## Errata

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

## Report of Final Natality Statistics, 1996

by Stephanie J. Ventura, M.A.; Joyce A. Martin, M.P.H.; Sally C. Curtin, M.A.; and T. J. Mathews, M.S.

## Abstract

Objectives-This report presents 1996 data on U.S. births according to a wide variety of characteristics. Data are presented for maternal demographic characteristics including age, live-birth order, race, Hispanic origin, marital status, and educational attainment; maternal lifestyle and health characteristics (medical risk factors, weight gain, tobacco and alcohol use); medical care utilization by pregnant women (prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth, and method of delivery); and infant health characteristics (period of gestation, birthweight, Apgar score, abnormal conditions, congenital anomalies, and multiple births). Also presented are birth and fertility rates by age, live-birth order, race, Hispanic origin, and marital status. Selected data by mother's State of residence are shown including teenage birth rates and total fertility rates, as well as data on month and day of birth, sex ratio, and age of father. Trends in fertility patterns and maternal and infant characteristics are described and interpreted.

Methods-Descriptive tabulations of data reported on the birth certificates of the 3.9 million births that occurred in 1996 are presented.

Results-Birth and fertility rates declined very slightly in 1996. Birth rates for teenagers fell 3 to 8 percent. Rates for women in their twenties increased slightly in 1996, the first increase since 1990, while rates for women in their thirties rose 2 to 3 percent. The number and percent of births to unmarried women increased slightly in 1996 while the birth rate for unmarried women declined modestly. Smoking by pregnant women overall dropped again in 1996, but increased among teenagers. Improvements in prenatal care utilization continued. The cesarean delivery rate declined. The proportion of multiple births continued to rise; higher order multiple births (e.g., triplets, quadruplets) rose by 19 percent. Key measures of birth outcome-the percents of low birthweight and preterm births-increased slightly, in large part the result of increases in multiple births.

## Highlights

Births in the United States declined very slightly in 1996 , to $3,891,494$, the smallest number recorded since 1987. The birth rate also dropped slightly in 1996 to 14.7 births per 1,000 total population, the lowest level reported in two decades. The fertility rate, which relates births to the number of women of childbearing age, declined slightly in 1996 to 65.3 births per 1,000 women aged 15-44 years, its lowest level since 1976.

Fertility rates for women in racial and Hispanic origin subgroups increased for Mexican and Cuban women, but declined for other groups by $1-6$ percent. Rates differ considerably among groups, with Mexican women having the highest rate, 119.3 per 1,000 aged $15-44$ years. Rates are successively lower for "other" Hispanic, non-Hispanic black, Puerto Rican, American Indian, Asian or Pacific Islander, Cuban, and non-Hispanic white women.

Keywords: birth certificate • maternal and infant health • birth rates $\boldsymbol{\text { maternal characteristics }}$

## Acknowledgments

This report was prepared under the general direction of Kenneth G. Keppel, Acting Chief of the Reproductive Statistics Branch (RSB). Nicholas F. Pace, Chief of the Systems, Programming, and Statistical Resources Branch (SPSRB), and Manju Sharma, Jordan Sacks, Jaleh Mousavi, Steve Steimel, and Ryan Rusek of SPSRB provided computer programming support and statistical tables. Thomas D. Dunn and Vanetta Harrington of SPSRB and Jonnae Atkinson of RSB provided content review. Staff of the Data Acquisition and Evaluation Branch carried out quality evaluation and acceptance procedures for the State data files on which this report is based. The Registration Methods staff of the Division of Vital Statistics consulted with State vital statistics offices regarding the collection of birth certificate data. This report was edited by Demarius V. Miller and typeset by Jacqueline M. Davis of the Publications Branch, Division of Data Services.

Centers for Disea se Control and Prevention National Center for Health Statistics

The birth rate for teenagers continued to decline in 1996, falling 4 percent to 54.4 births per 1,000 women aged 15-19 years. The rate for young teenagers 15-17 years declined 6 percent to 33.8 per 1,000 , while the rate for older teenagers 18-19 years declined 3 percent to 86.0. During 1991-96, the rate for ages 15-19 years dropped 12 percent, while rates for teenagers $15-17$ and 18-19 years fell 13 and 9 percent, respectively. Birth rates for teenagers 15-19 years declined for all racial and Hispanic subgroups except Cubans, with particularly large reductions for non-Hispanic black teenagers- 5 percent overall for 1995-96. During the 1991-96 period, the rate for non-Hispanic black teenagers dropped 21 percent. Teenage birth rates fell significantly in all but 3 States during 1991-96. The reductions in U.S. teenage birth rates together with recently reported declines in abortions among teenagers indicate that the teenage pregnancy rate has continued to fall in the 1990's.

Birth rates for women in their twenties, the peak childbearing ages, increased in 1996 for the first time since 1990. The rate for women aged 20-24 years rose 1 percent to 110.4 per 1,000 , while the rate for women aged 25-29 years rose 1 percent to 113.1 per 1,000 . Birth rates for women in their twenties have been relatively stable over the past two decades; this age group accounts for 52 percent of all births.

## Birth rates for women in their thir-

 ties increased $2-3$ percent in 1996, to 83.9 per 1,000 for women aged $30-34$ years, and to 35.3 for women aged 35-39 years. These rates have risen almost without interruption since the mid-to-late 1970's. However, the pace of increase has slowed in the 1990's, especially for women aged 30-34 years. The birth rate for women aged 40-44 also increased in 1996, to 6.8 per 1,000 .The first birth rate declined in 1996 to its lowest level ever, 26.8 first births per 1,000 women aged 15-44 years. Among teenagers, first birth rates as well as rates for second and third order births (that is, repeat childbearing) declined considerably.

The birth rate for unmarried women in 1996 was 44.8 births per 1,000 unmarried women aged 15-44 years,

1 percent lower than in 1995 and 4 percent lower than its highest level, 46.9 in 1994. The number of births to unmarried women increased 1 percent to $1,260,306$ in 1996, while the percent of all births occurring to unmarried women rose slightly to 32.4 percent. The birth rate for unmarried non-Hispanic white women increased slightly, while the rates for unmarried black and Hispanic women each declined 2 percent, with the rate for black women reaching a record low. The birth rate for unmarried teenagers fell 3 percent in 1996 to 42.9 per 1,000, down 8 percent from its 1994 high, 46.4.

Cigarette smoking during pregnancy continued to decline in 1996, to 13.6 percent of women giving birth. Tobacco use during pregnancy has fallen steadily since 1989. However, smoking among pregnant teenagers increased in 1996, with particularly large increases among teenagers $15-17$ years; 15.4 percent were reported to have smoked in 1996, up 5 percent compared with 1995. Increases were also particularly large for Mexican, Puerto Rican, and non-Hispanic black teenagers $15-17$ years. In general, smoking rates are lowest for Hispanic and Asian or Pacific Islander women. Maternal smoking has a strong adverse impact on infant birthweight. In 1996, 12.1 percent of births to smokers compared with 6.9 percent of births to nonsmokers weighed less than 2,500 grams ( 5 lb 8 oz ).

The proportion of women with timely prenatal care rose for the seventh consecutive year, climbing to 81.9 percent from 81.3 percent for 1995 , and the percent of women with late or no care declined from 4.2 to 4.0 percent. Timely care has risen for all racial and ethnic groups during the 1990's, and improvement has been especially noteworthy among non-Hispanic black, Mexican, Puerto Rican, and Central and South American mothers.

Data on method of delivery show that the rate of cesarean delivery declined for the seventh consecutive year, and was 9 percent lower in 1996 ( 20.7 percent) than in 1989 ( 22.8 percent). The primary cesarean rate was also 9 percent lower in 1996 than in 1989 (14.6 first cesareans per 100 women who had no previous cesarean in 1996 compared with 16.1 in
1989). The rate of vaginal birth following a previous cesarean delivery (VBAC) was 50 percent higher in 1996 (28.3) than in 1989 (18.9). Cesarean rates increased steadily with advancing age of mother and were more than twice as high for mothers in their forties (31.6) as for teenagers (14.5). The percent of births delivered by forceps continued to decline ( 3.2 percent in 1996), while the use of vacuum extraction rose ( 6.2 percent in 1996).

The number of twins born in 1996 increased 4 percent ( 100,750 compared with 96,736 for 1995), while higher order multiple births rose 19 percent to an unprecedented 5,939 (nearly 1,000 more compared with 4,973 in 1995). For comparison, there were approximately 1,000 total higher order multiple births in each year during the 1970's. The higher order multiple birth total included 5,298 triplets, 560 quadruplets, and 81 quintuplets and other higher order multiples. The twinning rate grew by 4 percent (from 24.8 to 25.9 per 1,000 ) and higher order multiple birth rate by 20 percent (from 127.5 to 152.6 per 100,000 ) for $1995-96$. Since 1980, the twinning rate has risen slightly more than a third (from 18.9 per 1,000 ) and the higher order multiple birth rate has quadrupled (from 37.0 per 100,000).

The percent of babies born preterm, i.e., at less than 37 completed weeks of gestation was unchanged in 1996, at 11.0 percent. The preterm rate rose fairly steadily from 1981 (9.4 percent), but has not improved since 1993. The rate increased for births to nonHispanic white mothers for 1995-96, but declined among births to non-Hispanic black mothers ( 17.8 to 17.5 percent), and was unchanged for Hispanic mothers. Most of the rise in preterm births to non-Hispanic white mothers can be attributed to increases in multiple births among these women. (Multiple births are at greater risk of preterm delivery.)

The low-birthweight (LBW) rate rose to 7.4 percent for 1996 from 7.3 percent for 1995. The percent LBW has risen 10 percent since 1984, from 6.7. Most of the increase in LBW for the current year is attributable to the rise in LBW among births to non-Hispanic white women (from 6.2 to 6.4 percent) and to the growth in
the multiple birth rate among these women. Low birthweight for births to non-Hispanic black mothers declined from 13.2 to 13.1 percent for 1995-96, and has decreased from 13.4 since 1993. LBW was stable among births to women of Hispanic origin at 6.3 percent for the current year.

## Introduction

This report presents detailed data on numbers and characteristics of births in 1996, 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 outcomes. Information on use of prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth and place of delivery, and method of delivery by maternal demographic characteristics can also help to explain differences in birth outcomes. It is very important that data on birth outcomes, especially levels of low birthweight and preterm birth, be continuously monitored, because these variables are important predictors of infant mortality and morbidity.

A report of preliminary birth statistics for 1996 presented data on selected topics based on a substantial sample (about 94 percent) of the 1996 birth file (1). The selected measures included birth rates by age, race, and Hispanic origin of mother, and by live-birth order, and summary national and State data on marital status, prenatal care, cesarean delivery, and low birthweight. Findings based on the complete file in this report are essentially identical to those based on the preliminary series, thus validating the preliminary statistics.

The tabulations in this release of birth statistics for the Nation have been extensively redesigned for the 1996 data year. New tables have been added showing data by Hispanic origin of the mother. In most cases, data are shown for the following minimum categories: Hispanic, non-Hispanic white, and non-Hispanic black. In addition, several tables provide data separately for Hispanic subgroups: Mexican, Puerto Rican, Cuban, Central and South American, and other and unknown Hispanic. Other tables provide data for racial and ethnic subgroups: American Indian, Chinese, Japanese, Filipino, Hawaiian, and other Asian or Pacific Islander.

Although the overwhelming majority of Hispanic-origin births are to white women ( 97 percent in 1996), there are notable differences in childbearing patterns between Hispanic women and nonHispanic white women. Thus, it is important to present data and trends for these groups separately. In addition, there are sizable differences in fertility patterns between women born in the 50 States and the District of Columbia and women born elsewhere. Therefore, several of the tables that present data for Hispanic births and for Asian or Pacific Islander births also show statistics separately according to the mother's place of birth.

Birth data by race and Hispanic origin are presented in several different ways in the tables. Race and Hispanic origin are reported independently on the birth certificate. In tabulations by race only, data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race (data for fathers are tabulated according to the father's race). In tabulations of birth data by race and Hispanic origin, data for Hispanic persons are not further classified by race because as noted above, the vast majority of births to Hispanic women are reported as white. In these tabulations, data for non-Hispanic persons are classified according to the race of the mother, because there are substantial differences in fertility and maternal and infant health between Hispanic and non-Hispanic white women.

Data for Hispanic subgroups are shown in most cases for five groups: Mexican, Puerto Rican, Cuban, Central
and South American, and other and unknown Hispanic. The category "other and unknown Hispanic" includes births to women from Spain, births to "U.S. Southwest" women in New Mexico, and births for whom the Hispanic origin group was not further specified. Tables providing birth rates for Hispanic subgroups present rates for the category "other Hispanic," which includes all births to Central and South American and other and unknown Hispanic women. These groups are combined because more detailed population data are not available.

Trend tables have been introduced to provide data by Hispanic origin for the period 1989-95, the years for which this information is generally complete (2). Text discussions of trends focusing on this recent period are based on data tabulated by race and Hispanic origin in most cases. For longer-term trends, the discussions are based on data tabulated by race only. In these cases, births to Hispanic women are tabulated according to the mother's race; as noted above, 97 percent of Hispanic births were to white women in 1996. Also included in this report for the first time are State-specific teenage birth rates and total fertility rates for 1996.

## Methods

Data shown in this report are based on 100 percent of the birth certificates registered in all States and the District of Columbia. More than 99 percent of births occurring in this country are registered (3). Tables showing data by State also provide separate information for Puerto Rico, Virgin Islands, and Guam; however, data for these areas are not included in totals for the United States.

In this report, tabulations of births beginning with 1980 data are by race of mother; for years prior to 1980, tabulations are by race of child. Details of the differences in tabulation procedure are described in the Technical notes. Race and ethnicity differentials in birth rates and characteristics of births reflect a variety of factors, including 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.
U.S. and State-level birth and fertility rates in this report were computed on the basis of population denominators provided by the U.S. Bureau of the Census. Rates by State shown in this report may differ from rates computed on the basis of other population estimates. Additional information on the measurement of marital status, gestational age, and birthweight; the computation of derived statistics and rates; population denominators; random variation and relative standard error; and the definitions of terms are presented in the Technical notes.

Information on births by age, race, and marital status of mother is imputed if it is not reported on the birth certificate. These items were not reported for less than 1 percent of U.S. births in 1996. (See Technical notes for additional information.) Other maternal and infant characteristics are not imputed. Levels of nonreporting vary substantially by specific item. Table I in the Technical notes provides information on the percent of records with missing information for each item by State for 1996.

## Demographic characteristics

## Births and birth rates

Births in the United States declined very slightly in 1996 , to $3,891,494$, less than 1 percent fewer than in 1995 $(3,899,589)$. Between 1990 , the most recent high point in U.S. births, and 1996, total births dropped 6 percent (table 1 and figure 1). The 1996 total is the lowest recorded in any year since 1987. According to provisional data for the first 11 months of 1997, births have continued to fall slightly. Prior to this recent decline, U.S. births had increased 11 percent between 1986 and 1990.

The birth rate in 1996 was 14.7 live births per 1,000 total population, slightly lower than the rate in 1995 (14.8), and 12 percent lower than in 1990 (16.7). The 1996 rate is the lowest reported in two decades (14.6 in 1976). Like the total number of births, the decline in the birth rate in the 1990's followed a steady increase of 7 percent overall between 1986 and 1990. Provisional data for the first 11 months of 1997 suggest a continued decline in the birth rate.


NOTES: 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, 1930-96

The fertility rate, which relates births to the number of women in the childbearing ages, was 65.3 live births per 1,000 women aged 15-44 years in 1996, less than 1 percent below the 1995 rate (65.6). The fertility rate for 1996 was 8 percent below the rate in 1990 (70.9), and lower than for any year since 1976 (65.0). The decline in the fertility rate in the 1990's followed an 8 percent rise from 1986 to 1990. Provisional data for the first 11 months of 1997 indicate a continued decline in the fertility rate.

## Age of mother

Birth rates by age of mother fell 3 to 8 percent for teenagers and increased 1 to 3 percent for women in age groups 20-44 years. The rate for women aged 45-49 years was unchanged. The peak ages for birth rates continue to be ages 20-24 and 25-29 years, followed by older teenagers 18-19 years and women in their early thirties. Rates for younger teens and women 35 years and older are considerably lower. (See tables 2-9 and figure 2 for births and birth rates by age of mother, live-birth order, race, and Hispanic origin.)

Teenagers-The birth rate for the youngest teenagers was 1.2 births per 1,000 females aged 10-14 years in 1996, compared with 1.3 per 1,000 in 1995 and 1.4 per 1,000 in 1994. Prior to 1994 , this rate had held steady at 1.4 since 1989 ,
after rising slowly beginning in 1984. The number of births to $10-14$ year-olds also fell in 1996, to 11,148 ( 9 percent fewer compared with 12,242 in 1995). The decline in the number of births to very young teenagers occurred solely as a result of the reduction in the birth rate; the number of female teenagers increased slightly between 1995 and 1996 (4,5).

The birth rate for teenagers $15-19$ years fell 4 percent to 54.4 per 1,000 . This rate was 12 percent lower than the rate in 1991 (62.1) (table A). Although the birth rate for teenagers has fallen steadily in the 1990 's, it is still higher than it was during the years 1976-88, when the rate ranged from 50.2 to 53.0. The recent declines in the teenage birth rate follow a period of sharp increase from 1986 to 1991 when the rate rose 24 percent. State-specific birth rates for teenagers are discussed in the next section, "Births and birth rates by State."

Birth rates for teenage subgroups 15-17 and 18-19 years also fell between 1995 and 1996. The rate for teenagers 15-17 years declined 6 percent, from 36.0 to 33.8 per 1,000 . This rate fell by 13 percent from 1991 to 1996, following a 27-percent rise from 1986 to 1991 (table 4). Despite the recent reductions, the rate for 15-17 year-olds in 1996 was higher than it was from 1978 to 1988. The number of births to teenagers $15-17$


Figure 2. Birth rates by age of mother: United States, 1960-96
Table A. Birth rates for teenagers by age, race, and Hispanic origin of mother: United States, 1991, 1995, and 1996
[Rates per 1,000 women in specified group]

|  | Year and age | Total ${ }^{1}$ | Non-Hispanic |  | Hispanic |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | White | Black |  |
| 10-14 years |  |  |  |  |  |
| 1996 |  | 1.2 | 0.4 | 3.8 | 2.6 |
| 1995. |  | 1.3 | 0.4 | 4.3 | 2.7 |
| $1991{ }^{2}$ |  | 1.4 | 0.5 | 4.9 | 2.4 |
| 15-19 years |  |  |  |  |  |
| 1996 |  | 54.4 | 37.6 | 94.2 | 101.8 |
| 1995. |  | 56.8 | 39.3 | 99.3 | 106.7 |
| $1991{ }^{2}$ |  | 62.1 | 43.4 | 118.9 | 106.7 |
| 15-17 years |  |  |  |  |  |
| 1996. |  | 33.8 | 20.6 | 66.6 | 69.0 |
| 1995. |  | 36.0 | 22.0 | 72.1 | 72.9 |
| $1991{ }^{2}$ |  | 38.7 | 23.6 | 86.7 | 70.6 |
| 18-19 years |  |  |  |  |  |
| 1996 |  | 86.0 | 63.7 | 136.6 | 151.1 |
| 1995. |  | 89.1 | 66.1 | 141.9 | 157.9 |
| $1991{ }^{2}$ |  | 94.4 | 70.5 | 163.1 | 158.5 |

${ }^{1}$ Includes races other than white and black and origin not stated.
${ }^{2}$ See Technical notes for information on reporting areas in 1991.
years fell 4 percent from 1995 to 1996 to 185,721 . This decline resulted from the 6 percent drop in the birth rate that was more than enough to compensate for the 3 percent rise in the number of female teenagers in this age group (4). The number of female teenagers $15-17$ years is projected to increase by 5 percent between

1996 and 2000 (6).
The birth rate for older teenagers 18-19 years declined 3 percent, from 89.1 to 86.0 per 1,000 . This rate fell 9 percent from 94.5 in 1992 (its recent high) to 1996. The birth rate for older teenagers rose 20 percent between 1987 and 1992. The rates for this age group were lower
from 1976 through 1989 compared with 1996. The number of births to older teenagers dropped slightly in 1996 to 305,856 (compared with 307,365 ). The decline was modest because the 3 percent drop in the birth rate was concurrent with a 3 percent increase in the number of female teenagers aged 18-19 years (4). The number of births to teenagers will continue to decline over the next few years only so long as there are continued reductions in teenage birth rates which at least equal the projected increases of $5-10$ percent in the number of female teenagers between 1996 and 2000 (6).

A number of demographic and behavioral factors may help to explain the recent declines in teenage birth rates. Changes have occurred in teenage sexual activity according to the 1995 National Survey of Family Growth (NSFG), a nationally representative sample survey of women aged 15-44 years conducted by the National Center for Health Statistics. Compared with findings from the 1988 NSFG, the 1995 NSFG showed that the proportion of teenagers who are sexually experienced has stabilized, reversing the steady increases over the past two decades. Moreover, those teenagers who are sexually experienced are more likely to be using contraceptives, especially condoms $(7,8)$.

Teenage pregnancy rates have also declined in recent years. The recent decline in the birth rate has been accompanied by declines in the abortion rate (9). The pregnancy rate for teenagers 15-19 years fell 8 percent from 116.5 per 1,000 in 1991 to 107.6 in 1994, following an 11 percent rise from 1986 to 1991 $(10,11)$. Further declines in the teenage pregnancy rate since 1994 are indicated by the steady decline in the teenage birth rate and declines in abortions among teenagers, according to preliminary data (12).

Women aged 20 years and over: Women in their twenties-Birth rates for women aged 20-24 and 25-29 years, the principal childbearing ages, increased in 1996 for the first time since 1990. The rate for women aged 20-24 years rose 1 percent to 110.4 per 1,000 , while the rate for women aged 25-29 years rose 1 percent to 113.1 per 1,000 . The rates for women in their twenties have been relatively stable, varying within a narrow range, over the past two decades. The rate
for women aged 20-24 years varied from a low of 106.8 (1984) to a high of 116.5 (1990). Similarly, the rate for women aged 25-29 years ranged from a low of 106.2 (1976) to a high of 120.2 in 1990. As recently as 1970 , the rates for women in their twenties were substantially higher than in 1996 ( 167.8 for ages 20-24 years and 145.1 for ages 25-29 years) (table 4).

Women in their thirties and overBirth rates for women in age groups $30-44$ years rose 2 to 3 percent in 1996. Rates for women in these age groups have generally increased steadily since the late 1970's, a pattern unlike any other age group (table 4). The rate for women aged 30-34 years rose 2 percent in 1996 to 83.9 per 1,000 . Except for slight declines in 1981 and 1991, this rate has increased annually since 1975 (52.3), with an overall increase of 60 percent. Most of this increase (54 percent) occurred between 1975 and 1990; the increase since 1990 totaled just 4 percent. The number of births to women aged 30-34 years fell slightly for the second consecutive year, because the increase in the birth rate was not enough to compensate for the decline in the number of women (4). Continued declines are projected in the number of women in this age group over the next few years; therefore, without a larger increase in the birth rate, the number of births is likely to decline further (6).

The birth rate for women in their late thirties increased 3 percent to 35.3 per 1,000 women aged $35-39$ years. This rate has increased without interruption since 1978 (19.0), with an overall increase of 86 percent, most of which occurred from 1978 to 1990 . The pace of increase slowed in the 1990's; still the rate rose 11 percent from 1990 (31.7) to 1996. Because the birth rate and the number of women each increased, the number of births to women aged 35-39 years rose again in 1996, to a record high 399,510 (4).

The birth rate for women aged 40-44 years increased from 6.6 per 1,000 to 6.8 in 1996. This rate rose 24 percent from 1990 (5.5) to 1996. From 1981 to 1996, the rate increased by 79 percent; the 1996 rate is the highest recorded since 1971 (7.1). As a result of the increases in the birth rate and in the number of women aged 40-44 years (4), the number of
births in this age group rose 7 percent to 71,804 , higher than in any year since 1966. The birth rate for women aged 45-49 years was unchanged in 1996 at 0.3 births per 1,000 . The number of births to women in this age group rose 12 percent from 2,727 to 3,045 .

Although sustained increases in birth rates have been most long-lasting for women aged 30 years and over (13), the pace of increase has slowed since 1990, especially for women aged 30-34 years (table 4). A number of factors have contributed to this moderated trend. One is that the proportion of women in their early thirties who are childless has stabilized in the 1990's at about 20 percent, after essentially doubling from the early 1970's to $1990(3,14)$. Among currently married, childless women, the proportion reporting that they expect to have at least one child fell in the 1990 's, possibly reflecting a more realistic perception as to whether their expectations can be achieved (15). About 40 percent of currently childless women aged 35-44 years have impaired fertility according to the 1995 NSFG $(7,16)$. This fact may explain the recent changes in both birth expectations and birth rates.

Births to women aged 50 years and over-Over the last several years, a small number of women have given birth at age 50 years and over. Since 1964, mother's age has been edited for ages 10-49 years. Births reported to have occurred to women aged 50 years or over have had age imputed according to the age of the mother from the previous birth record with the same race and total birth order (sum of live births and fetal deaths). These procedures were based on the findings of a study of birth records for 1962, which found that the vast majority of the records with the mother's age reported as 50 years or over were coded in error (17). Because of the recent advances in fertilityenhancing therapies, an increasing number of women are giving birth at age 50 years and over. To estimate the number of these women, a limited analysis was conducted of unedited 1996 birth certificates with the mother's age reported or computed from her date of birth as 50 years or over. Although it was not possible to verify independently the reported age for these records, based on this analysis, there
were approximately 100 women in this category. It is anticipated that the procedures for editing age of mother will be modified for the 1997 data year to take into account these recent developments in childbearing among older women.

## Live-birth order

The first birth rate dropped 2 percent to 26.8 first births per 1,000 women aged $15-44$ years (table 5). This was the lowest level ever recorded. The first birth rate dropped 8 percent compared with 1990 (29.0), its recent high point. Birth rates were unchanged for second, third, fifth, sixth, seventh, and eighth and higher order births. The rate for fourth births rose from 4.0 to 4.1 per 1,000 .

While the first birth rate declined 2 percent overall, there were substantial differences in the trends by age of mother (tabular data not shown for 1995 and earlier years). Rates declined for teenage subgroups by 4 to 8 percent; reductions were larger for the youngest teenagers. The first birth rate declined 1 percent for women aged 20-24 years and was unchanged for women aged 25-29 years. In contrast, first birth rates rose 2 and 4 percent, respectively, for women aged 30-34 and 35-39 years. Reflecting these variations by age, the proportion of all first births occurring to women aged 30 years and over remained high in 1996, at 22 percent, compared with just 5 percent in 1975.

Although rates for second and third order births were unchanged overall, these rates fell for teenagers by $2-6$ percent on average. Thus, rates for first-time as well as repeat childbearing declined for teenagers in 1996. Second and third order rates increased for women in age groups 20 years and over. There was no particular pattern in the changes in rates for fourth and higher order births for women aged 20 years and over; generally rates increased slightly or were unchanged.

## Race and Hispanic origin

The number of births to nonHispanic white and black women declined by 1 and 2 percent, respectively, in 1996. Increases were reported for most other race/Hispanic origin groups (tables 1 and
6). American Indian births increased 2 percent while Asian or Pacific Islander (API) births rose 3 percent. Overall, Hispanic births increased 3 percent, with Mexican births rising 4 percent and Central and South American births increasing 3 percent. Cuban and Puerto Rican births increased up to 1 percent.

Fertility rates declined 1 percent for non-Hispanic white women (57.3 per 1,000 ) and 3 percent for non-Hispanic black women (72.5). Rates also fell by 1 percent each for American Indian (68.7 per 1,000 ) and API women (65.9). The overall fertility rate for Hispanic women declined very slightly to 104.9 per 1,000 . Rates rose 2 percent for Mexican women (to 119.3) and 7 percent for Cuban women (to 58.9). The rate for Puerto Rican women declined 6 percent to 71.3 per 1,000. The rate for "other" Hispanic women (which includes all births to Central and South American and other and unknown Hispanic women) declined 5 percent to 90.2.

During the years 1990-96, the fertility rate for non-Hispanic white women declined 9 percent, and for non-Hispanic black women, it declined 19 percent. The rates for American Indian and API women declined 10 and 5 percent, respectively. Overall, the fertility rate for Hispanic women declined 3 percent between 1990 and 1996. The rates for Mexican and Cuban women generally increased whereas rates for Puerto Rican and "other" Hispanic women declined. Current trends in fertility for Hispanic women are presented in more detail in a recent report (2).

There is a distinctive pattern in the levels of the age-specific birth rates by race and Hispanic origin and the rates vary substantially (tables $3,4,8$, and 9 ). Among teenagers 15-19 years, rates are highest for Mexican teenagers ( 120.7 per 1,000 in 1996), followed by nonHispanic black (94.2), Puerto Rican (82.3), and American Indian teenagers ( 73.9 per $1,000)$. The rates for non-Hispanic white (37.6), Cuban (34.0), and API (24.6) teenagers are considerably lower. Among teenage subgroups $15-17$ and 18-19 years, the patterns were generally similar to those for all teenagers 15-19 years. Rates were highest for Mexican teenagers and
lowest for API teenagers. These relationships were observed in each year, 1994-96. Prior to 1994, birth rates had been highest for non-Hispanic black teenagers.

Between 1995 and 1996, teenage birth rates declined for all groups except Cuban teenagers, for whom the rate increased from 29.2 to 34.0 per 1,000. The declines were 3 and 4 percent, respectively, for Mexican and non-Hispanic white teenagers. Other declines were 5 percent for non-Hispanic black and American Indian teenagers, 6 percent for API, 8 percent for Puerto Rican, and 10 percent for "other" Hispanic teenagers. From 1991, when rates for teenagers generally were at a peak, to 1996, birth rates fell 20 to 21 percent for non-Hispanic black, Puerto Rican, and "other" Hispanic teens. Declines were 10 to 13 percent in rates for non-Hispanic white, American Indian, and API teenagers.

Birth rates for women in age groups 20-24 and 25-29 years were consistently highest for Mexican women. For example, the rate for Mexican women aged 20-24 years, 206.3 per 1,000 , was nearly 3 times the rate for API women in this age group (70.7). Differences between rates were smallest at ages $25-29$ years, when the range was from 98.5 (American Indian) to 176.9 (Mexican). Among women aged 30-34 and 35-39 years, rates were highest for API women (109.2 and 52.2 , respectively), followed closely by Mexican and "other" Hispanic women (tables 3 and 8).

The high birth rates for API women in their thirties, especially for first births, suggest a pattern of delayed childbearing. The first birth rates for API women aged 30-34 and 35-39 years were substantially higher than for any other group. More than one-third of first births to API women were to women aged 30 years and over, compared with 22 percent for all first births. Age-specific birth rates for API subgroups can be computed only in census years when the necessary populations are available. Rates computed for 1990 demonstrated the pattern of delayed childbearing among Chinese, Japanese, Filipino, and other API women (18). Limited data for API subgroups included in the "other API" category (Vietnamese, Asian

Indian, Korean, Samoan, Guamanian, and remaining API) suggest delayed childbearing among some subgroups, but also considerable variation in maternal age distributions as well (19).

With few exceptions, among women in age groups 20 years and over, birth rates increased between 1995 and 1996 for non-Hispanic white, Mexican, and American Indian women. There was no particular pattern in the age-specific rates for other racial/Hispanic origin groups.

## Total fertility rate

The total fertility rate (TFR) indicates the number of births that a hypothetical group of 1,000 women would have if they experienced throughout their childbearing years the age-specific birth rates observed in a given year. This measure shows the potential impact of current fertility patterns on completed family size. Because it is computed from age-specific birth rates, the TFR is age-adjusted; it assumes the same number of women in each age group.

The TFR in 1996 was $2,027.0$, less than 1 percent higher than in 1995 (tables 4, 9, 13, and 14). The increase from 1995 to 1996 was the first in the TFR since $1990(2,081.0)$, when the rate was 3 percent higher than in 1996. The increase in the TFR results from the rise in age-specific birth rates for all women in age groups 20-44 years, which more than compensated for the declines in the teenage birth rates.

The U.S. total fertility rate remains below "replacement" level $(2,100)$, the rate at which a given generation can exactly replace itself. The TFR has been below 'replacement" since 1971 (2,266.5). TFR's vary substantially among racial and Hispanic origin groups. In 1996, as in recent years, the TFR was above "replacement" for Mexican $(3,353.5)$, "other'" Hispanic (2,762.0), nonHispanic black (2,204.0), and Puerto Rican women (2,163.0). Rates were below replacement for American Indian (2,030.0), API (1,907.5), non-Hispanic white (1,795.5), and Cuban women (1,774.5) (tables 4, 9, 13, and 14). Between 1995 and 1996, TFR's increased up to 4 percent for Mexican, Cuban, and
non-Hispanic white women, and declined for other groups. State-specific total fertility rates for 1996 are included in this report and discussed in the next section.

## Births and birth rates by State

Birth data by race and by Hispanic origin for 1996 are shown in tables 10-12 for the 50 States and the District of Columbia, Puerto Rico, the Virgin Islands, and Guam. The American Indian, Asian or Pacific Islander (API) and Hispanic populations (and Hispanic subgroups) are highly concentrated geographically. Half of American Indian births in the 50 States and the District of Columbia were to residents of just five States (Alaska, Arizona, California, New Mexico, and Oklahoma), while more than half of API births were to residents of California, Hawaii, and New York. Similarly, 57 percent of Hispanic births were to California and Texas residents. Births are also highly concentrated geographically for Hispanic subgroups: Mexican (California and Texas), Puerto Rican (New York, New Jersey, and Florida), and Cuban (Florida).

Births declined in 25 States and the District of Columbia, Puerto Rico, and the Virgin Islands, and increased in 25 States and Guam. Declines and increases were generally modest; they ranged up to 2 percent in 41 States, Puerto Rico, and Guam. The number increased 4 to 6 percent in Arizona, Nevada, and Utah, and declined 7 percent in the District of Columbia and 8 percent in the Virgin Islands.

Birth rates by State ranged from 11 births per 1,000 population (Maine and West Virginia) to 21 per 1,000 (Utah). Birth rates per 1,000 total population declined in 33 States, the District of Columbia, Puerto Rico, and the Virgin Islands, increased in 10 States and Guam, and were unchanged in 7 States; changes were no more than 3 percent in most States. Statistically significant declines of 4 to 6 percent were recorded for Montana and the District of Columbia and 9 percent in the Virgin Islands. However, the changes were not significant in 34 States and Guam.

Fertility rates per 1,000 women aged 15-44 years ranged from a low of 49.5 (Maine) to a high of 89.0 (Utah). Rates declined in 26 States, the District of

Columbia, Puerto Rico, and the Virgin Islands, increased in 21 States and Guam, and were unchanged in 3 States. Changes in most States were no more than 3 percent, with statistically significant declines of 5 and 8 percent, respectively, for the District of Columbia and the Virgin Islands. The changes were not significant in 37 States and Guam.

## Birth rates for teenagers

Birth rates for teenagers by age group and State are shown for 1996 in table 10. Rates per 1,000 women aged 15-19 years ranged from 28.6 (New Hampshire) to 102.1 (District of Columbia). The highest rate was reported for Guam, 116.8. Birth rates for teenagers have been declining in the United States since 1991. Between 1991 and 1996, teenage birth rates fell in all States and the District of Columbia and the Virgin Islands; declines were statistically significant in all but 3 States (Delaware, North Dakota, and Rhode Island). More detailed information on current trends and variations in State-specific teenage birth rates is presented in a recent report (11).

## Total fertility rate

State-specific total fertility rates (TFR's) for 1996 are shown in table 10. These rates provide a summary measure of lifetime fertility at the State level; rates for 1980 and 1990 have been published $(20,21)$. Rates by State for 1996 vary substantially, from a low of 1,580.0 (or 1.58 births per woman) for Vermont to a high of 2,656.0 (2.66 births per women) for Utah. Differences in the TFR by State are quite similar to differences in the general fertility rate.

## Sex ratio

There were $1,990,480$ male live births in 1996 compared with $1,901,014$ female live births. These numbers yielded a sex ratio of 1,047 male per 1,000 female live births (tables 13 and 14). The sex ratio has changed very little over the last 50 years and was 1,049 in 1995. Similar to previous years, Asian or Pacific Islander mothers had the highest sex ratio $(1,061)$, followed by non-Hispanic white mothers $(1,053)$, Hispanic mothers $(1,041)$,

American Indian mothers $(1,031)$, and non-Hispanic black mothers $(1,027)$.

## Month of birth

Monthly birth rates and fertility rates in 7 months of 1996 were below the rates for the same month observed in 1995. The peak months of occurrence of births in 1996 as measured by birth rates were August and September (table 15). When the seasonal component is removed from the monthly birth and fertility rates, the underlying trends can be observed. Unlike the previous 6 years, seasonally adjusted birth and fertility rates for the first half of 1996 were, on average, lower than the rates for the second half of the year. All months except for April, July, October, and December had the lowest seasonally adjusted birth rates in at least 20 years. The rate for June 1996 was the lowest observed in the more than 60 years for which monthly seasonal adjustments are available (3,22).

## Day of the week of birth

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 1996 the Sunday index was 74.8 , an indication that there were over 25 percent fewer births on Sundays than the daily average, considered to be 100.0. The Saturday index was 82.5 . As in past years, births occurred most frequently on Tuesdays with an index of 111.9 in 1996 (table 16).

A weekend deficit is apparent for both vaginal and cesarean deliveries, but is far larger for cesarean deliveries, particularly repeat cesareans. In 1996 the Sunday index for vaginal births was 79.7, compared with 66.2 for primary, and 39.0 for repeat cesareans (table 16).

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 (23). However, in the late 1980's, the cesarean rate stabilized (24), and since 1989 it has declined. The high weekend deficit can be partly explained by the growing
proportion of births that are induced. (See section on "Obstetric procedures.")

## Births to unmarried women

The birth rate for unmarried women in 1996 was 44.8 births per 1,000 unmarried women aged 15-44 years, 1 percent lower than the rate of 45.1 in 1995, and 4 percent lower than its highest level, 46.9 in 1994. The number of births to unmarried women increased 1 percent, to $1,260,306$ in 1996. The percent of all births occurring to unmarried women increased slightly, from 32.2 percent in 1995 to 32.4 percent in 1996. (See table B and tables 17 and 18.) The procedures for reporting the mother's marital status did not change in any State between 1995 and 1996; thus the changes measured between 1995 and 1996 reflect actual changes in nonmarital childbearing.

Birth rates for unmarried women vary considerably by race and Hispanic origin. In 1996 the rates per 1,000 unmarried women were 28.3 per 1,000 for nonHispanic white women, 74.4 for black women, and 93.2 for Hispanic women.

The birth rate for unmarried nonHispanic white women increased very slightly from 28.2 in 1995 to 28.3 per 1,000 . The rate in 1996 was 1 percent lower than in 1994 (28.5), the first year for which rates could be computed for unmarried non-Hispanic white women. The birth rate for unmarried black women declined 2 percent from 75.9 per 1,000 in 1995 to 74.4 in 1996, a record low. This rate has declined steadily and
substantially—by 18 percent-since 1989 (90.7). The birth rate for unmarried Hispanic women in 1996, 93.2 per 1,000, was 2 percent lower than in 1995 (95.0). Except for a 1-year surge in the rate between 1993 and 1994, birth rates for unmarried Hispanic women ranged from 93 to 95 per 1,000 since 1991 (table 18) (2).

Birth rates for unmarried women by age continue to be highest for women aged 18-19 and 20-24 years ( 71 and 66 per 1,000 , respectively), followed closely by women aged $25-29$ years ( 57 per $1,000)$. Rates for younger teenagers and women in age groups 30 years and over are considerably lower (tables 17 and 18).

The birth rate for unmarried teenagers 15-19 years declined 3 percent to 42.9 per 1,000 (figure 3 ). The teenage rate dropped 8 percent from its high point in 1994 (46.4 per 1,000). The largest 1year reduction was for young teenagers 15-17 years; their rate declined 5 percent from 30.5 per 1,000 to 29.0. The rate for older teenagers fell 3 percent to 65.9. Rates for women in their twenties increased 1 percent each, to 70.7 for women aged 20-24 years and to 56.8 for women aged 25-29 years. Rates for women in their thirties increased 3 to 4 percent, to 41.1 (ages $30-34$ years) and 20.1 (ages 35-39 years), while the rate for women aged 40-44 years increased from 4.7 to 4.8 per 1,000.

