 | 30,742 | 59 | 329 | 383 | 693 | 2,063 | 7,282 | 12,337 | 6,244 | 1,180 | 115 | 7 | 50 |
| 16 years .................. | 6,502 | 10.3 | 63,125 | 151 | 536 | 637 | 1,232 | 3,946 | 14,307 | 25,388 | 13,706 | 2,787 | 338 | 30 | 67 |
| 17 years .................. | 9,685 | 9.6 | 101,302 | 180 | 739 | 920 | 1,803 | 6,043 | 22,036 | 40,792 | 23,176 | 4,854 | 577 | 48 | 134 |
| 18 years .................. | 12,526 | 9.1 | 137,547 | 212 | 890 | 1,129 | 2,345 | 7,950 | 28,831 | 54,588 | 32,840 | 7,479 | 1,010 | 106 | 167 |
| 19 years .................. | 14,851 | 8.6 | 172,772 | 253 | 1,054 | 1,339 | 2,785 | 9,420 | 34,493 | 68,453 | 43,061 | 10,128 | 1,459 | 124 | 203 |
| 20-24 years ................ | 72,565 | 7.3 | 1,001,418 | 1,449 | 5,289 | 6,171 | 13,287 | 46,369 | 178,254 | 385,510 | 276,138 | 75,312 | 11,328 | 1,232 | 1,079 |
| 25-29 years ............... | 69,850 | 6.4 | 1,088,845 | 1,416 | 4,879 | 6,228 | 13,273 | 44,054 | 164,488 | 396,897 | 333,653 | 103,445 | 17,414 | 1,918 | 1,180 |
| 30-34 years ................ | 60,645 | 6.7 | 906,498 | 1,154 | 4,214 | 5,703 | 11,965 | 37,609 | 129,308 | 316,700 | 284,504 | 95,106 | 17,105 | 2,080 | 1,050 |
| 35-39 years ................ | 29,447 | 7.9 | 371,608 | 525 | 2,097 | 2,968 | 6,071 | 17,786 | 54,516 | 126,254 | 112,675 | 39,477 | 7,674 | 1,044 | 521 |
| 40-44 years ................ | 5,922 | 9.3 | 63,502 | 107 | 457 | 651 | 1,282 | 3,425 | 9,910 | 21,053 | 18,411 | 6,615 | 1,324 | 185 | 82 |
| 45-49 years ................ | 321 | 12.8 | 2,507 | 1 | 24 | 43 | 73 | 180 | 443 | 790 | 642 | 242 | 56 | 7 | 6 |
| White |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All ages .................... | 190,388 | 6.1 | 3,121,004 | 2,921 | 12,188 | 16,818 | 36,569 | 121,892 | 458,341 | 1,134,177 | 970,739 | 306,408 | 52,078 | 5,900 | 2,973 |
| Under 15 years .......... | 661 | 11.1 | 5,978 | 15 | 67 | 79 | 151 | 349 | 1,312 | 2,345 | 1,358 | 269 | 29 | 1 | 3 |
| 15-19 years ................ | 27,314 | 7.9 | 348,081 | 378 | 1,888 | 2,477 | 5,116 | 17,455 | 66,113 | 138,952 | 90,789 | 21,408 | 2,912 | 251 | 342 |
| 15 years .................. | 1,638 | 9.4 | 17,443 | 19 | 144 | 176 | 333 | 966 | 3,615 | 7,092 | 4,128 | 857 | 85 | 5 | 23 |
| 16 years .................. | 3,538 | 8.8 | 40,198 | 66 | 274 | 345 | 678 | 2,175 | 8,100 | 16,296 | 9,821 | 2,120 | 270 | 23 | 30 |
| 17 years .................. | 5,519 | 8.0 | 68,747 | 82 | 397 | 495 | 1,032 | 3,513 | 13,385 | 27,767 | 17,635 | 3,866 | 461 | 38 | 76 |
| 18 years .................. | 7,460 | 7.7 | 96,605 | 96 | 486 | 657 | 1,390 | 4,831 | 18,344 | 38,373 | 25,279 | 6,108 | 856 | 87 | 98 |
| 19 years .................. | 9,159 | 7.3 | 125,088 | 115 | 587 | 804 | 1,683 | 5,970 | 22,669 | 49,424 | 33,926 | 8,457 | 1,240 | 98 | 115 |
| 20-24 years ............... | 46,080 | 6.0 | 764,085 | 663 | 2,943 | 3,704 | 8,277 | 30,493 | 122,829 | 292,114 | 226,755 | 64,768 | 9,873 | 1,030 | 636 |
| 25-29 years ............... | 48,265 | 5.4 | 889,581 | 784 | 2,945 | 4,129 | 9,230 | 31,177 | 121,516 | 320,462 | 288,686 | 92,490 | 15,647 | 1,703 | 812 |
| 30-34 years ................ | 42,968 | 5.7 | 754,871 | 694 | 2,693 | 3,917 | 8,568 | 27,096 | 98,025 | 260,558 | 249,265 | 85,966 | 15,514 | 1,841 | 734 |
| 35-39 years ............... | 20,727 | 6.8 | 305,291 | 320 | 1,336 | 2,038 | 4,244 | 12,789 | 40,880 | 102,393 | 97,697 | 35,428 | 6,880 | 908 | 378 |
| 40-44 years ................ | 4,141 | 8.1 | 51,192 | 67 | 300 | 447 | 927 | 2,400 | 7,338 | 16,759 | 15,674 | 5,881 | 1,175 | 160 | 64 |
| 45-49 years ............... | 232 | 12.1 | 1,925 | 0 | 16 | 27 | 56 | 133 | 328 | 594 | 515 | 198 | 48 | 6 | 4 |

See footnotes at end of table.