The 1995-96 trends in age-specific birth rates by race and Hispanic origin were generally similar to those for all

Table B. Number, rate, and percent of births to unmarried women, and birth rate for married women: United States, 1980 and 1985-96

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

${ }^{1}$ Births to unmarried women per 1,000 unmarried women aged 15-44 years.
${ }^{2}$ Percent of all births to unmarried women.
${ }^{3}$ Births to married women per 1,000 married women aged 15-44 years.
women. Rates declined for unmarriednonHispanic white, black, and Hispanic teenagers, with the largest reductions measured for young black teenagers. Their rate fell 7 percent to 64.0 per 1,000 teenagers 15-17 years; from 1991 to 1996, the rate for young black teenagers dropped 20 percent. Among unmarried women aged 20-24 years, the rate for non-Hispanic white women increased 2 percent from 1995 to 1996 while it declined 1 to 2 percent for black and Hispanic women. Birth rates for unmarried women in age groups 25 years and over generally rose for all groups.

There is a distinct pattern in the age-specific rates among the race and Hispanic origin groups. Among teenagers and women aged 20-24 years, rates for unmarried black and Hispanic teenagers on average were 3 to 4 times the rates for non-Hispanic white teenagers. Among age groups 25-29 years and over, rates were considerably higher for Hispanic women than for black or non-Hispanic white women.

It is the sharply higher nonmarital birth rates for older unmarried Hispanic women that is the principal factor accounting for their high overall birth rate. Part of this pattern is linked with the relatively high incidence of cohabitation among Hispanic couples. Birth certificate data provide evidence of this for Puerto Rican couples. In 1996, 44 percent of births to Puerto Rican women in Puerto Rico were nonmarital, but three-quarters of these nonmarital births were to women living with the father of the child. Other studies have documented increases in cohabitation in recent years in the United States and Puerto Rico $(25,26)$.

The proportion of all births occurring to unmarried women increased slightly from 32.2 to 32.4 percent in 1996. The proportions for subgroups in 1996 were 21.5 percent, non-Hispanic white; 70.0 percent, non-Hispanic black; and 40.7 percent, Hispanic; each changed very little compared with 1995 (tables 13, 14, 17, and 19).

Changes in the proportion of births to unmarried women are affected by trends in birth rates for married as well as unmarried women, and the number of unmarried women. While the birth rate for unmarried women increased considerably over the last two decades and has


Figure 3. Birth rates for unmarried women, by age of mother: United States, 1980-96
declined only since 1994, the birth rate for married women has generally declined and dropped 10 percent from 93.2 per 1,000 in 1990 to a record low of 83.7 in 1995-96 (table B and figure 4). Moreover, the number of unmarried women in the childbearing ages rose 6 percent between 1990 and 1996 while the number of married women declined 2 percent during this period. The proportion of births to unmarried women increased slightly in 1996, because the number of nonmarital births rose while the number of births to married women declined. Because of the complex interrelationship of birth rates and populations by marital status, the proportion of births to unmarried women has important analytic limitations. The birth rate remains the best measure of the likelihood that an unmarried woman will give birth (27). However, the proportion is often the only available measure of nonmarital childbearing, in addition to the number of births, because the populations needed to compute birth rates are not available for States and cities except in census years. Rates by State for unmarried women by age, race, and Hispanic origin have been published for 1980 and 1990 (20, 21, and 27).

There are sizable variations in the proportions of births to unmarried women in racial and Hispanic origin subgroups (tables 13 and 14). In 1996, 38 percent or more of births to Mexican, Central and South American, Hawaiian, American Indian, and Puerto Rican women were nonmarital. Proportions were much lower for API subgroups (except Hawaiian), ranging from 9 to 19 percent, and for Cuban women, 25 percent. In addition to
these variations, there are also differences within groups according to the mother's place of birth. In general, the proportions of nonmarital births are higher for births to women born in the 50 States and the District of Columbia compared with births to women born elsewhere.

Future trends in nonmarital births will be affected by changes in the birth rates for unmarried women and changes in the number of unmarried women. An additional factor is the overall distribution by age of unmarried women in the childbearing years. Over the next few years, the population of teenagers will be among the fastest growing; teenagers account for 30 percent of nonmarital births (table 17) (6). If the birth rates for unmarried teenagers in particular continue to fall over the next several years as they have during 1994-96, this will help to moderate any increases in nonmarital births.

The numbers and proportions of births to unmarried women by race and Hispanic origin for 1996 are shown in table 19 for the 50 States and the District of Columbia, Puerto Rico, the Virgin Islands, and Guam. The numbers increased in 39 States, Puerto Rico, and Guam and declined in 11 States, the District of Columbia, and the Virgin Islands. Similarly, increases in the proportions exceeded declines: The proportion increased in 37 States, the District of Columbia, Puerto Rico, the Virgin Islands, and Guam, declined in 12 States, and was unchanged in one State.


Figure 4. Birth rates by marital status of mother: United States, 1970-96

## Age of father

The birth rate per 1,000 men aged $15-54$ years declined for the sixth straight year in 1996 to 51.1 (table 20). This rate fell by 13 percent between 1990 and 1996, following a 7 percent increase during 1986-90. Information on age of father is often missing on birth certificates of children born to unmarried women, greatly inflating the number of "not stated" in all tabulations by age of father. In computing birth rates by age of father, births with age of father not stated are distributed in the same proportions as births with known age within each 5 -year age classification of the mother. This procedure avoids the distortion in rates that would occur if the relationship between age of mother and age of father were disregarded. The procedures for computing birth rates by age of father are described in more detail in the Technical notes.

Rates reached a 7 -year low per 1,000 men aged $15-19$ years declining by 5 percent from 1995 to 1996. Rates per 1,000 men 20-24 years of age declined by 2 percent, for those aged 45-49 years by 3 percent, and for those aged 50-54 years by 4 percent. Small increases were measured in rates per 1,000 men aged 25-44 years.

Birth rates per 1,000 white and black men have declined steadily since 1990. Between 1990 and 1996, the rate per 1,000 white men aged 15-54 years dropped 11 percent to 48.4 , while the rate per 1,000 black men aged $15-54$ years dropped 20 percent to 68.3 .

## 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). Higher educational attainment has also been linked to delayed childbearing and, over time, to smaller families $(28,29)$.

Data from the birth certificate show that the educational attainment of women who gave birth increased substantially over the last few decades, partly reflecting the increases in educational attainment of all women during the time period
(30). More than three-fourths of women who gave birth in 1996 had at least 12 years of schooling ( 78 percent) and 22 percent had at least 4 years of college (table C and table 21). The percent of mothers with at least a high school diploma increased with additional age, to about 90 percent for women who gave birth in their thirties, and then declined slightly for mothers 40 years of age and over ( 87 percent). The percent of mothers with at least 4 years of college was highest for mothers 40 years of age and over ( 42 percent). The median educational attainment for all mothers in 1996 was 12.8 years.

Non-Hispanic white mothers had more education than non-Hispanic black mothers- 87 percent of non-Hispanic white mothers had at least 12 years of education compared with 72 percent of black mothers; 49 percent of Hispanic mothers had at least 12 years of education (table C). Twenty-nine percent of nonHispanic white mothers had at least 4 years of college compared with 10 percent of non-Hispanic black mothers and 6 percent of Hispanic mothers. The proportion who had completed 12 years of education peaked for women in their thirties. Among women aged 30-34 years, for example, 96 percent of non-Hispanic white mothers, 88 percent of nonHispanic black mothers, and 60 percent of Hispanic mothers had completed 12 years of education. Non-Hispanic mothers in their forties were most likely to have completed 4 years or more of
college- 50 percent for white mothers and 26 percent for black mothers; among Hispanic mothers, those aged 35-39 years had the highest proportion in this category- 15 percent.

Only two-thirds of American Indian mothers had 12 or more years of schooling, whereas 85 percent of Asian and Pacific Islander (API) mothers had attained this educational level, the highest of any group (table 13). In particular, nearly all of Japanese mothers ( 97 percent) had 12 or more years of schooling. Except for Chinese and "other" API mothers, a higher proportion of women in API subgroups who were born outside the 50 States and the District of Columbia had completed 12 or more years of schooling than their counterparts who were born inside these areas.

Although the overall proportion of Hispanic mothers with at least 12 years of education was low (49 percent), there was tremendous variation among Hispanic subgroups, ranging from 42 percent of Mexican mothers to 86 percent of Cuban mothers (table 14). A higher proportion of Hispanic women who were born in the 50 States and the District of Columbia had at least 12 years of education as compared with Hispanic women born elsewhere. This was especially evident for Mexican women for whom the proportion with 12 years or more of education was twice as high for those born in the 50 States and the District of Columbia as for those born outside these areas- 62 percent

Table C. Percent of mothers completing 12 years or more of school and percent completing 4 years or more of college, by age, race, and Hispanic origin of mother: United States, 1996

|  | Age of mother |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Measure and race and <br> Hispanic origin of mother | All ages | $25-29$ <br> years | $30-34$ <br> years | $35-39$ <br> years |


| Percent completing 12 years or more of school |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| All races ${ }^{1}$ | 77.6 | 85.5 | 90.1 | 90.0 | 87.2 |
| Non-Hispanic white | 87.0 | 93.2 | 96.1 | 96.4 | 96.0 |
| Non-Hispanic black | 72.0 | 86.2 | 88.1 | 87.7 | 85.6 |
| Hispanic ${ }^{2}$ | 48.6 | 55.4 | 59.6 | 56.4 | 48.2 |
| Percent completing 4 years or more of college |  |  |  |  |  |
| All races ${ }^{1}$ | 22.1 | 25.3 | 38.4 | 41.3 | 41.6 |
| Non-Hispanic white | 28.8 | 31.2 | 44.6 | 47.9 | 50.2 |
| Non-Hispanic black | 10.0 | 14.5 | 21.7 | 24.9 | 25.6 |
| Hispanic ${ }^{2}$ | 6.4 | 8.1 | 14.2 | 15.2 | 12.7 |

[^0]compared with 30 percent. 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

## 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 have been associated with intrauterine growth retardation and low birthweight $(34,35)$.

In 1990 the National Academy of Sciences published weight-gain guidelines that varied according to women'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 has been 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 (less than 16 pounds).

In 1996 all States except California reported information on weight gain. Births to mothers residing in these States
accounted for 86 percent of all births in the United States. In 1996 the majority of women ( 63 percent) gained 26 pounds or more during pregnancy. (See tables 22 and 23 for data on maternal weight gain and low birthweight by weight gain.) The median weight gain changed very little during the 1989-96 period and was 30.4 pounds in 1996. Despite the consistency in the median weight gain, the percent of mothers who gained at either end of the weight gain spectrum was higher in 1996 than in 1989-weight gains of less than 16 pounds increased from 9.4 percent in 1989 to 11.1 in 1996 while weight gains of 46 pounds or more increased from 9.1 percent in 1989 to 11.0 percent in 1996.

The weight gain of women during pregnancy varied considerably by period of gestation. Mothers who had preterm infants (gestations of under 37 completed weeks) gained nearly 4 pounds less during pregnancy ( 27.1 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 nearly twice as high for gestations of under 37 weeks as for gestations of 40 weeks and over- 18.2 compared with 9.7 percent.

The median weight gain for nonHispanic white women ( 30.7 pounds) was higher than for either non-Hispanic black women (29.0 pounds) or Hispanic women ( 29.6 pounds). The greatest disparities in weight gains were for gestations of under 37 weeks where the median weight gain for non-Hispanic white women was 3.7 pounds heavier than for non-Hispanic black women and 2.9 pounds heavier than for Hispanic women. For gestations of 40 weeks and over, the disparity in weight gain between groups was less than a pound.

The percent of non-Hispanic black mothers who had weight gains of less than 16 pounds ( 16.9 percent) was much higher than for Asian or Pacific Islander (API) mothers ( 9.2 percent) and nonHispanic white mothers (9.4 percent) while American Indian mothers were intermediate ( 15.1 percent) (tables 24 and 25 ). There was wide variation among API subgroups in the percent of mothers who gained less than 16 pounds, ranging from 6.3 percent of Chinese mothers to
10.6 percent of "other" API mothers. These differences in weight gain are reflected in differences among groups in the percent of births born preterm.

Within Hispanic subgroups, the percent of Mexican mothers who gained less than 16 pounds ( 14.7 percent) was twice as high as for Cuban mothers ( 7.2 percent) while the remaining groups were intermediate (table 25). A smaller proportion of Hispanic women who were born in the 50 States and the District of Columbia gained less than 16 pounds than Hispanic women born outside this area (except for other and unknown Hispanic women).

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 23, which shows the percent of infants with low birthweight by the weight gain of the mother, according to the infant's gestational age. Overall, the percent of infants with low birthweight drops steadily with increasing weight gain through 45 pounds and then increases slightly for mothers who gained 46 pounds or more. This pattern is generally replicated when the data are examined according to the period of gestation. For example, among infants born after 37-39 completed weeks of gestation, the percent low birthweight for births to mothers gaining less than 16 pounds (7.1 percent) was double the percent low birthweight for births to mothers gaining 31 pounds or more (3.1-3.5 percent). Regardless of gestational period, the decline in low birthweight with additional maternal weight gain was present for all groups.

## Medical risk factors

Maternal medical risk factors can severely complicate pregnancy and result in poor birth outcomes, particularly when not adequately treated. For example, the hypertensive disorders (preeclampsia and pregnancy-associated and chronic hypertension) have been linked to inadequate birthweight, shortened gestations, and infant death; diabetes has been associated with hyaline membrane disease/respiratory distress syndrome, and developmental abnormalities (37-39).

Sixteen medical risk factors affecting pregnancy are separately identified on the
birth certificate. Although data for this item were missing from only 1.3 percent of records for 1996 (table 26), birth certificate data may underreport medical risk factor prevalence (40). Also, rates for less common medical risk factors and for smaller population groups can vary widely from year to year and should be interpreted with caution.

Pregnancy-associated hypertension, the most frequently reported medical risk factor, increased for the fifth consecutive year, rising from 34.1 to 35.9 per 1,000 for 1995-96. (See table 26 for 1996 data.) Pregnancy-associated hypertension has risen 32 percent since the early 1990's. However, the rate of chronic hypertension was largely unchanged (from 6.7 for 1995 to 6.8 per 1,000 for 1996), and the eclampsia rate was down slightly from 3.7 to 3.5 per 1,000 for 1995-96, lower than the levels reported for 1989-92.

Diabetes and anemia are the second and third most frequently reported complications of pregnancy. The diabetes rate for the current year was 26.3 per 1,000 compared with 25.2 for 1995. Diabetes prevalence rose between 1990 and 1992 (from 21.3 to 25.9 ), but has been basically stable since. The maternal anemia rate was 19.6 per 1,000 for 1996 , compared with 20.5 for 1995 . Only moderate change has been reported in anemia rates since 1990.

The prevalence of lung disease (e.g., asthma, tuberculosis) was 8.3 per 1,000 for 1996, higher than the 1995 rate of 6.9. Although still comparatively rarereported for less than 1 percent of mothers-the level of acute or chronic lung disease has more than doubled since 1990 (3.0). Similarly, the rate of hydramnios/oligohydramnios (the excess or shortage of amniotic fluid) during pregnancy rose again for 1996 to 12.5 per 1,000 , having more than doubled since 1990, from 5.9.

Most of the medical risk factors reported on the birth certificate vary quite widely by maternal age. For example, anemia is more common among younger than among older mothers. Conversely, chronic conditions such as cardiac disease, diabetes and chronic hypertension occur more frequently among mothers 30 years of age and over. Other risk factors, such as hydramnios/oligohydramnios and
pregnancy-associated hypertension, follow a U-shaped pattern, with the highest levels at the extremes of the maternal age distribution.

Rates for medical risk factors also differ by population subgroup. Anemia and chronic hypertension are twice as common among black compared with white mothers, and although overall levels are similar, older black mothers are much more likely than their white counterparts to suffer from diabetes and pregnancy-associated hypertension. Overall trends and differences for the current year in the medical risk factor rates discussed above generally were applicable for both groups. Two notable exceptions, however, are first, the more pronounced rise in the level of hemoglobinopathy (a blood disorder) among black mothers since 1990 (1.2-3.1 per 1,000), and second, the increase in black mothers reported with incompetent cervix over the same time period (3.2-4.2 per 1,000).

As in previous years, reported levels of anemia, diabetes and pregnancyassociated hypertension were higher for American Indian mothers than for mothers of other racial or ethnic groups. About 5 percent of American Indian mothers were reported with each of these risk factors for 1996 (table 27).

Among Asian or Pacific Islander subgroups maternal anemia rates ranged from 9.9 for Chinese mothers to 35.9 for Hawaiian mothers. Diabetes was more common among Chinese (43.6) and Filipino (41.1) women than among women of other racial or ethnic subgroups except American Indian.

Rates for the most prevalent medical risk factors-anemia, diabetes, pregnancyassociated hypertension, and uterine bleeding-among all Hispanic mothers were comparable to, or lower than those for non-Hispanic white women (table 28). Rates varied by Hispanic subgroup, however. For example, Mexican women were substantially less likely than Puerto Rican women to have diabetes ( 22.9 compared with 33.5 ).

## Tobacco use during pregnancy

Smoking during pregnancy continued to decline according to birth certificate data. In 1996, 13.6 percent of women
giving birth were reported to have smoked, down 2 percent compared with 1995 ( 13.9 percent) and 30 percent since 1989 (19.5 percent), when this information first became available on the birth certificate (41). Tobacco use was reported on the birth certificate in 1996 by 46 States, the District of Columbia, and New York City, comprising 80 percent of U.S. births. Information was not available for California, Indiana, South Dakota, and the remainder of New York State. (See tables 24, 25, and 29-32 for 1996 data.) Trends in maternal smoking based on the birth certificate are generally consistent with those reported for recent years from the National Survey of Family Growth (7, 42).

Tobacco use during pregnancy is associated with a variety of adverse outcomes, including low birthweight, intrauterine growth retardation, and infant mortality, as well as negative consequences for child health and development (43-45). The mechanisms through which tobacco adversely affects pregnancy and birth outcome have been described elsewhere $(46,47)$.

Maternal smoking increased for Puerto Rican, Cuban, American Indian, and Filipino women, was unchanged for Mexican women, and declined for nonHispanic white and black women and women in other racial groups. As in previous years, rates were highest for nonHispanic white, American Indian, and Hawaiian women (16-21 percent), and lowest for Mexican, Cuban, Central and South American, and Asian or Pacific Islander women (API) (except Hawaiian), $1-5$ percent. Puerto Rican and nonHispanic black women had smoking rates of $10-11$ percent. Mexican and Central and South American women as well as women in API subgroups are disproportionately underrepresented in the areas reporting tobacco use. However, their generally low smoking rates based on information from birth certificates have been confirmed by other studies $(48,49)$. Women born in the 50 States and the District of Columbia had substantially higher smoking rates than women born elsewhere, a pattern that has been described elsewhere (tables 24 and 25) (50).

Maternal smoking among teenagers increased about 2 percent overall, but among young teenagers aged 15-17 years, the rate rose 5 percent to 15.4 percent, with an even greater relative increase for young non-Hispanic black teenagers, from 4.3 to 5.0 percent. (See table 30 for 1996 data.) The increase for non-Hispanic black teenagers was the second consecutive year of increase, following steady declines from 1989, when this information first became available $(41,51)$. Despite these increases, smoking rates for non-Hispanic white teenagers are still 4-6 times the rates for non-Hispanic black teenagers. Smoking rates rose as well in 1996 for Mexican and Puerto Rican teenagers aged 15-17 years. Smoking during pregnancy generally declined for women in age groups 20-44 years.

Non-Hispanic white women aged 18-19 years had the highest smoking rate, 29 percent (table 30). Patterns of smoking rates by age differ considerably by race and Hispanic origin (figure 5). At ages under 30 years, rates for nonHispanic white women are sharply higher than for non-Hispanic black or Hispanic women (table 29). At ages 30 years and over, rates are highest for non-Hispanic black women. Rates for Hispanic women are consistently low, regardless of age, ranging from 3 to 5 percent.

Among smokers, the proportion of women smoking at least half a pack of cigarettes daily has declined steadily in recent years-to 33 percent in 1996 (compared with 42 percent in 1989) (41). NonHispanic white mothers were about twice
as likely as non-Hispanic black mothers to smoke half a pack or more ( 37 percent compared with 19 percent). The number of cigarettes smoked increases steadily with age for both white and black mothers (table 29) as well as for non-Hispanic white and black mothers and Hispanic mothers (tabular data not shown).

Rates of maternal smoking vary in a distinct pattern according to maternal educational attainment (table 31). Smoking rates are persistently highest for women with 9-11 years of education, 26 percent in 1996, followed by those with 12 years of education, 18 percent. Rates were lower for women with a grade school education (12 percent) and women with some college ( 10 percent), with the lowest rate of all reported by women with 4 years or more of college, 3 percent. Even among women aged 20 years and over, smoking rates were highest for mothers who attended but did not graduate from high school-31 percent overall. About half of non-Hispanic white women in this age and educational category were reported to have smoked during pregnancy (tabular data not shown).

Smoking rates were highest for nonHispanic white women in every educational attainment category, with the largest disparity for women with a grade school education. Among Hispanic mothers smoking rates by educational level were consistently lower than for non-Hispanic white and black mothers. Compared with 1995, smoking rates declined for women in all education categories.

Babies born to mothers who smoke during pregnancy are at greatly elevated risk of low birthweight, a finding documented in birth certificate data as well as in numerous other studies (43, 46, and 52). In 1996, 12.1 percent of infants born to smokers weighed less than 2,500 grams ( 5 lb 8 oz ) compared with 6.9 percent of births to nonsmokers (table 32). This nearly twofold differential has been observed since 1989 (41). The low birthweight (LBW) disparity by smoking status is nearly 2 times for non-Hispanic white and black infants and for Hispanic infants (tabular data not shown). Advancing maternal age exacerbates the risk; among women age 30 years and over, the LBW rate for births to smokers was at least 2.3 times that for births to nonsmokers. Some of this pattern is probably related to the much greater cigarette consumption among older women (table 29). Studies have shown that older mothers are more likely than younger mothers to continue smoking through pregnancy (53).

While LBW levels are consistently higher for births to women who smoke, regardless of how many cigarettes smoked, the risk is heightened as the number of cigarettes increases. Among the lightest smokers (1 to 5 cigarettes daily), the LBW rate was 11.1 percent, 61 percent higher than for nonsmokers. For mothers smoking more than a pack per day, the rate of LBW was 15.0 percent, one-third higher than that for light smokers and more than double the rate for nonsmokers (6.9 percent) (tabular data not shown).

## Alcohol use during pregnancy

Pregnancy and birth outcome can be jeopardized by maternal alcohol use during pregnancy. While the most severe adverse effect of excessive drinking is fetal alcohol syndrome (FAS), 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 (54). All States except California and South Dakota included items on alcohol use on their birth certificates in 1996. This reporting area accounted for 86 percent of U.S. births.

Alcohol use during pregnancy is clearly substantially underreported on the birth certificate (40). A recent study

Figure 5. Percent of mothers who smoked during pregnancy by age and race/Hispanic origin of mother: United States, 1996

reported that about 19 percent of women used alcohol during pregnancy (48). According to birth certificate data, alcohol use declined again in 1996 to just 1.4 percent of mothers reporting any alcohol use compared with 1.5 percent in 1995 and 4.1 percent in 1989, the first year this information was reported on the birth certificates $(41,51)$. Alcohol use varies considerably among racial and Hispanic origin populations (tables 24 and 25).

It is likely that the birth certificate questions on alcohol use have unintentionally affected the levels of reporting because they focus on the number of drinks per week, whereas other studies inquire about drinks per month. Women who drink one to two drinks per month may believe that their alcohol consumption is too little to report in response to the birth certificate questions. The stigma associated with alcohol use also contributes to the underreporting $(32,55)$.

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, especially among women who also smoke. For example, in 1996, 22 percent of births to women aged 20 years and over who smoked and drank during pregnancy weighed less than 2,500 grams, compared with 7 percent of births to women who did not smoke or drink (tabular data not shown).

## Medical services utilization

## Prenatal care

The proportion of mothers beginning prenatal care in the first trimester of pregnancy increased for the seventh consecutive year rising to 81.9 percent for 1996, from 81.3 percent for 1995. (See text table D and figure 6.) Essentially unchanged throughout the 1980's, the proportion of mothers with first trimester care has risen slowly but steadily since 1989, and includes quite a substantial improvement among some subgroups. Concurrent with the 1995-96 rise in timely care, the proportion of mothers with delayed (care beginning in the third trimester), or no care at all, declined

Table D. First trimester prenatal care by race and Hispanic origin of mother: United States, 1980, 1985, and 1990-96

| Year | $\begin{aligned} & \text { All } \\ & \text { races }^{1} \end{aligned}$ | Non-Hispanic |  | Hispanic ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | White | Black |  |
| 1996 | 81.9 | 87.4 | 71.5 | 72.2 |
| 1995 | 81.3 | 87.1 | 70.4 | 70.8 |
| 1994 | 80.2 | 86.5 | 68.3 | 68.9 |
| 1993 | 78.9 | 85.6 | 66.1 | 66.6 |
| 1992 | 77.7 | 84.9 | 64.0 | 64.2 |
| 1991 | 76.2 | 83.7 | 61.9 | 61.0 |
| 1990 | 75.8 | 83.3 | 60.7 | 60.2 |
| 1989 | 75.5 | 82.7 | 59.9 | 59.5 |
| 1985 | 76.2 | . . . | . . . | . . |
| 1980 | 76.3 |  |  |  |



Figure 6. Percent of mothers with first trimester prenatal care by race of mother: United States, 1985-96
slightly from 4.2 to 4.0 percent. The percent of mothers with late or no care has fallen by more than a third (from 6.4 percent) since 1989.

The effects of prenatal care are difficult to measure $(56,57)$, but early, comprehensive care can promote healthier pregnancies by detecting and managing preexisting medical conditions, providing health behavior advice, and assessing the risk of pregnancy outcomes such as low birthweight and preterm birth (58). Prenatal care can also be vital to maternal health and can serve as a gateway into the health care system, especially for socially disadvantaged women (57).

Gains in the proportion of mothers beginning prenatal care in the first trimester were reported for mothers of all racial or ethnic groups, except Japanese and

Cuban for 1995-96. For 1996, levels ranged from 67.7 percent for American Indian to 89.2 percent for Cuban and 89.3 percent for Japanese mothers. (See tables 24 and 25 for 1996 data.)

Since 1989, prenatal care utilization, as measured by the proportion of women with care beginning in the first trimester, and the proportion with late or no care, has improved markedly for groups with the least favorable levels of care, i.e., non-Hispanic black, Hispanic (specifically, Mexican, Puerto Rican, and Central and South American), Hawaiian, and American Indian mothers (tables 24 and 25) (2).

Among non-Hispanic black women, first trimester care continued to rise between 1995 and 1996, from 70.4 to 71.5 percent, and the percent of women
with late or no care declined from 7.6 to 7.3 percent. Since 1989, the proportion of non-Hispanic black mothers who began care in the first trimester of pregnancy has risen 19 percent (from 59.9 percent). Between 1995 and 1996, prenatal care utilization among black non-Hispanic mothers improved for all age groups except for those less than 15 years of age. (See tables 33-35 for 1996 data.)

Among all Hispanic mothers, first trimester prenatal care rose from 70.8 to 72.2 percent, and late or no care declined from 7.4 to 6.7 percent for 1995-96. (See table 25 for 1996 data.) Since 1989, prenatal care utilization among Hispanic mothers has improved markedly; early care has risen 21 percent (from 59.5 percent) and late or no care has fallen by nearly half, from 13.0 to 6.7 percent. Over this time period, substantial gains in timely care have occurred among both Hispanic women born within the 50 States and the District of Columbia and those born outside. In 1989 only 63.2 percent of those born within the 50 States and the District of Columbia, and 57.0 percent of those born outside received first trimester care, compared with 75.4 and 70.3 percent, respectively, for 1996.

Mexican mothers registered the largest gains in prenatal care utilization between 1989 and 1996, rising 25 percent from 56.7 to 70.7 percent. Other Hispanic subgroups reporting pronounced gains over this period were Puerto Rican mothers with a 20 percent rise (from 62.7 to 75.0 percent) and Central and South American mothers with a 23 percent rise (from 60.8 to 75.0 percent). Despite these improvements, wide differences in prenatal care utilization continued among Hispanic subgroups, however. For 1996, 89.2 percent of Cuban women received care in the first trimester compared with 70.7 percent of Mexican women.

Among non-Hispanic white women, the percent of mothers receiving first trimester care rose slightly to 87.4 for 1996, from 87.1 percent for 1995. The proportion of women with late or no care was down very slightly from 2.5 to 2.4 percent. Since 1989, first trimester care has risen 6 percent (from 82.7 percent) for this group.

The proportion of American Indian mothers with timely care was 67.7 percent for 1996, a slight increase over the level reported for 1995 ( 66.7 percent), and 17 percent higher than that reported for 1989 ( 57.9 percent). The percent of American Indian mothers with late or no care declined to 8.6 percent for 1996, compared with 9.5 percent in 1995, and 13.4 percent for 1989. (See table 24 for 1996 data.)

Among Asian or Pacific Islander mothers, timely care increased for 1995-96 by 1 to 3 percent for Chinese ( 85.7 to 86.8 percent), Hawaiian ( 75.9 to 78.5 percent) and Filipino mothers ( 80.9 to 82.5 percent), but declined very slightly for Japanese mothers (from 89.7 to 89.3 percent). The percent of Hawaiian mothers with first trimester care has risen from 66.8 percent since 1989, an increase of 18 percent. (See table 24 for current year data.)

The proportion of women beginning care in the first trimester and the percent with late or no care by race and Hispanic origin by State are shown in table 34 . The proportion of women with first trimester care in 1996 ranged from 64.6 percent for the District of Columbia, to 89.9 percent for Maine. The majority of States reported only slight or no improvement in timely prenatal care. One notable exception to this trend was the District of Columbia with a 1996 level 8 percent higher than that for 1995 (from 59.8).

The Adequacy of Prenatal Care Utilization Index (APNCU) was developed by Milton Kotelchuck, Ph.D., to correct for some of the weaknesses of the trimester care began and the Kessner Index as measures of prenatal care utilization (59). The APNCU compares the actual number of prenatal care visits to the expected number based on the full American College of Obstetricians and Gynecologists (ACOG) recommendations, adjusting for
the month care began and gestational age at delivery. The APNCU also includes a category for "intensive use" of prenatal care services that was developed to identify women for whom the number of visits exceeds ACOG recommendations by a ratio of observed to expected visits of at least 110 percent.

The APNCU indicates that in 1996, for 73.1 percent of all mothers, prenatal care utilization was at least adequate (including 29.3 percent with intensive use of care), and 26.9 percent of mothers received less than adequate care (including 9.8 percent with inadequate or no care) (table E). These figures represent an increase over 1995 in the proportion of mothers with intensive use (from 28.8 percent) and a decline for all other categories of prenatal care utilization. A recent study found that intensive prenatal care utilization has risen from 18.4 percent in 1981, while the proportion of women with adequate care remained essentially unchanged (60).

## Obstetric procedures

The most prevalent obstetric procedure in 1996 was electronic fetal monitoring (EFM), reported for nearly 3.2 million births, or 83 percent of all live births (table 36). EFM usage in 1996 rose for the seventh consecutive year, reflecting continuing increases in all age groups. Non-Hispanic white mothers had the highest ( 85 percent) and Mexican mothers had the lowest ( 74 percent) rates in EFM usage in 1996 (tables 27 and 28). Six specific obstetric procedures are reported on the birth certificate. It has been shown that these procedures are underreported (61).

According to data from the birth certificate, 64 percent of mothers who had live births in 1996 received ultrasound, a 5 percent increase from 1995 and a 33 percent increase over 1989 (48 percent).

Table E. Adequacy of Prenatal Care Utilization Index: United States, 1995-96

|  | Intensive use | Adequate | Intermediate | Inadequate | No care |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1996 | 29.3 | 43.8 | 17.1 | 8.7 | 1.1 |
| 1995 | 28.8 | 43.9 | 17.2 | 8.9 | 1.2 |

[^1]The overall rates of stimulation of labor and induction of labor in 1996 were both 169 per 1,000 live births, 5 to 6 percent higher than in 1995. The rates of both of these procedures have been rising steadily every year since 1989 (62).

Amniocentesis, an invasive prenatal diagnostic procedure performed to detect genetic disorders, was reported for 32 of every 1,000 live births in 1996. The rate of amniocentesis for mothers in their forties was 21 times the rate for teenage mothers, 192 per 1,000 compared with 9 per 1,000.

## Complications of labor and/or delivery

Of the 15 reported complications of labor and/or delivery, 3 were reported at a rate greater than or equal to 30 per 1,000 live births in 1996: meconium, moderate/heavy ( 58 per 1,000 ), fetal distress (42 per 1,000), and breech/malpresentation ( 38 per 1,000) (table 37). Rates for these three complications varied by race and Hispanic origin (tables 27 and 28). It has been shown that levels of these complications may be underreported on the birth certificate (61).

Although not frequent, placenta previa is a serious complication that occurred in nearly 13,000 births in 1996. Data from birth certificates identify increasing age of mother and live-birth order as two risk factors for this complication (63).

## Attendant at birth and place of delivery

More than 9 out of 10 births in 1996 ( 92.9 percent) were attended by a physician in a hospital, making this arrangement by far the most typical (table 38). However, the percent of births with this arrangement was slightly lower in 1996 than in 1995 ( 93.4 percent) and has declined from 98.4 percent in 1975. For physician-attended births, only about 4 percent were by doctors of osteopathy (DO's) and the remaining were attended by doctors of medicine (MD's). Although small, the number and percent of births attended by DO's has grown steadily since 1989, the first year data on DO's were available from the birth certificate. The percent of births attended by midwives increased sharply between 1975
( 1.0 percent) and 1996 ( 6.5 percent). About 95 percent of midwife-attended births in 1996 were by certified nurse midwives (CNM's), and the remaining 5 percent by "other" midwives. CNMattended deliveries were almost universally in hospitals ( 96 percent) whereas deliveries by "other" midwives were most likely in a residence ( 61 percent). A recent article presents more detailed information on the trends and characteristics of midwife-attended births (64).

About 99 percent of births in 1996 were delivered in hospitals, almost unchanged from the 1975 level. The majority of out-of-hospital births were in a residence ( 64 percent) while 28 percent were in a freestanding birthing center.

About 94 percent of births to nonHispanic white women were attended by a physician in a hospital compared with about 92 percent of births to nonHispanic black women and 91 percent of births to Hispanic women. Non-Hispanic black women and Hispanic women were more likely to have midwife-attended hospital births, comprising 7 and 8 percent of all births in their respective groups, than were non-Hispanic white women ( 5 percent). Altogether, 99 percent of births to women in each group were in hospitals. For out-of-hospital births, the majority of Hispanic women gave birth in a freestanding birthing center ( 53 percent) whereas non-Hispanic white and black women giving birth out of the hospital were most likely to have a residence as the birth setting ( 68 and 73 percent, respectively).

## Method of delivery

The rate of cesarean delivery declined slightly between 1995 and 1996 (from 20.8 per 100 live births to 20.7), continuing a steady decline in the rate since 1989 (22.8), the first year this information was available on the birth certificate (table F and table 39). In total, the cesarean rate was 9 percent lower in 1996 than in 1989. Similarly, the primary cesarean rate (first cesareans per 100 live births to women who had no previous cesarean) also declined each year and was 9 percent lower in 1996 (14.6) than in 1989 (16.1). Concomitant with the decline in cesarean rates during this period was a 50 -percent increase in the rate of vaginal birth after previous cesarean delivery (VBAC)from 18.9 in 1989 to 28.3 in 1996.

Overall cesarean rates increased steadily by age of the mother and were more than twice as high for mothers 40-49 years of age (31.6) than for teenagers (14.5) (table 40). Primary cesarean rates increased with age after age 24 but the differences between age categories were smaller than for the overall cesarean rates. VBAC rates declined with increasing age-a third of teenagers who had a previous cesarean had a VBAC delivery compared with 22 percent of mothers 40-49 years of age. Compared with 1995, total and primary cesarean rates in 1996 were lower for all age groups under 30 years but remained unchanged for mothers in age groups 30 years and over. All age groups experienced increases in VBAC rates between 1995 and 1996.

Non-Hispanic black women had a higher cesarean rate in 1996 (21.7) than either non-Hispanic white women (20.8) or Hispanic women (20.0) (tables 39-40). Between 1989 and 1996 the cesarean rate for non-Hispanic black women declined only 2 percent while the declines for nonHispanic white and Hispanic women were 12 and 7 percent, respectively. Similar to the total cesarean rate, the primary cesarean rate in 1996 was higher for nonHispanic black women (15.7) than for non-Hispanic white (14.8) and Hispanic women (13.4) and the decline for nonHispanic black mothers since 1989 was smaller. The VBAC rate in 1996 was highest for non-Hispanic white women (29.5), lowest for Hispanic women (24.8), and intermediate for non-Hispanic black women (26.9). A recent report provides a more detailed analysis of the changes in cesarean and VBAC rates between 1991 and 1995 (65).

American Indian and Asian and Pacific Islander (API) mothers had lower cesarean rates (18.1 and 18.6, respectively) than either non-Hispanic white or black mothers ( 20.8 and 21.7, respectively) (tables 24 and 25). With the exception of Filipino mothers, all specified API categories had lower rates of cesarean delivery than either non-Hispanic white or black mothers. The lowest cesarean rate of all API subgroups was for Hawaiian mothers (16.0). Japanese mothers who were born outside the 50 States and the District of Columbia had a much lower cesarean rate in 1996 (14.4) than their

Table F. Total and primary cesarean rates and vaginal birth after previous cesarean delivery rates: United States, 1989-96

| Year | Cesarean rate |  | VBAC rate ${ }^{3}$ |
| :---: | :---: | :---: | :---: |
|  | Total ${ }^{1}$ | Primary ${ }^{2}$ |  |
| 1996 | 20.7 | 14.6 | 28.3 |
| 1995 | 20.8 | 14.7 | 27.5 |
| 1994 | 21.2 | 14.9 | 26.3 |
| 1993 | 21.8 | 15.3 | 24.3 |
| 1992 | 22.3 | 15.6 | 22.6 |
| 1991 | 22.6 | 15.9 | 21.3 |
| 1990 | 22.7 | 16.0 | 19.9 |
| 1989 | 22.8 | 16.1 | 18.9 |

${ }^{1}$ 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.
counterparts who were born in the 50 States and the District of Columbia (19.8). For the remaining API subgroups (except for Hawaiian), those born in the 50 States and the District of Columbia had lower cesarean rates than those born outside this area. The rate of cesarean delivery varied between 19.4 and 21.3 for all Hispanic subgroups except for Cuban mothers whose rate was much higher (30.3) (table 25). Except for Mexican mothers, Hispanic women who were born in the 50 States and the District of Columbia had lower cesarean rates than their counterparts who were born outside this area.

There was considerable variation in cesarean rates by State ranging from a high of 26.6 in Mississippi to a low of 15.1 in Colorado (table 41). Colorado was the only State in 1996 whose cesarean rate met the year 2000 national health objective of 15 percent or lower (66). VBAC rates ranged between 41.7 in Vermont to 12.9 in Louisiana with 14 States having VBAC rates that met the year 2000 goal of 35.0 or higher (66).

All of the selected medical risk factors in table 42 were associated with overall cesarean rates that were higher than the national average. Cesarean rates for the medical risk factors ranged from 21.5 for mothers with Rh sensitization to 47.8 for mothers with eclampsia. Other medical risk factors in which more than a third of births were by cesarean were chronic hypertension (38.6), hydramnios/oligohydramnios (37.0), pregnancy-associated hypertension (36.1), genital herpes (36.0) and diabetes (35.2). Certain complications of labor and/or delivery are also associated with high cesarean rates. Nearly
all births with cephalopelvic disproportion were cesarean deliveries (96.5) while the cesarean rates for breech/malpresentation (84.7) and placenta previa (81.6) were also very high. In addition, more than half of births with cord prolapse (66.4), dysfunctional labor (63.1), abruptio placenta (58.1), and fetal distress (54.5) were by cesarean delivery. Cesarean rates for most of the medical risk factors and complications of labor and/or delivery have declined since 1989.

During the 1989-96 period, the percent of births that were delivered by either forceps or vacuum extraction increased only slightly, from 9.0 to 9.4 percent. During that period, however, there was a shift as the number and percent of births delivered by forceps declined each year while the use of vacuum extraction consistently increased. In 1996, 3.2 percent of births were delivered by forceps compared with 5.5 percent in 1989-a 42 percent decline. Vacuum extraction was used in 6.2 percent of births in 1996, a 77 percent increase compared with 1989 (3.5). As in previous years, forceps and vacuum extraction deliveries were slightly more common in births to white than black mothers.

## Infant health characteristics

## Period of gestation

The preterm birth rate for 1996 was 11.0, unchanged from 1995. Since 1981, the proportion of preterm births (infants born prior to 37 completed weeks of
gestation) has risen 17 percent (from 9.4 percent). Put another way, the increase in the preterm rate over this time period represents at least 55,000 more preterm babies in 1996 than would have been born had the level remained stable. (See tables 43 and 44 and figure 7.) Preterm newborns are at greater risk than infants born at longer gestations of neurodevelopmental and respiratory disorders (67) and are nearly 7 times more likely to die within the first year of life (68).

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. See Technical notes for additional information on procedures for measuring gestational age.

Preterm births are primarily the result of three nonmutually exclusive categories: spontaneous preterm labor, preterm premature rupture of the membranes (PROM), and medical induction. Birth certificate data indicate that the rate of PROM has declined slightly since 1989 , but that the percent of preterm births that were medically induced has nearly doubled, rising from 6.7 to 11.8 percent (41, 62).

The proportion of preterm births to non-Hispanic white mothers rose from 9.4 to 9.5 percent between 1995 and 1996 (see table 25 for 1996 data). The percent preterm among this group has risen from 8.4 since 1989 , and among births to all white mothers (i.e., including Hispanic), from 7.9 to 9.8 percent between 1981 and 1996. Much of the increase for 1995-96 among non-Hispanic white births was the result of an increase in multiple births that are more likely to be born preterm. The preterm rate among singleton nonHispanic white births was unchanged at 8.1 percent.

The proportion preterm among births to black mothers fell from 17.7 to 17.4 percent for 1995-96 but remained substantially higher than that of any other racial and ethnic group. (Among nonHispanic black births levels were very


Figure 7. Gestation distribution: United States, 1996
similar, 17.8 and 17.5 percent.) The preterm rate among black infants had risen to a high of 18.9 percent during the late 1980's and early 1990's, but has been declining since 1993. The current level is the lowest reported since 1982. Declines for 1995-96 were noted for gestational ages below and equal to or over 32 completed weeks. Since 1993, preterm levels have dropped among infants born to black mothers of all age groups except those 40-44 years of age.

The level of preterm birth for Hispanic mothers was unchanged at 10.9 percent for 1996. Rates among the Hispanic subgroups ranged from 10.3 percent for births to Cuban women to 13.2 percent for Puerto Rican births. Mexican women born in the 50 States and the District of Columbia were more likely than their counterparts born elsewhere to have a preterm infant, but this pattern was reversed among Puerto Rican and Cuban women.

For 1996, 11.9 percent of births to American Indian mothers were born preterm, an improvement over the level reported for 1995 ( 12.4 percent). (See table 24 for 1996 data.) As in previous years, the lowest preterm birth rates of any racial or ethnic group were reported for births to Chinese (7.4) and Japanese mothers (8.2). Rates for Hawaiian and Filipino births were substantially higher at 11.5 .

## Birthweight

The percent low birthweight (LBW) (less than 2,500 grams) was 7.4 for 1996, up from 7.3 percent for 1995. Low birthweight declined during the 1970 's and early 1980 's, but has risen 10 percent since 1984 (from 6.7 percent). (See table 44 and figure 8.) The percent very low birthweight (VLBW) (less than 1,500 grams) was 1.37 percent for 1996, compared with 1.35 for 1995 (table 44). This level has increased slightly since 1980, from 1.15 percent. Recent medical advances have greatly lessened the risk of death for smaller infants (69-71), but they continue to be at much greater risk than heavier infants. For 1995 the mortality rate (infant deaths under 1 year of age per 1,000 live births) for infants born VLBW was 268.4 , compared with 18.2 for those weighing $1,500-2,499$ grams, and 3.0 for heavier infants (68).

The rise in overall LBW for 1995-96 is primarily the result of the increase in LBW among infants born to nonHispanic white women ( 6.2 to 6.4 percent). (See table 45 for 1996 data.) Most of the current year increase in LBW, and the very slight rise in VLBW for nonHispanic white births ( 1.04 to 1.08 percent), is attributable to an increase in the proportion of multiple births among these mothers (multiple births are much more likely than singletons to be LBW), and to
a slight increase in LBW for multiple births; the LBW rate among singleton births to non-Hispanic white women was unchanged at 4.9 percent. Since 1992, however, non-Hispanic white singleton LBW has risen from 4.6 percent, and thus, increases in multiple births cannot account for all of the rise in total nonHispanic white LBW over this period.

Among births to non-Hispanic black mothers, LBW declined from 13.2 to 13.1 percent between 1995 and 1996, but was still higher than that of any racial or ethnic group and more than twice that of non-Hispanic white births. LBW among non-Hispanic black births has decreased each year since 1993, from 13.4 percent. For 1996, the percent VLBW for black non-Hispanic births was 3.02 compared with 2.98 for 1995. Among births to all black mothers (including Hispanic, which account for less than 3 percent of all black births in 1996), LBW rose during the mid 1980's through the early 1990's, but has declined each year since 1993.

The comparatively high incidence of LBW for births to non-Hispanic black mothers can be largely attributed to their greater likelihood of being born preterm ( 17.5 percent compared with 11.0 percent of births to mothers of all races). Babies born preterm are much more likely to be LBW than babies born at longer gestations. (See table 43.) Non-Hispanic black births are also, however, more likely to be LBW when born preterm; 49.5 percent compared with 43.5 percent of white nonHispanic, and 35.9 percent of Hispanic births, and are twice as likely as white non-Hispanic and Hispanic births to be LBW when born at term; 5.5 compared with 2.5 , and 2.7 percent, respectively.

Overall Hispanic LBW was 6.3 percent, unchanged from 1995, but slightly higher than levels reported for the early 1990's ( 6.1 percent) (2). (See tables 25, 43, and 45 for 1996 data.) Despite a higher prevalence of risk factors for poor pregnancy outcome such as younger maternal age, lower education, and less utilization of prenatal care, the LBW level for all Hispanic births, and especially that for Mexican births ( 5.9 percent), compares favorably with that of non-Hispanic white births ( 6.4 percent), and most other racial or ethnic groups. Risk does vary widely by Hispanic subgroup, however,


Figure 8. Percent low birthweight by race: United States, 1970-96
with rates ranging from 5.9 percent of Mexican to 9.2 percent of Puerto Rican births. Low birthweight rates also tend to be lower for births to Hispanic women born outside of the 50 States and the District of Columbia, but this pattern varies by subgroup (table 25).

For 1996, 6.5 percent of American Indian infants weighed less than 2,500 grams at birth (table 24), compared with 6.6 percent for 1995. Although the LBW proportion for American Indian infants is similar to that of white births, American Indian infants are much more likely to die within the first year of life ( 9.0 compared with 6.3 per thousand for 1995), the result of higher mortality among infants aged 28 days through 11 months (68).

No substantial change in low birthweight was noted among the Asian or Pacific Islander subgroups for 1996 (table 24). For the current year, levels ranged from 5.0 percent for births to Chinese women, to 7.9 percent of Filipino births.

The risk of LBW varies by maternal age with the lowest risk for mothers aged 25-34 years, and the highest for those under age 20, and 40 years of age and over (table 45). Although overall levels of LBW are slightly more elevated for births to mothers 40 years of age and over, singletons born to older mothers are less
likely than singletons born to mothers under 20 years of age to be LBW (7.8 compared with 8.5 percent) (tabular data not shown).

The median birthweight for 1996 was 3,350 grams ( 7 lb 7 oz ) unchanged from 1995, the lowest figure reported since 1978. The percent macrosomia (birthweight of at least 4,000 grams) for 1996 was 10.2 , compared with 10.3 percent for 1995. The proportion of macrosomic births has been decreasing since 1991, after peaking at about 11 percent in the 1980's.

For the majority of States LBW for non-Hispanic white births increased or was unchanged between 1995 and 1996. A decline of at least 5 percent occurred for only two States: Idaho and New Hampshire. Rates ranged from 4.6 percent in New Hampshire, to 8.4 percent in Colorado (table 46). Rates of VLBW for non-Hispanic white births ranged from 0.7 percent (Alaska) to 1.3 percent (Alabama, Arkansas, Delaware, North Carolina, and Tennessee) (table 47). Of the 35 areas reporting at least 1,000 non-Hispanic black births, LBW declined by 5 percent or more in 6 States: Arizona, Colorado, Missouri, Nebraska, Virginia, and Wisconsin. Low birthweight levels for nonHispanic black infants ranged from 10.7 and 10.9 in Nebraska and Washington, to 16.7 percent for the District of Columbia;

VLBW levels ranged from 2.4 percent (Colorado) to 4.4 percent (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 (72). 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-toexcellent physical condition. The Apgar score is assessed at 1 and 5 minutes after delivery and used to predict the newborn's chances of survival with the 5-minute score regarded as the better measure on which to make predictions.

In 1996 NCHS collected information on the 5-minute score only. All States except California and Texas collected information on the 5-minute Apgar score in 1996. Births to residents in these States accounted for 78 percent of all births in the United States. Only 1.4 percent of babies had Apgar scores that were considered low (less than 7) at 5 minutes after birth, unchanged from 1993-95 (table 24). The percent of infants with low 5-minute Apgar scores declined sharply between 1984-90, from 2.0 to 1.5 (data not shown), 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 (tables 24 and 25). This was particularly true for Japanese and Chinese babies-only 0.7 percent had low 5 -minute scores. The percent of babies with low scores was intermediate for non-Hispanic white and American Indian mothers, between 1.2 and 1.4 , while 2.5 percent of nonHispanic black babies had low 5-minute scores. Among Hispanic subgroups, the percent of babies with low 5-minute scores ranged from 0.8 for Cuban mothers to 1.4 percent for Puerto Rican and other and unknown Hispanic mothers.

In general, the variation among racial and ethnic groups in the percent of babies with low 5-minute Apgar scores was con-
sistent with the percent of babies that were born preterm or with low birthweight (tables 24 and 25).

## Abnormal conditions of the newborn

Of the eight specific abnormal conditions reported on the birth certificate, the rates per 1,000 live births in 1996 were highest for assisted ventilation less than 30 minutes ( 21 per 1,000 ), assisted ventilation 30 minutes or longer ( 9 per 1,000 ), and hyaline membrane disease/respiratory distress syndrome (RDS) (7 per 1,000) (table 48). Other studies have found that these conditions may be underreported on the birth certificate (61).

Rates of hyaline membrane disease/RDS were far higher for low birthweight infants (less than 2,500 grams) than among infants weighing 2,500 grams or more ( 53 compared with 3 per 1,000 live births); there were similar large differences in rates by birthweight for assisted ventilation 30 minutes or longer (69 and 4 per 1,000 live births) (tabular data not shown).

## Congenital anomalies

In 1996 congenital anomalies were reported on the birth certificates of the District of Columbia and all States except New Mexico. These areas included 99 percent of births in the United States. It has been shown that these anomalies are underreported on the birth certificate $(61,73)$.

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 49). As an example, the rate for Down's syndrome for births to mothers aged 40-49 years, 350 per 100,000 live births, was 15 times the rate of 24 for mothers aged 20-24 years.

## Multiple births

There were 106,689 live births in multiple deliveries in 1996; 100,750 twins, 5,298 triplets, 560 quadruplets, and 81 quintuplet and other higher order multiple births. (See table 50 and table G.) For 1996 the number of twin births rose 4 percent over the previous year, and the number of higher order multiple births (triplets, quadruplets, quintuplets, and other higher order multiple births) by 19 percent, the largest single year increase in higher order multiples in at least 25 years (74).

The multiple birth rate (the number of multiple births per 1,000 live births), which is primarily a measure of twin births, rose 5 percent, from 26.1 to 27.4 for 1995-96. The twinning rate (the number of twin births per 1,000 live births) grew 4 percent (from 24.8 to 25.9). Since 1980, the number of twins has risen 47 percent (from 68,339), and the twin birth rate by 37 percent (from 18.9). (See table 50 for 1996 data.)

The higher order multiple birth rate (the number of triplet, quadruplet, quintuplet, and other higher order multiples per 100,000 births), climbed 20 percent, from 127.5 to 152.6 per 100,000 between 1995 and 1996. This rate has doubled since 1990 (72.8), quadrupled since 1980 (37.0), and quintupled since 1971 (29.1) (figure 9). In the early 1970's only about 1 of 3,500 births was a higher order multiple, but by 1996, this rate had lowered to 1 of 655 births (74). Triplets comprise the bulk ( 89 percent in 1996) of higher order multiple births, but the number of quadruplets and quintuplets and other higher order multiples have also risen markedly in recent years, and have at least doubled since the early 1990's (table G).

It is estimated that about one-third of the increase in multiple births is the result of the shift towards older childbearing (the risk of multiple delivery generally increases with maternal age). Most of the rise in multiple births since the early 1980's, however, has been attributed to the increased use of fertility enhancing therapies (ovulation-inducing drugs and assisted reproductive techniques (ART) such as in vitro fertilization) which are more likely to result in a multiple gestation (74-76). A recent study found that 37 percent of live births resulting from ART were multiple births (77).

Multiple births, and especially higher order multiple births, occur more frequently among certain racial or ethnic groups. For example, the Hispanic twinning rate (18.6) is substantially lower than the non-Hispanic white (27.8), and non-Hispanic black (29.2) rates, and the higher order multiple birth rate for nonHispanic white women (207.1) is dramatically higher than that of other groups ( 73.5 for non-Hispanic black and 58.3 for Hispanic women). Indeed, in 1996 most all higher order births were born to nonHispanic white women; 82 percent of all higher order multiples were born to white non-Hispanic women compared with 60 percent of singletons.

The greater likelihood of white nonHispanic mothers to seek infertility services (16) likely accounts for much of the disparity in higher order multiple birth rates. In the 1970 's, before fertility therapies became widely available, the higher order multiple birth rate among white women was similar to, or lower than that of black women (74). Thus, although rates have risen among both white and black mothers, the increase from 1971 to 1996 is much more pronounced among white women, 513

Table G. Numbers of twin, triplet, quadruplet and quintuplet and other higher order multiple births: United States, 1989-96

| Year |
| :---: |
| Twins | Triplets $\quad$ Quadruplets | Quintuplets and other |
| :---: |
| higher order multiples |



Figure 9. Higher order multiple birth ratios by race of mother, 1980-96
compared with 108 percent, respectively. (Comparable data by Hispanic origin are not available for much of this time period.)

Multiple birth rates increase with maternal age through the thirties, drop slightly for women aged 40-44 years, then rise sharply for the age group 45-49 years. In illustration, for 1996, 1 percent of all births to teenage non-Hispanic white mothers was a multiple compared with 4 percent of births to mothers aged 30-44 years, and 16 percent of births to mothers 45 years of age and over. (See table 50.)

State variation in rates of twins and higher order multiple births are often wide, and cannot be accounted for by State differences in maternal age distributions. For combined years 1992-94, Massachusetts reported both the highest proportion of twins and higher order multiple births with a twinning rate of 27.7 (compared with the U.S. rate of 25.5 per 1,000 ), and a higher order multiple birth rate of 215.9 (compared with 105.5 for the United States) $(74,78)$.

Multiple births are more likely than singletons to be LBW and/or preterm. (For 1996, 53 percent of twins and 93 percent of triplets were LBW compared with 6 percent of singletons; 53 percent of twins and 92 percent of triplets were preterm compared with 8 percent of singletons.) There is evidence, however, for distinct differences in intrauterine growth patterns among twins, triplets, and singletons, and
even between twins and triplets; that is, that the optimum birthweight and gestational period for twins is lower and shorter than that of singletons, and that for triplets is lower, and shorter still. This difference underscores the importance of the use of plurality-specific growth curves to detect multiple gestations at risk of fetal growth retardation (79).

Both mother and child are at high risk of poor outcome in a multiple gestation. Maternal risks include higher rates of anemia, toxemia, and postpartum hemorrhage (80). Although holding a survival advantage at lower birthweights and shorter gestations $(81,82)$, multiples are more likely than singletons to suffer early mortality. For 1995, multiples comprised less than 3 percent of births, but 16 percent of neonatal deaths (83). Largely as a result of their lower birthweights and shorter gestations, multiple births incur more health care dollars-the average cost at one Boston hospital for each birth in a twin delivery was 2 times and a triplet, $311 / 2$ times as high as that for a singleton (84).

## References

1. Ventura SJ, Peters KD, Martin JA, Maurer JD. Births and deaths: United States, 1996. Monthly vital statistics report; vol 46 no 1, supp. 2. Hyattsville, Maryland: Public Health Service. 1997.
2. Mathews TJ, Ventura SJ, Curtin SC, Martin JA. Births of Hispanic origin, 1989-95. Monthly vital statistics report; vol 46, no 6, supp. Hyattsville, Maryland: National Center for Health Statistics. 1998.
3. National Center for Health Statistics. Vital statistics of the United States, Vol I, natality. Washington: Public Health Service. Annual issues, 1980-92. Issue for 1993 in preparation.
4. Deardorff KE, Hollmann FW. U.S. population estimates, by age, sex, race, and Hispanic origin: 1990 to 1996. U.S. Bureau of the Census. PPL-57. Washington: U.S. Department of Commerce. 1997.
5. Hollmann FW. U.S. population estimates, by age, sex, race, and Hispanic origin: 1980 to 1991. U.S. Bureau of the Census. Current population reports; P-25-1095. Washington: U.S. Department of Commerce. 1993.
6. Day JC. Population projections of the United States by age, sex, race, and Hispanic origin: 1995 to 2050. U.S. Bureau of the Census. Current population reports; P-25-1130. Washington: U.S. Department of Commerce. 1996.
7. Abma JC, Chandra A, Mosher WD, Peterson LS, Piccinino LJ. Fertility, family planning, and women's health: New data from the 1995 National Survey of Family Growth. National Center for Health Statistics. Vital Health Stat 23(19). 1997.
8. Piccinino LJ, Mosher WD. Trends in contraceptive use in the United States: 1982-1995. Fam Plann Persp 30(1):4-10, 46. 1998.
9. Koonin LM, Smith JC, Ramick M, Strauss LT, Hopkins FW. Abortion surveillance-United States, 1993 and 1994. In CDC Surveillance Summaries. MMWR 46(No. SS-4):37-98. 1997.
10. Ventura SJ, Taffel SM, Mosher WD, Wilson JB, Henshaw S. Trends in pregnancies and pregnancy rates: Estimates for the United States, 1980-92. Monthly vital statistics report; vol 43 no 11, supp. Hyattsville, Maryland: National Center for Health Statistics. 1995.
11. Ventura SJ, Curtin SC, Mathews TJ. Teenage births in the United States: National and State trends, 1990-96. Hyattsville, Maryland: National Center for Health Statistics. 1998.
12. Centers for Disease Control and Prevention. Abortion surveillance: Preliminary data-United States, 1995. MMWR 46(48):1133-37. 1997.
13. Ventura SJ. Trends and variations in first births to older women, 1970-86. National

Center for Health Statistics. Vital Health Stat 21(47). 1989.
14. Heuser RL. Fertility tables for birth cohorts by color: United States, 1917-73. Rockville, Maryland: National Center for Health Statistics. 1976.
15. Bachu A. Fertility of American women: June 1992. Current population reports; series P-20-470. Washington: U.S. Department of Commerce. 1993.
16. Chandra A, Stephen EH. Impaired fecundity in the United States: 1982-95. Fam Plann Persp 30(1):34-42. 1998.
17. National Center for Health Statistics. The age-of-mother category "50 years and over." Monthly vital statistics report; vol 14 no 9. Washington, DC: Public Health Service. 1965.
18. Centers for Disease Control and Prevention. Childbearing patterns among selected racial/ethnic minority groups, United States, 1990. MMWR 42(20):398-403. 1993.
19. Martin JA. Birth characteristics for Asian or Pacific Islander subgroups, 1992. Monthly vital statistics report; vol 43 no 10, supp. Hyattsville, Maryland: National Center for Health Statistics. 1995.
20. Clarke SC, Ventura SJ. Birth and fertility rates for States: United States, 1990. National Center for Health Statistics. Vital Health Stat 21(52). 1994.
21. Taffel SM. Birth and fertility rates for States: United States, 1980. National Center for Health Statistics. Vital Health Stat 21(42). 1984.
22. Rosenberg HM. Seasonal variation of births: United States, 1933-93. National Center for Health Statistics. Vital Health Stat 21(9). 1966.
23. National Center for Health Statistics. Advance report of final natality statistics, 1988. Monthly vital statistics report; vol 39 no 4, supp. Hyattsville, Maryland: National Center for Health Statistics. 1990.
24. Centers for Disease Control and Prevention. Rates of cesarean delivery: United States, 1993. MMWR 44(15):303-7. 1995.
25. Landale NS, Fennelly K. Informal unions among mainland Puerto Ricans: Cohabitation or an alternative to legal marriage? J Marriage and the Family 54:269-80. 1992.
26. Bumpass LL, Sweet JA. Cohabitation, marriage and union stability: preliminary findings from NSFH2. NSFH Working Paper No. 65. Center for Demography and Ecology. Madison, Wisconsin: University of Wisconsin-Madison. 1995.
27. Ventura SJ. Births to unmarried mothers: United States, 1980-92. National Center for Health Statistics. Vital Health Stat 21(53). 1995.
28. Mathews TJ, Ventura SJ. Birth and fertility rates by educational attainment: United States, 1994. Monthly vital statistics report, vol 45 no 10, supp. Hyattsville, Maryland: National Center for Health Statistics. 1997.
29. Heck KE, Schoendorf KC, Ventura SJ, Kiely JL. Delayed childbearing by education level in the United States, 1969-1994. Maternal and Child Health Journal 1(2):81-88. 1997.
30. Day JC, Curry AE. Educational attainment in the United States: March 1996 (Update). U. S. Bureau of the Census. Current population reports; P-20-493 (PPL-56). Washington: U.S. Department of Commerce. 1997.
31. U. S. Bureau of the Census. The Hispanic population in the United States: March 1996. U.S. Bureau of the Census. PPL-72. Washington: U.S. Department of Commerce. 1997.
32. Chomitz VR, Cheung LWY, Lieberman E. The role of lifestyle in preventing low birth weight. In: The Future of Children: Low Birthweight. Vol 5(1):121-38. Los Altos, California: Center for the Future of Children, The David and Lucile Packard Foundation. 1995.
33. Abrams B, Selvin S. Maternal weight gain pattern and birth weight. Am J Obstet Gynecol. 86(2):163-9. 1995.
34. Kramer MS. Intrauterine growth and gestational duration determinants. Pediatrics 80:502-11. 1987.
35. Kleinman JC. Maternal weight gain during pregnancy: determinants and consequences. NCHS Working Paper Series 33. Hyattsville, Maryland: National Center for Health Statistics. 1990.
36. Institute of Medicine. Subcommittee on Nutritional Status and Weight Gain During Pregnancy. Nutrition during pregnancy. National Academy of Sciences. Washington: National Academy Press. 1990.
37. Velentgas P, Benga-De E, Williams MA. Chronic hypertension, pregnancyinduced hypertension, and low birthweight. Epidemiology 5(3):345-48. 1993.
38. Cunningham FG, Lindheimer MD. Hypertension in pregnancy. NEJM 326(14):927-32. 1992.
39. DeBaun M, Rowley D, Province M, et al. Selected antepartum medical complications and very-low-birthweight infants among black and white women. Am J Public Health 84(9): 1495-7. 1994.
40. Buescher PA, Taylor KP, Davis MH, Bowling JM. The quality of the new birth certificate data: A validation study in North Carolina. Am J Public Health 83(8):1163-65. 1993.
41. National Center for Health Statistics. Advance report of new data from the 1989 birth certificate. Monthly vital statistics report; vol 40 no 12, supp. Hyattsville, Maryland: Public Health Service. 1992.
42. Chandra A. Health aspects of pregnancy and childbirth: United States, 1982-88. National Center for Health Statistics. Vital Health Stat 23(18). 1995.
43. Kleinman JC, Madans JH. The effects of maternal smoking, physical stature, and educational attainment on the incidence of low birth weight. Am J Epidemiol 121(6):843-55. 1985.
44. Schoendorf KC, Kiely JL. Relationship of sudden infant death syndrome to maternal smoking during and after pregnancy. Pediatrics 90(6):905-8. 1992.
45. Cunningham J, Dockery DW, Speizer FE. Maternal smoking during pregnancy as a predictor of lung function in children. Am J Epidemiol 139(12):1139-52. 1994.
46. Floyd RL, Zahniser SC, Gunter EP, Kendrick JS. Smoking during pregnancy: Prevalence, effects, and intervention strategies. Birth 18(1):48-53. 1991.
47. U.S. Department of Health and Human Services. The health benefits of smoking cessation. A report of the Surgeon General. Rockville, Maryland: Public Health Service. 1990.
48. National Institute on Drug Abuse. National Pregnancy and Health Survey-Drug Use Among Women Delivering Live Births: 1992. National Institutes of Health. Rockville, Maryland: U.S. Department of Health and Human Services. 1996.
49. Vega WA, Kolody B, Hwang J, Noble A. Prevalence and magnitude of perinatal substance exposures in California. NEJM 329(12):850-4. 1993.
50. Ventura SJ, Taffel SM. Childbearing characteristics of U.S.- and foreign-born Hispanic mothers. Pub Health Rep 100(6):647-52. 1985.
51. Ventura SJ, Martin JA, Curtin SC, Mathews TJ. Report of final natality statistics, 1995. Monthly vital statistics report; vol 45 no 11, supp.1. Hyattsville, Maryland: National Center for Health Statistics. 1997.
52. Fox SH, Koepsell TD, Daling JR. Birth weight and smoking during pregnancyEffect modification by maternal age. Am J Epidemiol 139(10):1008-15. 1994.
53. LeClere FB, Wilson JB. Smoking behavior of recent mothers, 18-44 years of age, before and after pregnancy: United States, 1990. Advance data from vital and health statistics; no 288. Hyattsville, Maryland: National Center for Health Statistics. 1997.
54. Sampson PD, Bookstein FL, Barr HM, Steissguth AP. Prenatal alcohol exposure, birthweight, and measures of child size from birth to 14 years. Am J Public Health 84(9):1421-28. 1994.
55. Morrow-Tlucak M, Ernhart CB, Sokol RJ, et al. Underreporting of alcohol use in pregnancy: Relationship to alcohol problem history. Alcohol Clin Exp Res 13(3):399-401. 1989.
56. Huntington J, Connell FA. For every dollar spent-the cost-savings argument for prenatal care. NEJM. 33(19):1303-7. 1994.
57. Fiscella K. Does prenatal care improve birth outcomes? A critical review. Obstet Gynecol 85(3):46-79. 1995.
58. U.S. Public Health Service. Caring for our future: The content of prenatal care. Washington: U.S. Department of Health and Human Services. 1989.
59. Kotelchuck M. An evaluation of the Kessner adequacy of prenatal care index and a proposed adequacy of prenatal care utilization index. Am J Public Health 84(9):1414-20. 1994.
60. Kogan MD, Martin JA, Alexander GR, Kotelchuck M, Ventura SJ, Frigoletto FD. The changing pattern of prenatal care utilization in the United States, 1981-1995, using different prenatal care indices. JAMA 279(20): 1623-28. 1998.
61. Piper JM, Mitchel EF, Snowden M, et al. Validation of 1989 Tennessee birth certificates using maternal and newborn hospital records. Am J Epidemiol 137(7):758-68. 1993.
62. Mathews TJ. Trends in stimulation and induction of labor, 1989-1995. Stat Bulletin 78(4):20-26. 1998.
63. Mathews TJ, Singh GK. Determinants of placenta previa: United States, 1992. Paper presented at the annual meeting of the Society for Epidemiologic Research. Snowbird, Utah. June 23, 1995.
64. Clarke SC, Martin JA, Taffel SM. Trends and characteristics of births attended by midwives. Stat Bulletin 78(1):9-18. 1997.
65. Curtin SC. Rates of cesarean birth and vaginal birth after previous cesarean, 1991-95. Monthly vital statistics report; vol 45 no 11, supp 3. Hyattsville, Maryland: National Center for Health Statistics. 1997.
66. U.S. Department of Health and Human Services. Healthy people 2000. National
health promotion and disease prevention objectives. Washington: Public Health Service. 1990.
67. Berkowitz GS, Papiernik E. Epidemiology of preterm birth. Epidemiologic Reviews vol 15(2):414-43. 1993.
68. MacDorman MF, Atkinson JO. Infant mortality statistics from the linked birth/infant death data set-1995 period data. Monthly vital statistics report; vol 46 no 6, supp 2. Hyattsville, Maryland: National Center for Health Statistics. 1998.
69. Paneth NS. The problem of low birthweight. In: Center for the Future of Children. The future of children: Low Birth Weight. Vol 5(1):19-34. Los Altos, California: Center for the Future of Children. The David and Lucile Packard Foundation. 1995.
70. Institute of Medicine. Preventing Low Birthweight. National Academy of Sciences. Washington: National Academy Press. 1985.
71. Hamvas A, Wise PH, Yang RK, Wampler NS, Noguchi A, Maurer MM, Walentik CA, Schramm WF. The influence of the wider use of surfactant therapy on neonatal mortality among blacks and whites. NEJM 334(25):1635-40. 1996.
72. Apgar V. A proposal for a new method of evaluation of the newborn infant. Current Researches in Anesthesia and Analgesia 260-267. July-Aug. 1953.
73. Watkins ML, Edmonds L, McClearn A, Mullins L, Mulinare J, Khoury M. The surveillance of birth defects: The usefulness of the revised US standard birth certificate. Am J Public Health 86(5):731-34. 1996.
74. Martin JA, MacDorman MF, Mathews TJ. Triplet births: Trends and outcomes, 1971-94. National Center for Health Statistics. Vital Health Stat 21(55). 1997.
75. Kiely JL, Kleinman JC, Kiely M. Triplets and higher-order multiple births: Time trends and infant mortality. AJDC 146:862-8. 1992.
76. Wilcox LS, Kiely JL, Melvin CL, Martin MC. Assisted reproductive technologies: Estimates of their contribution to multiple births and newborn hospital days in the United States. Fertility and Sterility 65(2):361-66. 1996.
77. Centers for Disease Control and Prevention, American Society for Reproductive Medicine, RESOLVE. 1995 assisted reproductive technology success rates: National summary and fertility clinic reports. Washington: U.S. Department of Health and Human Services. 1997.
78. Centers for Disease Control and Prevention. State-specific variation in rates of
twin births-United States, 1992-1994. MMWR 46(6):121-25. 1997.
79. Alexander GR, Kogan MD, Martin JA, Papiernik E. What are the fetal growth patterns of singletons, twins, and triplets in the United States? Clinical Obstetrics and Gynecology 41(1):115-25. 1998.
80. Kieth LG, Papiernik E, Luke B. The costs of multiple pregnancy. International J Gynecol Obstet 36:109-114. 1991.
81. Kleinman JC, Fowler MG, Kessel SS. Comparison of infant mortality among twins and singletons: United States, 1960 and 1983. Am J Epidemiol 133(2):133-43. 1991.
82. Luke B. Reducing fetal deaths in multiple births: Optimal birthweights and gestational ages for infants of twin and triplet births. Acta Genet Med Gemollol 45:333-48. 1996.
83. National Center for Health Statistics. Unpublished data from the linked birth/infant death data set, 1995 birth cohort.
84. Ettner SL, Christiansen CL, Callahan TL, Hall JE. How low birthweight and gestational age contribute to increased inpatient costs for multiple births. Inquiry 34:325-39. 1997.
85. Ventura SJ, Martin JA, Taffel SM, Mathews TJ, Clarke SC. Advance report of final natality statistics, 1992. Monthly vital statistics report; vol 43 no 5, supp. Hyattsville, Maryland: National Center for Health Statistics. 1994.
86. Berkov B. An evaluation of California's inferred birth statistics for unmarried women. National Center for Health Statistics. Vital Health Stat 2(97). 1985.
87. Ventura SJ, Martin JA, Mathews TJ, Clarke SC. Advance report of final natality statistics, 1994. Monthly vital statistics report; vol 44 no 11, supp. Hyattsville, Maryland: National Center for Health Statistics. 1996.
88. U.S. Bureau of the Census. Age, sex, race, and Hispanic origin information from the 1990 census: A comparison of census results with results where age and race have been modified. 1990 CPH-L74. Washington, DC: U.S. Department of Commerce. 1991.
89. U.S. Bureau of the Census. Estimates of the population of states by age, sex, race, and Hispanic origin: 1990 to 1996. Internet release date, December 1997.
90. U.S. Bureau of the Census. March 1996 Current population survey. September 1996.
91. U.S. Bureau of the Census. Population estimates based on unpublished tabulations prepared by the Housing and Household Economic Statistics Division. 1997.
92. Brockert JE, Stockbauer JW, Senner JW, et al. Recommended standard medical definitions for the U.S. Standard Certificate of Live Birth, 1989 revision. Paper presented at the annual meeting of the Association for Vital Records and Health Statistics. Traverse City, Michigan. June 25-27, 1990.
93. Taffel SM. Cesarean delivery in the United States, 1990. National Center for Health Statistics. Vital Health Stat 21(51). 1994.
94. Lewis CT, Mathews TJ, Heuser RL. Prenatal care in the United States, 1980-94. National Center for Health Statistics. Vital Health Stat 21(54). 1996.

## List of tables

1. Live births, birth rates, and fertility rates, by race: United States, specified years 1940-55 and each year, 1960-96
2. Live births by age of mother, livebirth order, and race of mother: United States, 1996
3. Fertility rates and birth rates by age of mother, live-birth order, and race of mother: United States, $1996 \ldots$
4. Total fertility rates and birth rates by age of mother: United States, 1970-96, and by age and race of mother: United States, 1980-96 . .
5. Fertility rates and birth rates by live-birth order and race of mother: United States, 1980-96
6. Live births, birth rates, and fertility rates, by Hispanic origin of mother and by race for mothers of nonHispanic origin: United States, 1989-96
. Live births by age of mother, livebirth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1996
7. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1996
8. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-96
9. Number of births, birth rates, fertility rates, total fertility rates, and birth rates for teenagers 15-19 years by age of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
10. Live births by race of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
11. Live births by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
12. Total number of births, rates, and percent of births with selected demographic characteristics, by specified race of mother and place of birth of mother: United States, 1996
13. Total number of births, rates, and percent of births with selected demographic characteristics, by Hispanic origin of mother, and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 1996
14. Live births by race of mother and observed and seasonally adjusted birth and fertility rates, by month: United States, 1996
15. Live births by day of week and index of occurrence, by method of delivery, day of week, and race of mother: United States, 1996 . . . .
16. Number, rate, and percent of births to unmarried women by age, race, and Hispanic origin of mother: United States, 1996
17. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-96, and by age, race, and Hispanic origin of mother: United States, 1980-96 . .
18. Number and percent of births to unmarried women, by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996 . .
19. Birth rates by age and race of father: United States, 1980-96 . . .
20. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of school, by age and race of mother: United States, 1996
21. Number of live births and percent distribution by weight gain of mother during pregnancy and median weight gain, according to period of gestation, race, and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 1996
22. Percent low birthweight by weight gain of mother during pregnancy, period of gestation, and race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 1996. $\qquad$
23. Percent of births with selected medical or health characteristics, by specified race of mother, by place
of birth of mother: United States, 1996
24. Percent of births with selected medi-

46
32. Percent low birthweight by smoking status, age, and race and Hispanic origin of mother: Total of 46
reporting States, the District of panic origin of mother: Total of 46
reporting States, the District of Columbia, and New York City, 1996
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, race, and Hispanic origin of mother: United States, 1996 cal or health characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 1996
26. Live births to mothers with selected medical risk factors and rates by age of mother, by race of mother: United States, 1996
27. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by specified race of mother: United States, 1996
28. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1996
29. Number of live births by smoking status of mother, percent smokers, and percent distribution by average number of cigarettes smoked by mothers per day, according to age and race of mother: Total of 46 reporting States, the District of Columbia, and New York City, 1996
30. Number of live births by smoking status of mother and percent of mothers who smoked cigarettes during pregnancy, by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: Total of 46 reporting States, the District of Columbia, and New York City, 1996
31. Number of live births, percent of mothers who smoked cigarettes during pregnancy, and percent distribution by 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, 1996 . . .
origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996 . . . . . .
35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 1996 .
36. Live births to mothers with selected obstetric procedures and rates by age of mother, by race of mother: United States, 1996
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, 1996.
38. Live births by attendant, place of delivery, and race and Hispanic origin of mother: United States, 1996
39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989-96
40. Live births by method of delivery and rates of cesarean delivery and
vaginal birth after previous cesarean delivery, by age and race and ean delivery, by age and race and
Hispanic origin of mother: United States, 1996
41. Rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
42. Rates of cesarean delivery and vaginal birth after previous cesarean delivery, by selected maternal medical risk factors and complications of labor and/or delivery: United States, 1996.
43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 1996
44. Percent of live births preterm and percent of live births of low birthweight and very low birthweight, by race of mother: United States, 1981-96 weight and number of live births
by birthweight, by age and race and Hispanic origin of mother: United States, 1996
46. Number and percent of births of low birthweight, by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996 .
47. Number and percent of births of very low birthweight, by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996 .
48. Live births with selected abnormal conditions of the newborn and rates by age of mother, by race of mother: United States, 1996 $\qquad$
49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 1996
50. Live births by plurality of birth and ratios, by age and race and Hispanic origin of mother: United States, 1996