Table 44. Number and percent low birthweight and number of live births by birthweight, by age and race of mother: United States, 1994--Con.

| Age and race of mother | Low birthweight 1 |  | Birthweight 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Total | Less than 500 grams | $\begin{gathered} 500- \\ 999 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 1,000- \\ 1,499 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 1,500- \\ 1,999 \\ \text { grams } \end{gathered}$ | $\begin{aligned} & 2,000- \\ & 2,499 \\ & \text { grams } \end{aligned}$ | $\begin{gathered} 2,500- \\ 2,999 \\ \text { grams } \end{gathered}$ | $\begin{aligned} & 3,000- \\ & 3,499 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 3,500- \\ & 3,999 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 4,000- \\ & 4,499 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 4,500- \\ & 4,999 \\ & \text { grams } \end{aligned}$ | 5,000grams ormore | Not stated |
| Black |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All ages ..................... | 84,095 | 13.2 | 636,391 | 2,478 | 7,808 | 8,544 | 16,244 | 49,021 | 149,556 | 239,892 | 128,187 | 28,638 | 4,367 | 621 | 1,035 |
| Under 15 years .......... | 1,051 | 16.3 | 6,465 | 28 | 126 | 114 | 184 | 599 | 1,866 | 2,449 | 945 | 134 | 12 | 0 | 8 |
| 15-19 years ............... | 18,468 | 13.1 | 140,968 | 458 | 1,588 | 1,804 | 3,500 | 11,118 | 37,153 | 56,063 | 24,424 | 4,139 | 450 | 53 | 218 |
| 15 years .................. | 1,793 | 14.6 | 12,297 | 40 | 182 | 190 | 341 | 1,040 | 3,427 | 4,850 | 1,910 | 272 | 25 | 2 | 18 |
| 16 years .................. | 2,777 | 13.3 | 20,853 | 80 | 250 | 270 | 522 | 1,655 | 5,736 | 8,268 | 3,423 | 561 | 53 | 6 | 29 |
| 17 years .................. | 3,917 | 13.3 | 29,413 | 92 | 325 | 404 | 725 | 2,371 | 7,951 | 11,726 | 4,853 | 834 | 81 | 8 | 43 |
| 18 years .................. | 4,733 | 13.0 | 36,489 | 111 | 389 | 442 | 900 | 2,891 | 9,484 | 14,459 | 6,499 | 1,117 | 128 | 15 | 54 |
| 19 years .................. | 5,248 | 12.5 | 41,916 | 135 | 442 | 498 | 1,012 | 3,161 | 10,555 | 16,760 | 7,739 | 1,355 | 163 | 22 | 74 |
| 20.24 years ................ | 23,789 | 12.0 | 197,841 | 751 | 2,209 | 2,282 | 4,525 | 14,022 | 47,107 | 77,293 | 39,862 | 8,230 | 1,100 | 148 | 312 |
| 25-29 years ................ | 18,163 | 12.8 | 142,355 | 589 | 1,775 | 1,869 | 3,460 | 10,470 | 31,432 | 52,683 | 30,996 | 7.472 | 1,225 | 154 | 230 |
| 30.34 years ................ | 14,373 | 14.5 | 99,155 | 430 | 1,359 | 1,538 | 2,809 | 8,237 | 21,298 | 34,738 | 21,580 | 5,816 | 1,018 | 155 | 177 |
| 35-39 years ................ | 6,882 | 16.4 | 42,029 | 190 | 625 | 769 | 1,487 | 3,811 | 9,052 | 14,206 | 8,811 | 2,420 | 483 | 94 | 81 |
| 40-44 years ................ | 1,324 | 18.1 | 7,339 | 31 | 121 | 163 | 270 | 739 | 1,593 | 2,380 | 1,528 | 413 | 76 | 17 | 8 |
| 45-49 years ................ | 45 | 18.9 | 239 | 1 | 5 | 5 | 9 | 25 | 55 | 80 | 41 | 14 | 3 | 0 | 1 |

[^39]Table 45. Live births with selected abnormal conditions of the newborn and rates by age of mother, by race of mother: United States, 1994
[Rates are number of live births with specified abnormal condition per 1,000 live births in specified group]

| Abnormal condition and race of mother | $\underset{\text { births }{ }^{1}}{\text { All }}$ | Abnormal condition reported | Age of mother |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All ages | Under 20 years | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $40-49$ years |  |
| All races ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Anemia | 3,952,767 | 4,322 | 1.1 | 1.3 | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | 66,098 |
| Birth injury 3 | 3,524,710 | 9,129 | 2.6 | 2.6 | 2.8 | 2.8 | 2.5 | 2.4 | 2.1 | 57,880 |
| Fetal alcohol syndrome ${ }^{4}$ | 3,884,485 | 261 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | * | 67,167 |
| Hyaline membrane disease/RDS ................. | 3,952,767 | 26,166 | 6.7 | 8.3 | 7.1 | 6.3 | 6.0 | 6.6 | 7.5 | 66,098 |
| Meconium aspiration syndrome .... | 3,952,767 | 9,693 | 2.5 | 2.6 | 2.4 | 2.5 | 2.4 | 2.7 | 3.0 | 66,098 |
| Assisted ventilation less than 30 minutes ${ }^{5}$. | 3,825,083 | 69,333 | 18.4 | 19.4 | 18.5 | 18.4 | 18.0 | 18.1 | 19.3 | 65,359 |
| Assisted ventilation 30 minutes or longer 5 .... | 3,825,083 | 30,445 | 8.1 | 9.9 | 8.3 | 7.5 | 7.2 | 8.3 | 11.1 | 65,359 |
| Seizures ................................................. | 3,952,767 | 3,185 | 0.8 | 1.1 | 0.9 | 0.8 | 0.7 | 0.7 | 0.9 | 66,098 |
| White |  |  |  |  |  |  |  |  |  |  |
| Anemia | 3,121,004 | 3,079 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 53,541 |
| Birth injury ${ }^{3}$ | 2,755,441 | 7,754 | 2.9 | 3.1 | 3.0 | 3.0 | 2.6 | 2.5 | 2.1 | 47,424 |
| Fetal alcohol syndrome ${ }^{4}$ | 3,062,191 | 141 | 0.0 | * | 0.0 | 0.0 | 0.1 | . | * | 54,579 |
| Hyaline membrane disease/RDS ................. | 3,121,004 | 20,494 | 6.7 | 8.2 | 7.1 | 6.3 | 6.0 | 6.6 | 7.3 | 53,541 |
| Meconium aspiration syndrome | 3,121,004 | 7,139 | 2.3 | 2.5 | 2.2 | 2.3 | 2.2 | 2.6 | 2.9 | 53,541 |
| Assisted ventilation less than 30 minutes 5 | 3,047,201 | 55,145 | 18.4 | 19.0 | 18.3 | 18.6 | 18.1 | 18.2 | 19.4 | 53,841 |
| Assisted ventilation 30 minutes or longer 5 .... | 3,047,201 | 23,281 | 7.8 | 9.5 | 8.1 | 7.3 | 7.0 | 7.8 | 10.8 | 53,841 |
| Seizures | 3,121,004 | 2,330 | 0.8 | 1.0 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 53,541 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Anemia | 636,391 | 1,010 | 1.6 | 1.7 | 1.6 | 1.6 | 1.4 | 1.8 | * | 9,608 |
| Birth injury ${ }^{3}$........................................... | 586,721 | 857 | 1.5 | 1.5 | 1.6 | 1.3 | 1.4 | 1.8 | * | 7,740 |
| Fetal alcohol syndrome ${ }^{4}$ | 629,548 | 88 | 0.1 | * | * | 0.2 | 0.3 | * | * | 9,628 |
| Hyaline membrane disease/RDS ................. | 636,391 | 4,933 | 7.9 | 8.8 | 7.6 | 7.1 | 7.7 | 8.6 | 9.8 | 9,608 |
| Meconium aspiration syndrome ...... | 636,391 | 2,076 | 3.3 | 3.0 | 3.0 | 3.4 | 4.0 | 3.8 | 4.8 | 9,608 |
| Assisted ventilation less than 30 minutes $5 \ldots$ | 593,518 | 11,641 | 19.9 | 20.3 | 19.6 | 19.4 | 20.3 | 20.8 | 20.8 | 8,473 |
| Assisted ventilation 30 minutes or longer 5 .... | 593,518 | 5,894 | 10.1 | 10.7 | 9.5 | 9.1 | 10.3 | 12.7 | 13.3 | 8,473 |
| Seizures ................................................. | 636,391 | 761 | 1.2 | 1.3 | 1.2 | 1.1 | 1.2 | 1.2 | * | 9,608 |