Guide to tables in Report of Final Natality Statistics, 1996

| TABLE: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Geographic area: States ${ }^{1}$ |  |  |  |  |  |  |  |  |  | 10 | 11 | 12 |  |  |  |  |  |  | 19 |  |  |  |  |  |  |
| United States or all reporting areas. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| Years: Current year only . |  | 2 | 3 |  |  |  | 7 | 8 |  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |  | 19 |  | 21 | 22 | 23 | 24 | 25 |
| Trend | 1 |  |  | 4 | 5 | 6 |  |  | 9 |  |  |  |  |  |  |  |  | 18 |  | 20 |  |  |  |  |  |
| Type of entry: Number of births | 1 | 2 |  |  |  | 6 | 7 |  |  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |  | 19 |  | 21 | 22 |  |  |  |
| Rates or other measures | 1 |  | 3 | 4 | 5 | 6 |  | 8 | 9 | 10 |  |  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| Characteristics: <br> Age of father. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 20 |  |  |  |  |  |
| Age of mother. |  | 2 | 3 | 4 |  |  | 7 |  | 9 |  |  |  |  |  |  |  | 17 | 18 |  |  | 21 |  |  |  |  |
| Alcohol use |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 | 25 |
| Apgar score |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 | 25 |
| Birthweight. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 23 | 24 | 25 |
| Day of week. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 16 |  |  |  |  |  |  |  |  |  |
| Education |  |  |  |  |  |  |  |  |  |  |  |  | 13 | 14 |  |  |  |  |  |  | 21 |  |  |  |  |
| Gestational age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 22 | 23 | 24 | 25 |
| Hispanic origin of mother . |  |  |  |  |  | ${ }^{4} 6$ | ${ }^{4} 7$ | ${ }^{4} 8$ | ${ }^{4} 9$ |  |  | ${ }^{4} 12$ |  | ${ }^{4} 14$ |  |  | ${ }^{6} 17$ | ${ }^{6} 18$ | ${ }^{6} 19$ |  |  | ${ }^{6} 22$ | ${ }^{4} 23$ |  | ${ }^{4} 25$ |
| Live-birth order |  | 2 | 3 |  | 5 |  | 7 | 8 |  |  |  |  | 13 | 14 |  |  |  |  |  |  |  |  |  |  |  |
| Method of delivery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 16 |  |  |  |  |  |  |  | 24 | 25 |
| Month of birth |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |
| Nativity of mother. |  |  |  |  |  |  |  |  |  |  |  |  | 13 | 14 |  |  |  |  |  |  |  |  |  | 24 | 25 |
| Prenatal care |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 | 25 |
| Race of father. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ${ }^{3} 20$ |  |  |  |  |  |
| Race of mother | ${ }^{2} 1$ | ${ }^{2} 2$ | ${ }^{2} 3$ | ${ }^{2} 4$ | ${ }^{3} 5$ | ${ }^{4} 6$ | ${ }^{4} 7$ | 48 | 49 |  | ${ }^{2} 11$ | ${ }^{4} 12$ | ${ }^{5} 13$ | ${ }^{4} 14$ | ${ }^{3} 15$ | ${ }^{3} 16$ | ${ }^{6} 17$ | ${ }^{6} 18$ | ${ }^{6} 19$ |  | ${ }^{3} 21$ | ${ }^{6} 22$ | ${ }^{4} 23$ | $5^{24}$ | ${ }^{4} 25$ |
| Sex of child |  |  |  |  |  |  |  |  |  |  |  |  | 13 | 14 |  |  |  |  |  |  |  |  |  |  |  |
| Teenage mothers. . |  |  |  |  |  |  |  |  |  | 10 |  |  | 13 | 14 |  |  |  |  |  |  |  |  |  |  |  |
| Tobacco use. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 | 25 |
| Unmarried mothers. |  |  |  |  |  |  |  |  |  |  |  |  | 13 | 14 |  |  | 17 | 18 | 19 |  |  |  |  |  |  |
| Weight gain during pregnancy . . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 22 | 23 | 24 | 25 |


| TABLE: <br> Geographic area: <br> States ${ }^{1}$ | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | 34 |  |  |  |  |  |  | 41 |  |  |  |  | 46 | 47 |  |  |  |
| United States or all reporting areas | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| Years: Current year only | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |  | 40 | 41 | 42 |  |  | 45 | 46 | 47 | 48 | 49 | 50 |
| Trend. |  |  |  |  |  |  |  |  |  |  |  |  |  | 39 |  |  |  |  | 44 |  |  |  |  |  |  |
| Type of entry: <br> Number of births. <br> Rates or other measures | 26 | 27 | 28 | 29 | 30 | 31 |  | 33 |  | 35 | 36 | 37 | 38 | 39 | 40 |  | 42 | 43 |  | 45 | 46 | 47 | 48 | 49 | 50 |
|  | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |  | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| Characteristics: <br> Abnormal conditions of newborn |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 48 |  |  |
| Age of mother | 26 |  |  | 29 | 30 |  | 32 | 33 |  |  | 36 | 37 |  |  | 40 |  |  |  |  | 45 |  |  | 48 | 49 | 50 |
| Attendant at birth |  |  |  |  |  |  |  |  |  |  |  |  | 38 |  |  |  |  |  |  |  |  |  |  |  |  |
| Birthweight. |  |  |  |  |  |  | 32 |  |  |  |  |  |  |  |  |  |  | 43 | 44 | 45 | 46 | 47 |  |  |  |
| Complications of labor |  | 27 | 28 |  |  |  |  |  |  |  |  | 37 |  |  |  |  | 42 |  |  |  |  |  |  |  |  |
| Congenital anomalies. . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 49 |  |
|  |  |  |  |  |  | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gestational age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 43 | 44 |  |  |  |  |  |  |
| Hispanic origin of mother |  |  | ${ }^{4} 28$ |  | ${ }^{4} 30$ |  | ${ }^{6} 32$ | ${ }^{6} 33$ | ${ }^{6} 34$ | ${ }^{6} 35$ |  |  | ${ }^{6} 38$ | ${ }^{6} 39$ | ${ }^{6} 40$ | ${ }^{6} 41$ |  | ${ }^{6} 43$ |  | ${ }^{6} 45$ | ${ }^{6} 46$ | ${ }^{6} 47$ |  |  | ${ }^{6} 50$ |
| Medical risk factors . | 26 | 27 | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  | 42 |  |  |  |  |  |  |  |  |
| Method of delivery. |  |  |  |  |  |  |  |  |  |  |  |  |  | 39 | 40 | 41 | 42 |  |  |  |  |  |  |  |  |
| Obstetric procedures |  | 27 | 28 |  |  |  |  |  |  |  | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Place of delivery. |  |  |  |  |  |  |  |  |  |  |  |  | 38 |  |  |  |  |  |  |  |  |  |  |  |  |
| Multiple births . . . . . . . . . . . . . . |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |
| Prenatal care. |  |  |  |  |  |  |  | 33 | 34 | 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Race of mother | ${ }^{3} 26$ | $5^{27}$ | ${ }^{4} 28$ | ${ }^{3} 29$ | ${ }^{4} 30$ | ${ }^{3} 31$ | ${ }^{6} 32$ | ${ }^{6} 33$ | ${ }^{6} 34$ | ${ }^{6} 35$ | ${ }^{3} 36$ | ${ }^{3} 37$ | ${ }^{6} 38$ | ${ }^{6} 39$ | ${ }^{6} 40$ | ${ }^{6} 41$ |  | ${ }^{6} 43$ | ${ }^{3} 44$ | ${ }^{6} 45$ | ${ }^{6} 46$ | ${ }^{6} 47$ | ${ }^{3} 48$ | ${ }^{3} 49$ | ${ }^{6} 50$ |
| Tobacco use . . . . . . . . . . . . . . . |  |  |  | 29 | 30 | 31 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{1}$ Includes data for Puerto Rico, Virgin Islands, and <br> ${ }^{2}$ Includes white, black, American Indian, and Asia <br> ${ }^{3}$ Includes white and black <br> ${ }^{4}$ Includes Mexican, Puerto Rican, Cuban, Central <br> ${ }^{5}$ Includes white, black, American Indian, Chinese, <br> ${ }^{6}$ Includes Hispanic, total white, non-Hispanic white | uam. <br> or Pa <br> nd Sout panes total bla | Islan <br> Ame Haw k, and | er. <br> an, oth an, Fili non-Hi | and <br> , an <br> nic b | , other k. | Hispan sian or | , nonPacific | spanic landers. | hite, al | d non | ispanic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 1. Live births, birth rates, and fertility rates, by race: United States, specified years 1940-55 and each year, 1960-96
[Birth rates are live births per 1,000 population in specified group. Fertility rates per 1,000 women aged $15-44$ years in specified group. Population enumerated as of April 1 for census years and estimated as of July 1 for all other years. Beginning with 1970, excludes births to nonresidents of the United States]

|  | Number |  |  |  |  | Birth rate |  |  |  |  | Fertility rate |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | $\begin{gathered} \text { All } \\ \text { races }^{1} \end{gathered}$ | White | Black | American Indian ${ }^{2}$ | Asian or Pacific Islander | $\begin{gathered} \text { All } \\ \text { races } \end{gathered}$ | White | Black | American Indian ${ }^{2}$ | Asian or <br> 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: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1996 ................. | 3,891,494 | 3,093,057 | 594,781 | 37,880 | 165,776 | 14.7 | 14.1 | 17.8 | 16.6 | 17.0 | 65.3 | 64.3 | 70.7 | 68.7 | 65.9 |
| 1995 .................. | 3,899,589 | 3,098,885 | 603,139 | 37,278 | 160,287 | 14.8 | 14.2 | 18.2 | 16.6 | 17.3 | 65.6 | 64.4 | 72.3 | 69.1 | 66.4 |
| 1994 | 3,952,767 | 3,121,004 | 636,391 | 37,740 | 157,632 | 15.2 | 14.4 | 19.5 | 17.1 | 17.5 | 66.7 | 64.9 | 76.9 | 70.9 | 66.8 |
| 1993 | 4,000,240 | 3,149,833 | 658,875 | 38,732 | 152,800 | 15.5 | 14.7 | 20.5 | 17.8 | 17.7 | 67.6 | 65.4 | 80.5 | 73.4 | 66.7 |
| 1992 | 4,065,014 | 3,201,678 | 673,633 | 39,453 | 150,250 | 15.9 | 15.0 | 21.3 | 18.4 | 18.0 | 68.9 | 66.5 | 83.2 | 75.4 | 67.2 |
| 1991 | 4,110,907 | 3,241,273 | 682,602 | 38,841 | 145,372 | 16.3 | 15.4 | 21.9 | 18.3 | 18.2 | 69.6 | 67.0 | 85.2 | 75.1 | 67.6 |
| 1990 ................. | 4,158,212 | 3,290,273 | 684,336 | 39,051 | 141,635 | 16.7 | 15.8 | 22.4 | 18.9 | 19.0 | 70.9 | 68.3 | 86.8 | 76.2 | 69.6 |
| 1989 .................. | 4,040,958 | 3,192,355 | 673,124 | 39,478 | 133,075 | 16.4 | 15.4 | 22.3 | 19.7 | 18.7 | 69.2 | 66.4 | 86.2 | 79.0 | 68.2 |
| 1988 .................. | 3,909,510 | 3,102,083 | 638,562 | 37,088 | 129,035 | 16.0 | 15.0 | 21.5 | 19.3 | 19.2 | 67.3 | 64.5 | 82.6 | 76.8 | 70.2 |
| 1987 | 3,809,394 | 3,043,828 | 611,173 | 35,322 | 116,560 | 15.7 | 14.9 | 20.8 | 19.1 | 18.4 | 65.8 | 63.3 | 80.1 | 75.6 | 67.1 |
| 1986 | 3,756,547 | 3,019,175 | 592,910 | 34,169 | 107,797 | 15.6 | 14.8 | 20.5 | 19.2 | 18.0 | 65.4 | 63.1 | 78.9 | 75.9 | 66.0 |
| 1985 | 3,760,561 | 3,037,913 | 581,824 | 34,037 | 104,606 | 15.8 | 15.0 | 20.4 | 19.8 | 18.7 | 66.3 | 64.1 | 78.8 | 78.6 | 68.4 |
| 19843 | 3,669,141 | 2,967,100 | 568,138 | 33,256 | 98,926 | 15.6 | 14.8 | 20.1 | 20.1 | 18.8 | 65.5 | 63.2 | 78.2 | 79.8 | 69.2 |
| 1983 3 | 3,638,933 | 2,946,468 | 562,624 | 32,881 | 95,713 | 15.6 | 14.8 | 20.2 | 20.6 | 19.5 | 65.7 | 63.4 | 78.7 | 81.8 | 71.7 |
| 19823 | 3,680,537 | 2,984,817 | 568,506 | 32,436 | 93,193 | 15.9 | 15.1 | 20.7 | 21.1 | 20.3 | 67.3 | 64.8 | 80.9 | 83.6 | 74.8 |
| 19813 | 3,629,238 | 2,947,679 | 564,955 | 29,688 | 84,553 | 15.8 | 15.0 | 20.8 | 20.0 | 20.1 | 67.3 | 64.8 | 82.0 | 79.6 | 73.7 |
| $1980{ }^{3}$............... | 3,612,258 | 2,936,351 | 568,080 | 29,389 | 74,355 | 15.9 | 15.1 | 21.3 | 20.7 | 19.9 | 68.4 | 65.6 | 84.7 | 82.7 | 73.2 |
| Race of child: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $1980{ }^{3}$ | 3,612,258 | 2,898,732 | 589,616 | 36,797 | --- | 15.9 | 14.9 | 22.1 | --- | --- | 68.4 | 64.7 | 88.1 | --- | --- |
| 19793 | 3,494,398 | 2,808,420 | 577,855 | 34,269 | --- | 15.6 | 14.5 | 22.0 | --- | --- | 67.2 | 63.4 | 88.3 | --- | --- |
| $1978{ }^{3}$ | 3,333,279 | 2,681,116 | 551,540 | 33,160 | --- | 15.0 | 14.0 | 21.3 | --- | --- | 65.5 | 61.7 | 86.7 | --- | --- |
| $1977{ }^{3}$ | 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 | --- | --- |
| 1974 | 3,159,958 | 2,575,792 | 507,162 | 26,631 | --- | 14.8 | 13.9 | 20.8 | --- | --- | 67.8 | 64.2 | 89.7 | --- | --- |
| 1973 | 3,136,965 | 2,551,030 | 512,597 | 26,464 | --- | 14.8 | 13.8 | 21.4 | --- | --- | 68.8 | 64.9 | 93.6 | --- | --- |
| $1972{ }^{3}$ | 3,258,411 | 2,655,558 | 531,329 | 27,368 | --- | 15.6 | 14.5 | 22.5 | --- | --- | 73.1 | 68.9 | 99.9 | --- | --- |
| 19714 | 3,555,970 | 2,919,746 | 564,960 | 27,148 | --- | 17.2 | 16.1 | 24.4 | --- | --- | 81.6 | 77.3 | 109.7 | --- |  |
| 19704 | 3,731,386 | 3,091,264 | 572,362 | 25,864 | --- | 18.4 | 17.4 | 25.3 | --- | --- | 87.9 | 84.1 | 115.4 | --- | --- |
| 19694 ............... | 3,600,206 | 2,993,614 | 543,132 | 24,008 | --- | 17.9 | 16.9 | 24.4 | --- | --- | 86.1 | 82.2 | 112.1 | --- | --- |
| 19684 | 3,501,564 | 2,912,224 | 531,152 | 24,156 | --- | 17.6 | 16.6 | 24.2 | --- | --- | 85.2 | 81.3 | 112.7 | --- | --- |
| 19675 ............... | 3,520,959 | 2,922,502 | 543,976 | 22,665 | --- | 17.8 | 16.8 | 25.1 | --- | --- | 87.2 | 82.8 | 118.5 | --- | --- |
| $1966{ }^{4}$............... | 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 | --- |  |
| 1964 | 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 | --- | --- | --- |
| $1961{ }^{4}$............... | 4,268,326 | 3,600,864 | 611,072 | 21,464 | --- | 23.3 | 22.2 | --- | --- | --- | 117.1 | 112.3 | --- | --- | --- |
| $1960{ }^{4}$............... | 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 underregistration |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Race of child: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1955 ................. | 4,097,000 | 3,485,000 | --- | --- | --- | 25.0 | 23.8 | --- | --- | --- | 118.3 | 113.7 | --- | --- | --- |
| 1950 ................. | 3,632,000 | 3,108,000 | --- | --- | --- | 24.1 | 23.0 | --- | --- | --- | 106.2 | 102.3 | --- | --- | --- |
| 1945 .................. | 2,858,000 | 2,471,000 | --- | --- | --- | 20.4 | 19.7 | --- | --- | --- | 85.9 | 83.4 | --- | --- | --- |
| 1940 ................. | 2,559,000 | 2,199,000 | --- | --- | --- | 19.4 | 18.6 | --- | --- | --- | 79.9 | 77.1 | --- | --- | --- |

[^2]NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 2. Live births by age of mother, live-birth order, and race of mother: United States, 1996
[Live-birth order refers to number of children born alive to mother]

| Live-birth order and race of mother | $\begin{aligned} & \text { All } \\ & \text { ages } \end{aligned}$ | Age of mother |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 15 years | 15-19 years |  |  |  |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-44 years | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{gathered} 15 \\ \text { years } \end{gathered}$ | $\begin{gathered} 16 \\ \text { years } \end{gathered}$ | $\begin{gathered} 17 \\ \text { years } \end{gathered}$ | $\begin{gathered} 18 \\ \text { years } \end{gathered}$ | $\begin{gathered} 19 \\ \text { years } \end{gathered}$ |  |  |  |  |  |  |
| All races ........................ | 3,891,494 | 11,148 | 491,577 | 28,540 | 60,287 | 96,894 | 135,059 | 170,797 | 945,210 | 1,071,287 | 897,913 | 399,510 | 71,804 | 3,045 |
| First child ........................ | 1,589,512 | 10,820 | 381,910 | 27,040 | 54,337 | 81,263 | 102,714 | 116,556 | 442,949 | 401,788 | 249,272 | 87,279 | 14,866 | 628 |
| Second child ................... | 1,251,760 | 249 | 88,895 | 1,291 | 5,189 | 13,554 | 26,729 | 42,132 | 318,896 | 371,734 | 324,102 | 127,960 | 19,317 | 607 |
| Third child ...................... | 624,631 | 6 | 15,521 | 44 | 356 | 1,404 | 4,296 | 9,421 | 126,452 | 185,197 | 189,625 | 92,517 | 14,791 | 522 |
| Fourth child .................... | 240,074 | 1 | 2,190 | - | 27 | 127 | 521 | 1,515 | 38,067 | 68,228 | 76,327 | 46,016 | 8,888 | 357 |
| Fifth child ........................ | 89,795 | - | 259 | 1 | 6 | 15 | 41 | 196 | 10,402 | 23,939 | 29,314 | 20,582 | 5,046 | 253 |
| Sixth child ....................... | 37,340 | - | 37 | - | - | 2 | 5 | 30 | 2,621 | 8,893 | 12,627 | 10,066 | 2,970 | 126 |
| Seventh child .................. | 17,274 | - | 11 | - | 1 | 1 | 3 | 6 | 632 | 3,455 | 5,860 | 5,346 | 1,841 | 129 |
| Eighth child and over ........ | 17,966 | ${ }^{-}$ | 9 | - |  | - | 1 | 8 | 247 | 1,975 | 5,077 | 6,802 | 3,467 | 389 |
| Not stated ....................... | 23,142 | 72 | 2,745 | 164 | 371 | 528 | 749 | 933 | 4,944 | 6,078 | 5,709 | 2,942 | 618 | 34 |
| White ............................ | 3,093,057 | 5,526 | 344,685 | 16,978 | 39,401 | 66,997 | 96,246 | 125,063 | 726,669 | 878,449 | 747,436 | 329,782 | 58,062 | 2,448 |
| First child ........................ | 1,271,157 | 5,377 | 275,543 | 16,251 | 36,207 | 57,856 | 76,050 | 89,179 | 355,805 | 338,428 | 209,516 | 73,393 | 12,564 | 531 |
| Second child ................... | 1,014,793 | 111 | 57,940 | 613 | 2,760 | 8,079 | 17,244 | 29,244 | 249,076 | 311,204 | 273,609 | 106,553 | 15,798 | 502 |
| Third child ....................... | 496,684 | 3 | 8,317 | 16 | 182 | 645 | 2,209 | 5,265 | 89,241 | 149,753 | 160,011 | 77,094 | 11,815 | 450 |
| Fourth child .................... | 182,191 | - | 929 | - | 6 | 54 | 213 | 656 | 22,623 | 51,155 | 62,312 | 37,806 | 7,079 | 287 |
| Fifth child ........................ | 63,327 | - | 95 | - | 2 | 5 | 20 | 68 | 4,962 | 15,763 | 22,143 | 16,232 | 3,946 | 186 |
| Sixth child ....................... | 24,967 | - | 13 | - | - | 1 | 1 | 11 | 1,028 | 5,083 | 8,787 | 7,663 | 2,311 | 82 |
| Seventh child .................. | 11,065 | - | 5 | - | - | - | 2 | 3 | 228 | 1,653 | 3,718 | 3,944 | 1,415 | 102 |
| Eighth child and over ........ | 11,341 | 5 | 3 | - | - | - | 1 | 2 | 100 | 756 | 2,806 | 4,750 | 2,646 | 280 |
| Not stated ....................... | 17,532 | 35 | 1,840 | 98 | 244 | 357 | 506 | 635 | 3,606 | 4,654 | 4,534 | 2,347 | 488 | 28 |
| Black ............................. | 594,781 | 5,193 | 130,596 | 10,498 | 18,753 | 26,775 | 34,394 | 40,176 | 179,361 | 133,204 | 94,295 | 43,716 | 8,124 | 292 |
| First child ........................ | 230,370 | 5,037 | 93,631 | 9,800 | 16,225 | 20,796 | 23,270 | 23,540 | 66,830 | 35,718 | 20,391 | 7,535 | 1,184 | 44 |
| Second child ................... | 171,424 | 117 | 28,159 | 609 | 2,238 | 5,053 | 8,677 | 11,582 | 58,271 | 42,034 | 29,060 | 11,890 | 1,830 | 63 |
| Third child ....................... | 100,149 | 2 | 6,633 | 24 | 154 | 696 | 1,921 | 3,838 | 32,607 | 28,014 | 21,028 | 10,055 | 1,778 | 32 |
| Fourth child .................... | 47,035 | 1 | 1,138 |  | 16 | 63 | 272 | 787 | 13,751 | 14,035 | 10,821 | 6,039 | 1,203 | 47 |
| Fifth child ........................ | 21,555 | - | 153 | 1 | 4 | 8 | 19 | 121 | 4,833 | 6,720 | 5,687 | 3,358 | 762 | 42 |
| Sixth child ....................... | 9,981 | - | 20 | - | - | - | 3 | 17 | 1,408 | 3,138 | 3,045 | 1,882 | 463 | 25 |
| Seventh child ................... | 4,843 | - | 4 | - | 1 | 1 | - | 2 | 359 | 1,456 | 1,667 | 1,060 | 291 | 6 |
| Eighth child and over ........ | 4,864 | ${ }^{-}$ | 6 | ${ }^{-}$ | - | - | - | 6 | 133 | 974 | 1,748 | 1,458 | 516 | 29 |
| Not stated ....................... | 4,560 | 36 | 852 | 64 | 115 | 158 | 232 | 283 | 1,169 | 1,115 | 848 | 439 | 97 | 4 |
| American Indian ${ }^{1}$............ | 37,880 | 202 | 7,731 | 524 | 1,072 | 1,492 | 2,115 | 2,528 | 12,142 | 8,844 | 5,816 | 2,606 | 524 | 15 |
| First child ........................ | 13,654 | 194 | 6,010 | 500 | 976 | 1,271 | 1,599 | 1,664 | 4,469 | 1,787 | 856 | 285 | 51 | 2 |
| Second child ................... | 10,131 | 7 | 1,411 | 21 | 84 | 196 | 430 | 680 | 4,298 | 2,502 | 1,320 | 510 | 81 | 2 |
| Third child ....................... | 6,526 | - | 253 | 1 | 6 | 17 | 76 | 153 | 2,187 | 2,101 | 1,353 | 530 | 100 | 2 |
| Fourth child .................... | 3,677 | - | 35 | - | - | , | 8 | 26 | 828 | 1,272 | 976 | 475 | 86 | 5 |
| Fifth child ........................ | 1,916 | - | 2 | - | - | - | 1 | 1 | 238 | 689 | 627 | 296 | 64 |  |
| Sixth child ....................... | 950 | - | 1 | - | - | 1 | - | - | 65 | 282 | 353 | 197 | 51 |  |
| Seventh child ................... | 459 | - | - | - | - | - | - | - | 12 | 108 | 178 | 126 | 33 | 2 |
| Eighth child and over ........ | 429 | - | $\overline{-}$ | - | - | - | - | - | 2 | 63 | 135 | 171 | 57 | 1 |
| Not stated ...................... | 138 | 1 | 19 | 2 | 6 | 6 | 1 | 4 | 43 | 40 | 18 | 16 | 1 |  |
| Asian or Pacific Islander ... | 165,776 | 227 | 8,565 | 540 | 1,061 | 1,630 | 2,304 | 3,030 | 27,038 | 50,790 | 50,366 | 23,406 | 5,094 | 290 |
| First child ....................... | 74,331 | 212 | 6,726 | 489 | 929 | 1,340 | 1,795 | 2,173 | 15,845 | 25,855 | 18,509 | 6,066 | 1,067 | 51 |
| Second child ................... | 55,412 | 14 | 1,385 | 48 | 107 | 226 | 378 | 626 | 7,251 | 15,994 | 20,113 | 9,007 | 1,608 | 40 |
| Third child ...................... | 21,272 | 1 | 318 | 3 | 14 | 46 | 90 | 165 | 2,417 | 5,329 | 7,233 | 4,838 | 1,098 | 38 |
| Fourth child .................... | 7,171 | - | 88 | - | 5 | 9 | 28 | 46 | 865 | 1,766 | 2,218 | 1,696 | 520 | 18 |
| Fifth child ........................ | 2,997 | - | 9 | - | - | 2 | 1 | 6 | 369 | 767 | 857 | 696 | 274 | 25 |
| Sixth child ....................... | 1,442 | - | 3 | - | - | - | 1 | 2 | 120 | 390 | 442 | 324 | 145 | 18 |
| Seventh child .................. | 907 | - | 2 | - | - | - | 1 | 1 | 33 | 238 | 297 | 216 | 102 | 19 |
| Eighth child and over ........ | 1,332 | - | 4 | - | 6 | 7 | $10^{-}$ | 11 | 12 | 182 | 388 | 423 | 248 | 79 |
| Not stated ....................... | 912 | - | 34 | - | 6 | 7 | 10 | 11 | 126 | 269 | 309 | 140 | 32 | 2 |

## -Quantity zero.

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

Table 3. Fertility rates and birth rates by age of mother, live-birth order, and race of mother: United States, 1996
[Rates are live births per 1,000 women in specified age and racial group. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

| Live-birth order and race of mother | $\begin{gathered} 15-44 \\ \text { years }^{1} \end{gathered}$ | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & 10-14 \\ & \text { years } \end{aligned}$ | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-44 years | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |  |
| All races ........................... | 65.3 | 1.2 | 54.4 | 33.8 | 86.0 | 110.4 | 113.1 | 83.9 | 35.3 | 6.8 | 0.3 |
| First child .......................... | 26.8 | 1.2 | 42.5 | 29.8 | 62.0 | 52.0 | 42.7 | 23.4 | 7.8 | 1.4 | 0.1 |
| Second child ...................... | 21.1 | 0.0 | 9.9 | 3.7 | 19.5 | 37.4 | 39.5 | 30.5 | 11.4 | 1.9 | 0.1 |
| Third child | 10.5 | * | 1.7 | 0.3 | 3.9 | 14.8 | 19.7 | 17.8 | 8.2 | 1.4 | 0.1 |
| Fourth child ....................... | 4.1 | * | 0.2 | 0.0 | 0.6 | 4.5 | 7.2 | 7.2 | 4.1 | 0.9 | 0.0 |
| Fifth child .......................... | 1.5 | * | 0.0 | 0.0 | 0.1 | 1.2 | 2.5 | 2.8 | 1.8 | 0.5 | 0.0 |
| Sixth and seventh child ....... | 0.9 | * | 0.0 | * | 0.0 | 0.4 | 1.3 | 1.7 | 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 ............................... | 64.3 | 0.8 | 48.1 | 28.4 | 78.4 | 107.2 | 116.1 | 86.3 | 35.6 | 6.7 | 0.3 |
| First child .......................... | 26.6 | 0.7 | 38.7 | 25.6 | 58.8 | 52.8 | 45.0 | 24.3 | 8.0 | 1.5 | 0.1 |
| Second child ...................... | 21.2 | 0.0 | 8.1 | 2.7 | 16.6 | 36.9 | 41.4 | 31.8 | 11.6 | 1.8 | 0.1 |
| Third child ......................... | 10.4 | * | 1.2 | 0.2 | 2.7 | 13.2 | 19.9 | 18.6 | 8.4 | 1.4 | 0.1 |
| Fourth child ....................... | 3.8 | * | 0.1 | 0.0 | 0.3 | 3.4 | 6.8 | 7.2 | 4.1 | 0.8 | 0.0 |
| Fifth child .......................... | 1.3 | * | 0.0 | * | 0.0 | 0.7 | 2.1 | 2.6 | 1.8 | 0.5 | 0.0 |
| Sixth and seventh child ....... | 0.8 | * | * | * | * | 0.2 | 0.9 | 1.5 | 1.3 | 0.4 | 0.0 |
| Eighth child and over ........... | 0.2 | * | * | * | * | 0.0 | 0.1 | 0.3 | 0.5 | 0.3 | 0.0 |
| Black ............................... | 70.7 | 3.6 | 91.4 | 64.7 | 132.5 | 136.8 | 98.2 | 63.3 | 29.1 | 6.1 | 0.3 |
| First child ........................... | 27.6 | 3.5 | 65.9 | 54.4 | 83.7 | 51.3 | 26.5 | 13.8 | 5.1 | 0.9 | 0.0 |
| Second child ...................... | 20.5 | 0.1 | 19.8 | 9.2 | 36.2 | 44.7 | 31.2 | 19.7 | 8.0 | 1.4 | 0.1 |
| Third child ......................... | 12.0 | * | 4.7 | 1.0 | 10.3 | 25.0 | 20.8 | 14.2 | 6.8 | 1.4 | 0.0 |
| Fourth child ....................... | 5.6 | * | 0.8 | 0.1 | 1.9 | 10.6 | 10.4 | 7.3 | 4.1 | 0.9 | 0.0 |
| Fifth child .......................... | 2.6 | * | 0.1 | * | 0.3 | 3.7 | 5.0 | 3.9 | 2.3 | 0.6 | 0.0 |
| Sixth and seventh child ....... | 1.8 | * | 0.0 | * | 0.0 | 1.4 | 3.4 | 3.2 | 2.0 | 0.6 | 0.0 |
| Eighth child and over .......... | 0.6 | * | * | * | * | 0.1 | 0.7 | 1.2 | 1.0 | 0.4 | 0.0 |
| American Indian ${ }^{2}$............... | 68.7 | 1.7 | 73.9 | 46.4 | 122.3 | 133.9 | 98.5 | 63.2 | 28.5 | 6.3 | * |
| First child | 24.9 | 1.7 | 57.6 | 41.4 | 86.1 | 49.5 | 20.0 | 9.3 | 3.1 | 0.6 | * |
| Second child ...................... | 18.4 | * | 13.5 | 4.5 | 29.3 | 47.6 | 28.0 | 14.4 | 5.6 | 1.0 | * |
| Third child ......................... | 11.9 | * | 2.4 | 0.4 | 6.0 | 24.2 | 23.5 | 14.7 | 5.8 | 1.2 | * |
| Fourth child ....................... | 6.7 | * | 0.3 | * | 0.9 | 9.2 | 14.2 | 10.6 | 5.2 | 1.0 | * |
| Fifth child .......................... | 3.5 | * | * | * | * | 2.6 | 7.7 | 6.8 | 3.3 | 0.8 | * |
| Sixth and seventh child ....... | 2.6 | * | * | * | * | 0.8 | 4.4 | 5.8 | 3.6 | 1.0 | * |
| Eighth child and over ........... | 0.8 | * | * | * | * | * | 0.7 | 1.5 | 1.9 | 0.7 | * |
| Asian or Pacific Islander ...... | 65.9 | 0.6 | 24.6 | 14.9 | 40.4 | 70.7 | 111.2 | 109.2 | 52.2 | 12.2 | 0.8 |
| First child ........................... | 29.7 | 0.6 | 19.4 | 12.8 | 30.2 | 41.6 | 56.9 | 40.4 | 13.6 | 2.6 | 0.1 |
| Second child ...................... | 22.1 | * | 4.0 | 1.8 | 7.6 | 19.1 | 35.2 | 43.9 | 20.2 | 3.9 | 0.1 |
| Third child ......................... | 8.5 | * | 0.9 | 0.3 | 1.9 | 6.3 | 11.7 | 15.8 | 10.8 | 2.6 | 0.1 |
| Fourth child ....................... | 2.9 | * | 0.3 | * | 0.6 | 2.3 | 3.9 | 4.8 | 3.8 | 1.2 | * |
| Fifth child .......................... | 1.2 | * | * | * | * | 1.0 | 1.7 | 1.9 | 1.6 | 0.7 | 0.1 |
| Sixth and seventh child ....... | 0.9 | * | * | * | * | 0.4 | 1.4 | 1.6 | 1.2 | 0.6 | 0.1 |
| Eighth child and over ........... | 0.5 | * | * | * | * | * | 0.4 | 0.8 | 0.9 | 0.6 | 0.2 |

* Figure does not meet standards of reliability or precision.
0.0 Quantity more than zero but less than 0.05 .
1.0 Quantity more than zero but less than 0.05 .
Rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.

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

Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-96, and by age and race of mother: United States, 1980-96
[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 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | -19 yea |  |  |  |  |  |  |  |
|  |  | years | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ | years | years | years | years | years | years |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| 1996 .......................... | 2,027.0 | 1.2 | 54.4 | 33.8 | 86.0 | 110.4 | 113.1 | 83.9 | 35.3 | 6.8 | 0.3 |
| 1995 .......................... | 2,019.0 | 1.3 | 56.8 | 36.0 | 89.1 | 109.8 | 112.2 | 82.5 | 34.3 | 6.6 | 0.3 |
| 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 |
| $1978{ }^{2}$ | 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 |
| $1975{ }^{2}$ | 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 |
| 1971 3 ........................ | 2,266.5 | 1.1 | 64.5 | 38.2 | 105.3 | 150.1 | 134.1 | 67.3 | 28.7 | 7.1 | 0.4 |
| $1970{ }^{3}$....................... | 2,480.0 | 1.2 | 68.3 | 38.8 | 114.7 | 167.8 | 145.1 | 73.3 | 31.7 | 8.1 | 0.5 |
| White |  |  |  |  |  |  |  |  |  |  |  |
| 1996 ............ | 2,005.5 | 0.8 | 48.1 | 28.4 | 78.4 | 107.2 | 116.1 | 86.3 | 35.6 | 6.7 | 0.3 |
| 1995 | 1,989.0 | 0.8 | 50.1 | 30.0 | 81.2 | 106.3 | 114.8 | 84.6 | 34.5 | 6.4 | 0.3 |
| 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 |
| $1982{ }^{2}$ | 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 |
| Black |  |  |  |  |  |  |  |  |  |  |  |
| 1996 .......................... | 2,144.0 | 3.6 | 91.4 | 64.7 | 132.5 | 136.8 | 98.2 | 63.3 | 29.1 | 6.1 | 0.3 |
| 1995 .......................... | 2,175.0 | 4.2 | 96.1 | 69.7 | 137.1 | 137.1 | 98.6 | 64.0 | 28.7 | 6.0 | 0.3 |
| 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 |
| $1980{ }^{2}$....................... | 2,176.5 | 4.3 | 97.8 | 72.5 | 135.1 | 140.0 | 103.9 | 59.9 | 23.5 | 5.6 | 0.3 |

See footnotes at end of table.

Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-96, and by age and race of mother: United States, 1980-96 --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 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 15-19 years |  |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-44 years | $45-49$years |
|  |  | years | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |  |
| American Indian 4 |  |  |  |  |  |  |  |  |  |  |  |
| 1996 | 2,030.0 | 1.7 | 73.9 | 46.4 | 122.3 | 133.9 | 98.5 | 63.2 | 28.5 | 6.3 | * |
| 1995 .......................... | 2,033.5 | 1.8 | 78.0 | 47.8 | 130.7 | 132.5 | 98.4 | 62.2 | 27.7 | 6.1 | * |
| 1994 | 2,080.0 | 1.9 | 80.8 | 51.3 | 130.3 | 134.2 | 104.1 | 61.2 | 27.5 | 5.9 | 0.4 |
| 1993 ......................... | 2,141.0 | 1.4 | 83.1 | 53.7 | 130.7 | 139.8 | 107.6 | 62.8 | 27.6 | 5.9 | * |
| 1992 .......................... | 2,190.0 | 1.6 | 84.4 | 53.8 | 132.6 | 145.5 | 109.4 | 63.0 | 28.0 | 6.1 | * |
| 1991 .......................... | 2,169.0 | 1.6 | 85.0 | 52.7 | 134.3 | 144.9 | 106.9 | 61.9 | 27.2 | 5.9 | 0.4 |
| 1990 .......................... | 2,183.0 | 1.6 | 81.1 | 48.5 | 129.3 | 148.7 | 110.3 | 61.5 | 27.5 | 5.9 |  |
| 1989 .......................... | 2,247.0 | 1.5 | 82.7 | 51.6 | 128.9 | 152.4 | 114.2 | 64.8 | 27.4 | 6.4 | * |
| 1988 .......................... | 2,153.5 | 1.7 | 77.5 | 49.7 | 121.1 | 145.2 | 110.9 | 64.5 | 25.6 | 5.3 | * |
| 1987 .......................... | 2,099.0 | 1.7 | 77.2 | 48.8 | 122.2 | 140.0 | 107.9 | 63.0 | 24.4 | 5.6 | * |
| 1986 .......................... | 2,082.0 | 1.8 | 78.1 | 48.7 | 125.3 | 138.8 | 107.9 | 60.7 | 23.8 | 5.3 | * |
| 1985 ......................... | 2,128.0 | 1.7 | 79.2 | 47.7 | 124.1 | 139.1 | 109.6 | 62.6 | 27.4 | 6.0 | * |
| 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 |  |  |  |  |  |  |  |  |  |  |  |
| 1996 .......................... | 1,907.5 | 0.6 | 24.6 | 14.9 | 40.4 | 70.7 | 111.2 | 109.2 | 52.2 | 12.2 | 0.8 |
| 1995 .......................... | 1,924.0 | 0.7 | 26.1 | 15.4 | 43.4 | 72.4 | 113.4 | 106.9 | 52.4 | 12.1 | 0.8 |
| 1994 .......................... | 1,943.0 | 0.7 | 27.1 | 16.1 | 44.1 | 73.1 | 118.6 | 105.2 | 51.3 | 11.6 | 1.0 |
| 1993 .......................... | 1,935.5 | 0.6 | 27.0 | 16.0 | 43.3 | 73.3 | 119.9 | 103.9 | 50.2 | 11.3 | 0.9 |
| 1992 .......................... | 1,942.0 | 0.7 | 26.6 | 15.2 | 43.1 | 74.6 | 121.0 | 103.0 | 50.6 | 11.0 | 0.9 |
| 1991 .......................... | 1,956.0 | 0.8 | 27.4 | 16.1 | 43.1 | 75.2 | 123.2 | 103.3 | 49.0 | 11.2 | 1.1 |
| 1990 .......................... | 2,002.5 | 0.7 | 26.4 | 16.0 | 40.2 | 79.2 | 126.3 | 106.5 | 49.6 | 10.7 | 1.1 |
| 1989 .......................... | 1,947.5 | 0.6 | 25.6 | 15.0 | 40.4 | 78.8 | 124.0 | 102.3 | 47.0 | 10.2 | 1.0 |
| 1988 .......................... | 1,983.5 | 0.6 | 24.2 | 13.6 | 39.6 | 80.7 | 128.0 | 104.4 | 47.5 | 10.3 | 1.0 |
| 1987 .......................... | 1,886.0 | 0.6 | 22.4 | 12.6 | 37.0 | 79.7 | 122.7 | 97.0 | 44.2 | 9.5 | 1.1 |
| 1986 .......................... | 1,836.0 | 0.5 | 22.8 | 12.1 | 38.8 | 79.2 | 119.9 | 92.6 | 41.9 | 9.3 | 1.0 |
| 1985 .......................... | 1,885.0 | 0.4 | 23.8 | 12.5 | 40.8 | 83.6 | 123.0 | 93.6 | 42.7 | 8.7 | 1.2 |
| 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 |

[^3]NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 5. Fertility rates and birth rates by live-birth order and race of mother: United States, 1980-96
[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]

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

[^4]2 Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States: see Technical notes.
NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 6. Live births, birth rates, and fertility rates by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-96

| Measure and year | All origins ${ }^{1}$ | Hispanic |  |  |  |  |  | Non-Hispanic |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{2}$ | White | Black |
| Number |  |  |  |  |  |  |  |  |  |  |
| 1996 | 3,891,494 | 701,339 | 489,666 | 54,863 | 12,613 | 97,888 | 46,309 | 3,133,484 | 2,358,989 | 578,099 |
| 1995 | 3,899,589 | 679,768 | 469,615 | 54,824 | 12,473 | 94,996 | 47,860 | 3,160,495 | 2,382,638 | 587,781 |
| 1994 | 3,952,767 | 665,026 | 454,536 | 57,240 | 11,889 | 93,485 | 47,876 | 3,245,115 | 2,438,855 | 619,198 |
| 1993 | 4,000,240 | 654,418 | 443,733 | 58,102 | 11,916 | 92,371 | 48,296 | 3,295,345 | 2,472,031 | 641,273 |
| 19923 | 4,049,024 | 643,271 | 432,047 | 59,569 | 11,472 | 89,031 | 51,152 | 3,365,862 | 2,527,207 | 657,450 |
| 19913 | 4,094,566 | 623,085 | 411,233 | 59,833 | 11,058 | 86,908 | 54,053 | 3,434,464 | 2,589,878 | 666,758 |
| 19904 | 4,092,994 | 595,073 | 385,640 | 58,807 | 11,311 | 83,008 | 56,307 | 3,457,417 | 2,626,500 | 661,701 |
| 19895 | 3,903,012 | 532,249 | 327,233 | 56,229 | 10,842 | 72,443 | 65,502 | 3,297,493 | 2,526,367 | 611,269 |
| Birth rate 6 |  |  |  |  |  |  |  |  |  |  |
| 1996 | 14.7 | 24.8 | 27.4 | 17.9 | 10.7 | ${ }^{7} 23.4$ |  | 13.5 | 12.4 | 18.3 |
| 1995 | 14.8 | 25.2 | 26.9 | 19.7 | 11.0 | ${ }^{7} 25.3$ |  | 13.7 | 12.6 | 18.8 |
| 1994 | 15.2 | 25.5 | 27.0 | 21.4 | 10.8 | 725.7 |  | 14.0 | 12.8 | 20.0 |
| 1993 | 15.5 | 26.0 | 27.4 | 21.9 | 10.5 | 726.9 |  | 14.4 | 13.1 | 21.1 |
| 19923 | 15.9 | 26.5 | 27.8 | 23.2 | 10.1 | 727.9 |  | 14.8 | 13.5 | 21.9 |
| 19918 | 16.3 | 26.7 | 29.2 | 21.0 | 10.1 | 726.5 |  | 15.2 | 13.9 | 22.5 |
| 19904 | 16.7 | 26.7 | 28.7 | 21.6 | 10.9 | 727.5 |  | 15.7 | 14.4 | 23.0 |
| 19895 | 16.3 | 26.2 | 25.7 | 23.7 | 10.0 | 728.3 |  | 15.4 | 14.2 | 22.8 |
| Fertility rate ${ }^{9}$ |  |  |  |  |  |  |  |  |  |  |
| 1996 | 65.3 | 104.9 | 119.3 | 71.3 | 58.9 | 790.2 |  | 60.3 | 57.3 | 72.5 |
| 1995 | 65.6 | 105.0 | 117.0 | 75.7 | 55.1 | 794.5 |  | 60.8 | 57.6 | 74.5 |
| 1994 | 66.7 | 105.6 | 115.4 | 81.9 | 55.9 | 797.7 |  | 62.0 | 58.3 | 79.0 |
| 1993 | 67.6 | 106.9 | 114.8 | 82.5 | 55.5 | 7105.0 |  | 63.1 | 59.0 | 82.7 |
| 19923 | 68.9 | 108.6 | 116.0 | 89.9 | 50.3 | 7107.0 |  | 64.4 | 60.2 | 85.5 |
| 19918 | 69.6 | 108.1 | 121.6 | 80.9 | 49.1 | 799.3 |  | 65.4 | 61.0 | 87.6 |
| 19904 | 71.0 | 107.7 | 118.9 | 82.9 | 52.6 | 7102.7 |  | 67.1 | 62.8 | 89.0 |
| 19895 | 69.2 | 104.9 | 106.6 | 86.6 | 49.8 | 795.8 |  | 65.7 | 60.5 | 84.8 |

[^5]NOTE: Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race See Technical notes.

Table 7. Live births by age of mother, live-birth order, Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1996
[Live-birth order refers to number of children born alive to mother]

| Live-birth order and origin of mother 1 | $\begin{gathered} \text { All } \\ \text { ages } \end{gathered}$ | Age of mother |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 15 years | 15-19 years |  |  |  |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-44 years | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{gathered} 15 \\ \text { years } \end{gathered}$ | $\begin{gathered} 16 \\ \text { years } \end{gathered}$ | $\begin{gathered} 17 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 18 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 19 \\ \text { years } \end{gathered}$ |  |  |  |  |  |  |
| Hispanic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total ....... | 701,339 | 3,056 | 118,878 | 7,971 | 16,139 | 24,234 | 31,711 | 38,823 | 214,173 | 185,478 | 119,690 | 49,812 | 9,819 | 433 |
| First child | 265,986 | 2,961 | 89,249 | 7,475 | 14,272 | 19,565 | 22,896 | 25,041 | 93,352 | 49,769 | 22,387 | 6,977 | 1,244 | 47 |
| Second child ............... | 209,983 | 74 | 23,932 | 420 | 1,601 | 4,045 | 7,220 | 10,646 | 75,151 | 62,973 | 34,555 | 11,490 | 1,746 | 62 |
| Third child .................. | 124,529 | 2 | 4,109 | 11 | 128 | 391 | 1,179 | 2,400 | 31,609 | 43,255 | 31,308 | 12,173 | 2,012 | 61 |
| Fourth child ................ | 55,839 | - | 547 | - | 3 | 33 | 140 | 371 | 9,388 | 18,329 | 17,277 | 8,686 | 1,545 | 67 |
| Fifth child .................. | 22,618 | - | 57 | - | 2 | 3 | 10 | 42 | 2,389 | 6,445 | 7,676 | 4,828 | 1,172 | 51 |
| Sixth child .................. | 9,495 | - | 4 | - | - |  | 1 | 3 | 584 | 2,287 | 3,253 | 2,537 | 808 | 22 |
| Seventh child ............. | 4,196 | - | 2 | - | - |  | 1 | 1 | 115 | 813 | 1,400 | 1,369 | 460 | 37 |
| Eighth child and over .. | 3,815 | - | 1 | - | - |  |  | 1 | 47 | 375 | 1,091 | 1,442 | 777 | 82 |
| Not stated .................. | 4,878 | 19 | 977 | 65 | 133 | 197 | 264 | 318 | 1,538 | 1,232 | 743 | 310 | 55 | 4 |
| Mexican .................... | 489,666 | 2,241 | 86,524 | 5,815 | 11,820 | 17,624 | 22,982 | 28,283 | 157,857 | 129,621 | 76,400 | 30,600 | 6,151 | 272 |
| First child .................. | 181,056 | 2,179 | 64,674 | 5,445 | 10,438 | 14,220 | 16,481 | 18,090 | 67,124 | 31,392 | 11,647 | 3,392 | 626 | 22 |
| Second child .............. | 144,241 | 50 | 17,746 | 313 | 1,189 | 2,982 | 5,349 | 7,913 | 56,525 | 43,484 | 19,843 | 5,719 | 852 | 22 |
| Third child .................. | 88,857 | 1 | 3,017 | 9 | 100 | 270 | 854 | 1,784 | 23,874 | 32,246 | 21,118 | 7,447 | 1,124 | 30 |
| Fourth child ................ | 41,534 | - | 378 | - | 3 | 26 | 103 | 246 | 6,991 | 14,123 | 12,955 | 6,039 | 1,000 | 48 |
| Fifth child ................... | 17,217 | - | 39 | - | 2 | 3 | 7 | 27 | 1,737 | 4,965 | 5,957 | 3,631 | 854 | 34 |
| Sixth child .................. | 7,331 | - | 3 | - | - |  | 1 | 2 | 431 | 1,764 | 2,522 | 1,962 | 636 | 13 |
| Seventh child ............. | 3,250 | - | - | - | - | - |  |  | 76 | 577 | 1,118 | 1,071 | 379 | 29 |
| Eighth child and over .. | 3,015 | - | $\stackrel{-}{7}$ | - | - | - | $\stackrel{-}{7}$ | $\stackrel{-}{-}$ | 32 | 272 | 822 | 1,166 | 652 | 71 |
| Not stated ................. | 3,165 | 11 | 667 | 48 | 88 | 123 | 187 | 221 | 1,067 | 798 | 418 | 173 | 28 | 3 |
| Puerto Rican .............. | 54,863 | 337 | 12,363 | 916 | 1,724 | 2,603 | 3,334 | 3,786 | 16,592 | 13,075 | 8,392 | 3,468 | 617 | 19 |
| First child .................. | 21,887 | 323 | 8,940 | 861 | 1,498 | 2,024 | 2,313 | 2,244 | 6,443 | 3,633 | 1,873 | 571 | 99 | 5 |
| Second child .............. | 16,507 | 8 | 2,605 | 43 | 183 | 468 | 794 | 1,117 | 5,583 | 4,360 | 2,790 | 1,002 | 154 | 5 |
| Third child .................. | 9,032 | - | 519 | - | 11 | 57 | 158 | 293 | 2,823 | 2,756 | 1,906 | 867 | 158 | 3 |
| Fourth child ................ | 3,868 | - | 93 | - | - | 6 | 18 | 69 | 1,064 | 1,267 | 902 | 461 | 80 | 1 |
| Fifth child .................. | 1,570 | - | 16 | - | - | - | 3 | 13 | 318 | 514 | 408 | 255 | 56 | 3 |
| Sixth child .................. | 648 | - | 1 | - | - | - | - | 1 | 86 | 214 | 203 | 116 | 28 |  |
| Seventh child ............. | 305 | - | - | - | - | - | - | - | 22 | 105 | 86 | 77 | 14 | 1 |
| Eighth child and over .. | 277 | - | 1 | - | - | - | - | 1 | 5 | 60 | 113 | 78 | 19 | 1 |
| Not stated ................. | 769 | 6 | 188 | 12 | 32 | 48 | 48 | 48 | 248 | 166 | 111 | 41 | 9 | - |
| Cuban ....................... | 12,613 | 22 | 941 | 51 | 114 | 160 | 268 | 348 | 2,476 | 3,512 | 3,888 | 1,545 | 220 | 9 |
| First child .................. | 5,559 | 22 | 767 | 49 | 109 | 133 | 211 | 265 | 1,489 | 1,619 | 1,254 | 355 | 53 | - |
| Second child .............. | 4,454 | - | 153 | 2 | 5 | 24 | 50 | 72 | 729 | 1,318 | 1,586 | 591 | 72 | 5 |
| Third child .................. | 1,856 | - | 18 | - | - | 3 | 5 | 10 | 199 | 437 | 769 | 376 | 54 | 3 |
| Fourth child ................ | 476 | - | 1 | - | - | - | - | 1 | 34 | 97 | 170 | 149 | 24 | 1 |
| Fifth child ................... | 123 | - | - | - | - | - | - | - | 11 | 20 | 44 | 39 | 9 | - |
| Sixth child .................. | 50 | - | - | - | - | - | - | - | - | 6 | 26 | 14 | 4 | - |
| Seventh child ............. | 27 | - | - | - | - | - | - | - | - | 4 | 13 | 9 | 1 | - |
| Eighth child and over .. | 23 | - | - | - | - | - | - | - | - | 3 | 13 | 6 | 1 | - |
| Not stated .................. | 45 | - | 2 | - | - | - | 2 | - | 14 | 8 | 13 | 6 | 2 | - |
| Central and South American $\qquad$ | 97,888 | 206 | 10,110 | 553 | 1,254 | 1,904 | 2,760 | 3,639 | 23,943 | 27,881 | 22,802 | 10,661 | 2,179 | 106 |
| First child .................. | 38,437 | 198 | 8,068 | 522 | 1,137 | 1,604 | 2,164 | 2,641 | 12,597 | 9,660 | 5,573 | 1,971 | 356 | 14 |
| Second child ............... | 30,607 | 5 | 1,703 | 30 | 102 | 265 | 501 | 805 | 7,607 | 9,944 | 7,677 | 3,138 | 512 | 21 |
| Third child .................. | 17,199 | 1 | 259 | - | 9 | 25 | 74 | 151 | 2,749 | 5,405 | 5,592 | 2,642 | 530 | 21 |
| Fourth child ................ | 6,788 | - | 26 | - | - | - | 8 | 18 | 666 | 1,835 | 2,365 | 1,539 | 343 | 14 |
| Fifth child ................... | 2,545 | - | - | - | - | - | - | - | 158 | 587 | 901 | 690 | 196 | 13 |
| Sixth child .................. | 1,000 | - | - | - | - | - | - | - | 33 | 186 | 345 | 320 | 107 | 9 |
| Seventh child ............. | 396 | - | - | - | - | - | - | - | 7 | 61 | 124 | 153 | 45 | 6 |
| Eighth child and over .. | 330 | - | - | - | - | - | - | - | 6 | 18 | 79 | 143 | 77 | 7 |
| Not stated ................. | 586 | 2 | 54 | 1 | 6 | 10 | 13 | 24 | 120 | 185 | 146 | 65 | 13 | 1 |
| Other and unknown Hispanic $\qquad$ | 46,309 | 250 | 8,940 | 636 | 1,227 | 1,943 | 2,367 | 2,767 | 13,305 | 11,389 | 8,208 | 3,538 | 652 | 27 |
| First child .................. | 19,047 | 239 | 6,800 | 598 | 1,090 | 1,584 | 1,727 | 1,801 | 5,699 | 3,465 | 2,040 | 688 | 110 | 6 |
| Second child .............. | 14,174 | 11 | 1,725 | 32 | 122 | 306 | 526 | 739 | 4,707 | 3,867 | 2,659 | 1,040 | 156 | 9 |
| Third child .................... | 7,585 | , | 296 | 2 | 8 | 36 | 88 | 162 | 1,964 | 2,411 | 1,923 | 841 | 146 | 4 |
| Fourth child ................ | 3,173 | - | 49 | - | - | 1 | 11 | 37 | 633 | 1,007 | 885 | 498 | 98 | 3 |
| Fifth child ..................... | 1,163 | - | 2 | - | - | - | , | 2 | 165 | 359 | 366 | 213 | 57 | 1 |
| Sixth child .................... | 466 | - |  | - | - | - | - | - | 34 | 117 | 157 | 125 | 33 | - |
| Seventh child ............... | 218 | - | 2 | - | - | - | 1 | 1 | 10 | 66 | 59 | 59 | 21 | 1 |
| Eighth child and over .. | 170 | - | - | - | $\overline{7}$ | - | - | - | 4 | 22 | 64 | 49 | 28 | 3 |
| Not stated ................. | 313 | - | 66 | 4 | 7 | 16 | 14 | 25 | 89 | 75 | 55 | 25 | 3 | - |

[^6]Table 7. Live births by age of mother, live-birth order, Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1996 --Con.
[Live-birth order refers to number of children born alive to mother]

| Live-birth order and origin of mother ${ }^{1}$ | All ages | Age of mother |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 15 years | 15-19 years |  |  |  |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $40-44$years | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{gathered} 15 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 16 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 17 \\ \text { years } \end{gathered}$ | $\begin{gathered} 18 \\ \text { years } \end{gathered}$ | $\begin{gathered} 19 \\ \text { years } \end{gathered}$ |  |  |  |  |  |  |


| Non-Hispanic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total 2 | 3,133,484 | 8,007 | 367,800 | 20,332 | 43,614 | 71,687 | 101,963 | 130,204 | 720,228 | 870,250 | 762,064 | 342,061 | 60,540 | 2,534 |
| First child | 1,301,780 | 7,786 | 288,905 | 19,355 | 39,599 | 60,883 | 78,761 | 90,307 | 344,628 | 345,825 | 222,199 | 78,562 | 13,314 | 561 |
| Second child | 1,024,248 | 173 | 64,259 | 865 | 3,559 | 9,425 | 19,288 | 31,122 | 240,344 | 303,821 | 283,857 | 114,052 | 17,214 | 528 |
| Third child | 491,760 | 4 | 11,290 | 32 | 226 | 999 | 3,085 | 6,948 | 93,575 | 139,776 | 155,402 | 78,752 | 12,510 | 451 |
| Fourth child | 181,194 | 1 | 1,624 | - | 24 | 92 | 376 | 1,132 | 28,306 | 49,072 | 58,037 | 36,651 | 7,218 | 285 |
| Fifth child | 66,019 |  | 199 | 1 | 4 | 12 | 31 | 151 | 7,910 | 17,171 | 21,235 | 15,491 | 3,814 | 199 |
| Sixth child | 27,331 | - | 32 | - | - | 2 | 4 | 26 | 2,020 | 6,455 | 9,194 | 7,395 | 2,132 | 103 |
| Seventh child | 12,790 |  | 9 | - | 1 | 1 | 2 | 5 | 513 | 2,598 | 4,360 | 3,875 | 1,345 | 90 |
| Eighth child and over .. | 13,719 |  | 8 | - | - | - | 1 | 7 | 198 | 1,576 | 3,871 | 5,176 | 2,591 | 299 |
| Not stated .................. | 14,643 | 43 | 1,474 | 79 | 201 | 273 | 415 | 506 | 2,734 | 3,956 | 3,909 | 2,107 | 402 | 18 |
| White | 2,358,989 | 2,532 | 225,197 | 9,071 | 23,312 | 42,686 | 64,290 | 85,838 | 508,056 | 683,376 | 616,224 | 274,431 | 47,215 | 1,958 |
| First child | 992,907 | 2,479 | 185,808 | 8,844 | 22,000 | 38,220 | 52,931 | 63,813 | 260,283 | 284,304 | 183,442 | 65,035 | 11,088 | 468 |
| Second child | 794,021 | 41 | 34,018 | 199 | 1,165 | 4,059 | 10,028 | 18,567 | 172,565 | 245,168 | 234,789 | 93,219 | 13,792 | 429 |
| Third child | 367,592 | 1 | 4,230 | 4 | 55 | 253 | 1,045 | 2,873 | 57,247 | 105,460 | 126,841 | 63,806 | 9,625 | 382 |
| Fourth child | 124,926 | - | 382 | - | 3 | 21 | 72 | 286 | 13,146 | 32,494 | 44,498 | 28,724 | 5,463 | 219 |
| Fifth child . | 40,282 | - | 36 | - | - | 2 | 10 | 24 | 2,566 | 9,218 | 14,312 | 11,280 | 2,737 | 133 |
| Sixth child | 15,243 | - | 8 | - | - | 1 |  | 7 | 450 | 2,723 | 5,451 | 5,064 | 1,488 | 59 |
| Seventh child ............. | 6,727 | - | 3 | - | - | - | 1 | 2 | 115 | 831 | 2,261 | 2,521 | 933 | 63 |
| Eighth child and over .. | 7,212 | - | 2 | - | - | - | 1 | 1 | 51 | 378 | 1,647 | 3,158 | 1,786 | 190 |
| Not stated .................. | 10,079 | 11 | 710 | 24 | 89 | 130 | 202 | 265 | 1,633 | 2,800 | 2,983 | 1,624 | 303 | 15 |
| Black | 578,099 | 5,084 | 127,616 | 10,301 | 18,367 | 26,134 | 33,616 | 39,198 | 174,958 | 129,002 | 91,050 | 42,279 | 7,835 | 275 |
| First child | 223,941 | 4,937 | 91,388 | 9,621 | 15,872 | 20,271 | 22,714 | 22,910 | 64,915 | 34,460 | 19,760 | 7,300 | 1,140 | 41 |
| Second child | 166,731 | 113 | 27,664 | 601 | 2,216 | 4,974 | 8,518 | 11,355 | 56,838 | 40,706 | 28,075 | 11,513 | 1,764 | 58 |
| Third child | 97,467 | 2 | 6,527 | 24 | 152 | 684 | 1,886 | 3,781 | 32,022 | 27,209 | 20,245 | 9,721 | 1,711 | 30 |
| Fourth child ............... | 45,881 | 1 | 1,124 | - | 16 | 63 | 270 | 775 | 13,550 | 13,695 | 10,470 | 5,831 | 1,167 | 43 |
| Fifth child | 21,040 | - | 153 | 1 | 4 | 8 | 19 | 121 | 4,767 | 6,559 | 5,509 | 3,265 | 746 | 41 |
| Sixth child | 9,779 | - | 20 | - | - |  | 3 | 17 | 1,392 | 3,083 | 2,977 | 1,830 | 452 | 25 |
| Seventh child | 4,737 | - | 4 | - | 1 | 1 |  | 2 | 357 | 1,430 | 1,632 | 1,025 | 283 | 6 |
| Eighth child and over .. | 4,774 |  | 6 | - | - | - | - | 6 | 133 | 958 | 1,712 | 1,434 | 502 | 29 |
| Not stated .................. | 3,749 | 31 | 730 | 54 | 106 | 133 | 206 | 231 | 984 | 902 | 670 | 360 | 70 | 2 |

[^7]NOTE: Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. See Technical notes

Table 8. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1996
[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 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & 10-14 \\ & \text { years } \end{aligned}$ | 15-19 years |  |  | $20-24$years | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $30-34$years | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-44 years | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |  |
| Hispanic |  |  |  |  |  |  |  |  |  |  |  |
| Total ................................ | 104.9 | 2.6 | 101.8 | 69.0 | 151.1 | 189.5 | 161.0 | 98.1 | 45.1 | 10.8 | 0.6 |
| First child | 40.1 | 2.5 | 77.1 | 59.4 | 103.5 | 83.2 | 43.5 | 18.5 | 6.4 | 1.4 | 0.1 |
| Second child ....................... | 31.6 | 0.1 | 20.7 | 8.7 | 38.6 | 67.0 | 55.0 | 28.5 | 10.5 | 1.9 | 0.1 |
| Third child ........................... | 18.8 | * | 3.5 | 0.8 | 7.7 | 28.2 | 37.8 | 25.8 | 11.1 | 2.2 | 0.1 |
| Fourth child ......................... | 8.4 | * | 0.5 | 0.1 | 1.1 | 8.4 | 16.0 | 14.2 | 7.9 | 1.7 | 0.1 |
| Fifth child ........................... | 3.4 | * | 0.0 | * | 0.1 | 2.1 | 5.6 | 6.3 | 4.4 | 1.3 | 0.1 |
| Sixth and seventh child ......... | 2.1 | * | * | * | * | 0.6 | 2.7 | 3.8 | 3.6 | 1.4 | 0.1 |
| Eighth child and over ........... | 0.6 | * | * | * | * | 0.0 | 0.3 | 0.9 | 1.3 | 0.9 | 0.1 |
| Mexican ............................ | 119.3 | 2.8 | 120.7 | 83.4 | 174.3 | 206.3 | 176.9 | 103.7 | 47.6 | 12.0 | 0.7 |
| First child ........................... | 44.4 | 2.7 | 90.9 | 71.7 | 118.5 | 88.3 | 43.1 | 15.9 | 5.3 | 1.2 | 0.1 |
| Second child ....................... | 35.4 | 0.1 | 25.0 | 10.7 | 45.5 | 74.4 | 59.7 | 27.1 | 9.0 | 1.7 | 0.1 |
| Third child ......................... | 21.8 | * | 4.2 | 0.9 | 9.0 | 31.4 | 44.3 | 28.8 | 11.7 | 2.2 | 0.1 |
| Fourth child ......................... | 10.2 | * | 0.5 | 0.1 | 1.2 | 9.2 | 19.4 | 17.7 | 9.4 | 2.0 | 0.1 |
| Fifth child ........................... | 4.2 | * | 0.1 | * | 0.1 | 2.3 | 6.8 | 8.1 | 5.7 | 1.7 | 0.1 |
| Sixth and seventh child ......... | 2.6 | * | * | * | * | 0.7 | 3.2 | 5.0 | 4.7 | 2.0 | 0.1 |
| Eighth child and over ............ | 0.7 | * | * | * | * | 0.0 | 0.4 | 1.1 | 1.8 | 1.3 | 0.2 |
| Puerto Rican ....................... | 71.3 | 2.1 | 82.3 | 52.2 | 143.2 | 148.8 | 109.4 | 58.3 | 25.9 | 5.6 | * |
| First child ........................... | 28.8 | 2.0 | 60.4 | 44.4 | 92.9 | 58.7 | 30.8 | 13.2 | 4.3 | 0.9 | * |
| Second child ....................... | 21.8 | * | 17.6 | 7.0 | 38.9 | 50.8 | 36.9 | 19.6 | 7.6 | 1.4 | * |
| Third child .......................... | 11.9 | * | 3.5 | 0.7 | 9.2 | 25.7 | 23.3 | 13.4 | 6.5 | 1.5 | * |
| Fourth child ......................... | 5.1 | * | 0.6 | * | 1.8 | 9.7 | 10.7 | 6.4 | 3.5 | 0.7 | * |
| Fifth child ........................... | 2.1 | * | * | * |  | 2.9 | 4.4 | 2.9 | 1.9 | 0.5 | * |
| Sixth and seventh child ......... | 1.3 | * | * | * | * | 1.0 | 2.7 | 2.0 | 1.5 | 0.4 | * |
| Eighth child and over ........... | 0.4 | * | * | * | * | * | 0.5 | 0.8 | 0.6 | * | * |
| Cuban ............................... | 58.9 | 0.9 | 34.0 | 19.8 | 54.5 | 82.5 | 110.7 | 85.9 | 34.3 | 6.4 | * |
| First child | 26.0 | 0.9 | 27.8 | 17.8 | 42.3 | 49.9 | 51.2 | 27.8 | 7.9 | 1.5 | * |
| Second child ....................... | 20.9 | * | 5.5 | 1.9 | 10.8 | 24.4 | 41.6 | 35.2 | 13.2 | 2.1 | * |
| Third child .......................... | 8.7 | * | * | * | * | 6.7 | 13.8 | 17.1 | 8.4 | 1.6 | * |
| Fourth child ......................... | 2.2 | * | * | * | * | 1.1 | 3.1 | 3.8 | 3.3 | 0.7 | * |
| Fifth child ........................... | 0.6 | * | * | * | * | * | 0.6 | 1.0 | 0.9 | * | * |
| Sixth and seventh child ......... | 0.4 | * | * | * | * | * | * | 0.9 | 0.5 | * | * |
| Eighth child and over ............ | 0.1 | * | * | * | * | * | * | * | * | * | * |
| Other Hispanic ${ }^{2}$................. | 90.2 | 2.4 | 69.8 | 46.6 | 103.1 | 166.5 | 146.3 | 105.3 | 50.4 | 11.0 | 0.7 |
| First child ........................... | 36.2 | 2.3 | 54.8 | 40.8 | 75.0 | 82.2 | 49.2 | 26.0 | 9.5 | 1.8 | 0.1 |
| Second child ....................... | 28.2 | * | 12.6 | 5.3 | 23.1 | 55.3 | 51.8 | 35.3 | 14.9 | 2.6 | 0.2 |
| Third child .......................... | 15.6 | * | 2.0 | 0.5 | 4.3 | 21.2 | 29.3 | 25.7 | 12.4 | 2.6 | 0.1 |
| Fourth child ........................ | 6.3 | * | 0.3 | * | 0.7 | 5.8 | 10.7 | 11.1 | 7.3 | 1.7 | * |
| Fifth child ........................... | 2.3 | * | * | * | * | 1.5 | 3.5 | 4.3 | 3.2 | 1.0 | * |
| Sixth and seventh child ......... | 1.3 | * | * | * | * | 0.4 | 1.6 | 2.3 | 2.3 | 0.8 | * |
| Eighth child and over ........... | 0.3 | * | * | * | * | * | 0.1 | 0.5 | 0.7 | 0.4 | * |

[^8]Table 8. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1996 --Con.
[Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]


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

1 Rates computed by relating total births, regardless of age of mother, to women aged 15-44 years
2 Includes Central and South American and other and unknown Hispanic.
3 Includes origin not stated.
4 Includes races other than white and black.
NOTE: Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. See Technical notes.

Table 9. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-96
[Total fertility rates are sums of birth rates for 5 -year age groups multiplied by 5 . Birth rates are live births per 1,000 women in specified group, enumerated as of April 1 for 1990, and estimated as of July 1 for all other years]

| Year and origin/race of mother | Total fertility rate | Fertility rate | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 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 |  |  |  |  |  |  |
| All origins |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 .................... | 2,027.0 | 65.3 | 1.2 | 54.4 | 33.8 | 86.0 | 110.4 | 113.1 | 83.9 | 35.3 | 6.8 | 0.3 |
| 1995 | 2,019.0 | 65.6 | 1.3 | 56.8 | 36.0 | 89.1 | 109.8 | 112.2 | 82.5 | 34.3 | 6.6 | 0.3 |
| 1994 | 2,036.0 | 66.7 | 1.4 | 58.9 | 37.6 | 91.5 | 111.1 | 113.9 | 81.5 | 33.7 | 6.4 | 0.3 |
| 1993 | 2,046.0 | 67.6 | 1.4 | 59.6 | 37.8 | 92.1 | 112.6 | 115.5 | 80.8 | 32.9 | 6.1 | 0.3 |
| 1992 ................................ | 2,065.0 | 68.9 | 1.4 | 60.7 | 37.8 | 94.5 | 114.6 | 117.4 | 80.2 | 32.5 | 5.9 | 0.3 |
| 1991 | 2,073.0 | 69.6 | 1.4 | 62.1 | 38.7 | 94.4 | 115.7 | 118.2 | 79.5 | 32.0 | 5.5 | 0.2 |
| 1990 | 2,081.0 | 70.9 | 1.4 | 59.9 | 37.5 | 88.6 | 116.5 | 120.2 | 80.8 | 31.7 | 5.5 | 0.2 |
| 1989 ................................ | 2,014.0 | 69.2 | 1.4 | 57.3 | 36.4 | 84.2 | 113.8 | 117.6 | 77.4 | 29.9 | 5.2 | 0.2 |
| Hispanic |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 ................................. | 3,047.5 | 104.9 | 2.6 | 101.8 | 69.0 | 151.1 | 189.5 | 161.0 | 98.1 | 45.1 | 10.8 | 0.6 |
| 1995 | 3,019.5 | 105.0 | 2.7 | 106.7 | 72.9 | 157.9 | 188.5 | 153.8 | 95.9 | 44.9 | 10.8 | 0.6 |
| 1994 | 3,014.0 | 105.6 | 2.7 | 107.7 | 74.0 | 158.0 | 188.2 | 153.2 | 95.4 | 44.3 | 10.7 | 0.6 |
| 1993 | 3,020.5 | 106.9 | 2.7 | 106.8 | 71.7 | 159.1 | 188.3 | 154.0 | 96.4 | 44.7 | 10.6 | 0.6 |
| 19922 | 3,043.0 | 108.6 | 2.6 | 107.1 | 71.4 | 159.7 | 190.6 | 154.4 | 96.8 | 45.6 | 10.9 | 0.6 |
| 19912 ............................ | 3,002.5 | 108.1 | 2.4 | 106.7 | 70.6 | 158.5 | 186.3 | 152.8 | 96.1 | 44.9 | 10.7 | 0.6 |
| 19903 ............................. | 2,959.5 | 107.7 | 2.4 | 100.3 | 65.9 | 147.7 | 181.0 | 153.0 | 98.3 | 45.3 | 10.9 | 0.7 |
| 19894 ............................ | 2,903.5 | 104.9 | 2.3 | 100.8 |  |  | 184.4 | 146.6 | 92.1 | 43.5 | 10.4 | 0.6 |
| Mexican |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 | 3,353.5 | 119.3 | 2.8 | 120.7 | 83.4 | 174.3 | 206.3 | 176.9 | 103.7 | 47.6 | 12.0 | 0.7 |
| 1995 ................................ | 3,273.5 | 117.0 | 2.8 | 124.6 | 84.4 | 185.3 | 208.9 | 160.5 | 98.5 | 46.8 | 11.9 | 0.7 |
| 1994 | 3,211.5 | 115.4 | 2.8 | 116.2 | 78.0 | 175.0 | 202.6 | 165.2 | 96.9 | 46.2 | 11.7 | 0.7 |
| 1993 | 3,174.0 | 114.8 | 2.6 | 108.7 | 71.6 | 164.9 | 196.6 | 168.2 | 100.5 | 46.1 | 11.3 | 0.8 |
| 19922 ............................. | 3,196.5 | 116.0 | 2.5 | 108.8 | --- | --- | 202.3 | 166.3 | 99.1 | 47.7 | 11.8 | 0.8 |
| 19912 ............................. | 3,317.5 | 121.6 | 2.6 | 117.3 | 75.9 | 178.4 | 209.9 | 168.2 | 103.3 | 49.1 | 12.3 | 0.8 |
| $1990{ }^{3}$............................ | 3,214.0 | 118.9 | 2.5 | 108.0 | 69.7 | 162.2 | 200.3 | 165.3 | 104.4 | 49.1 | 12.4 | 0.8 |
| 19894 ............................. | 2,916.5 | 106.6 | 2.0 | 94.5 | --- | --- | 184.3 | 153.7 | 96.1 | 41.0 | 11.1 | 0.6 |
| Puerto Rican |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996. | 2,163.0 | 71.3 | 2.1 | 82.3 | 52.2 | 143.2 | 148.8 | 109.4 | 58.3 | 25.9 | 5.6 | * |
| 1995 | 2,245.5 | 75.7 | 3.0 | 89.0 | 61.2 | 139.2 | 151.5 | 107.2 | 64.8 | 27.7 | 5.6 | 0.3 |
| 1994 | 2,490.0 | 81.9 | 3.2 | 106.0 | 72.8 | 168.4 | 181.0 | 111.7 | 62.3 | 28.0 | 5.6 | 0.2 |
| 1993 ................................ | 2,523.5 | 82.5 | 3.1 | 110.0 | 73.4 | 181.0 | 193.1 | 108.4 | 56.3 | 27.1 | 6.2 | 0.5 |
| 19922 ............................. | 2,644.5 | 89.9 | 3.5 | 110.4 | --- | --- | 204.9 | 106.6 | 66.7 | 30.0 | 6.5 | 0.3 |
| 19912 ............................ | 2,276.0 | 80.9 | 2.5 | 102.7 | 75.2 | 143.0 | 149.4 | 107.5 | 61.4 | 25.7 | 5.7 | 0.3 |
| $1990{ }^{3}$............................. | 2,301.0 | 82.9 | 2.9 | 101.6 | 71.6 | 141.6 | 150.1 | 109.9 | 62.8 | 26.2 | 6.2 | 0.5 |
| 19894 ............................ | 2,421.0 | 86.6 | 3.8 | 112.7 | --- | --- | 171.0 | 98.0 | 65.2 | 26.9 | 6.3 | 0.3 |
| Cuban |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 ................................. | 1,774.5 | 58.9 | 0.9 | 34.0 | 19.8 | 54.5 | 82.5 | 110.7 | 85.9 | 34.3 | 6.4 | * |
| 1995 ................................ | 1,705.5 | 55.1 | * | 29.2 | 16.6 | 51.2 | 77.0 | 110.6 | 88.0 | 29.8 | 6.0 | * |
| 1994 ................................ | 1,680.5 | 55.9 | 0.6 | 40.2 | 23.1 | 77.4 | 72.5 | 98.4 | 87.6 | 31.3 | 5.5 | * |
| 1993 ............................... | 1,632.5 | 55.5 | * | 33.0 | 20.4 | 49.7 | 68.9 | 102.0 | 86.9 | 31.0 | 4.7 | * |
| 19922 ............................ | 1,485.5 | 50.3 | 1.0 | 26.3 | --- | --- | 51.6 | 98.4 | 86.2 | 28.9 | 4.7 | 0.0 |
| 19912 ............................. | 1,385.5 | 49.1 | * | 27.7 | 17.5 | 41.3 | 61.2 | 88.8 | 68.2 | 26.7 | 4.0 | * |
| 19903 | 1,459.5 | 52.6 | * | 30.3 | 18.2 | 46.1 | 64.6 | 95.4 | 67.6 | 28.2 | 4.9 | * |
| 19894 ............................. | 1,479.0 | 49.8 | 0.5 | 25.1 | --- | --- | 64.2 | 101.8 | 73.7 | 27.2 | 3.0 | 0.3 |
| Other Hispanic 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 ................................. | 2,762.0 | 90.2 | 2.4 | 69.8 | 46.6 | 103.1 | 166.5 | 146.3 | 105.3 | 50.4 | 11.0 | 0.7 |
| 1995 ................................ | 2,834.0 | 94.5 | 2.4 | 77.5 | 54.8 | 107.8 | 158.3 | 161.8 | 103.7 | 50.9 | 11.6 | 0.6 |
| 1994 ................................ | 2,855.5 | 97.7 | 2.6 | 87.9 | 66.4 | 112.4 | 162.0 | 147.4 | 109.3 | 49.4 | 11.9 | 0.6 |
| 1993 ................................ | 3,038.5 | 105.0 | 2.7 | 106.9 | 78.2 | 141.7 | 175.2 | 147.1 | 110.4 | 52.4 | 12.5 | 0.5 |
| 19922 ............................ | 3,076.0 | 107.0 | 2.5 | 112.1 | --- | --- | 172.9 | 157.8 | 106.6 | 50.3 | 12.5 | 0.5 |
| 19912 ............................. | 2,817.0 | 99.3 | 2.1 | 88.1 | 58.9 | 128.8 | 161.1 | 150.6 | 101.5 | 48.2 | 11.2 | 0.6 |
| 19903 | 2,877.0 | 102.7 | 2.1 | 86.0 | 57.2 | 123.8 | 162.9 | 155.8 | 106.9 | 49.4 | 11.6 | 0.7 |
| 19894 ............................. | 2,683.0 | 95.8 | 1.7 | 66.4 | --- | --- | 159.2 | 150.4 | 85.1 | 60.3 | 12.7 | 0.8 |

[^9]Table 9. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1989-96 --Con.

| Year and race | Total fertilty rate | Fertility rate | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{aligned} & 10-14 \\ & \text { years } \end{aligned}$ | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | 35-39 years | 40-44 years | 45-49 years |
|  |  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \\ & \hline \end{aligned}$ |  |  |  |  |  |  |
| $\text { Total } 7^{\text {Non-Hispanic } 6}$ |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 ............................... | 1,881.0 | 60.3 | 1.0 | 47.3 | 28.7 | 76.2 | 98.4 | 106.5 | 82.0 | 34.2 | 6.5 | 0.3 |
| 1995 ................................ | 1,881.0 | 60.8 | 1.1 | 49.6 | 30.7 | 79.0 | 98.5 | 106.4 | 80.9 | 33.2 | 6.2 | 0.3 |
| 1994 ................................ | 1,905.0 | 62.0 | 1.2 | 52.0 | 32.5 | 81.8 | 100.4 | 108.6 | 79.9 | 32.6 | 6.0 | 0.3 |
| 1993 ................................ | 1,918.5 | 63.1 | 1.2 | 52.9 | 33.1 | 82.6 | 102.5 | 110.4 | 79.0 | 31.7 | 5.7 | 0.3 |
| $1992{ }^{2}$ | 1,941.0 | 64.4 | 1.2 | 54.4 | 33.2 | 85.5 | 104.7 | 112.7 | 78.4 | 31.2 | 5.4 | 0.2 |
| 19912 ............................ | 1,959.5 | 65.4 | 1.3 | 56.1 | 34.4 | 86.1 | 106.6 | 114.0 | 77.8 | 30.8 | 5.1 | 0.2 |
| $1990{ }^{3}$ | 1,979.5 | 67.1 | 1.3 | 54.8 | 33.8 | 81.4 | 108.1 | 116.5 | 79.2 | 30.7 | 5.1 | 0.2 |
| $1989{ }^{4}$............................. | 1,921.0 | 65.7 | 1.3 | 53.4 | --- | --- | 107.8 | 113.4 | 74.7 | 28.6 | 4.8 | 0.2 |
| White |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 ................................ | 1,795.5 | 57.3 | 0.4 | 37.6 | 20.6 | 63.7 | 90.1 | 107.0 | 83.5 | 34.0 | 6.2 | 0.3 |
| 1995 ................................ | 1,786.5 | 57.6 | 0.4 | 39.3 | 22.0 | 66.1 | 90.0 | 106.5 | 82.0 | 32.9 | 5.9 | 0.3 |
| 1994 ................................ | 1,792.0 | 58.3 | 0.5 | 40.4 | 22.8 | 67.4 | 90.9 | 107.9 | 80.7 | 32.1 | 5.7 | 0.2 |
| 1993 ................................ | 1,792.5 | 59.0 | 0.5 | 40.7 | 22.7 | 67.7 | 92.1 | 109.2 | 79.4 | 31.1 | 5.3 | 0.2 |
| $1992{ }^{2}$ | 1,810.5 | 60.2 | 0.5 | 41.7 | 22.7 | 69.8 | 93.9 | 111.5 | 78.7 | 30.5 | 5.1 | 0.2 |
| 19912 ................................... | 1,826.5 | 61.0 | 0.5 | 43.4 | 23.6 | 70.5 | 95.7 | 112.7 | 77.9 | 30.2 | 4.7 | 0.2 |
| $1990{ }^{3}$.............................. | 1,850.5 | 62.8 | 0.5 | 42.5 | 23.2 | 66.6 | 97.5 | 115.3 | 79.4 | 30.0 | 4.7 | 0.2 |
| 19894 ....................................... | 1,770.0 | 60.5 | 0.4 | 39.9 | --- | --- | 94.7 | 111.7 | 75.0 | 27.8 | 4.3 | 0.2 |
| Black |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996 ................................ | 2,204.0 | 72.5 | 3.8 | 94.2 | 66.6 | 136.6 | 140.9 | 100.8 | 64.9 | 29.7 | 6.2 | 0.3 |
| 1995 ............................... | 2,245.0 | 74.5 | 4.3 | 99.3 | 72.1 | 141.9 | 141.7 | 102.0 | 65.9 | 29.4 | 6.1 | 0.3 |
| 1994 | 2,365.0 | 79.0 | 4.7 | 107.7 | 78.6 | 152.9 | 150.3 | 107.0 | 67.5 | 29.5 | 6.0 | 0.3 |
| 1993 ................................ | 2,454.5 | 82.7 | 4.7 | 112.2 | 82.5 | 156.7 | 157.4 | 111.5 | 69.0 | 29.8 | 6.0 | 0.3 |
| $1992{ }^{2}$ | 2,514.0 | 85.5 | 4.8 | 116.0 | 83.9 | 162.9 | 163.0 | 114.6 | 69.1 | 29.4 | 5.7 | 0.2 |
| 19912 ............................................... | 2,551.0 | 87.6 | 4.9 | 118.9 | 86.7 | 163.1 | 166.1 | 116.3 | 69.3 | 28.9 | 5.6 | 0.2 |
| $1990{ }^{3}$ | 2,547.5 | 89.0 | 5.0 | 116.2 | 84.9 | 157.5 | 165.1 | 118.4 | 70.2 | 28.7 | 5.6 | 0.3 |
| 19894 ............................. | 2,424.0 | 84.8 | 5.2 | 111.9 | --- | --- | 156.3 | 113.8 | 65.7 | 26.3 | 5.3 | 0.3 |

[^10]NOTE: Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. See Technical notes.