[^40]Table 46. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States (excluding New York City) and the District of Columbia, 1994
[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 | $\begin{aligned} & \text { Under } \\ & 20 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-49 \\ & \text { years } \end{aligned}$ |  |


| All races ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anencephalus | 3,797,492 | 412 | 11.0 | 11.8 | 11.8 | 10.1 | 10.8 | 10.4 |  | 61,633 |
| Spina bifida/Meningocele 3 | 3,646,823 | 955 | 26.5 | 27.2 | 26.9 | 25.8 | 26.1 | 27.8 |  | 46,413 |
| Hydrocephalus | 3,797,492 | 1,051 | 28.1 | 36.9 | 28.7 | 24.2 | 25.8 | 31.1 |  | 61,633 |
| Microcephalus | 3,797,492 | 326 | 8.7 | 14.4 | 8.9 | 6.6 | 7.1 | 8.9 |  | 61,633 |
| Other central nervous system anomalies ...... | 3,797,492 | 785 | 21.0 | 22.3 | 20.4 | 19.4 | 22.8 | 19.3 | * | 61,633 |
| Heart malformations | 3,797,492 | 4,237 | 113.4 | 102.5 | 101.1 | 113.6 | 116.7 | 146.1 | 158.4 | 61,633 |
| Other circulatory/respiratory anomalies ........ | 3,797,492 | 4,687 | 125.5 | 120.0 | 124.1 | 127.8 | 120.6 | 131.1 | 188.1 | 61,633 |
| Rectal atresia/stenosis | 3,797,492 | 410 | 11.0 | 9.1 | 11.2 | 12.3 | 9.6 | 12.4 | * | 61,633 |
| Tracheo-esophageal fistula/Esophageal atresia $\qquad$ | 3,797,492 | 589 | 15.8 | 13.8 | 14.4 | 14.7 | 16.6 | 21.3 | * | 61,633 |
| Omphalocele/Gastroschisis | 3,797,492 | 1,031 | 27.6 | 57.9 | 33.8 | 19.8 | 17.3 | 16.4 | * | 61,633 |
| Other gastrointestinal anomalies .................. | 3,797,492 | 1,076 | 28.8 | 27.8 | 30.9 | 27.1 | 28.3 | 30.5 | * | 61,633 |
| Malformed genitalia | 3,797,492 | 3,136 | 83.9 | 82.4 | 78.1 | 85.3 | 83.8 | 94.2 | 107.2 | 61,633 |
| Renal agenesis | 3,797,492 | 507 | 13.6 | 12.4 | 14.3 | 13.1 | 14.9 | 11.8 |  | 61,633 |
| Other urogenital anomalies | 3,797,492 | 3,977 | 106.5 | 95.0 | 102.3 | 113.2 | 108.7 | 105.5 | 123.7 | 61,633 |
| Cleft lip/palate | 3,797,492 | 3,280 | 87.8 | 87.9 | 94.3 | 91.0 | 77.6 | 83.3 | 100.6 | 61,633 |
| Polydactyly/Syndactyly/Adactyly | 3,797,492 | 3,331 | 89.2 | 125.6 | 98.7 | 80.3 | 75.1 | 70.0 | 100.6 | 61,633 |
| Clubfoot | 3,797,492 | 2,205 | 59.0 | 73.7 | 61.9 | 56.9 | 51.3 | 57.0 | 51.1 | 61,633 |
| Diaphragmatic hernia | 3,797,492 | 479 | 12.8 | 14.0 | 11.9 | 14.2 | 11.1 | 13.5 | * | 61,633 |
| Other musculoskeletal/integumental anomalies | 3,797,492 | 7,666 | 205.2 | 199.5 | 203.7 | 209.1 | 195.1 | 220.4 | 262.3 | 61,633 |
| Down's syndrome | 3,797,492 | 1,698 | 45.5 | 30.0 | 27.3 | 30.3 | 48.3 | 98.0 | 371.2 | 61,633 |
| Other chromosomal anomalies | 3,797,492 | 1,856 | 49.7 | 49.9 | 47.6 | 45.2 | 43.4 | 64.8 | 158.4 | 61,633 |
| White |  |  |  |  |  |  |  |  |  |  |
| Anencephalus | 3,024,148 | 342 | 11.5 | 13.0 | 12.3 | 10.1 | 11.4 | 10.8 | * | 50,468 |
| Spina bifida/Meningocele ${ }^{3}$ | 2,893,716 | 834 | 29.2 | 31.0 | 30.6 | 28.2 | 27.7 | 30.0 | * | 37,787 |
| Hydrocephalus .......... | 3,024,148 | 856 | 28.8 | 38.5 | 30.0 | 23.9 | 26.4 | 34.3 |  | 50,468 |
| Microcephalus | 3,024,148 | 230 | 7.7 | 12.7 | 8.1 | 5.8 | 6.5 | 8.0 |  | 50,468 |
| Other central nervous system anomalies ...... | 3,024,148 | 601 | 20.2 | 23.1 | 20.3 | 17.4 | 22.5 | 18.4 | * | 50,468 |
| Heart malformations | 3,024,148 | 3,488 | 117.3 | 112.3 | 107.2 | 117.3 | 116.3 | 145.0 | 152.1 | 50,468 |
| Other circulatory/respiratory anomalies ........ | 3,024,148 | 3,737 | 125.7 | 129.5 | 125.2 | 127.2 | 117.5 | 127.3 | 188.6 | 50,468 |
| Rectal atresia/stenosis | 3,024,148 | 344 | 11.6 | 10.4 | 11.6 | 12.6 | 10.3 | 12.8 | * | 50,468 |
| Tracheo-esophageal fistula/Esophageal atresia $\qquad$ | 3,024,148 | 473 | 15.9 | 14.5 | 14.4 | 14.4 | 16.7 | 22.2 | * | 50,468 |
| Omphalocele/Gastroschisis | 3,024,148 | 816 | 27.4 | 63.4 | 35.6 | 18.7 | 16.8 | 16.7 |  | 50,468 |
| Other gastrointestinal anomalies | 3,024,148 | 842 | 28.3 | 28.7 | 30.8 | 26.6 | 27.1 | 29.1 | * | 50,468 |
| Malformed genitalia | 3,024,148 | 2,685 | 90.3 | 91.0 | 86.8 | 90.2 | 89.3 | 96.5 | 117.6 | 50,468 |
| Renal agenesis | 3,024,148 | 411 | 13.8 | 11.6 | 13.7 | 14.0 | 15.3 | 12.8 | * | 50,468 |
| Other urogenital anomalies | 3,024,148 | 3,393 | 114.1 | 102.8 | 111.6 | 120.8 | 114.2 | 111.0 | 129.8 | 50,468 |
| Cleft lip/palate | 3,024,148 | 2,896 | 97.4 | 108.1 | 107.5 | 98.9 | 83.9 | 86.0 | 111.5 | 50,468 |
| Polydactyly/Syndactyly/Adactyly | 3,024,148 | 1,885 | 63.4 | 79.4 | 66.7 | 59.7 | 59.3 | 54.5 | 81.1 | 50,468 |
| Clubfoot | 3,024,148 | 1,946 | 65.4 | 85.0 | 71.9 | 61.2 | 56.3 | 62.5 | 58.8 | 50,468 |
| Diaphragmatic hernia | 3,024,148 | 377 | 12.7 | 14.2 | 12.1 | 14.7 | 9.6 | 13.5 |  | 50,468 |
| Other musculoskeletal/integumental anomalies $\qquad$ | 3,024,148 | 5,953 | 200.2 | 192.6 | 198.9 | 201.3 | 193.2 | 213.7 | 275.8 | 50,468 |
| Down's syndrome | 3,024,148 | 1,490 | 50.1 | 35.0 | 30.0 | 32.5 | 52.2 | 107.2 | 391.4 | 50,468 |
| Other chromosomal anomalies | 3,024,148 | 1,470 | 49.4 | 49.5 | 49.3 | 43.5 | 42.8 | 65.6 | 154.1 | 50,468 |