Table 10. Number of births, birth rates, fertility rates, total fertility rates, and birth rates for teenagers 15-19 years by age of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
[By place of residence. Birth rates per 1,000 estimated population in each area; fertility rates per 1,000 women aged 15-44 years estimated in each area; total fertility rates are sums of birth rates for 5 -year age groups multiplied by 5 : birth rates by age are live births per 1,000 women in specified age group estimated in each area]

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

[^11]Table 11. Live births by race of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
[By place of residence]

| State | Number |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | All races | White | Black | American Indian ${ }^{1}$ | Asian or Pacific Islander |
| United States ${ }^{2}$............................ | 3,891,494 | 3,093,057 | 594,781 | 37,880 | 165,776 |
| Alabama ...................................... | 60,488 | 40,222 | 19,575 | 125 | 566 |
| Alaska | 10,037 | 6,781 | 422 | 2,403 | 431 |
| Arizona | 75,322 | 66,151 | 2,342 | 5,390 | 1,439 |
| Arkansas | 36,371 | 27,886 | 7,904 | 243 | 338 |
| California | 539,433 | 439,523 | 38,371 | 3,343 | 58,196 |
| Colorado | 55,807 | 51,070 | 2,577 | 586 | 1,574 |
| Connecticut | 44,469 | 37,885 | 5,243 | 106 | 1,235 |
| Delaware | 10,155 | 7,553 | 2,371 | 17 | 214 |
| District of Columbia | 8,390 | 2,057 | 6,179 | 4 | 150 |
| Florida ....................................... | 189,392 | 142,618 | 42,275 | 631 | 3,868 |
| Georgia | 114,043 | 73,254 | 38,497 | 193 | 2,099 |
| Hawaii | 18,401 | 4,799 | 515 | 186 | 12,901 |
| Idaho | 18,625 | 18,020 | 75 | 285 | 245 |
| Illinois | 183,180 | 140,435 | 36,237 | 235 | 6,273 |
| Indiana | 83,513 | 73,646 | 8,827 | 121 | 919 |
| lowa | 37,139 | 35,143 | 1,048 | 200 | 748 |
| Kansas | 36,651 | 32,769 | 2,766 | 292 | 824 |
| Kentucky | 52,706 | 47,318 | 4,860 | 77 | 451 |
| Louisiana | 65,204 | 37,366 | 26,517 | 260 | 1,061 |
| Maine ......................................... | 13,774 | 13,460 | 85 | 84 | 145 |
| Maryland ..................................... | 71,533 | 45,914 | 22,937 | 171 | 2,511 |
| Massachusetts | 80,276 | 69,171 | 7,377 | 157 | 3,571 |
| Michigan | 133,387 | 105,923 | 24,171 | 811 | 2,482 |
| Minnesota | 63,700 | 56,829 | 3,111 | 1,087 | 2,673 |
| Mississippi | 40,987 | 21,458 | 18,965 | 193 | 371 |
| Missouri | 73,832 | 61,296 | 11,119 | 271 | 1,146 |
| Montana | 10,856 | 9,500 | 38 | 1,208 | 110 |
| Nebraska | 23,286 | 21,322 | 1,205 | 333 | 426 |
| Nevada | 26,125 | 22,343 | 1,973 | 423 | 1,386 |
| New Hampshire ........................... | 14,520 | 14,226 | 112 | 23 | 159 |
| New Jersey | 114,306 | 86,386 | 20,517 | 224 | 7,179 |
| New Mexico | 27,228 | 23,195 | 467 | 3,174 | 392 |
| New York | 263,963 | 191,748 | 55,385 | 612 | 16,218 |
| North Carolina | 104,470 | 73,815 | 27,129 | 1,552 | 1,974 |
| North Dakota | 8,347 | 7,404 | 89 | 751 | 103 |
| Ohio | 151,692 | 127,435 | 22,051 | 256 | 1,950 |
| Oklahoma | 46,193 | 36,628 | 4,484 | 4,303 | 778 |
| Oregon .... | 43,658 | 40,436 | 893 | 672 | 1,657 |
| Pennsylvania .............................. | 148,338 | 124,262 | 20,581 | 219 | 3,276 |
| Rhode Island ............................... | 12,652 | 11,166 | 945 | 139 | 402 |
| South Carolina | 51,117 | 32,360 | 18,002 | 114 | 641 |
| South Dakota | 10,473 | 8,657 | 83 | 1,637 | 96 |
| Tennessee ................................ | 73,754 | 56,525 | 16,018 | 191 | 1,020 |
| Texas | 330,406 | 281,810 | 38,856 | 833 | 8,907 |
| Utah | 42,087 | 39,955 | 324 | 631 | 1,177 |
| Vermont | 6,767 | 6,685 | 19 | 9 | 54 |
| Virginia ....................................... | 92,354 | 67,326 | 20,907 | 174 | 3,947 |
| Washington ................................. | 77,945 | 67,577 | 3,115 | 1,855 | 5,398 |
| West Virginia ............................... | 20,750 | 19,856 | 742 | 11 | 141 |
| Wisconsin .................................. | 67,106 | 57,934 | 6,431 | 849 | 1,892 |
| Wyoming .................................... | 6,286 | 5,959 | 49 | 216 | 62 |
| Puerto Rico | 63,141 | 58,079 | 5,003 | --- | --- |
| Virgin Islands | 1,905 | 350 | 1,503 | 46 | 6 |
| Guam ........................................ | 4,259 | 427 | 48 | 7 | 3,777 |

[^12]NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 12. Live births by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
[By place of residence]

| State | All origins | 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 . | 3,891,494 | 701,339 | 489,666 | 54,863 | 12,613 | 97,888 | 46,309 | 3,133,484 | 2,358,989 | 578,099 | 56,671 |
| Alabama ....................... | 60,488 | 936 | 605 | 125 | 18 | 141 | 47 | 59,524 | 39,326 | 19,536 | 28 |
| Alaska ........................... | 10,037 | 651 | 249 | 51 | 8 | 59 | 284 | 9,363 | 6,300 | 387 | 23 |
| Arizona .......................... | 75,322 | 27,901 | 26,746 | 289 | 38 | 507 | 321 | 47,246 | 38,602 | 2,249 | 175 |
| Arkansas ........................ | 36,371 | 1,315 | 1,080 | 31 | 5 | 149 | 50 | 35,010 | 26,572 | 7,871 | 46 |
| California ....................... | 539,433 | 254,895 | 218,625 | 1,974 | 770 | 26,370 | 7,156 | 282,499 | 185,659 | 37,133 | 2,039 |
| Colorado ........................ | 55,807 | 12,375 | 8,142 | 180 | 39 | 355 | 3,659 | 43,106 | 38,667 | 2,452 | 326 |
| Connecticut | 44,469 | 5,651 | 319 | 3,808 | 88 | 1,130 | 306 | 36,700 | 30,617 | 4,845 | 2,118 |
| Delaware .... | 10,155 | 660 | 292 | 249 | 2 | 90 | 27 | 9,475 | 6,899 | 2,348 | 20 |
| District of Columbia .......... | 8,390 | 777 | 33 | 10 | 1 | 688 | 45 | 7,530 | 1,247 | 6,131 | 83 |
| Florida ........................... | 189,392 | 35,699 | 7,021 | 6,513 | 8,624 | 11,860 | 1,681 | 153,554 | 107,900 | 41,305 | 139 |
| Georgia ......................... | 114,043 | 6,266 | 4,697 | 438 | 88 | 778 | 265 | 106,725 | 66,346 | 38,167 | 1,052 |
| Hawaii ........................... | 18,401 | 2,164 | 417 | 628 | 11 | 86 | 1,022 | 16,220 | 4,118 | 489 | 17 |
| Idaho ............................. | 18,625 | 2,180 | 1,849 | 10 | 1 | 62 | 258 | 16,179 | 15,614 | 72 | 266 |
| Illinois ............................ | 183,180 | 32,849 | 27,067 | 2,885 | 192 | 858 | 1,847 | 150,222 | 107,706 | 36,014 | 109 |
| Indiana ......................... | 83,513 | 2,950 | 2,307 | 258 | 22 | 137 | 226 | 80,311 | 70,539 | 8,759 | 252 |
| lowa | 37,139 | 1,481 | 1,164 | 32 | 7 | 164 | 114 | 35,171 | 33,311 | 981 | 487 |
| Kansas | 36,651 | 3,225 | 2,781 | 64 | 15 | 136 | 229 | 33,106 | 29,288 | 2,740 | 320 |
| Kentucky ...................... | 52,706 | 555 | 349 | 59 | 22 | 85 | 40 | 52,074 | 46,727 | 4,830 | 77 |
| Louisiana ....................... | 65,204 | 1,267 | 400 | 165 | 60 | 177 | 465 | 63,870 | 36,184 | 26,438 | 67 |
| Maine ............................ | 13,774 | 115 | 22 | 5 | 4 | 13 | 71 | 13,248 | 12,951 | 80 | 411 |
| Maryland | 71,533 | 3,234 | 558 | 231 | 44 | 1,704 | 697 | 67,308 | 42,214 | 22,497 | 991 |
| Massachusetts ............... | 80,276 | 7,732 | 282 | 4,080 | 109 | 3,014 | 247 | 71,608 | 62,052 | 5,886 | 936 |
| Michigan ........................ | 133,387 | 5,050 | 3,636 | 367 | 62 | 288 | 697 | 121,873 | 94,990 | 23,792 | 6,464 |
| Minnesota ....................... | 63,700 | 2,324 | 1,768 | 83 | 18 | 232 | 223 | 57,385 | 50,726 | 3,049 | 3,991 |
| Mississippi | 40,987 | 278 | 136 | 17 | 11 | 21 | 93 | 40,677 | 21,156 | 18,958 | 32 |
| Missouri ......................... | 73,832 | 1,516 | 1,131 | 75 | 23 | 145 | 142 | 72,238 | 59,757 | 11,089 | 78 |
| Montana ........................ | 10,856 | 298 | 173 | 12 | 3 | 7 | 103 | 10,226 | 8,894 | 31 | 332 |
| Nebraska ........................ | 23,286 | 1,866 | 1,436 | 25 | 12 | 184 | 209 | 20,984 | 19,050 | 1,193 | 436 |
| Nevada .......................... | 26,125 | 6,966 | 5,695 | 134 | 138 | 725 | 274 | 19,038 | 15,386 | 1,941 | 121 |
| New Hampshire ............... | 14,520 | 231 | 58 | 73 | 3 | 13 | 84 | 13,925 | 13,649 | 98 | 364 |
| New Jersey .................... | 114,306 | 19,451 | 2,292 | 7,188 | 875 | 8,893 | 203 | 93,691 | 67,216 | 19,227 | 1,164 |
| New Mexico . | 27,228 | 13,255 | 4,871 | 58 | 56 | 91 | 8,179 | 13,971 | 10,085 | 439 | 2 |
| New York ........ | 263,963 | 52,684 | 6,299 | 15,314 | 475 | 24,690 | 5,906 | 183,837 | 119,291 | 48,096 | 27,442 |
| North Carolina ................. | 104,470 | 5,433 | 3,867 | 445 | 91 | 799 | 231 | 99,001 | 68,481 | 27,029 | 36 |
| North Dakota .................. | 8,347 | 137 | 78 | 7 | 2 | 14 | 36 | 8,067 | 7,135 | 86 | 143 |
| Ohio | 151,692 | 3,004 | 1,323 | 1,147 | 44 | 207 | 283 | 148,325 | 124,295 | 21,876 | 363 |
| Oklahoma | 46,193 | 2,881 | 2,104 | 111 | 11 | 104 | 551 | 43,252 | 33,772 | 4,459 | 60 |
| Oregon .......................... | 43,658 | 5,458 | 5,049 | 59 | 39 | 208 | 103 | 38,144 | 34,990 | 873 | 56 |
| Pennsylvania .................. | 148,338 | 6,737 | 838 | 4,599 | 99 | 698 | 503 | 141,199 | 117,509 | 20,237 | 402 |
| Rhode Island ................... | 12,652 | 1,667 | 79 | 564 | 16 | 895 | 113 | 9,447 | 8,210 | 750 | 1,538 |
| South Carolina ................ | 51,117 | 973 | 567 | 113 | 21 | 149 | 123 | 50,111 | 31,427 | 17,973 | 33 |
| South Dakota .................. | 10,473 | 146 | 101 | 5 | 1 | 14 | 25 | 10,313 | 8,520 | 80 | 14 |
| Tennessee ..................... | 73,754 | 1,425 | 877 | 130 | 32 | 150 | 236 | 72,289 | 55,120 | 15,985 | 40 |
| Texas ............................ | 330,406 | 142,831 | 128,180 | 913 | 246 | 6,955 | 6,537 | 187,002 | 138,925 | 38,497 | 573 |
| Utah .............................. | 42,087 | 3,944 | 2,985 | 68 | 41 | 465 | 385 | 38,036 | 36,006 | 252 | 107 |
| Vermont ......................... | 6,767 | 39 | 8 | 10 | 1 | 8 | 12 | 6,431 | 6,357 | 13 | 297 |
| Virginia .......................... | 92,354 | 5,150 | 1,023 | 463 | 90 | 2,956 | 618 | 87,075 | 62,192 | 20,808 | 129 |
| Washington .................... | 77,945 | 8,930 | 7,296 | 198 | 20 | 237 | 1,179 | 66,585 | 56,950 | 2,886 | 2,430 |
| West Virginia .................. | 20,750 | 125 | 51 | 9 | 3 | 10 | 52 | 20,610 | 19,757 | 738 | 15 |
| Wisconsin ....................... | 67,106 | 3,139 | 2,319 | 580 | 10 | 158 | 72 | 63,948 | 54,863 | 6,386 | 19 |
| Wyoming ........................ | 6,286 | 523 | 421 | 11 | 2 | 9 | 80 | 5,755 | 5,441 | 48 | 8 |
| Puerto Rico .................... | 63,141 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 63,141 |
| Virgin Islands .................. | 1,905 | 321 | 8 | 234 | - | 22 | 57 | 1,505 | 98 | 1,359 | 79 |
| Guam ............................ | 4,259 | 45 | 24 | 9 | 1 | 3 | 8 | 4,186 | 390 | 44 | 28 |

[^13]NOTE: Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. See Technical notes.

Table 13. Total number of births, rates, and percent of births with selected demographic characteristics, by specified race of mother and place of birth of mother: United States, 1996

| Characteristic | $\begin{gathered} \text { All } \\ \text { races } \end{gathered}$ | White | Black | American Indian ${ }^{1}$ | Asian or Pacific Islander |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total | Chinese | Japanese | Hawaiian | Filipino | Other |
| Births | Number |  |  |  |  |  |  |  |  |  |
|  | 3,891,494 | 3,093,057 | 594,781 | 37,880 | 165,776 | 28,500 | 8,902 | 5,907 | 31,106 | 91,361 |
|  | Rate |  |  |  |  |  |  |  |  |  |
| Birth rate ${ }^{2}$................................... | 14.7 | 14.1 | 17.8 | 16.6 | 17.0 | --- | --- | --- | --- | --- |
| Fertility rate ${ }^{3}$ | $65.3$ | 64.3 | 70.7 | 68.7 | 65.9 | --- | --- | --- | --- | --- |
| Total fertility rate ${ }^{4}$......................... | 2,027.0 | 2,005.5 | 2,144.0 | 2,030.0 | 1,907.5 | --- | --- | --- | --- | --- |
| Sex Ratio ${ }^{5}$.................................. | 1,047 | 1,050 | 1,028 | 1,031 | 1,061 | 1,090 | 1,053 | 1,062 | 1,061 | 1,053 |
|  | Percent |  |  |  |  |  |  |  |  |  |
| All births |  |  |  |  |  |  |  |  |  |  |
| Fourth- and higher-order births ....... | 10.4 | 9.5 | 15.0 | 19.7 | 8.4 | 2.5 | 3.8 | 13.8 | 7.2 | 10.7 |
| Births to unmarried mothers | 32.4 | 25.7 | 69.8 | 58.0 | 16.7 | 9.2 | 11.4 | 49.9 | 19.4 | 16.5 |
| Mothers completing 12 years or more of school $\qquad$ | 77.6 | 78.4 | 71.8 | 67.0 | 85.0 | 87.2 | 97.3 | 83.1 | 92.6 | 80.6 |
| Mothers born in the 50 States and D.C. $\qquad$ | 80.8 | 82.4 | 89.8 | 96.6 | 15.5 | 9.5 | 45.7 | 98.3 | 17.1 | 8.6 |
| Mothers born in the 50 States and D.C. |  |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 years .... | 13.9 | 11.5 | 24.6 | 21.4 | 14.9 | 3.9 | 4.7 | 18.5 | 18.0 | 19.1 |
| Fourth- and higher-order births ....... | 9.8 | 8.5 | 15.1 | 20.0 | 7.9 | 4.0 | 4.2 | 13.8 | 7.7 | 6.8 |
| Births to unmarried mothers | 33.0 | 24.5 | 72.3 | 59.0 | 32.5 | 15.0 | 17.2 | 50.0 | 36.9 | 30.7 |
| Mothers completing 12 years or more of school $\qquad$ | 82.0 | 84.5 | 71.0 | 66.8 | 87.5 | 96.2 | 96.3 | 83.1 | 87.1 | 83.3 |
| Mothers born outside the 50 States and D.C. |  |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 years .... | 8.8 | 10.2 | 7.6 | 8.4 | 3.5 | 0.6 | 0.7 | 18.0 | 3.6 | 4.6 |
| Fourth- and higher-order births ....... | 13.0 | 14.1 | 13.7 | 11.6 | 8.5 | 2.3 | 3.4 | 14.1 | 7.1 | 11.1 |
| Births to unmarried mothers | 29.2 | 31.2 | 47.1 | 29.6 | 13.7 | 8.6 | 6.5 | 44.0 | 15.8 | 15.1 |
| Mothers completing 12 years or more of school $\qquad$ | 58.7 | 49.8 | 79.4 | 74.3 | 84.5 | 86.2 | 98.2 | 83.8 | 93.7 | 80.3 |

[^14]Table 14. Total number of births, rates, and percent of births with selected demographic characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 1996

| Characteristic | $\begin{gathered} \text { All } \\ \text { origins }{ }^{1} \end{gathered}$ | Hispanic |  |  |  |  |  | Non-Hispanic |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Mexican | Puerto <br> Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{2}$ | White | Black |
| Births ......................................... | Number |  |  |  |  |  |  |  |  |  |
|  | 3,891,494 | 701,339 | 489,666 | 54,863 | 12,613 | 97,888 | 46,309 | 3,133,484 | 2,358,989 | 578,099 |
|  | Rate |  |  |  |  |  |  |  |  |  |
| Birth rate ${ }^{3}$................................... | 14.7 | 24.8 | 27.4 | 17.9 | 10.7 | 723.4 |  | 13.5 | 12.4 | 18.3 |
| Fertility rate ${ }^{4}$............................... | 65.3 | 104.9 | 119.3 | 71.3 | 58.9 | 790.2 |  | 60.3 | 57.3 | 72.5 |
| Total fertility rate ${ }^{5}$.......................... | 2,027.0 | 3,047.5 | 3,353.5 | 2,163.0 | 1,774.5 | 72,762.0 |  | 1,881.0 | 1,795.5 | 2,204.0 |
| Sex Ratio ${ }^{6}$.................................. | 1,047 | 1,041 | 1,039 | 1,037 | 1,044 | 1,046 | 1,058 | 1,048 | 1,053 | 1,027 |
|  | Percent |  |  |  |  |  |  |  |  |  |
| All births |  |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 years .... | 12.9 | 17.4 | 18.1 | 23.1 | 7.6 | 10.5 | 19.8 | 12.0 | 9.7 | 23.0 |
| Fourth- and higher-order births ....... | 10.4 | 13.8 | 14.9 | 12.3 | 5.6 | 11.4 | 11.3 | 9.7 | 8.3 | 15.0 |
| Births to unmarried mothers | 32.4 | 40.7 | 37.9 | 60.7 | 24.7 | 44.1 | 43.5 | 30.6 | 21.5 | 70.0 |
| Mothers completing 12 years or more of school $\qquad$ | 77.6 | 48.6 | 42.3 | 61.9 | 85.5 | 59.2 | 67.0 | 83.9 | 87.0 | 72.0 |
| Mothers born in the 50 States and D.C. $\qquad$ | 80.8 | 38.2 | 38.2 | 61.5 | 36.9 | 8.1 | 74.6 | 90.2 | 95.1 | 91.0 |
| Mothers born in the 50 States and D.C. |  |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 years .... | 13.9 | 26.1 | 27.2 | 25.3 | 12.1 | 23.5 | 23.2 | 12.8 | 9.9 | 24.5 |
| Fourth- and higher-order births ....... | 9.8 | 11.3 | 11.9 | 11.0 | 4.7 | 5.0 | 11.0 | 9.6 | 8.2 | 15.1 |
| Births to unmarried mothers .......... | 33.0 | 47.3 | 45.3 | 62.7 | 24.8 | 46.7 | 46.3 | 31.8 | 21.9 | 72.4 |
| Mothers completing 12 years or more of school $\qquad$ | 82.0 | 63.6 | 61.7 | 62.1 | 86.9 | 77.4 | 68.9 | 83.7 | 86.8 | 71.1 |
| Mothers born outside the 50 States and D.C. |  |  |  |  |  |  |  |  |  |  |
| Births to mothers under 20 years .... | 8.8 | 12.0 | 12.5 | 19.8 | 5.0 | 9.4 | 10.1 | 4.2 | 3.9 | 6.9 |
| Fourth- and higher-order births ...... | 13.0 | 15.3 | 16.7 | 14.4 | 6.1 | 11.9 | 12.1 | 9.8 | 9.6 | 13.9 |
| Births to unmarried mothers .......... | 29.2 | 36.6 | 33.3 | 57.4 | 24.7 | 43.8 | 34.0 | 19.0 | 13.6 | 45.2 |
| Mothers completing 12 years or more of school $\qquad$ | 58.7 | 39.2 | 30.2 | 61.7 | 84.7 | 57.6 | 61.7 | 86.1 | 89.9 | 81.6 |

[^15]NOTE: Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. See Technical notes.

Table 15. Live births by race of mother and observed and seasonally adjusted birth and fertility rates, by month: United States, 1996
[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 ....................................................... | 3,891,494 | 3,093,057 | 594,781 | 14.7 | 65.3 | ... | ... |
| January .................................................... | 314,283 | 246,948 | 50,605 | 14.0 | 62.2 | 14.8 | 65.2 |
| February ................................................. | 301,763 | 239,049 | 46,953 | 14.9 | 66.1 | 14.6 | 65.1 |
| March ..................................................... | 322,581 | 257,722 | 48,139 | 14.4 | 63.8 | 14.5 | 65.1 |
| April ....................................................... | 312,595 | 251,404 | 44,914 | 14.4 | 63.8 | 14.7 | 65.1 |
| May ....................................................... | 325,708 | 262,378 | 46,232 | 14.5 | 64.4 | 14.7 | 65.1 |
| June | 318,525 | 254,966 | 47,090 | 14.6 | 65.0 | 14.4 | 65.2 |
| July ........................................................ | 345,162 | 274,643 | 53,053 | 15.3 | 68.2 | 14.8 | 65.2 |
| August ................................................... | 346,317 | 274,797 | 53,834 | 15.4 | 68.4 | 14.7 | 65.3 |
| September ............................................... | 336,348 | 266,722 | 51,935 | 15.4 | 68.6 | 14.7 | 65.3 |
| October | 336,346 | 267,413 | 51,224 | 14.9 | 66.4 | 15.1 | 65.3 |
| November ............................................... | 309,397 | 243,861 | 48,790 | 14.1 | 63.1 | 14.6 | 65.3 |
| December ............................................... | 322,469 | 253,154 | 52,012 | 14.3 | 63.6 | 14.6 | 65.3 |

[^16]NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 16. Live births by day of week and index of occurrence by method of delivery, day of week, and race of mother: United States, 1996

| 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 ${ }^{3}$ | 10,632 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Sunday | 7,949 | 74.8 | 79.7 | 56.2 | 66.2 | 39.0 |
| Monday | 10,742 | 101.0 | 100.2 | 104.1 | 97.1 | 116.1 |
| Tuesday | 11,903 | 111.9 | 110.0 | 119.1 | 115.8 | 124.8 |
| Wednesday | 11,712 | 110.2 | 108.4 | 116.8 | 114.8 | 120.3 |
| Thursday | 11,631 | 109.4 | 107.9 | 115.0 | 112.6 | 119.1 |
| Friday ... | 11,690 | 109.9 | 106.5 | 122.1 | 115.6 | 133.2 |
| Saturday | 8,774 | 82.5 | 86.9 | 66.3 | 77.7 | 46.7 |
| White | 8,451 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Sunday | 6,154 | 72.8 | 77.9 | 53.7 | 64.1 | 36.2 |
| Monday | 8,583 | 101.6 | 100.7 | 105.0 | 97.6 | 117.3 |
| Tuesday | 9,537 | 112.8 | 110.9 | 120.1 | 116.8 | 125.7 |
| Wednesday | 9,377 | 111.0 | 109.2 | 117.8 | 115.7 | 121.4 |
| Thursday ... | 9,303 | 110.1 | 108.6 | 115.5 | 113.1 | 119.6 |
| Friday ...... | 9,349 | 110.6 | 107.0 | 123.4 | 116.4 | 135.1 |
| Saturday | 6,830 | 80.8 | 85.3 | 64.0 | 75.9 | 43.9 |
| Black . | 1,625 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Sunday | 1,334 | 82.1 | 86.6 | 66.0 | 74.3 | 50.9 |
| Monday | 1,605 | 98.8 | 98.3 | 100.5 | 94.8 | 110.7 |
| Tuesday | 1,769 | 108.9 | 107.0 | 115.5 | 112.2 | 121.4 |
| Wednesday | 1,745 | 107.4 | 105.7 | 113.3 | 111.6 | 116.4 |
| Thursday .... | 1,735 | 106.8 | 105.2 | 112.7 | 110.5 | 116.5 |
| Friday .... | 1,739 | 107.0 | 104.1 | 116.4 | 111.8 | 124.6 |
| Saturday | 1,446 | 89.0 | 92.8 | 75.4 | 84.6 | 58.9 |

[^17]NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 17. Number, rate, and percent of births to unmarried women by age, race, and Hispanic origin of mother: United States, 1996


[^18]NOTES: 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. Rates cannot be computed for unmarried non-Hispanic black women because the necessary populations are not available.

Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-96, and by age, race and Hispanic origin of mother: United States, 1980-96
[Rates are live births to unmarried women per 1,000 unmarried women in specified group, estimated as of July 1]

| Year and race and Hispanic origin | Age of Mother |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 15-44 \\ \text { years }^{1} \end{gathered}$ | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 40-44 \\ \text { years }^{2} \end{gathered}$ |
|  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |
| All races ${ }^{3}$ |  |  |  |  |  |  |  |  |  |
| 19964 ........................................ | 44.8 | 42.9 | 29.0 | 65.9 | 70.7 | 56.8 | 41.1 | 20.1 | 4.8 |
| 19954 ....................................... | 45.1 | 44.4 | 30.5 | 67.6 | 70.3 | 56.1 | 39.6 | 19.5 | 4.7 |
| 19944 ....................................... | 46.9 | 46.4 | 32.0 | 70.1 | 72.2 | 59.0 | 40.1 | 19.8 | 4.7 |
| 19934 ....................................... | 45.3 | 44.5 | 30.6 | 66.9 | 69.2 | 57.1 | 38.5 | 19.0 | 4.4 |
| 19924 ........................................ | 45.2 | 44.6 | 30.4 | 67.3 | 68.5 | 56.5 | 37.9 | 18.8 | 4.1 |
| 19914 ........................................ | 45.2 | 44.8 | 30.9 | 65.7 | 68.0 | 56.5 | 38.1 | 18.0 | 3.8 |
| 19904 ....................................... | 43.8 | 42.5 | 29.6 | 60.7 | 65.1 | 56.0 | 37.6 | 17.3 | 3.6 |
| 19894 ....................................... | 41.6 | 40.1 | 28.7 | 56.0 | 61.2 | 52.8 | 34.9 | 16.0 | 3.4 |
| 19884 ...................................... | 38.5 | 36.4 | 26.4 | 51.5 | 56.0 | 48.5 | 32.0 | 15.0 | 3.2 |
| 19874 ........................................ | 36.0 | 33.8 | 24.5 | 48.9 | 52.6 | 44.5 | 29.6 | 13.5 | 2.9 |
| 19864 ....................................... | 34.2 | 32.3 | 22.8 | 48.0 | 49.3 | 42.2 | 27.2 | 12.2 | 2.7 |
| 19854 ....................................... | 32.8 | 31.4 | 22.4 | 45.9 | 46.5 | 39.9 | 25.2 | 11.6 | 2.5 |
| 1984 4, 5 ..................................... | 31.0 | 30.0 | 21.9 | 42.5 | 43.0 | 37.1 | 23.3 | 10.9 | 2.5 |
| 1983 4, 5 ....................................................... | 30.3 | 29.5 | 22.0 | 40.7 | 41.8 | 35.5 | 22.4 | 10.2 | 2.6 |
| 1982 4,5 ..................................... | 30.0 | 28.7 | 21.5 | 39.6 | 41.5 | 35.1 | 21.9 | 10.0 | 2.7 |
| 1981 4, 5 | 29.5 | 27.9 | 20.9 | 39.0 | 41.1 | 34.5 | 20.8 | 9.8 | 2.6 |
| 1980 4,5 .................................... | 29.4 | 27.6 | 20.6 | 39.0 | 40.9 | 34.0 | 21.1 | 9.7 | 2.6 |
| 1980 5, 6 ..................................... | 28.4 | 27.5 | 20.7 | 38.7 | 39.7 | 31.4 | 18.5 | 8.4 | 2.3 |
| 1975 5, 6 ..................................... | 24.5 | 23.9 | 19.3 | 32.5 | 31.2 | 27.5 | 17.9 | 9.1 | 2.6 |
| 1970 6, 7 ..................................... | 26.4 | 22.4 | 17.1 | 32.9 | 38.4 | 37.0 | 27.1 | 13.6 | 3.5 |
| White, total |  |  |  |  |  |  |  |  |  |
| 19964 ........................................ | 37.6 | 34.5 | 22.7 | 54.1 | 59.0 | 49.9 | 36.1 | 17.8 | 4.3 |
| 19954 ....................................... | 37.5 | 35.5 | 23.6 | 55.4 | 58.0 | 48.7 | 34.2 | 16.9 | 4.2 |
| 19944 ....................................... | 38.3 | 36.2 | 24.1 | 56.4 | 58.1 | 49.7 | 34.2 | 17.3 | 4.3 |
| 19934 ....................................... | 35.9 | 33.6 | 22.1 | 52.4 | 54.2 | 46.7 | 32.2 | 16.4 | 3.9 |
| 19924 ........................................ | 35.2 | 33.0 | 21.6 | 51.5 | 52.7 | 45.4 | 31.5 | 16.2 | 3.6 |
| 19914 ....................................... | 34.6 | 32.8 | 21.8 | 49.6 | 51.5 | 44.6 | 31.1 | 15.2 | 3.2 |
| 19904 ........................................ | 32.9 | 30.6 | 20.4 | 44.9 | 48.2 | 43.0 | 29.9 | 14.5 | 3.2 |
| 19894 ....................................... | 30.2 | 28.0 | 19.3 | 40.2 | 43.8 | 39.1 | 26.8 | 13.1 | 2.9 |
| 19884 ........................................ | 27.4 | 25.3 | 17.6 | 36.8 | 39.2 | 35.4 | 24.2 | 12.1 | 2.7 |
| 19874 ....................................... | 25.3 | 23.2 | 16.2 | 34.5 | 36.6 | 32.0 | 22.3 | 10.7 | 2.4 |
| 19864 ....................................... | 23.9 | 21.8 | 14.9 | 33.5 | 34.2 | 30.5 | 20.1 | 9.7 | 2.2 |
| 19854 ....................................... | 22.5 | 20.8 | 14.5 | 31.2 | 31.7 | 28.5 | 18.4 | 9.0 | 2.0 |
| 1984 4, 5 .................................... | 20.6 | 19.3 | 13.7 | 27.9 | 28.5 | 25.5 | 16.8 | 8.4 | 2.0 |
| 1983 4,5 ..................................... | 19.8 | 18.7 | 13.6 | 26.4 | 27.1 | 23.8 | 15.9 | 7.8 | 2.0 |
| 1982 4, 5 ..................................... | 19.3 | 18.0 | 13.1 | 25.3 | 26.5 | 23.1 | 15.3 | 7.4 | 2.1 |
| $19814,5$ | 18.6 | 17.2 | 12.6 | 24.6 | 25.8 | 22.3 | 14.2 | 7.2 | 1.9 |
| 1980 4,5 ..................................... | 18.1 | 16.5 | 12.0 | 24.1 | 25.1 | 21.5 | 14.1 | 7.1 | 1.8 |
| White, non-Hispanic |  |  |  |  |  |  |  |  |  |
| $19964$ | 28.3 | 27.0 | 16.9 | 43.8 | 44.5 | 35.7 | 26.6 | 13.9 | 3.3 |
| 19954 ....................................... | 28.2 | 27.7 | 17.6 | 44.5 | 43.8 | 34.9 | 25.3 | 13.0 | 3.2 |
| 19944 ....................................... | 28.5 | 28.1 | 18.0 | 45.0 | 43.8 | 35.0 | 24.8 | 12.9 | 3.1 |
| 19934 ....................................... | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19924 ....................................... | --- | --- | --- | -- | --- | --- | --- | --- | --- |
| 19914 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1990 4, 8 .................................... | 24.4 | 25.0 | 16.2 | 37.0 | 36.4 | 30.3 | 20.5 | 6.1 |  |

[^19]Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-96, and by age, race and Hispanic origin of mother: United States, 1980-96--Con.
[Rates are live births to unmarried women per 1,000 unmarried women in specified group, estimated as of July 1]


## --- Data not available.

1 Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.
2 Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.
3 Includes races other than white and black.
4 Data for States in which marital status was not reported have been inferred and included with data from the remaining States; see Technical notes.
5 Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.
6 Births to unmarried women are estimated for the United States from data for registration areas in which marital status of mother was reported; see Technical notes.
7 Based on a 50-percent sample of births.
8 Rates for 1990 based on data for 48 States and the District of Columbia which reported Hispanic origin on the birth certificate. Rate shown for ages $35-39$ years is based on births to unmarried women aged $35-44$ years.
9 Persons of Hispanic origin may be of any race.
NOTE: Rates cannot be computed for unmarried non-Hispanic black women because the necessary populations are not available

Table 19. Number and percent of births to unmarried women by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
[By place of residence]

| State | Births to unmarried women |  |  |  |  |  | Percent unmarried |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { All } \\ & \text { races } 1 \end{aligned}$ | White |  | Black |  | Hispanic ${ }^{2}$ | $\begin{gathered} \text { All } \\ \text { races } 1 \end{gathered}$ | White |  | Black |  | Hispanic ${ }^{2}$ |
|  |  | Total | NonHispanic | Total | NonHispanic |  |  | Total | NonHispanic | Total | NonHispanic |  |
| United States ${ }^{3}$............ | 1,260,306 | 795,432 | 508,157 | 415,213 | 404,575 | 285,501 | 32.4 | 25.7 | 21.5 | 69.8 | 70.0 | 40.7 |
| Alabama | 20,366 | 6,597 | 6,385 | 13,651 | 13,634 | 232 | 33.7 | 16.4 | 16.2 | 69.7 | 69.8 | 24.8 |
| Alaska ......................... | 3,110 | 1,520 | 1,371 | 170 | 152 | 207 | 31.0 | 22.4 | 21.8 | 40.3 | 39.3 | 31.8 |
| Arizona | 29,243 | 23,818 | 10,032 | 1,503 | 1,437 | 14,051 | 38.8 | 36.0 | 26.0 | 64.2 | 63.9 | 50.4 |
| Arkansas .................... | 12,335 | 6,321 | 5,898 | 5,859 | 5,832 | 436 | 33.9 | 22.7 | 22.2 | 74.1 | 74.1 | 33.2 |
| California | 169,313 | 137,061 | 41,910 | 23,201 | 22,509 | 95,897 | 31.4 | 31.2 | 22.6 | 60.5 | 60.6 | 37.6 |
| Colorado ...................... | 13,863 | 11,826 | 6,888 | 1,496 | 1,410 | 5,013 | 24.8 | 23.2 | 17.8 | 58.1 | 57.5 | 40.5 |
| Connecticut .................. | 13,940 | 9,709 | 5,792 | 3,706 | 3,423 | 3,659 | 31.3 | 25.6 | 18.9 | 70.7 | 70.7 | 64.7 |
| Delaware ..................... | 3,603 | 1,840 | 1,505 | 1,731 | 1,713 | 346 | 35.5 | 24.4 | 21.8 | 73.0 | 73.0 | 52.4 |
| District of Columbia ....... | 5,547 | 574 | 150 | 4,933 | 4,908 | 430 | 66.1 | 27.9 | 12.0 | 79.8 | 80.1 | 55.3 |
| Florida ........................ | 68,077 | 38,571 | 26,716 | 28,669 | 28,119 | 12,413 | 35.9 | 27.0 | 24.8 | 67.8 | 68.1 | 34.8 |
| Georgia ....................... | 39,928 | 13,983 | 12,223 | 25,640 | 25,484 | 1,634 | 35.0 | 19.1 | 18.4 | 66.6 | 66.8 | 26.1 |
| Hawaii ......................... | 5,569 | 817 | 630 | 111 | 99 | 980 | 30.3 | 17.0 | 15.3 | 21.6 | 20.2 | 45.3 |
| Idaho | 3,969 | 3,754 | 3,068 | 24 | 22 | 632 | 21.3 | 20.8 | 19.6 | 32.0 | 30.6 | 29.0 |
| Illinois | 61,743 | 32,994 | 20,135 | 28,193 | 28,053 | 12,974 | 33.7 | 23.5 | 18.7 | 77.8 | 77.9 | 39.5 |
| Indiana | 27,002 | 20,049 | 18,775 | 6,806 | 6,757 | 1,223 | 32.3 | 27.2 | 26.6 | 77.1 | 77.1 | 41.5 |
| lowa | 9,760 | 8,734 | 8,062 | 754 | 707 | 565 | 26.3 | 24.9 | 24.2 | 71.9 | 72.1 | 38.1 |
| Kansas | 9,847 | 7,670 | 6,425 | 1,889 | 1,869 | 1,229 | 26.9 | 23.4 | 21.9 | 68.3 | 68.2 | 38.1 |
| Kentucky | 15,693 | 11,996 | 11,829 | 3,581 | 3,563 | 159 | 29.8 | 25.4 | 25.3 | 73.7 | 73.8 | 28.6 |
| Louisiana ..................... | 28,320 | 8,548 | 8,195 | 19,460 | 19,429 | 395 | 43.4 | 22.9 | 22.6 | 73.4 | 73.5 | 31.2 |
| Maine .......................... | 3,959 | 3,851 | 3,681 | 37 | 35 | 29 | 28.7 | 28.6 | 28.4 | 43.5 | 43.8 | 25.2 |
| Maryland | 23,977 | 9,299 | 7,958 | 14,408 | 14,203 | 1,234 | 33.5 | 20.3 | 18.9 | 62.8 | 63.1 | 38.2 |
| Massachusetts ........... | 20,458 | 15,371 | 11,297 | 4,344 | 3,493 | 4,651 | 25.5 | 22.2 | 18.2 | 58.9 | 59.3 | 60.2 |
| Michigan ...................... | 45,052 | 25,878 | 21,768 | 18,487 | 18,230 | 2,109 | 33.8 | 24.4 | 22.9 | 76.5 | 76.6 | 41.8 |
| Minnesota .................... | 15,798 | 12,182 | 10,701 | 2,105 | 2,067 | 1,087 | 24.8 | 21.4 | 21.1 | 67.7 | 67.8 | 46.8 |
| Mississippi ................... | 18,463 | 4,000 | 3,915 | 14,262 | 14,258 | 84 | 45.0 | 18.6 | 18.5 | 75.2 | 75.2 | 30.2 |
| Missouri ....................... | 24,483 | 15,470 | 14,909 | 8,685 | 8,668 | 563 | 33.2 | 25.2 | 24.9 | 78.1 | 78.2 | 37.1 |
| Montana | 3,026 | 2,180 | 1,976 | 16 | 14 | 106 | 27.9 | 22.9 | 22.2 | * | * | 35.6 |
| Nebraska ..................... | 5,765 | 4,594 | 3,765 | 861 | 854 | 741 | 24.8 | 21.5 | 19.8 | 71.5 | 71.6 | 39.7 |
| Nevada ....................... | 11,145 | 8,819 | 4,998 | 1,515 | 1,495 | 3,827 | 42.7 | 39.5 | 32.5 | 76.8 | 77.0 | 54.9 |
| New Hampshire ............ | 3,400 | 3,330 | 3,105 | 44 | 40 | 103 | 23.4 | 23.4 | 22.7 | 39.3 | 40.8 | 44.6 |
| New Jersey .................. | 31,959 | 17,624 | 8,476 | 13,712 | 12,997 | 9,621 | 28.0 | 20.4 | 12.6 | 66.8 | 67.6 | 49.5 |
| New Mexico .................. | 11,470 | 8,832 | 2,431 | 286 | 272 | 6,491 | 42.1 | 38.1 | 24.1 | 61.2 | 62.0 | 49.0 |
| New York | 104,416 | 60,106 | 25,149 | 39,480 | 34,251 | 33,292 | 39.6 | 31.3 | 21.1 | 71.3 | 71.2 | 63.2 |
| North Carolina .............. | 33,419 | 14,069 | 12,173 | 18,252 | 18,200 | 1,942 | 32.0 | 19.1 | 17.8 | 67.3 | 67.3 | 35.7 |
| North Dakota ................ | 2,099 | 1,528 | 1,437 | 22 | 21 | 46 | 25.1 | 20.6 | 20.1 | 24.7 | 24.4 | 33.6 |
| Ohio | 50,265 | 33,098 | 31,571 | 16,862 | 16,734 | 1,507 | 33.1 | 26.0 | 25.4 | 76.5 | 76.5 | 50.2 |
| Oklahoma | 14,267 | 9,074 | 8,139 | 3,109 | 3,095 | 955 | 30.9 | 24.8 | 24.1 | 69.3 | 69.4 | 33.1 |
| Oregon | 12,959 | 11,618 | 9,640 | 623 | 609 | 2,006 | 29.7 | 28.7 | 27.6 | 69.8 | 69.8 | 36.8 |
| Pennsylvania ................ | 47,976 | 31,163 | 27,050 | 16,160 | 15,920 | 4,213 | 32.3 | 25.1 | 23.0 | 78.5 | 78.7 | 62.5 |
| Rhode Island ................ | 4,208 | 3,318 | 2,018 | 646 | 516 | 1,001 | 33.3 | 29.7 | 24.6 | 68.4 | 68.8 | 60.0 |
| South Carolina .............. | 19,075 | 6,491 | 6,218 | 12,453 | 12,439 | 285 | 37.3 | 20.1 | 19.8 | 69.2 | 69.2 | 29.3 |
| South Dakota . | 3,091 | 1,837 | 1,791 | 25 | 23 | 59 | 29.5 | 21.2 | 21.0 | 30.1 | 28.8 | 40.4 |
| Tennessee ................... | 24,645 | 12,601 | 12,178 | 11,769 | 11,743 | 443 | 33.4 | 22.3 | 22.1 | 73.5 | 73.5 | 31.1 |
| Texas | 100,573 | 74,748 | 26,585 | 24,609 | 24,408 | 48,256 | 30.4 | 26.5 | 19.1 | 63.3 | 63.4 | 33.8 |
| Utah | 6,809 | 6,108 | 4,709 | 156 | 136 | 1,419 | 16.2 | 15.3 | 13.1 | 48.1 | 54.0 | 36.0 |
| Vermont ....................... | 1,786 | 1,759 | 1,646 | 11 | 10 | 7 | 26.4 | 26.3 | 25.9 |  |  |  |
| Virginia ....................... | 26,634 | 12,920 | 10,999 | 13,255 | 13,224 | 1,939 | 28.8 | 19.2 | 17.7 | 63.4 | 63.6 | 37.7 |
| Washington ................. | 21,287 | 17,432 | 13,744 | 1,743 | 1,641 | 3,339 | 27.3 | 25.8 | 24.1 | 56.0 | 56.9 | 37.4 |
| West Virginia ................ | 6,504 | 5,935 | 5,908 | 549 | 545 | 30 | 31.3 | 29.9 | 29.9 | 74.0 | 73.8 | 24.0 |
| Wisconsin .................... | 18,413 | 12,292 | 10,920 | 5,328 | 5,293 | 1,424 | 27.4 | 21.2 | 19.9 | 82.8 | 82.9 | 45.4 |
| Wyoming .................... | 1,697 | 1,523 | 1,313 | 22 | 21 | 217 | 27.0 | 25.6 | 24.1 | 44.9 | 43.8 | 41.5 |
| Puerto Rico .................. | 27,886 | 24,821 | --- | 3,055 | --- | --- | 44.2 | 42.7 | --- | 61.1 | --- | --- |
| Virgin Islands ................ | 1,224 | 171 | 35 | 1,045 | 952 | 188 | 64.3 | 48.9 | 35.7 | 69.5 | 70.1 | 58.6 |
| Guam ........................... | 2,066 | 73 | 66 | 10 | 10 | 9 | 48.5 | 17.1 | 16.9 | * |  |  |

[^20]Table 20. Birth rates by age and race of father: United States, 1980-96
[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 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} 15-19 \\ \text { years }^{2} \end{gathered}$ | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-49 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 50-54 \\ & \text { years } \end{aligned}$ | 55 years and over |


| All races ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1996 .................. | 51.1 | 23.0 | 84.4 | 107.7 | 94.3 | 51.5 | 20.4 | 6.9 | 2.5 | 0.3 |
| 1995 ................. | 52.0 | 24.3 | 86.0 | 107.2 | 93.3 | 51.0 | 20.3 | 7.1 | 2.6 | 0.3 |
| 1994 ................. | 53.2 | 25.0 | 87.3 | 108.8 | 93.3 | 50.9 | 20.2 | 7.2 | 2.6 | 0.3 |
| 1993 ................. | 54.4 | 24.8 | 87.1 | 110.8 | 93.5 | 51.1 | 20.2 | 7.3 | 2.7 | 0.4 |
| 1992 ................. | 55.8 | 24.6 | 87.7 | 113.1 | 94.2 | 51.3 | 20.4 | 7.3 | 2.7 | 0.4 |
| 1991 ................. | 57.1 | 24.8 | 88.0 | 114.7 | 95.1 | 51.8 | 20.2 | 7.5 | 2.7 | 0.4 |
| 1990 ................. | 58.4 | 23.5 | 88.0 | 116.4 | 97.8 | 53.0 | 21.0 | 7.5 | 2.8 | 0.4 |
| 1989 ................. | 57.2 | 21.9 | 85.4 | 114.3 | 94.8 | 51.3 | 20.4 | 7.4 | 2.7 | 0.6 |
| 1988 ..................... | 55.8 | 19.6 | 82.4 | 111.6 | 93.2 | 49.9 | 19.9 | 7.1 | 2.7 | 0.4 |
| 1987 .................. | 55.0 | 18.3 | 80.5 | 109.9 | 91.2 | 48.6 | 19.0 | 6.9 | 2.6 | 0.4 |
| 1986 ................. | 54.8 | 17.9 | 80.3 | 109.6 | 90.3 | 46.8 | 18.3 | 6.7 | 2.6 | 0.4 |
| 1985 ................. | 55.6 | 18.0 | 81.2 | 112.3 | 91.1 | 47.3 | 18.1 | 6.6 | 2.5 | 0.4 |
| $1984{ }^{4}$............... | 55.0 | 17.8 | 80.7 | 111.4 | 89.9 | 46.0 | 17.8 | 6.3 | 2.4 | 0.4 |
| 19834 ............... | 55.1 | 18.2 | 82.6 | 113.0 | 89.1 | 45.2 | 17.4 | 6.4 | 2.3 | 0.4 |
| $1982{ }^{4}$................. | 56.4 | 18.6 | 86.5 | 117.3 | 90.3 | 44.5 | 17.5 | 6.4 | 2.3 | 0.4 |
| 19814 ................. | 56.3 | 18.4 | 88.4 | 119.1 | 88.7 | 43.3 | 17.0 | 6.2 | 2.3 | 0.4 |
| $1980{ }^{4}$............... | 57.0 | 18.8 | 92.0 | 123.1 | 91.0 | 42.8 | 17.1 | 6.1 | 2.2 | 0.3 |
| White |  |  |  |  |  |  |  |  |  |  |
| 1996 .................. | 48.4 | 18.8 | 77.2 | 106.4 | 94.0 | 50.2 | 19.0 | 6.2 | 2.1 | 0.2 |
| 1995 ..................... | 49.2 | 19.7 | 78.5 | 105.7 | 92.9 | 49.6 | 19.0 | 6.3 | 2.2 | 0.2 |
| 1994 ................. | 50.0 | 19.8 | 78.5 | 106.4 | 92.5 | 49.3 | 18.9 | 6.3 | 2.2 | 0.3 |
| 1993 ................. | 50.9 | 19.2 | 77.9 | 108.0 | 92.4 | 49.2 | 18.6 | 6.4 | 2.2 | 0.2 |
| 1992 ................. | 52.2 | 18.9 | 78.2 | 110.1 | 93.2 | 49.3 | 18.8 | 6.4 | 2.2 | 0.3 |
| 1991 ................. | 53.3 | 19.1 | 78.4 | 111.5 | 93.6 | 49.7 | 18.5 | 6.5 | 2.2 | 0.3 |
| 1990 .................. | 54.6 | 18.1 | 78.3 | 113.2 | 96.1 | 50.9 | 19.2 | 6.5 | 2.2 | 0.3 |
| 1989 .................. | 53.3 | 16.7 | 75.9 | 110.8 | 93.0 | 49.1 | 18.7 | 6.3 | 2.1 | 0.4 |
| 1988 .................. | 52.2 | 14.8 | 73.7 | 108.3 | 91.2 | 47.6 | 18.1 | 6.1 | 2.1 | 0.3 |
| 1987 ................. | 51.6 | 13.9 | 72.8 | 107.0 | 89.5 | 46.2 | 17.3 | 5.9 | 2.0 | 0.3 |
| 1986 ................. | 51.7 | 13.8 | 73.3 | 107.0 | 88.7 | 44.4 | 16.6 | 5.7 | 2.0 | 0.3 |
| 1985 ................. | 52.6 | 14.0 | 74.7 | 109.9 | 89.5 | 44.8 | 16.3 | 5.6 | 1.9 | 0.3 |
| $1984{ }^{4}$............... | 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 |
| $1982{ }^{4}$............... | 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 |
| $1980{ }^{4}$............... | 53.4 | 15.4 | 84.9 | 119.4 | 87.8 | 39.7 | 15.0 | 5.1 | 1.8 | 0.3 |
| Black |  |  |  |  |  |  |  |  |  |  |
| 1996 ................. | 68.3 | 47.2 | 138.0 | 127.2 | 89.3 | 52.3 | 25.7 | 11.6 | 5.5 | 1.1 |
| 1995 ................. | 70.1 | 50.5 | 140.5 | 126.6 | 89.6 | 52.6 | 25.7 | 12.1 | 5.6 | 1.1 |
| 1994 ................. | 74.9 | 54.6 | 150.5 | 131.9 | 92.9 | 54.2 | 26.4 | 13.0 | 6.0 | 1.1 |
| 1993 ................. | 78.3 | 56.6 | 153.8 | 136.0 | 95.3 | 56.6 | 27.7 | 13.5 | 6.4 | 1.3 |
| 1992 ................. | 81.0 | 57.4 | 158.0 | 140.1 | 96.8 | 56.9 | 28.4 | 13.9 | 6.2 | 1.4 |
| 1991 .................. | 83.4 | 58.0 | 158.5 | 143.3 | 100.1 | 58.8 | 29.4 | 14.2 | 6.7 | 1.4 |
| 1990 ................. | 84.9 | 55.2 | 158.2 | 144.9 | 103.2 | 60.4 | 31.1 | 15.0 | 7.1 | 1.4 |
| 1989 ................. | 84.1 | 52.9 | 153.4 | 143.5 | 101.4 | 59.9 | 31.1 | 14.9 | 6.9 | 2.7 |
| 1988 ................. | 80.7 | 48.1 | 144.1 | 137.9 | 100.0 | 58.0 | 30.6 | 14.3 | 6.9 | 1.4 |
| 1987 ................. | 78.3 | 44.6 | 136.1 | 133.9 | 97.4 | 58.0 | 30.0 | 13.8 | 6.6 | 1.3 |
| 1986 ................. | 77.2 | 42.6 | 131.4 | 131.6 | 97.4 | 58.0 | 29.1 | 13.5 | 6.7 | 1.3 |
| 1985 ................. | 77.2 | 41.8 | 129.5 | 132.7 | 97.3 | 59.4 | 29.5 | 13.3 | 6.5 | 1.2 |
| $1984{ }^{4}$............... | 76.7 | 40.9 | 128.0 | 132.2 | 98.3 | 58.4 | 29.3 | 13.3 | 6.1 | 1.2 |
| 19834 ............... | 77.2 | 40.7 | 129.1 | 134.4 | 99.0 | 59.6 | 29.6 | 13.5 | 6.0 | 1.2 |
| $1982{ }^{4}$............... | 79.5 | 40.3 | 133.4 | 141.2 | 103.6 | 61.1 | 29.6 | 13.9 | 6.0 | 1.2 |
| 19814 .............. | 80.4 | 38.9 | 138.4 | 145.6 | 104.3 | 61.3 | 29.7 | 13.3 | 5.7 | 1.2 |
| $1980{ }^{4}$............... | 83.0 | 40.1 | 145.3 | 152.8 | 109.6 | 62.0 | 31.2 | 13.6 | 5.9 | 1.1 |

[^21]Table 21. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of school, by age and race of mother: United States, 1996

| Age and race of mother | Total | Years of school completed by mother |  |  |  |  |  | Percent 12 years or more | Percent 16 years or more |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & 0-8 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 9-11 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 12 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 13-15 \\ & \text { years } \end{aligned}$ | 16 years or more | Not Stated |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| All ages ................... | 3,891,494 | 233,596 | 626,175 | 1,281,198 | 847,139 | 847,824 | 55,562 | 77.6 | 22.1 |
| Under 15 years ......... | 11,148 | 8,455 | 2,317 | - ${ }^{-}$ | - ${ }^{-}$ | - | 376 | - | - |
| 15-19 years .............. | 491,577 | 45,535 | 261,949 | 153,821 | 22,254 | - | 8,018 | 36.4 | - |
| 15 years .............. | 28,540 | 9,440 | 18,342 | - | - | - | 758 | - | - |
| 16 years .............. | 60,287 | 8,316 | 49,260 | 1,555 | - | - | 1,156 | 2.6 | - |
| 17 years .............. | 96,894 | 8,150 | 72,782 | 14,000 | 323 | - | 1,639 | 15.0 | - |
| 18 years .............. | 135,059 | 9,102 | 65,114 | 54,853 | 3,949 | - | 2,041 | 44.2 | - |
| 19 years .............. | 170,797 | 10,527 | 56,451 | 83,413 | 17,982 | - | 2,424 | 60.2 | - |
| 20-24 years ............. | 945,210 | 63,020 | 187,992 | 414,079 | 219,077 | 47,694 | 13,348 | 73.1 | 5.1 |
| 25-29 years .............. | 1,071,287 | 53,792 | 99,745 | 357,007 | 279,400 | 267,152 | 14,191 | 85.5 | 25.3 |
| 30-34 years .............. | 897,913 | 37,532 | 50,607 | 238,990 | 218,714 | 340,048 | 12,022 | 90.1 | 38.4 |
| 35-39 years .............. | 399,510 | 19,576 | 19,830 | 100,150 | 91,401 | 162,427 | 6,126 | 90.0 | 41.3 |
| 40 years and over ..... | 74,849 | 5,686 | 3,735 | 17,151 | 16,293 | 30,503 | 1,481 | 87.2 | 41.6 |
| White |  |  |  |  |  |  |  |  |  |
| All ages ................... | 3,093,057 | 202,837 | 456,141 | 992,327 | 673,793 | 728,558 | 39,401 | 78.4 | 23.9 |
| Under 15 years ......... | 5,526 | 4,195 | 1,133 | 108,439 | 15,050 | - | 198 | - | - |
| 15-19 years ............. | 344,685 | 37,168 | 178,776 | 108,439 | 15,050 | - | 5,252 | 36.4 | - |
| 15 years .............. | 16,978 | 5,980 | 10,566 | - | - | - | 432 | - | - |
| 16 years .............. | 39,401 | 6,385 | 31,228 | 1,052 | - | - | 736 | 2.7 | - |
| 17 years .............. | 66,997 | 6,980 | 49,296 | 9,445 | 227 | - | 1,049 | 14.7 | - |
| 18 years .............. | 96,246 | 8,187 | 46,154 | 37,887 | 2,656 | - | 1,362 | 42.7 | - |
| 19 years .............. | 125,063 | 9,636 | 41,532 | 60,055 | 12,167 | - ${ }^{-}$ | 1,673 | 58.5 | - |
| 20-24 years .............. | 726,669 | 58,273 | 143,121 | 313,425 | 164,541 | 37,759 | 9,550 | 71.9 | 5.3 |
| 25-29 years .............. | 878,449 | 48,504 | 78,562 | 284,959 | 226,946 | 229,276 | 10,202 | 85.4 | 26.4 |
| 30-34 years .............. | 747,436 | 33,179 | 37,850 | 192,765 | 179,995 | 294,919 | 8,728 | 90.4 | 39.9 |
| 35-39 years .............. | 329,782 | 16,931 | 14,164 | 79,655 | 74,209 | 140,416 | 4,407 | 90.4 | 43.2 |
| 40 years and over ..... | 60,510 | 4,587 | 2,535 | 13,084 | 13,052 | 26,188 | 1,064 | 88.0 | 44.1 |
| Black |  |  |  |  |  |  |  |  |  |
| All ages ................... | 594,781 | 18,573 | 145,688 | 229,655 | 131,046 | 58,299 | 11,520 | 71.8 | 10.0 |
| Under 15 years ......... | 5,193 | 3,961 | 1,084 | - ${ }^{-}$ | - | - | 148 | - | - |
| 15-19 years .............. | 130,596 | 7,224 | 74,679 | 40,008 | 6,306 | - | 2,379 | 36.1 | - |
| 15 years .............. | 10,498 | 3,145 | 7,066 | - | - | - | 287 | - | - |
| 16 years .............. | 18,753 | 1,719 | 16,232 | 441 | - | - | 361 | 2.4 | - |
| 17 years .............. | 26,775 | 994 | 21,175 | 4,025 | 79 | - | 502 | 15.6 | - |
| 18 years .............. | 34,394 | 711 | 16,982 | 15,005 | 1,124 | - | 572 | 47.7 | - |
| 19 years .............. | 40,176 | 655 | 13,224 | 20,537 | 5,103 | - | 657 | 64.9 | - |
| 20-24 years .............. | 179,361 | 2,486 | 38,471 | 84,024 | 44,520 | 6,974 | 2,886 | 76.8 | 4.0 |
| 25-29 years .............. | 133,204 | 1,913 | 16,592 | 54,729 | 38,536 | 18,781 | 2,653 | 85.8 | 14.4 |
| 30-34 years ............. | 94,295 | 1,584 | 9,680 | 33,483 | 27,524 | 19,898 | 2,126 | 87.8 | 21.6 |
| 35-39 years .............. | 43,716 | 1,067 | 4,303 | 14,635 | 12,044 | 10,570 | 1,097 | 87.4 | 24.8 |
| 40 years and over ..... | 8,416 | 338 | 879 | 2,776 | 2,116 | 2,076 | 231 | 85.1 | 25.4 |

[^22]Table 22. Number of live births and percent distribution by weight gain of mother during pregnancy and median weight gain, according to period of gestation, race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 1996

| Period of gestation ${ }^{1}$ and race and Hispanic origin of mother | All births | Weight gain during pregnancy |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Less than 16 pounds | $\begin{gathered} 16-20 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 21-25 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 26-30 \\ \text { pounds } \end{gathered}$ | $\begin{gathered} 31-35 \\ \text { pounds } \end{gathered}$ | 36-40 pounds | 41-45 pounds | 46 pounds or more | Not stated | Median weight gain in pounds |
|  | Number |  |  |  |  |  |  |  |  |  |  |
| All gestation periods ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$ | 3,352,061 | 340,578 | 336,239 | 443,745 | 579,778 | 438,917 | 386,286 | 202,425 | 337,382 | 286,711 | $\ldots$ |
| White, total ........................ | 2,653,534 | 244,006 | 255,287 | 354,491 | 472,052 | 364,556 | 317,408 | 167,131 | 270,370 | 208,233 | $\ldots$ |
| White, non-Hispanic .......... | 2,173,330 | 191,046 | 203,177 | 294,212 | 395,718 | 310,927 | 270,774 | 143,279 | 231,818 | 132,379 | $\ldots$ |
| Black, total | 556,410 | 83,217 | 65,462 | 68,946 | 82,549 | 55,849 | 54,003 | 28,093 | 56,603 | 61,688 |  |
| Black, non-Hispanic ........... | 540,966 | 81,529 | 63,881 | 67,007 | 80,361 | 54,098 | 52,450 | 27,181 | 54,894 | 59,565 | ... |
| Hispanic ${ }^{4}$......................... | 136,689 | 12,868 | 14,971 | 19,643 | 24,317 | 17,872 | 14,367 | 6,899 | 9,911 | 15,841 | $\ldots$ |
| Under 37 weeks |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$.................. | 372,057 | 59,672 | 46,998 | 49,258 | 55,691 | 36,926 | 32,380 | 16,608 | 30,636 | 43,888 | $\ldots$ |
| White, total ........................ | 260,087 | 36,344 | 31,628 | 35,308 | 40,873 | 28,076 | 24,229 | 12,680 | 22,854 | 28,095 | ... |
| White, non-Hispanic .......... | 207,134 | 28,002 | 25,099 | 28,896 | 33,349 | 23,424 | 20,243 | 10,775 | 19,376 | 17,970 | $\ldots$ |
| Black, total ............... | 97,106 | 21,172 | 13,491 | 11,809 | 12,536 | 7,382 | 6,946 | 3,352 | 6,814 | 13,604 | ... |
| Black, non-Hispanic ........... | 95,108 | 20,816 | 13,244 | 11,551 | 12,287 | 7,228 | 6,782 | 3,263 | 6,657 | 13,280 | $\ldots$ |
| Hispanic ${ }^{4}$......................... | 14,303 | 2,081 | 1,820 | 2,060 | 2,205 | 1,415 | 1,159 | 562 | 930 | 2,071 | $\ldots$ |
| 37-39 weeks |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$ | 1,500,905 | 148,525 | 153,852 | 207,836 | 269,887 | 200,848 | 171,833 | 87,729 | 141,101 | 119,294 | ... |
| White, total ......................... | 1,185,674 | 107,547 | 116,784 | 165,941 | 218,926 | 165,736 | 140,192 | 71,796 | 111,992 | 86,760 | $\ldots$ |
| White, non-Hispanic .......... | 971,227 | 83,992 | 92,818 | 137,633 | 183,525 | 141,312 | 119,377 | 61,271 | 95,699 | 55,600 | ... |
| Black, total | 247,197 | 34,803 | 29,279 | 31,731 | 38,440 | 26,043 | 24,632 | 12,637 | 24,594 | 25,038 | ... |
| Black, non-Hispanic ........... | 240,587 | 34,096 | 28,584 | 30,850 | 37,454 | 25,277 | 23,965 | 12,246 | 23,890 | 24,225 |  |
| Hispanic ${ }^{4}$......................... | 65,544 | 5,936 | 7,522 | 9,856 | 12,081 | 8,776 | 6,811 | 3,149 | 4,302 | 7,111 | ... |
| 40 weeks and over |  |  |  |  |  |  |  |  |  |  |  |
| White, total | 1,197,570 | 99,523 | 106,401 | 152,736 | 211,538 | 170,258 | 152,540 | 82,429 | 135,161 | 86,984 | ... |
| White, non-Hispanic ........... | 988,195 | 78,656 | 84,917 | 127,279 | 178,280 | 145,813 | 130,779 | 71,050 | 116,465 | 54,956 | $\ldots$ |
| Black, total | 209,193 | 26,951 | 22,522 | 25,279 | 31,407 | 22,323 | 22,340 | 12,060 | 25,087 | 21,224 | ... |
| Black, non-Hispanic ........... | 202,668 | 26,336 | 21,886 | 24,481 | 30,462 | 21,495 | 21,621 | 11,631 | 24,244 | 20,512 |  |
| Hispanic ${ }^{4}$......................... | 55,386 | 4,767 | 5,525 | 7,534 | 9,883 | 7,531 | 6,290 | 3,160 | 4,605 | 6,091 | $\ldots$ |
|  | Percent distribution |  |  |  |  |  |  |  |  |  |  |
| All gestation periods ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$......................... | 100.0 | 11.1 | 11.0 | 14.5 | 18.9 | 14.3 | 12.6 | 6.6 | 11.0 | $\ldots$ | 30.4 |
| White, total ........................ | 100.0 | 10.0 | 10.4 | 14.5 | 19.3 | 14.9 | 13.0 | 6.8 | 11.1 | $\ldots$ | 30.6 |
| White, non-Hispanic .......... | 100.0 | 9.4 | 10.0 | 14.4 | 19.4 | 15.2 | 13.3 | 7.0 | 11.4 | $\ldots$ | 30.7 |
| Black, total | 100.0 | 16.8 | 13.2 | 13.9 | 16.7 | 11.3 | 10.9 | 5.7 | 11.4 | ... | 29.1 |
| Black, non-Hispanic ........... | 100.0 | 16.9 | 13.3 | 13.9 | 16.7 | 11.2 | 10.9 | 5.6 | 11.4 | ... | 29.0 |
| Hispanic ${ }^{4}$......................... | 100.0 | 10.6 | 12.4 | 16.3 | 20.1 | 14.8 | 11.9 | 5.7 | 8.2 | ... | 29.6 |
| Under 37 weeks |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$................... | 100.0 | 18.2 | 14.3 | 15.0 | 17.0 | 11.3 | 9.9 | 5.1 | 9.3 | ... | 27.1 |
| White, total ........................ | 100.0 | 15.7 | 13.6 | 15.2 | 17.6 | 12.1 | 10.4 | 5.5 | 9.9 | ... | 28.3 |
| White, non-Hispanic ........... | 100.0 | 14.8 | 13.3 | 15.3 | 17.6 | 12.4 | 10.7 | 5.7 | 10.2 | ... | 28.8 |
| Black, total ........................ | 100.0 | 25.4 | 16.2 | 14.1 | 15.0 | 8.8 | 8.3 | 4.0 | 8.2 | ... | 25.2 |
| Black, non-Hispanic ........... | 100.0 | 25.4 | 16.2 | 14.1 | 15.0 | 8.8 | 8.3 | 4.0 | 8.1 |  | 25.1 |
| Hispanic ${ }^{4}$......................... | 100.0 | 17.0 | 14.9 | 16.8 | 18.0 | 11.6 | 9.5 | 4.6 | 7.6 | ... | 25.9 |
| 37-39 weeks |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$........................... | 100.0 | 10.8 | 11.1 | 15.0 | 19.5 | 14.5 | 12.4 | 6.3 | 10.2 | ... | 30.3 |
| White, total ........................ | 100.0 | 9.8 | 10.6 | 15.1 | 19.9 | 15.1 | 12.8 | 6.5 | 10.2 | ... | 30.5 |
| White, non-Hispanic ........... | 100.0 | 9.2 | 10.1 | 15.0 | 20.0 | 15.4 | 13.0 | 6.7 | 10.5 | $\ldots$ | 30.6 |
| Black, total ........................ | 100.0 | 15.7 | 13.2 | 14.3 | 17.3 | 11.7 | 11.1 | 5.7 | 11.1 | ... | 29.5 |
| Black, non-Hispanic ........... | 100.0 | 15.8 | 13.2 | 14.3 | 17.3 | 11.7 | 11.1 | 5.7 | 11.0 | ... | 29.4 |
| Hispanic ${ }^{4}$......................... | 100.0 | 10.2 | 12.9 | 16.9 | 20.7 | 15.0 | 11.7 | 5.4 | 7.4 | $\ldots$ | 29.2 |
| 40 weeks and over |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$.......................... | 100.0 | 9.7 | 10.0 | 13.8 | 18.8 | 14.8 | 13.4 | 7.2 | 12.2 | ... | 30.8 |
| White, total ........................ | 100.0 | 9.0 | 9.6 | 13.8 | 19.0 | 15.3 | 13.7 | 7.4 | 12.2 | ... | 30.9 |
| White, non-Hispanic .......... | 100.0 | 8.4 | 9.1 | 13.6 | 19.1 | 15.6 | 14.0 | 7.6 | 12.5 | ... | 31.0 |
| Black, total ........................ | 100.0 | 14.3 | 12.0 | 13.4 | 16.7 | 11.9 | 11.9 | 6.4 | 13.3 | $\ldots$ | 30.3 |
| Black, non-Hispanic ........... | 100.0 | 14.5 | 12.0 | 13.4 | 16.7 | 11.8 | 11.9 | 6.4 | 13.3 | ... | 30.3 |
| Hispanic ${ }^{4}$......................... | 100.0 | 9.7 | 11.2 | 15.3 | 20.0 | 15.3 | 12.8 | 6.4 | 9.3 | ... | 30.2 |

[^23]Table 23. Percent low birthweight by weight gain of mother during pregnancy, period of gestation, and race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 1996
[Low birthweight is defined as weight of less than 2,500 grams ( 5 lb 8 oz )]

| Period of gestation 1 |  |  |  |  |  | Weight gain during pregnancy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

[^24]NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

Table 24. Percent of births with selected medical or health characteristics, by specified race of mother, by place of birth of mother: United States, 1996

|  |  |  |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Characteristic |  |  |  |  |  |  |  |  |

* Figure does not meet standards of reliability or precision.

1 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
5 Excludes data for California, which did not report weight gain on the birth certificate. Median weight shown in pounds.
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 5-minute Apgar score on the birth certificate
NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 25. Percent of births with selected medical or health characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 1996

| Characteristic | All origins ${ }^{1}$ | Origin of mother |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Hispanic |  |  |  |  |  | Non-Hispanic |  |  |
|  |  | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{2}$ | White | Black |
| All Births Mother |  |  |  |  |  |  |  |  |  |  |
| Prenatal care beginning in the first <br> $\begin{array}{llllllllllllllllll}\text { trimester ............................................ } & 81.9 & 72.2 & 70.7 & 75.0 & 89.2 & 75.0 & 74.6 & 84.0 & 87.4 & 71.5\end{array}$ |  |  |  |  |  |  |  |  |  |  |
| Late or no prenatal care ......................... | 4.0 | 6.7 | 7.2 | 5.7 | 1.6 | 5.5 | 5.9 | 3.4 | 2.4 | 7.3 |
| Smoker ${ }^{3}$........................................... | 13.6 | 4.3 | 3.1 | 11.0 | 4.7 | 1.8 | 9.1 | 15.1 | 16.9 | 10.3 |
| Drinker 4 ............................................ | 1.4 | 0.7 | 0.6 | 1.1 | 0.4 | 0.4 | 1.7 | 1.5 | 1.4 | 2.0 |
| Weight gain of less than 16 lbs ${ }^{5}$........... | 11.1 | 13.4 | 14.7 | 12.4 | 7.2 | 10.9 | 13.2 | 10.8 | 9.4 | 16.9 |
| Median weight gain ${ }^{5}$............................ | 30.4 | 29.6 | 28.4 | 30.4 | 31.3 | 30.2 | 30.1 | 30.5 | 30.7 | 29.0 |
| Cesarean delivery rate ............................ | 20.7 | 20.0 | 19.4 | 20.8 | 30.3 | 21.3 | 19.9 | 20.8 | 20.8 | 21.7 |
| Infant |  |  |  |  |  |  |  |  |  |  |
| Preterm births 6 | 11.0 | 10.9 | 10.5 | 13.2 | 10.3 | 10.9 | 12.0 | 11.0 | 9.5 | 17.5 |
| Birthweight |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 7 | 1.4 | 1.1 | 1.0 | 1.7 | 1.3 | 1.1 | 1.5 | 1.4 | 1.1 | 3.0 |
| Low birthweight 8 .............................. | 7.4 | 6.3 | 5.9 | 9.2 | 6.5 | 6.0 | 7.7 | 7.6 | 6.4 | 13.1 |
| 4,000 grams or more 9 ....................... | 10.2 | 9.0 | 9.3 | 7.0 | 9.7 | 9.2 | 7.7 | 10.5 | 12.1 | 5.3 |
| 5-minute Apgar score of less than $710 \ldots$ | 1.4 | 1.2 | 1.2 | 1.4 | 0.8 | 1.0 | 1.4 | 1.5 | 1.2 | 2.5 |
| Births to mothers born in the 50 States and D.C. Mother |  |  |  |  |  |  |  |  |  |  |
| Prenatal care beginning in the first <br> $\begin{array}{llllllllllllllllll}\text { trimester ............................................ } & 83.5 & 75.4 & 75.0 & 75.4 & 89.1 & 79.6 & 74.7 & 84.3 & 87.5 & 71.2\end{array}$ |  |  |  |  |  |  |  |  |  |  |
| Late or no prenatal care ........................ | 3.5 | 5.2 | 5.2 | 5.5 | 1.7 | 3.8 | 5.7 | 3.3 | 2.3 | 7.4 |
| Smoker ${ }^{3}$........................................... | 15.5 | 7.7 | 5.7 | 12.6 | 5.6 | 5.7 | 11.1 | 16.1 | 17.3 | 11.1 |
| Drinker 4 ............................................ | 1.5 | 1.2 | 1.0 | 1.1 | 0.7 | 1.2 | 2.2 | 1.6 | 1.4 | 2.1 |
| Weight gain of less than 16 lbs ${ }^{5}$........... | 11.0 | 12.5 | 13.1 | 11.7 | 6.6 | 8.5 | 13.2 | 10.9 | 9.4 | 17.3 |
| Median weight gain 5 ............................ | 30.5 | 29.6 | 28.4 | 30.4 | 31.3 | 30.2 | 30.1 | 30.5 | 30.7 | 29.0 |
| Cesarean delivery rate .......................... | 20.9 | 20.6 | 20.8 | 20.5 | 25.6 | 18.6 | 19.8 | 20.9 | 20.9 | 21.6 |
| Infant |  |  |  |  |  |  |  |  |  |  |
| Preterm births 6 | 11.1 | 11.7 | 11.4 | 12.8 | 9.5 | 10.7 | 12.2 | 11.1 | 9.5 | 17.8 |
| Birthweight |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 7 | 1.4 | 1.3 | 1.2 | 1.7 | 1.2 | 1.3 | 1.5 | 1.4 | 1.1 | 3.0 |
| Low birthweight 8 .............................. | 7.6 | 7.2 | 6.7 | 9.1 | 6.2 | 6.1 | 8.2 | 7.7 | 6.4 | 13.4 |
| 4,000 grams or more 9 ....................... | 10.5 | 8.2 | 8.5 | 7.0 | 9.5 | 8.6 | 7.4 | 10.7 | 12.1 | 5.0 |
| 5-minute Apgar score of less than $710 \ldots$ | 1.5 | 1.2 | 1.2 | 1.3 | 0.7 | 1.0 | 1.4 | 1.5 | 1.2 | 2.5 |
| Births to mothers born outside the 50 States and D.C. Mother |  |  |  |  |  |  |  |  |  |  |
| Prenatal care beginning in the first <br> $\begin{array}{lllllllllllllllll}\text { trimester ............................................ } & 74.9 & 70.3 & 68.1 & 74.4 & 89.3 & 74.6 & 74.8 & 81.4 & 84.3 & 75.5\end{array}$ |  |  |  |  |  |  |  |  |  |  |
| Late or no prenatal care ........................ | 6.1 | 7.5 | 8.4 | 6.0 | 1.5 | 5.6 | 6.4 | 4.2 | 3.6 | 6.2 |
| Smoker ${ }^{3}$........................................... | 3.1 | 1.9 | 1.1 | 8.5 | 4.1 | 1.5 | 2.3 | 4.4 | 8.0 | 1.9 |
| Drinker 4 ............................................ | 0.6 | 0.4 | 0.3 | 1.0 | 0.3 | 0.4 | 0.4 | 0.7 | 1.3 | 0.5 |
| Weight gain of less than 16 lbs 5 ............ | 11.9 | 14.0 | 16.0 | 13.3 | 7.6 | 11.2 | 13.1 | 9.7 | 8.1 | 13.4 |
| Median weight gain ${ }^{5}$........................... | 29.6 | 28.3 | 26.6 | 30.1 | 30.9 | 30.1 | 28.9 | 30.2 | 30.6 | 30.0 |
| Cesarean delivery rate .......................... | 19.7 | 19.6 | 18.6 | 21.2 | 33.1 | 21.5 | 20.4 | 19.8 | 19.3 | 23.4 |
| Infant |  |  |  |  |  |  |  |  |  |  |
| Preterm births 6 ................................... | 10.3 | 10.4 | 10.0 | 13.6 | 10.8 | 10.9 | 11.0 | 10.1 | 8.6 | 13.8 |
| Birthweight |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight ${ }^{7}$........................ | 1.1 | 1.0 | 0.9 | 1.7 | 1.4 | 1.1 | 1.1 | 1.2 | 1.0 | 2.5 |
| Low birthweight 8 .............................. | 6.2 | 5.7 | 5.3 | 9.4 | 6.6 | 6.0 | 5.7 | 6.9 | 5.8 | 9.4 |
| 4,000 grams or more 9 ........................ | 9.1 | 9.6 | 9.9 | 7.1 | 9.8 | 9.2 | 8.6 | 8.3 | 11.4 | 8.4 |
| 5-minute Apgar score of less than $710 \ldots$ | 1.2 | 1.1 | 1.2 | 1.5 | 0.8 | 1.0 | 1.2 | 1.2 | 1.0 | 2.0 |
| 1 Includes origin not stated. |  |  |  |  |  |  |  |  |  |  |
| 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. Median weight gain shown in pounds. <br> 6 Born prior to 37 completed weeks of gestation |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 7 Birthweight of less than 1,500 grams ( 3 lb 4 oz ). |  |  |  |  |  |  |  |  |  |  |
| 8 Birthweight of less than 2,500 grams ( 5 lb 8 oz ). <br> 9 |  |  |  |  |  |  |  |  |  |  |
| 10 Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate. |  |  |  |  |  |  |  |  |  |  |