Table 46. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States (excluding New York City) and the District of Columbia, 1994-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 | All <br> births ${ }^{1}$ | Congenital anomaly reported | Age of mother |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All ages | Under 20 <br> years | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-49 \\ & \text { years } \end{aligned}$ |  |
| Black |  |  |  |  |  |  |  |  |  |  |
| Anencephalus | 592,997 | 58 | 9.9 | * | * | * | * | * | * | 7,555 |
| Spina bifida/Meningocele 3 | 576,971 | 106 | 18.6 | 20.5 | 17.1 | * | * | * | * | 5,677 |
| Hydrocephalus | 592,997 | 173 | 29.6 | 35.1 | 25.9 | 31.8 | 28.3 | * | * | 7,555 |
| Microcephalus | 592,997 | 85 | 14.5 | 20.1 | 11.9 | * | * | * | * | 7,555 |
| Other central nervous system anomalies ...... | 592,997 | 127 | 21.7 | 20.1 | 18.4 | 24.8 | 22.7 | * | * | 7,555 |
| Heart malformations | 592,997 | 526 | 89.8 | 76.7 | 72.9 | 91.4 | 109.9 | 154.2 | * | 7,555 |
| Other circulatory/respiratory anomalies ....... | 592,997 | 584 | 99.8 | 83.1 | 94.5 | 108.5 | 117.8 | 108.2 | * | 7,555 |
| Rectal atresia/stenosis | 592,997 | 38 | 6.5 | * | * | * | * | * | * | 7,555 |
| Tracheo-esophageal fistula/Esophageal atresia | 592,997 | 77 | 13.2 | * | 11.3 | * | * | * | * | 7,555 |
| Omphalocele/Gastroschisis ....................... | 592,997 | 175 | 29.9 | 43.7 | 28.6 | 25.6 | 23.8 | * | * | 7,555 |
| Other gastrointestinal anomalies ................. | 592,997 | 171 | 29.2 | 22.9 | 28.6 | 28.7 | 39.6 | * | * | 7,555 |
| Malformed genitalia ................................... | 592,997 | 329 | 56.2 | 56.6 | 45.9 | 62.8 | 54.4 | 83.8 | * | 7,555 |
| Renal agenesis | 592,997 | 71 | 12.1 | * | 15.1 | * | * | * | * | 7,555 |
| Other urogenital anomalies ........................ | 592,997 | 411 | 70.2 | 73.8 | 64.8 | 66.6 | 75.9 | 70.3 | * | 7,555 |
| Cleft lip/palate .......................................... | 592,997 | 242 | 41.3 | 38.0 | 48.1 | 41.1 | 35.1 | * | * | 7,555 |
| Polydactyly/Syndactyly/Adactyly ................. | 592,997 | 1,337 | 228.4 | 238.0 | 227.9 | 224.7 | 223.2 | 213.7 | * | 7,555 |
| Clubfoot | 592,997 | 194 | 33.1 | 42.3 | 26.5 | 38.7 | 23.8 | * | * | 7,555 |
| Diaphragmatic hernia ................................ | 592,997 | 74 | 12.6 | 15.1 | * | * | * | * | * | 7,555 |
| Other musculoskeletal/integumental anomalies $\qquad$ | 592,997 | 1,123 | 191.8 | 195.7 | 191.1 | 205.4 | 168.8 | 197.4 | * | 7,555 |
| Down's syndrome .................................... | 592,997 | 140 | 23.9 | 15.8 | 14.6 | 19.4 | 30.6 | 54.1 | * | 7,555 |
| Other chromosomal anomalies ................... | 592,997 | 299 | 51.1 | 48.7 | 41.6 | 55.8 | 49.8 | 70.3 | * | 7,555 |

1 Total number of births.
2 Includes races other than white and black.
3 New York State does not report this anomaly
NOTE: Excludes data for New Mexico and New York City, which did not require reporting of congenital anomalies.

Table 47. Live births by plurality of birth and ratios, by age and race of mother: United States, 1994

| Plurality and race of mother | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 15 years | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | 35-39 years | 40-44 years | 45-49 years |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |  |
|  | Number |  |  |  |  |  |  |  |  |  |  |
| All live births 1 ......................................................... | 3,952,767 | 12,901 | 505,488 | 195,169 | 310,319 | 1,001,418 | 1,088,845 | 906,498 | 371,608 | 63,502 | 2,507 |
| White | 3,121,004 | 5,978 | 348,081 | 126,388 | 221,693 | 764,085 | 889,581 | 754,871 | 305,291 | 51,192 | 1,925 |
| Black ..................................................................... | 636,391 | 6,465 | 140,968 | 62,563 | 78,405 | 197,841 | 142,355 | 99,155 | 42,029 | 7,339 | 239 |
| Live births in single deliveries ${ }^{\text {1 }}$................................. | 3,851,109 | 12,773 | 498,057 | 192,712 | 305,345 | 980,977 | 1,060,204 | 877,310 | 358,211 | 61,298 | 2,279 |
| White ..................................................................... | 3,041,559 | 5,909 | 343,555 | 124,960 | 218,595 | 750,000 | 866,799 | 730,261 | 294,006 | 49,303 | 1,726 |
| Black .................................................................... | 617,689 | 6,413 | 138,252 | 61,593 | 76,659 | 192,133 | 137,479 | 95,589 | 40,460 | 7,132 | 231 |
| Live births in twin deliveries ${ }^{1}$.................................... | 97,064 | 128 | 7,355 | 2,426 | 4,929 | 20,106 | 27,418 | 27,275 | 12,523 | 2,061 | 198 |
| White ...................................................................... | 75,318 | 69 | 4,483 | 1,417 | 3,066 | 13,827 | 21,698 | 22,799 | 10,512 | 1,755 | 175 |
| Black .................................................................... | 18,344 | 52 | 2,686 | 950 | 1,736 | 5,635 | 4,773 | 3,490 | 1,496 | 204 | 8 |
| Live births in higher-order multiple deliveries 1, $2 . . . . . . .$. | 4,594 | - | 76 | 31 | 45 | 335 | 1,223 | 1,913 | 874 | 143 | 30 |
| White | 4,127 | - | 43 | 11 | 32 | 258 | 1,084 | 1,811 | 773 | 134 | 24 |
| Black | 358 | - | 30 | 20 | 10 | 73 | 103 | 76 | 73 | 3 | - |
|  | Ratio per 1,000 live births |  |  |  |  |  |  |  |  |  |  |
| All multiple births 1 ................................................... | 25.7 | 9.9 | 14.7 | 12.6 | 16.0 | 20.4 | 26.3 | 32.2 | 36.1 | 34.7 | 90.9 |
| White ..................................................................... | 25.5 | 11.5 | 13.0 | 11.3 | 14.0 | 18.4 | 25.6 | 32.6 | 37.0 | 36.9 | 103.4 |
| Black .................................................................... | 29.4 | 8.0 | 19.3 | 15.5 | 22.3 | 28.9 | 34.3 | 36.0 | 37.3 | 28.2 | * |
| Twin births 1 .......................................................... | 24.6 | 9.9 | 14.6 | 12.4 | 15.9 | 20.1 | 25.2 | 30.1 | 33.7 | 32.5 | 79.0 |
| White | 24.1 | 11.5 | 12.9 | 11.2 | 13.8 | 18.1 | 24.4 | 30.2 | 34.4 | 34.3 | 90.9 |
| Black | 28.8 | 8.0 | 19.1 | 15.2 | 22.1 | 28.5 | 33.5 | 35.2 | 35.6 | 27.8 | * |
|  | Ratio per 100,000 live births |  |  |  |  |  |  |  |  |  |  |
| Higher-order multiple births 1, 2 ................................ | 116.2 | * | 15.0 | 15.9 | 14.5 | 33.5 | 112.3 | 211.0 | 235.2 | 225.2 | 1196.6 |
| White ...................................................................... | 132.2 | * | 12.4 | * | 14.4 | 33.8 | 121.9 | 239.9 | 253.2 | 261.8 | 1246.8 |
| Black .................................................................... | 56.3 | * | 21.3 | 32.0 | * | 36.9 | 72.4 | 76.6 | 173.7 | * | * |

[^41]
## Technical notes

## Source of data

Data shown in this report for 1994 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.

## Race

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 in this report focuses on data tabulated 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 in previous reports (4-8). They include the recent revision of the birth certificate, effective with the 1989 data year, which includes many more health questions that are directly associated with the mother in addition to many other items on the birth certificate for more than two decades. In all these instances, it is more appropriate
to tabulate births by the mother's race. A second factor has been the increasing incidence of interracial parentage. In 1994, 4.4 percent of births were to parents of different races compared with just 1.7 percent in 1974. The third factor influencing the decision to tabulate births by race of mother is the growing proportion of births with race of father not stated, 16 percent in 1994 compared with 9 percent in 1974. This 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. This topic is discussed elsewhere in greater detail $(84,85)$.

## Marital status

Beginning with the 1980 data year, national estimates of births to unmarried women have been derived from two sources. One is a direct question on the birth certificate asking for the mother's marital status, and the other is derived from inferring the mother's marital status by comparing the parents' and child's surnames and other information concerning the father. In 1994, marital status was reported directly on the birth certificates of 45 States and the District of Columbia. Mother's marital status was inferred in the remaining five States that lack such an item (California, Connecticut, Michigan, Nevada, and New York). This procedure represents 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 (26).

In the five States that use inferential procedures to compile birth statistics by marital status, there are several basic criteria. 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 are used in California to compare the parents' surnames when they are hyphenated if the parents were born in countries where naming practices can identify the parents' marital status. In New York (excluding New York City) mother's marital status is determined by the presence or absence of the father's date of birth, or the filing of a paternity affidavit.

The current method 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) has been published (86). 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. There has been continuing concern that the current method might overstate the number of births to unmarried women because it incorporates data based on a comparison of surnames. This is because women who have retained their maiden surname after marriage and who are frequently older, well-educated women, would be classified as unmarried. Trends based on data incorporating inferential statistics can be compared with the trends based on the geographic estimates for the 1980-94 period to show the impact of the two methods. The trends for the two methods are similar for all races combined and for white and black births. Between 1980 and 1994, birth rates for unmarried white women increased 112 percent based on data incorporating inferential information and 116 percent based on the geographic estimates. Birth rates for unmarried black women increased 1 percent based on the inferential data and declined 2 percent based on the geographic estimates.

One consequence of using nonmarital birth data based on the inferential procedures is the need to monitor continuously the validity of the procedures used by the States to infer mother's marital status. In particular, 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. When a paternity acknowledgment is made at the time of birth, information about the father may be included on the birth certificate. The inferential procedures may be more difficult to implement in these cases, and may result in undercounts of the numbers of nonmarital births, depending on the surnames of the parents and the child. During the early 1990's, paternity acknowledgments increased substantially, and one consequence was an apparent stabilization and then reduction in the number of births to unmarried women in two States, Michigan and Texas, because births with paternity acknowledgment were not coded as nonmarital by these States, and an increasing number of births to unmarried women were accompanied by paternity acknowledgments. The year-to-year trends in nonmarital births in the United States during the 1989-93 period were somewhat understated as a result of the undercounts in these States, and the increase from 1993 to 1994 was relatively large. However, the conclusion in NCHS reports (7, 8, and 26) that the pace of increase in the nonmarital birth rate in the United States has slowed down in recent years in comparison to the previous 5 years is still correct. The birth rate for unmarried women increased 13 percent from 1989 to 1994 , or about 2 percent per year. Statistics for the years 1989 and 1994 are believed to accurately represent the incidence of nonmarital births, although data for the intervening years are not complete. The increase in the rate was much greater for the previous 5 -year period- 34 percent during 1984-89 (6 percent per year).

Michigan and Texas births-The number of births to unmarried women in Michigan was underreported during the years 1988-93, but the greatest undercount, numerically, was for 1990-93. Michigan had separate counts of the numbers of births with paternity
acknowledgments, but did not include them with the counts of unmarried women based on the general inferential procedures that they provided to the National Center for Health Statistics. The underreporting began in 1988, and was about 25 percent for the years 1988-93. In 1993 NCHS reported 36,326 births to unmarried women in Michigan, 26 percent below the number that included paternity affidavits (49,281 births) (87). Thus, there is a considerable discontinuity in the nonmarital birth data for Michigan from 1993 to 1994. The proportion of nonmarital births reported to NCHS increased from 26 percent to 35 percent.

The number of births to unmarried women in Texas was underreported during the years 1989-93. As a result of legislation passed in 1989, a birth was considered to have occurred to a married woman if the mother provides any information about the father, or if a paternity affidavit has been filed. The measurement of marital status for Texas births improved beginning with the 1994 data year because a direct question on marital status was added to the Texas birth certificate. However, there is a considerable discontinuity in the data for Texas from 1993 to 1994. The proportion of births to unmarried mothers increased from 17 percent to 29 percent.

## Gestation

The 1989 revision of the U.S. Standard Certificate of Live Birth includes a new 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 4.1 percent of the births in 1994 was based on the clinical estimate of gestation. For 96 percent of these records, the clinical estimate was used because the LMP date was not reported. For the remaining 4 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 400 births or 0.01 percent of all birth records in 1994. The levels of the adjustments in 1994 data were virtually the same as in 1991-93 (6-8).

## 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 $=2 \mathrm{lb} 4 \mathrm{oz}-3 \mathrm{lb} 4 \mathrm{oz}$ $1,500-1,999$ grams $=3 \mathrm{lb} 5 \mathrm{oz}-4 \mathrm{lb} 6 \mathrm{oz}$ $2,000-2,499$ 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 $=8 \mathrm{lb} 14$ oz- 9 lb 14 oz $4,500-4,999$ grams $=9 \mathrm{lb} 15 \mathrm{oz}-11 \mathrm{lb} 0 \mathrm{oz}$ 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 that relates the number of women having a first cesarean delivery to all women giving birth who have never had a cesarean delivery. The denominator for this rate includes all births less those with method of delivery classified as repeat cesarean, vaginal birth after previous cesarean, 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.

## 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 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 1994 shown in tables $1,3-5,7,10,11,14$, and 15 are based on populations estimated as of July 1, 1994. The population estimates have been published by the U.S. Bureau of the Census (9) and are based on the 1990 census counts by race and age that 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 (88).

Birth and fertility rates by month shown in table 12 are based on monthly population estimates also based on the 1994 estimates. Rates for unmarried women shown in tables 14 and 15 are based on distributions of the population by marital status as of March 1994 published by the U.S. Bureau of the Census (21) that have been adjusted to July 1994 population levels (9) by the Division of Vital Statistics, NCHS (26).

Birth and fertility rates for the Hispanic population, shown in tables 7 and 11, are based on estimates of the total Hispanic population as of July 1, 1994 (9). Rates for Hispanic subgroups are based on special population estimates. (89).

## 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. For computing birth rates by age of father, births with age of father not stated are distributed first within each age-ofmother group. This procedure is followed because, while father's age is missing on 16 percent of the birth certificates, one third of these were on records where the mother is a teenager.

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 not stated ( 1.1 percent) were actually to Hispanic mothers. The population with origin not stated was imputed. The effect on the rates is believed to be small.

## 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. 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. 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 (89).

## 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 delivery, abnormal conditions of the newborn, and congenital anomalies of the child (figure I). The definitions that follow are adapted
and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials for the Association for Vital Records and Health Statistics (90).

## 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-associ-ated-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 or more-The birthweight of a previous

| 38a．MEDICAL RISK FACTORS FOR THIS PREGNANCY （Check all that apply） | 40．COMPLICATIONS OF LABOR AND／OR DELIVERY （Check all that apply） | 43．CONGENITAL ANOMALIES OF CHILD <br> （Check all that app／y） |
| :---: | :---: | :---: |
| Anemia（Hct．＜30／Hgb．＜10）．．．．．．．．．．．．．． $01 \square$ | Feorile $1>100^{\circ} \mathrm{F}$ ．or $38^{\circ} \mathrm{C}$. ）．．．．．．．．．．．．．．．．． 01 － | Anencephalus ．．．．．．．．．．．．．．．．．．．．．．．．． 01 |
| Cardiac disease ．．．．．．．．．．．．．．．．．．．．．．．．． 020 | Meconium，moderate／heavy ．．．．．．．．．．．．．．．． 02 a | Spina bifida／Meningocele ．．．．．．．．．．．．．．．．．．．． $0_{2}$ |
| Acute or chronic lung disease ．．．．．．．．．．．．．． $03 \square$ | Premature rupture of membrane（ $>12$ hours）．．．． 03 ［］ | Hydrocephalus ．．．．．．．．．．．．．．．．．．．．．．．．．．．． 0 ： |
| Diabetes ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 04 ロ | Abruptio placenta ．．．．．．．．．．．．．．．．．．．．．．．． 04 ． | Microcephalus |
| Genital herpes ．．．．．．．．．．．．．．．．．．．．．．．．．． 05 ¢ | Placenta previa ．．．．．．．．．．．．．．．．．．．．．．．．． 05 ¢ | Other central nervous system anomalies |
| Hydramnios／Oligohydramnios ．．．．．．．．．．．．．．．． 06 ¢ | Other excessive bleeding ．．．．．．．．．．．．．．．．．．．． 06 ¢ | （Specify）OE |
| Hemoglobinopathy．．．．．．．．．．．．．．．．．．．．．． 07 ロ | Seizures during labor ．．．．．．．．．．．．．．．．．．．．．．． 07 o | （Specity－ |
| Hypertensior，chronic．．．．．．．．．．．．．．．．．．．． $08 \square$ | Precipitous labor（ $<3$ hours）．．．．．．．．．．．．．．． 08 | Heart malformations ．．．．．．．．．．．．．．．．．．．．．of |
| Hypertension，pregnancy－associated ．．．．．．．．．．．． 09 ¢ | Prolonged labor（ $>20$ hours）．．．．．．．．．．．．．．．． 09 口 | Other circulatory／respiratory anomalies |
| Eclampsia ．．．．．．．．．．．．．．．．．．．．．．．．．．．． 10 ロ | Dysfunctional labor ．．．．．．．．．．．．．．．．．．．．．．．．．． 10 ¢ | （Specify） 07 |
| Incompetent cervix ．．．．．．．．．．．．．．．．．．．．． 11 ¢ | Breech／Malpresentation ．．．．．．．．．．．．．．．．．．．．．．．．． 11 口 |  |
| Previous infant 4000＋grams ．．．．．．．．．．．．．．． $12 \square$ | Cephalopelvic disproportion ．．．．．．．．．．．．．．．．．． 12 b | Rectal atresia／stenosis ．．．．．．．．．．．．．．．．．．． 08 |
| Previous preterm or small－for－gestational－age | Cord prolapse ．．．．．．．．．．．．．．．．．．．．．．．．．． 13 口 | Tracheo－esophageal fistula／Esophageal atresia ．．．09 |
| infant ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 13 口 | Anesthetic complications ．．．．．．．．．．．．．．．．．．．．． 14 a | Omphalocele／Gastroschisis ．．．．．．．．．．．．．．．． 10 |
| Renal disease ．．．．．．．．．．．．．．．．．．．．．．．． 14 口 | Fetal distress ．．．．．．．．．．．．．．．．．．．．．．．．．．． 15 ． | Other gastrointestinal anomalies |
| Rh sensitization．．．．．．．．．．．．．．．．．．．．．．．．． 15 口 | None ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 00 口 | （Specify） 11 |
|  | Other＿＿＿ 16 口 |  |
|  | （Specify） | Malformed genitalia ．．．．．．．．．．．．．．．．．．．．．． 12 |
|  | 41．METHOD OF DELIVERY fheck all that apoly | Renal agenesis ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 13 Other urogenital anomalies |
| 38b．OTHER RISK FACTORS FOR THIS PREGNANCY （Complete all items） | Vaginal ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 01 ㅁ | （Specify）＿＿ 14 |
|  | Vaginal birth after previous C －section． $\square$ 02 |  |
|  | Primary C－section ．．．．．．．．．．．．．．．．．．．．．．． 030 | Cleft hip／palate ．．．．．．．．．．．．．．．．．．．．．．．．． 15 |
| Average number cigarettes per day | Repeat C－section ．．．．．．．．．．．．．．．．．．．．．．．．． 040 | Polydactyly／Syndactyly／Adactyly ．．．．．．．．．．．．．．．．．．． 16 |
| Alcohol use during pregnancy ．．．．．．．．．．Yes $\square$ No $\square$ |  | Club foot ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 17 Diaphragmatic hernia ．．．．． 18 |
| Average number drinks per week＿＿＿ | Vacuum ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 06 口 | Other musculoskeletal／integumental anomalies |
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| （Check all that apply） |  | Other chromosomal anomalies |
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| Amniocentesis ．．．．．．．．．．．．．．．．．．．．．．．．．．．． 01 口 | Fetal alcohol syndrome ．．．．．．．．．．．．．．．．．．．． 03 口 |  |
| Electronic fetal monitoring ．．．．．．．．．．．．．．．．．． 02 － | Hyaline membrane disease／RDS ．．．．．．．．．．．．．． 04 口 | None ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 00.00 |
| Induction of labor ．．．．．．．．．．．．．．．．．．．．．．．． 03 ． | Meconium aspiration syndrome ．．．．．．．．．．．．．． 05 口 | Other＿＿＿＿＿${ }^{22}$ |
| Stimulation of labor ．．．．．．．．．．．．．．．．．．．．．．． 04 － | Assisted ventilation $<30 \mathrm{~min}$ ．．．．．．．．．．．．．．． 06 a | （Specify） |
| Tocolysis ．．．．．．．．．．．．．．．．．．．．．．．．．．．． 05 － | Assisted ventilation $\geq 30 \mathrm{~min}$ ．．．．．．．．．．．．．．． $07 \square$ |  |
| Ultrasound ．．．．．．．．．．．．．．．．．．．．．．．．．．． 06 ， | Seizures ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 08 口 |  |
| None ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 00.00 | None ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 00 口 |  |
| Other $\qquad$ 07 | Other $\qquad$ 09 （Specify） |  |

Figure I．New maternal and infant health items from the 1989 revision of the U．S．Standard Certificate of Live Birth．
live－born child was 4,000 grams or more （8 pounds 14 ounces）．

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

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

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

## Obstetric procedures

Amniocentesis－Surgical transab－ dominal 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－Moni－ toring 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 con－ tractions．

Induction of labor－The initiation of uterine contractions before the sponta－ neous 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 C ．occurring during labor and／or delivery．

Meconium，moderate／heavy－Meco－ nium consists of undigested debris from swallowed amniotic fluid，various prod－ ucts of secretion，excretion and shedding by the gastrointestinal tract；moderate to heavy amounts of meconium in the amni－ otic 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 syndromeAspiration 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 an-omalies-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 anomaliesOther 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/adactylyPolydactyly 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 twin births (91), cesarean deliveries (92), birth rates for States (93), births to unmarried mothers (26), characteristics of births in Asian or Pacific Islander subgroups (23), and trends in pregnancies and pregnancy rates (13).

This report presents summary tabulations from the final natality statistics for 1994. More detailed tabulations for 1994 will be published in Vital Statistics of the United States, Volume I-Natality. Prior to the publication of that volume, the National Center for Health Statistics will respond to requests for unpublished data whenever possible.

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Keywords: Birth certificate, maternal and infant health, birth rates, and maternal characteristics

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[^0]:    ${ }^{1}$ 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.

[^1]:    Includes American Indian and Asian or Pacific Islander
    ${ }^{2}$ Non-Hispanic origin only.
    ${ }^{3}$ Includes American Indian, Chinese, Japanese, Hawaiian, Filipino, and other Asian or Pacific Islander

[^2]:    1 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.
    5 Based on a 20 - to 50 -percent sample of births.
    6 Figures by race exclude New Jersey.

[^3]:    1 Includes births to Aleuts and Eskimos.

[^4]:    1 Rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.
    2 Includes births to Aleuts and Eskimos.

[^5]:    1 Includes race 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.

[^6]:    1 Includes races other than white and black.

[^7]:    See footnotes at end of table.

[^8]:    1 Rates computed by relating total births, regardless of age of mother, to women aged 15-44 years
    2 Includes Central and South American and other and unknown Hispanic.
    3 Includes origin not stated.
    4 Includes races other than white and black.

[^9]:    1 Includes births to Aleuts and Eskimos.
    2 Excludes data for Puerto Rico, Virgin Islands, and Guam.
    3 Includes races other than white and black.

[^10]:    1 Includes races other than white and black.
    2 Excludes data for Puerto Rico, Virgin Islands, and Guam.

[^11]:    1 Includes births to Aleuts and Eskimos.
    2 Rate per 1,000 population.
    3 Rate per 1,000 women aged 15-44 years.
    4 Rates are sums of birth rates for 5 -year age groups multiplied by 5 .
    5 Male live births per 1,000 female live births.

[^12]:    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.

[^13]:    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.

[^14]:    1 Includes races other than white and black.
    2 Persons of Hispanic origin may be of any race.
    3 Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.
    4 Rates computed by relating biths to unmarried mothers aged 40 years and over to unmarried women aged $40-44$ years.

[^15]:    1 For 45 States and the District of Columbia, marital status of mother is reported on the birth certificate; for 5 States, mother's marital status is inferred, see Technical notes.
    2 Less than 2,500 grams ( 5 lb 8 oz ).
    3 Includes races other than white and black
    4 Excludes data for Puerto Rico, Virgin Islands, and Guam.

[^16]:    1 Rates computed by relating total births, regardless of age of father, to men aged 15-54 years.
    ${ }_{3}$ 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.

[^17]:    1 Includes races other than white and black.

[^18]:    1 Expressed in completed weeks
    2 Includes births with period of gestation not stated
    3 Includes races other than white and black.

[^19]:    1 Expressed in completed weeks.
    2 Includes births with period of gestation not stated.
    3 Includes races other than white and black.

[^20]:    1 Expressed in completed weeks.
    2 Includes births with period of gestation not stated
    3 Includes origin not stated.
    4 Includes races other than white and black.

[^21]:    1 Includes origin not stated.
    2 Includes races other than white and black.

[^22]:    Includes births to Aleuts and Eskimos.
    2 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.
    5 Born prior to 37 completed weeks of gestation.
    6 Birthweight of less than 1,500 grams ( 3 lb 4 oz )
    7 Birthweight of less than 2,500 grams ( 5 lb 8 oz ).
    8 Equivalent to 8 lb 14 oz .
    9 Excludes data for California and Texas, which did not report either 1- or 5-minute Apgar score on the birth certificate.

[^23]:    1 Includes origin not stated.

[^24]:    1 Total number of births to residents of areas reporting specified medical risk factor.
    ${ }_{2}$ Includes races other than white and black.
    3 Texas does not report this risk factor.
    4 Kansas does not report this risk factor.

[^25]:    1 Includes births to Aleuts and Eskimos.
    ${ }_{3}$ Texas does not report this risk factor.
    3 Texas does not report this complication.

[^26]:    1 Includes origin not stated.
    2 Includes races other than white and black.
    3 Texas does not report this factor.
    4 Texas does not report this complication.

[^27]:    1 Includes races other than white and black.
    NOTE: Excludes data for California, Indiana, New York State (but includes New York city), and South Dakota, which did not require reporting of tobacco use during pregnancy.

[^28]:    1 Includes races other than white and black.

[^29]:    1 Includes races other than white and black.

[^30]:    1 Care beginning in 3d trimester.
    2 Includes races other than white and black.
    3 Excludes data for Puerto Rico, Virgin Islands, and Guam.

[^31]:    1 Includes races other than white and black.

[^32]:    1 Total number of births.
    2 Includes races other than white and black.

[^33]:    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.

[^34]:    1 Includes races other than white and black.
    2 Includes births occurring en route to or on arrival at hospital.

[^35]:    1 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.
    4 Includes races other than white and black.
    5 Excludes data for Oklahoma, which did not report method of delivery on the birth certificate.
    6 Excludes data for Louisiana, Maryland, Nebraska, Nevada, and Oklahoma, which did not report method of delivery on the birth certificate.

[^36]:    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 delivery per 100 live births to women with a previous cesarean delivery
    4 Texas does not report this risk factor.
    5 Kansas does not report this risk factor.
    6 Texas does not report this complication.

[^37]:    1 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.
    4 Birthweight of less than 1,500 grams.
    5 Birthweight of less than 2,500 grams

[^38]:    Births of less than 37 completed weeks gestation
    Includes races other than white and black.
    Less than 2,500 grams.
    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.

[^39]:    1 Less than 2,500 grams
    2 Equivalents of gram weights in terms of pounds and ounces are shown in Technical notes.
    3 Includes races other than white and black.

[^40]:    1 Total number of births to residents of areas reporting specified condition.
    2 Includes races other than white and black.
    3 Massachusetts, Nebraska, and Texas do not report this condition.
    4 Wisconsin does not report this condition.
    5 New York City does not report this condition.

[^41]:    1 Includes races other than white and black.
    2 Births in greater than twin deliveries.