Table 26. Live births to mothers with selected medical risk factors and rates by age of mother, by race of mother: United States, 1996
[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 |  |  |  |  |  |  |  |

[^25]NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 27. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by specified race of mother: United States, 1996
[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 | 75,400 | 51,039 | 19,881 | 1,788 | 2,692 | 280 | 132 | 211 | 456 | 1,613 |
| Diabetes | 100,845 | 78,249 | 14,568 | 1,717 | 6,311 | 1,231 | 226 | 166 | 1,272 | 3,416 |
| Hypertension, pregnancy-associated ........... | 137,724 | 110,492 | 22,099 | 1,902 | 3,231 | 366 | 165 | 170 | 870 | 1,660 |
| Uterine bleeding 2 ..................................... | 25,671 | 21,195 | 3,227 | 299 | 950 | 171 | 85 | 59 | 187 | 448 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy ........................ | 223,536 | 163,798 | 48,020 | 2,266 | 9,452 | 1,552 | 349 | 384 | 1,980 | 5,187 |
| Premature rupture of membrane .................. | 113,112 | 86,973 | 19,710 | 1,608 | 4,821 | 842 | 349 | 219 | 909 | 2,502 |
| Dysfunctional labor .................................... | 105,749 | 85,113 | 15,076 | 1,295 | 4,265 | 752 | 297 | 220 | 768 | 2,228 |
| Breech/Malpresentation ............................ | 146,431 | 121,992 | 17,526 | 1,355 | 5,558 | 951 | 344 | 245 | 1,091 | 2,927 |
| Cephalopelvic disproportion ....................... | 90,105 | 73,728 | 11,344 | 771 | 4,262 | 806 | 218 | 157 | 953 | 2,128 |
| Fetal distress ${ }^{3}$......................................... | 147,814 | 111,299 | 29,961 | 1,272 | 5,282 | 818 | 205 | 169 | 1,008 | 3,082 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis .......................................... | 124,711 | 106,391 | 10,722 | 824 | 6,774 | 1,834 | 795 | 234 | 1,310 | 2,601 |
| Electronic fetal monitoring .......................... | 3,184,945 | 2,540,938 | 487,391 | 29,711 | 126,905 | 21,944 | 6,995 | 4,781 | 23,462 | 69,723 |
| Induction of labor ...................................... | 653,877 | 554,925 | 73,716 | 6,419 | 18,817 | 3,020 | 1,171 | 965 | 3,256 | 10,405 |
| Ultrasound 4 ........................................... | 2,457,576 | 1,992,208 | 344,461 | 22,605 | 98,302 | 17,349 | 6,028 | 3,839 | 18,788 | 52,298 |
| Stimulation of labor .................................... | 652,196 | 529,023 | 91,358 | 5,555 | 26,260 | 4,721 | 1,426 | 781 | 4,226 | 15,106 |
|  | Rate |  |  |  |  |  |  |  |  |  |


| Medical risk factors |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anemia | 19.6 | 16.7 | 33.8 | 48.3 | 16.4 | 9.9 | 14.9 | 35.9 | 14.7 | 17.9 |
| Diabetes | 26.3 | 25.6 | 24.8 | 46.4 | 38.5 | 43.6 | 25.6 | 28.2 | 41.1 | 37.9 |
| Hypertension, pregnancy-associated ........... | 35.9 | 36.2 | 37.6 | 51.4 | 19.7 | 13.0 | 18.7 | 28.9 | 28.1 | 18.4 |
| Uterine bleeding ${ }^{2}$..................................... | 7.3 | 7.6 | 5.9 | 8.3 | 6.1 | 6.3 | 9.9 | 10.1 | 6.3 | 5.3 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy ........................ | 58.1 | 53.6 | 81.5 | 61.1 | 57.5 | 54.9 | 39.5 | 65.2 | 63.9 | 57.4 |
| Premature rupture of membrane .................. | 29.4 | 28.4 | 33.4 | 43.4 | 29.3 | 29.8 | 39.5 | 37.2 | 29.3 | 27.7 |
| Dysfunctional labor .................................. | 27.5 | 27.8 | 25.6 | 34.9 | 25.9 | 26.6 | 33.6 | 37.3 | 24.8 | 24.7 |
| Breech/Malpresentation | 38.0 | 39.9 | 29.7 | 36.6 | 33.8 | 33.6 | 38.9 | 41.6 | 35.2 | 32.4 |
| Cephalopelvic disproportion | 23.4 | 24.1 | 19.2 | 20.8 | 25.9 | 28.5 | 24.7 | 26.7 | 30.7 | 23.5 |
| Fetal distress ${ }^{3}$......................................... | 42.0 | 40.1 | 54.4 | 35.1 | 34.0 | 30.3 | 23.8 | 29.0 | 33.7 | 36.7 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 32.3 | 34.7 | 18.2 | 22.2 | 41.1 | 64.7 | 89.8 | 39.7 | 42.2 | 28.7 |
| Electronic fetal monitoring .......................... | 825.3 | 828.6 | 825.1 | 799.2 | 770.4 | 773.7 | 789.8 | 810.2 | 756.1 | 769.8 |
| Induction of labor ...................................... | 169.4 | 181.0 | 124.8 | 172.7 | 114.2 | 106.5 | 132.2 | 163.5 | 104.9 | 114.9 |
| Ultrasound 4 ........................................... | 638.7 | 651.5 | 585.6 | 608.4 | 597.6 | 612.3 | 681.2 | 651.0 | 606.0 | 578.4 |
| Stimulation of labor .................................... | 169.0 | 172.5 | 154.7 | 149.4 | 159.4 | 166.5 | 161.0 | 132.4 | 136.2 | 166.8 |

[^26]NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 28. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1996
[Rates are number of live births with specified risk factors, complications or procedures per 1,000 live births in specified group]

| Medical risk factor, complication, and obstetric procedure | All origins ${ }^{1}$ | Origin of mother |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Hispanic |  |  |  |  |  | Non-Hispanic |  |  |
|  |  | Total | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total ${ }^{2}$ | White | Black |
|  | Number |  |  |  |  |  |  |  |  |  |
| Medical risk factors |  |  |  |  |  |  |  |  |  |  |
| Anemia | 75,400 | 13,086 | 8,269 | 1,576 | 248 | 1,564 | 1,429 | 60,946 | 37,296 | 19,376 |
| Diabetes ............................................... | 100,845 | 17,094 | 11,169 | 1,790 | 304 | 2,592 | 1,239 | 82,045 | 60,239 | 14,013 |
| Hypertension, pregnancy-associated ........... | 137,724 | 18,599 | 12,436 | 1,480 | 373 | 2,678 | 1,632 | 117,210 | 90,765 | 21,508 |
| Uterine bleeding ${ }^{3}$..................................... | 25,671 | 2,732 | 1,564 | 358 | 57 | 490 | 263 | 22,435 | 18,123 | 3,137 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy | 223,536 | 41,368 | 27,373 | 3,746 | 566 | 6,909 | 2,774 | 178,978 | 121,146 | 46,532 |
| Premature rupture of membrane ................. | 113,112 | 13,807 | 8,024 | 1,701 | 350 | 2,312 | 1,420 | 96,901 | 71,677 | 19,050 |
| Dysfunctional labor .................................. | 105,749 | 15,611 | 8,834 | 1,771 | 578 | 2,809 | 1,619 | 87,138 | 67,362 | 14,426 |
| Breech/Malpresentation | 146,431 | 20,679 | 13,763 | 1,818 | 510 | 2,976 | 1,612 | 123,454 | 99,799 | 16,976 |
| Cephalopelvic disproportion. | 90,105 | 12,378 | 8,665 | 984 | 238 | 1,607 | 884 | 76,620 | 60,660 | 11,091 |
| Fetal distress ${ }^{4}$...................................... | 147,814 | 19,589 | 11,828 | 2,225 | 378 | 3,549 | 1,609 | 125,878 | 90,343 | 29,194 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis ........................................ | 124,711 | 10,240 | 5,114 | 1,360 | 360 | 2,332 | 1,074 | 110,958 | 93,258 | 10,332 |
| Electronic fetal monitoring .......................... | 3,184,945 | 532,841 | 361,613 | 46,789 | 11,014 | 75,728 | 37,697 | 2,608,232 | 1,983,272 | 473,717 |
| Induction of labor ...................................... | 653,877 | 77,744 | 50,990 | 6,918 | 2,420 | 10,424 | 6,992 | 564,298 | 468,389 | 71,663 |
| Ultrasound 5 ........................................... | 2,457,576 | 363,733 | 241,719 | 34,334 | 7,715 | 50,644 | 29,321 | 2,055,041 | 1,604,056 | 334,490 |
| Stimulation of labor | 652,196 | 105,099 | 70,023 | 10,276 | 2,177 | 15,214 | 7,409 | 535,806 | 416,556 | 88,489 |

## Medical risk factors

| Anemia | 19.6 | 18.8 | 17.0 | 29.5 | 19.8 | 16.2 | 31.3 | 19.7 | 16.0 | 33.9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Diabetes | 26.3 | 24.6 | 22.9 | 33.5 | 24.2 | 26.8 | 27.2 | 26.5 | 25.9 | 24.5 |
| Hypertension, pregnancy-associated | 35.9 | 26.8 | 25.5 | 27.7 | 29.7 | 27.7 | 35.8 | 37.9 | 39.0 | 37.6 |
| Uterine bleeding 3 ..................................... | 7.3 | 4.9 | 4.4 | 6.8 | 4.6 | 5.5 | 6.7 | 7.7 | 8.3 | 5.9 |
| Complications of labor and/or delivery |  |  |  |  |  |  |  |  |  |  |
| Meconium,moderate/heavy | 58.1 | 59.3 | 56.0 | 70.1 | 45.1 | 71.2 | 60.6 | 57.8 | 52.0 | 81.1 |
| Premature rupture of membrane ................. | 29.4 | 19.8 | 16.4 | 31.8 | 27.9 | 23.8 | 31.0 | 31.3 | 30.8 | 33.2 |
| Dysfunctional labor .................................... | 27.5 | 22.4 | 18.1 | 33.2 | 46.0 | 28.9 | 35.4 | 28.1 | 28.9 | 25.2 |
| Breech/Malpresentation | 38.0 | 29.7 | 28.2 | 34.0 | 40.6 | 30.7 | 35.2 | 39.8 | 42.8 | 29.6 |
| Cephalopelvic disproportion ....................... | 23.4 | 17.8 | 17.7 | 18.4 | 18.9 | 16.6 | 19.3 | 24.7 | 26.0 | 19.3 |
| Fetal distress ${ }^{4}$........................................ | 42.0 | 35.4 | 32.9 | 42.4 | 30.7 | 39.4 | 41.1 | 43.3 | 41.2 | 54.6 |
| Obstetric procedures |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis ......................................... | 32.3 | 14.7 | 10.5 | 25.4 | 28.6 | 24.0 | 23.4 | 35.7 | 39.9 | 18.0 |
| Electronic fetal monitoring .......................... | 825.3 | 763.5 | 740.0 | 872.2 | 876.5 | 779.1 | 822.4 | 839.3 | 848.2 | 824.5 |
| Induction of labor | 169.4 | 111.4 | 104.3 | 129.0 | 192.6 | 107.2 | 152.5 | 181.6 | 200.3 | 124.7 |
| Ultrasound ${ }^{5}$ | 638.7 | 521.7 | 494.9 | 643.1 | 614.1 | 521.6 | 640.0 | 663.5 | 688.3 | 584.6 |
| Stimulation of labor ................................... | 169.0 | 150.6 | 143.3 | 191.6 | 173.2 | 156.5 | 161.6 | 172.4 | 178.1 | 154.0 |

[^27]NOTE: Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. See Technical notes.

Table 29. Number of live births by smoking status of mother, percent smokers, and percent distribution by average number of cigarettes smoked by mothers per day, according to age and race of mother: Total of 46 reporting States, the District of Columbia, and New York City, 1996

| Smoking status, smoking measure, and race of mother | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All ages | Under 15 years | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | 40-49 years |
|  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |
|  | Number |  |  |  |  |  |  |  |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Total ..................................... | 3,117,068 | 9,252 | 404,128 | 153,003 | 251,125 | 767,447 | 859,364 | 710,346 | 310,239 | 56,292 |
| Smoker ................................ | 418,280 | 705 | 68,542 | 23,276 | 45,266 | 127,031 | 104,257 | 76,388 | 35,787 | 5,570 |
| Nonsmoker ........................... | 2,649,899 | 8,422 | 330,078 | 127,672 | 202,406 | 629,421 | 741,462 | 622,014 | 268,937 | 49,565 |
| Not stated ........................... | 48,889 | 125 | 5,508 | 2,055 | 3,453 | 10,995 | 13,645 | 11,944 | 5,515 | 1,157 |
| White |  |  |  |  |  |  |  |  |  |  |
| Total .................................... | 2,449,057 | 4,150 | 273,392 | 97,144 | 176,248 | 576,829 | 700,767 | 591,857 | 256,455 | 45,607 |
| Smoker | 354,854 | 536 | 59,582 | 19,972 | 39,610 | 110,094 | 88,820 | 62,771 | 28,683 | 4,368 |
| Nonsmoker ........................... | 2,056,100 | 3,555 | 209,962 | 75,810 | 134,152 | 458,488 | 601,032 | 519,428 | 223,293 | 40,342 |
| Not stated ............................ | 38,103 | 59 | 3,848 | 1,362 | 2,486 | 8,247 | 10,915 | 9,658 | 4,479 | 897 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Total .................................... | 532,866 | 4,798 | 118,641 | 51,178 | 67,463 | 162,525 | 118,449 | 83,013 | 38,120 | 7,320 |
| Smoker ................................ | 53,460 | 139 | 6,999 | 2,539 | 4,460 | 13,746 | 13,130 | 11,985 | 6,388 | 1,073 |
| Nonsmoker ........................... | 471,541 | 4,606 | 110,290 | 48,065 | 62,225 | 146,640 | 103,409 | 69,481 | 31,036 | 6,079 |
| Not stated ............................ | 7,865 | 53 | 1,352 | 574 | 778 | 2,139 | 1,910 | 1,547 | 696 | 168 |
|  | Percent |  |  |  |  |  |  |  |  |  |
| Smoker ${ }^{1}$.............................. | 13.6 | 7.7 | 17.2 | 15.4 | 18.3 | 16.8 | 12.3 | 10.9 | 11.7 | 10.1 |
| White ................................... | 14.7 | 13.1 | 22.1 | 20.9 | 22.8 | 19.4 | 12.9 | 10.8 | 11.4 | 9.8 |
| Black ................................... | 10.2 | 2.9 | 6.0 | 5.0 | 6.7 | 8.6 | 11.3 | 14.7 | 17.1 | 15.0 |

Percent distribution

| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Smoker ................................ | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1-5 cigarettes ......................... | 26.2 | 51.1 | 33.9 | 37.5 | 32.1 | 26.3 | 24.0 | 23.8 | 23.0 | 21.4 |
| 6-10 cigarettes ...................... | 40.4 | 32.6 | 41.9 | 41.3 | 42.3 | 41.9 | 40.5 | 38.8 | 36.8 | 35.4 |
| 11-15 cigarettes ..................... | 6.4 | * | 4.6 | 4.1 | 4.8 | 6.0 | 6.9 | 7.4 | 7.4 | 7.3 |
| 16-20 cigarettes ..................... | 22.7 | 12.7 | 17.2 | 15.2 | 18.2 | 22.2 | 24.0 | 24.7 | 26.2 | 27.9 |
| 21-30 cigarettes ..................... | 2.9 |  | 1.6 | 1.3 | 1.8 | 2.5 | 3.2 | 3.6 | 4.4 | 4.8 |
| 31-40 cigarettes .................... | 1.1 | * | 0.6 | 0.4 | 0.7 | 0.9 | 1.1 | 1.5 | 2.0 | 2.9 |
| 41 cigarettes or more .............. | 0.2 | * | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 |
| White |  |  |  |  |  |  |  |  |  |  |
| Smoker ................................ | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1-5 cigarettes ........................ | 23.5 | 45.0 | 30.9 | 34.2 | 29.2 | 23.5 | 21.4 | 21.2 | 20.3 | 19.1 |
| 6-10 cigarettes ....................... | 40.7 | 36.4 | 43.3 | 43.1 | 43.4 | 42.4 | 40.6 | 38.1 | 35.7 | 33.6 |
| 11-15 cigarettes ..................... | 6.9 | * | 4.9 | 4.4 | 5.1 | 6.5 | 7.5 | 8.2 | 8.2 | 8.4 |
| 16-20 cigarettes ..................... | 24.2 | 14.1 | 18.4 | 16.3 | 19.4 | 23.8 | 25.6 | 26.6 | 28.3 | 29.8 |
| 21-30 cigarettes ..................... | 3.2 |  | 1.8 | 1.4 | 2.0 | 2.7 | 3.5 | 4.0 | 5.1 | 5.5 |
| 31-40 cigarettes ..................... | 1.2 | * | 0.6 | 0.4 | 0.7 | 0.9 | 1.2 | 1.6 | 2.2 | 3.3 |
| 41 cigarettes or more .............. | 0.2 | * | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 |  |
| Black |  |  |  |  |  |  |  |  |  |  |
| Smoker ............................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1-5 cigarettes ........................ | 41.8 | 71.4 | 56.4 | 59.6 | 54.6 | 45.5 | 39.7 | 36.2 | 34.1 | 29.7 |
| 6-10 cigarettes ....................... | 39.4 | 22.2 | 31.3 | 29.1 | 32.6 | 38.4 | 40.7 | 42.4 | 41.9 | 43.0 |
| 11-15 cigarettes ..................... | 3.0 | * | 2.1 | 1.9 | 2.2 | 2.6 | 3.1 | 3.4 | 4.0 | 3.0 |
| 16-20 cigarettes ..................... | 13.7 | * | 8.8 | 8.1 | 9.2 | 11.6 | 14.5 | 15.4 | 17.4 | 20.0 |
| 21-30 cigarettes ..................... | 1.1 | * | 0.7 | * | 0.6 | 1.0 | 1.1 | 1.3 | 1.4 | 2.3 |
| 31-40 cigarettes ..................... | 0.8 | * | 0.5 | * | 0.5 | 0.6 | 0.7 | 1.0 | 0.9 | * |
| 41 cigarettes or more .............. | 0.2 | * | * | * | * | 0.2 | 0.2 | 0.3 | * | * |

[^28]Table 30. Number of live births by smoking status of mother and percent of mothers who smoked cigarettes during pregnancy, by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: Total of 46 reporting States, the District of Columbia, and New York City, 1996

| Origin of mother | Smoking status |  |  |  | Age of mother |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total births | Smoker | Nonsmoker | Not stated | All ages | Under 15 years | 15-19 years |  |  | $\begin{aligned} & 20-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 30-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-49 \\ & \text { years } \end{aligned}$ |
|  |  |  |  |  |  |  | Total | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |
| All origins ${ }^{1}$ | 3,117,068 | 418,280 | 2,649,899 | 48,889 | 13.6 | 7.7 | 17.2 | 15.4 | 18.3 | 16.8 | 12.3 | 10.9 | 11.7 | 10.1 |
| Hispanic ..................... | 431,574 | 18,478 | 408,212 | 4,884 | 4.3 | 3.4 | 5.0 | 5.0 | 5.0 | 4.3 | 3.9 | 4.2 | 4.9 | 4.7 |
| Mexican ..................... | 267,473 | 8,222 | 257,468 | 1,783 | 3.1 | 3.0 | 3.6 | 3.8 | 3.5 | 2.9 | 2.7 | 3.2 | 3.7 | 3.9 |
| Puerto Rican ............... | 50,118 | 5,367 | 43,439 | 1,312 | 11.0 | * | 10.1 | 9.0 | 10.9 | 11.6 | 11.1 | 10.7 | 12.1 | 10.3 |
| Cuban ....................... | 11,658 | 539 | 11,051 | 68 | 4.7 | * | 6.1 | * | 6.6 | 4.8 | 3.9 | 4.1 | 6.6 |  |
| Central and South American $\qquad$ | 66,915 | 1,211 | 64,786 | 918 | 1.8 | * | 2.0 | 2.2 | 2.0 | 1.6 | 1.5 | 2.0 | 2.5 | 3.0 |
| Other and unknown Hispanic $\qquad$ | 35,410 | 3,139 | 31,468 | 803 | 9.1 | * | 9.6 | 9.3 | 9.9 | 9.6 | 8.4 | 8.5 | 9.3 | 8.6 |
| Non-Hispanic ${ }^{2}$............ | 2,655,953 | 395,695 | 2,220,401 | 39,857 | 15.1 | 8.9 | 20.0 | 18.1 | 21.2 | 19.4 | 13.6 | 11.7 | 12.5 | 10.7 |
| White ......................... | 2,006,908 | 333,703 | 1,643,152 | 30,053 | 16.9 | 21.5 | 28.6 | 28.2 | 28.7 | 23.8 | 14.5 | 11.7 | 12.2 | 10.5 |
| Black ......................... | 519,105 | 52,566 | 459,361 | 7,178 | 10.3 | 2.9 | 5.9 | 5.0 | 6.7 | 8.6 | 11.4 | 15.0 | 17.3 | 15.3 |

[^29]NOTES: Excludes data for California, Indiana, New York State (but includes New York City), and South Dakota, which did not require reporting of tobacco use during pregnancy. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. See Technical notes.

Table 31. Number of live births, percent of mothers who smoked cigarettes during pregnancy, and percent distribution of average number of cigarettes smoked by mothers per day, according to educational attainment and race of mother: Total of 46 reporting States, the District of Columbia, and New York City, 1996

| Smoking measure, and race of mother | Total | Years of school completed by mother |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} 0-8 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 9-11 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 12 \\ \text { years } \end{gathered}$ | $\begin{aligned} & 13-15 \\ & \text { years } \end{aligned}$ | 16 years or more | Not Stated |
|  | All births |  |  |  |  |  |  |
| All races ${ }^{1}$............................................... | 3,117,068 | 150,203 | 493,234 | 1,048,303 | 686,019 | 693,982 | 45,327 |
| White ..................................................... | 2,449,057 | 125,544 | 342,760 | 800,506 | 544,491 | 604,043 | 31,713 |
| Black ...................................................... | 532,866 | 17,495 | 132,675 | 205,683 | 115,484 | 51,564 | 9,965 |
|  | Percent |  |  |  |  |  |  |
| Smoker ${ }^{1}$................................................ | 13.6 | 12.3 | 26.0 | 17.5 | 10.3 | 2.6 | 13.1 |
| White ...................................................... | 14.7 | 13.0 | 30.1 | 19.8 | 11.3 | 2.7 | 13.6 |
| Black ..................................................... | 10.2 | 9.8 | 16.1 | 10.1 | 6.7 | 2.6 | 14.2 |
|  | Percent distribution |  |  |  |  |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |
| Smoker ................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less ................................. | 66.7 | 61.5 | 66.2 | 66.0 | 68.7 | 74.0 | 67.5 |
| 11-20 cigarettes ....................................... | 29.1 | 31.6 | 29.1 | 29.9 | 27.8 | 23.3 | 27.6 |
| 21 cigarettes or more ............................... | 4.3 | 7.0 | 4.7 | 4.0 | 3.5 | 2.7 | 4.9 |
| White |  |  |  |  |  |  |  |
| Smoker ................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less .................................. | 64.2 | 59.3 | 62.8 | 63.7 | 66.8 | 73.2 | 64.1 |
| 11-20 cigarettes ........................................ | 31.2 | 33.2 | 31.9 | 31.9 | 29.4 | 23.9 | 30.3 |
| 21 cigarettes or more ............................... | 4.6 | 7.5 | 5.3 | 4.4 | 3.8 | 2.9 | 5.6 |
| Black |  |  |  |  |  |  |  |
| Smoker ................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 10 cigarettes or less .................................. | 81.2 | 78.3 | 80.7 | 81.7 | 82.7 | 82.4 | 76.4 |
| 11-20 cigarettes | 16.7 | 18.6 | 16.9 | 16.4 | 15.7 | 16.3 | 20.4 |
| 21 cigarettes or more ................................. | 2.1 | 3.1 | 2.4 | 1.9 | 1.6 | * | 3.2 |

${ }^{*}$ Figure does not meet standards of reliability or precision.
Includes races other than white and black.
NOTES: Excludes data for California, Indiana, New York State (but includes New York City), and South Dakota, which did not require reporting of tobacco use during pregnancy.
Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

## Revised as of $3 / 24 / 03$

Table 32. Percent low birthweight by smoking status, age, and race and Hispanic origin of mother: Total of 46 reporting States, the District of Columbia, and New York City, 1996
[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 | $\begin{aligned} & 15-17 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-19 \\ & \text { years } \end{aligned}$ |  |  |  |  |  |
| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 7.6 | 13.5 | 9.7 | 10.4 | 9.2 | 7.7 | 6.7 | 7.0 | 8.4 | 9.8 |
| Smoker ....................................... | 12.1 | 16.7 | 11.2 | 11.6 | 10.9 | 10.4 | 11.6 | 13.6 | 17.0 | 19.2 |
| Nonsmoker ................................. | 6.9 | 13.2 | 9.3 | 10.2 | 8.7 | 7.1 | 6.0 | 6.2 | 7.2 | 8.7 |
| Not stated .................................. | 9.8 | * | 12.7 | 13.5 | 12.2 | 9.7 | 8.7 | 9.3 | 10.6 | 12.4 |
| White, total |  |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 6.5 | 11.1 | 8.2 | 8.9 | 7.8 | 6.5 | 5.8 | 6.1 | 7.2 | 8.5 |
| Smoker ...................................... | 10.7 | 16.4 | 10.6 | 11.0 | 10.5 | 9.7 | 10.2 | 11.4 | 14.3 | 16.5 |
| Nonsmoker ................................. | 5.7 | 10.3 | 7.4 | 8.2 | 6.9 | 5.7 | 5.1 | 5.4 | 6.3 | 7.6 |
| Not stated .................................. | 8.6 | * | 11.5 | 12.6 | 10.9 | 8.7 | 7.6 | 7.8 | 9.5 | 10.5 |
| White, non-Hispanic |  |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 6.4 | 11.7 | 8.2 | 8.8 | 7.9 | 6.5 | 5.8 | 6.0 | 7.1 | 8.3 |
| Smoker ...................................... | 10.6 | 16.7 | 10.6 | 11.1 | 10.4 | 9.6 | 10.1 | 11.2 | 14.2 | 16.4 |
| Nonsmoker ................................. | 5.6 | 10.2 | 7.2 | 7.8 | 6.8 | 5.5 | 5.0 | 5.3 | 6.1 | 7.4 |
| Not stated .................................. | 8.3 | * | 11.3 | 11.5 | 11.2 | 8.2 | 7.4 | 7.5 | 9.5 | 9.3 |
| Black, total |  |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 13.1 | 15.8 | 13.2 | 13.6 | 12.9 | 12.0 | 12.4 | 13.9 | 16.3 | 18.2 |
| Smoker ....................................... | 21.9 | 19.9 | 16.1 | 16.6 | 15.8 | 17.1 | 22.0 | 25.8 | 29.3 | 31.7 |
| Nonsmoker ................................. | 12.0 | 15.6 | 13.0 | 13.4 | 12.7 | 11.5 | 11.1 | 11.8 | 13.6 | 15.7 |
| Not stated .................................. | 16.3 | * | 16.6 | 16.3 | 16.9 | 14.2 | 16.1 | 17.5 | 18.7 | 21.7 |
| Black, non-Hispanic |  |  |  |  |  |  |  |  |  |  |
| Total .......................................... | 13.2 | 15.8 | 13.3 | 13.7 | 13.0 | 12.1 | 12.5 | 14.1 | 16.5 | 18.3 |
| Smoker ....................................... | 22.0 | 19.8 | 16.1 | 16.6 | 15.9 | 17.2 | 22.1 | 25.9 | 29.2 | 31.8 |
| Nonsmoker ................................. | 12.1 | 15.7 | 13.1 | 13.5 | 12.8 | 11.6 | 11.2 | 12.0 | 13.7 | 15.8 |
| Not stated .................................... | 16.4 | * | 16.9 | 16.4 | 17.3 | 14.2 | 16.2 | 17.3 | 19.2 | 22.4 |
| Hispanic ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Total ........................................... | 6.8 | 10.5 | 8.1 | 9.1 | 7.4 | 6.4 | 5.8 | 6.6 | 8.2 | 9.6 |
| Smoker | 12.4 | * | 10.7 | 10.7 | 10.7 | 11.1 | 12.5 | 14.3 | 17.0 | 18.3 |
| Nonsmoker ................................ | 6.5 | 10.4 | 7.9 | 8.9 | 7.2 | 6.1 | 5.5 | 6.3 | 7.7 | 9.0 |
| Not stated .................................... | 10.3 | * | 12.1 | 14.6 | 10.1 | 10.7 | 9.0 | 8.7 | 10.7 | * |

${ }^{*}$ Figure does not meet standards of reliability or precision.
Includes races other than white and black and origin not stated.
Persons of Hispanic origin may be of any race.
NOTE: Excludes data for California, Indiana, New York State (but includes New York City), and South Dakota, which did not require reporting of tobacco use during pregnancy.

Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race and Hispanic origin of mother: United States, 1996

| Age and race and Hispanic origin of mother | All births | Month of pregnancy prenatal care began |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st trimester |  |  | $\frac{2 d \text { trimester }}{\text { 4th-6th }} \begin{gathered} \text { months } \end{gathered}$ | Late or no care |  |  | Not stated | Percent |  |
|  |  | Total | 1 st and $2 d$ months | $3 d$ month |  | Total | 7th-9th months | No care |  | $\begin{gathered} 1 s t \\ \text { trimester } \end{gathered}$ | Late or no care |
| All races ${ }^{1}$....... | 3,891,494 | 3,102,972 | 2,351,222 | 751,750 | 536,402 | 151,302 | 106,759 | 44,543 | 100,818 | 81.9 | 4.0 |
| Under 15 years | 11,148 | 5,063 | 2,952 | 2,111 | 3,959 | 1,651 | 1,159 | 492 | 475 | 47.4 | 15.5 |
| 15-19 years .............. | 491,577 | 320,094 | 210,384 | 109,710 | 122,329 | 34,726 | 25,366 | 9,360 | 14,428 | 67.1 | 7.3 |
| 15 years ................. | 28,540 | 15,593 | 9,534 | 6,059 | 9,000 | 2,941 | 2,111 | 830 | 1,006 | 56.6 | 10.7 |
| 16 years ................. | 60,287 | 36,017 | 22,462 | 13,555 | 17,181 | 5,195 | 3,834 | 1,361 | 1,894 | 61.7 | 8.9 |
| 17 years ................. | 96,894 | 62,038 | 40,147 | 21,891 | 24,966 | 7,002 | 5,091 | 1,911 | 2,888 | 66.0 | 7.4 |
| 18 years ................ | 135,059 | 88,913 | 58,831 | 30,082 | 33,067 | 9,168 | 6,740 | 2,428 | 3,911 | 67.8 | 7.0 |
| 19 years | 170,797 | 117,533 | 79,410 | 38,123 | 38,115 | 10,420 | 7,590 | 2,830 | 4,729 | 70.8 | 6.3 |
| 20-24 years .............. | 945,210 | 704,976 | 508,087 | 196,889 | 168,042 | 46,825 | 33,888 | 12,937 | 25,367 | 76.6 | 5.1 |
| 25-29 years .............. | 1,071,287 | 895,028 | 697,509 | 197,519 | 117,865 | 32,810 | 22,934 | 9,876 | 25,584 | 85.6 | 3.1 |
| 30-34 years .............. | 897,913 | 776,044 | 616,943 | 159,101 | 78,142 | 21,887 | 14,695 | 7,192 | 21,840 | 88.6 | 2.5 |
| 35-39 years .............. | 399,510 | 340,757 | 268,447 | 72,310 | 37,345 | 10,712 | 6,945 | 3,767 | 10,696 | 87.6 | 2.8 |
| 40 years and over ..... | 74,849 | 61,010 | 46,900 | 14,110 | 8,720 | 2,691 | 1,772 | 919 | 2,428 | 84.2 | 3.7 |
| White, total ............... | 3,093,057 | 2,541,849 | 1,945,679 | 596,170 | 383,106 | 100,212 | 74,080 | 26,132 | 67,890 | 84.0 | 3.3 |
| Under 15 years .... | 5,526 | 2,759 | 1,645 | 1,114 | 1,776 | 781 | 550 | 231 | 210 | 51.9 | 14.7 |
| 15-19 years .............. | 344,685 | 233,463 | 154,153 | 79,310 | 80,636 | 21,926 | 16,520 | 5,406 | 8,660 | 69.5 | 6.5 |
| 15 years ............... | 16,978 | 9,930 | 6,144 | 3,786 | 4,954 | 1,609 | 1,173 | 436 | 485 | 60.2 | 9.8 |
| 16 years ................. | 39,401 | 24,697 | 15,547 | 9,150 | 10,450 | 3,159 | 2,411 | 748 | 1,095 | 64.5 | 8.2 |
| 17 years ................ | 66,997 | 44,644 | 29,008 | 15,636 | 16,240 | 4,432 | 3,338 | 1,094 | 1,681 | 68.4 | 6.8 |
| 18 years ................ | 96,246 | 65,541 | 43,504 | 22,037 | 22,407 | 5,874 | 4,435 | 1,439 | 2,424 | 69.9 | 6.3 |
| 19 years ................ | 125,063 | 88,651 | 59,950 | 28,701 | 26,585 | 6,852 | 5,163 | 1,689 | 2,975 | 72.6 | 5.6 |
| 20-24 years .............. | 726,669 | 556,825 | 403,456 | 153,369 | 121,045 | 31,891 | 24,010 | 7,881 | 16,908 | 78.5 | 4.5 |
| 25-29 years .............. | 878,449 | 751,034 | 590,273 | 160,761 | 87,583 | 22,293 | 16,485 | 5,808 | 17,539 | 87.2 | 2.6 |
| 30-34 years .............. | 747,436 | 659,551 | 528,368 | 131,183 | 58,144 | 14,378 | 10,305 | 4,073 | 15,363 | 90.1 | 2.0 |
| 35-39 years .............. | 329,782 | 287,702 | 228,513 | 59,189 | 27,526 | 7,078 | 4,924 | 2,154 | 7,476 | 89.3 | 2.2 |
| 40 years and over ..... | 60,510 | 50,515 | 39,271 | 11,244 | 6,396 | 1,865 | 1,286 | 579 | 1,734 | 85.9 | 3.2 |
| White, non-Hispanic | 2,358,989 | 2,024,891 | 1,581,949 | 442,942 | 238,182 | 54,570 | 40,713 | 13,857 | 41,346 | 87.4 | 2.4 |
| Under 15 years ......... | 2,532 | 1,311 | 780 | 531 | 790 | 346 | 245 | 101 | 85 | 53.6 | 14.1 |
| 15-19 years .............. | 225,197 | 160,600 | 107,408 | 53,192 | 48,736 | 11,382 | 8,758 | 2,624 | 4,479 | 72.8 | 5.2 |
| 15 years ................. | 9,071 | 5,515 | 3,446 | 2,069 | 2,581 | 782 | 576 | 206 | 193 | 62.1 | 8.8 |
| 16 years ................. | 23,312 | 15,245 | 9,726 | 5,519 | 5,921 | 1,596 | 1,249 | 347 | 550 | 67.0 | 7.0 |
| 17 years ................ | 42,686 | 29,873 | 19,570 | 10,303 | 9,662 | 2,308 | 1,769 | 539 | 843 | 71.4 | 5.5 |
| 18 years ................ | 64,290 | 46,071 | 30,912 | 15,159 | 13,917 | 3,046 | 2,365 | 681 | 1,256 | 73.1 | 4.8 |
| 19 years ................ | 85,838 | 63,896 | 43,754 | 20,142 | 16,655 | 3,650 | 2,799 | 851 | 1,637 | 75.9 | 4.3 |
| 20-24 years .............. | 508,056 | 409,354 | 303,034 | 106,320 | 72,862 | 16,496 | 12,651 | 3,845 | 9,344 | 82.1 | 3.3 |
| 25-29 years .............. | 683,376 | 606,950 | 486,359 | 120,591 | 53,708 | 11,991 | 8,899 | 3,092 | 10,727 | 90.2 | 1.8 |
| 30-34 years .............. | 616,224 | 558,562 | 453,332 | 105,230 | 38,619 | 8,699 | 6,237 | 2,462 | 10,344 | 92.2 | 1.4 |
| 35-39 years .............. | 274,431 | 245,657 | 197,534 | 48,123 | 19,088 | 4,464 | 3,110 | 1,354 | 5,222 | 91.3 | 1.7 |
| 40 years and over ..... | 49,173 | 42,457 | 33,502 | 8,955 | 4,379 | 1,192 | 813 | 379 | 1,145 | 88.4 | 2.5 |
| Black, total ................ | 594,781 | 406,278 | 291,968 | 114,310 | 120,726 | 41,737 | 25,249 | 16,488 | 26,040 | 71.4 | 7.3 |
| Under 15 years ......... | 5,193 | 2,130 | 1,211 | 919 | 2,014 | 803 | 563 | 240 | 246 | 43.1 | 16.2 |
| 15-19 years .............. | 130,596 | 77,179 | 50,432 | 26,747 | 36,965 | 11,232 | 7,614 | 3,618 | 5,220 | 61.6 | 9.0 |
| 15 years ................. | 10,498 | 5,175 | 3,109 | 2,066 | 3,667 | 1,181 | 822 | 359 | 475 | 51.6 | 11.8 |
| 16 years ................. | 18,753 | 10,170 | 6,272 | 3,898 | 6,048 | 1,810 | 1,248 | 562 | 725 | 56.4 | 10.0 |
| 17 years ................ | 26,775 | 15,605 | 10,040 | 5,565 | 7,784 | 2,283 | 1,527 | 756 | 1,103 | 60.8 | 8.9 |
| 18 years ................ | 34,394 | 20,807 | 13,745 | 7,062 | 9,390 | 2,879 | 1,977 | 902 | 1,318 | 62.9 | 8.7 |
| 19 years ................ | 40,176 | 25,422 | 17,266 | 8,156 | 10,076 | 3,079 | 2,040 | 1,039 | 1,599 | 65.9 | 8.0 |
| 20-24 years .............. | 179,361 | 121,246 | 86,166 | 35,080 | 38,510 | 12,474 | 7,919 | 4,555 | 7,131 | 70.4 | 7.2 |
| 25-29 years .............. | 133,204 | 97,566 | 72,818 | 24,748 | 21,534 | 8,079 | 4,523 | 3,556 | 6,025 | 76.7 | 6.4 |
| 30-34 years .............. | 94,295 | 70,374 | 53,320 | 17,054 | 13,541 | 5,752 | 2,960 | 2,792 | 4,628 | 78.5 | 6.4 |
| 35-39 years .............. | 43,716 | 31,867 | 23,767 | 8,100 | 6,726 | 2,808 | 1,375 | 1,433 | 2,315 | 77.0 | 6.8 |
| 40 years and over ..... | 8,416 | 5,916 | 4,254 | 1,662 | 1,436 | 589 | 295 | 294 | 475 | 74.5 | 7.4 |

See footnotes at end of table.

Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race and Hispanic origin of mother: United States, 1996 --Con.

| Age and race and Hispanic origin of mother | All births | Month of pregnancy prenatal care began |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st trimester |  |  | $2 d$ trimester | Late or no care |  |  | Not stated | Percent |  |
|  |  | Total | 1st and 2d months | 3d month | 4th-6th months | Total | 7th-9th months | No care |  | 1st trimester | Late or no care |
| Black, non-Hispanic | 578,099 | 395,966 | 284,902 | 111,064 | 117,412 | 40,605 | 24,350 | 16,255 | 24,116 | 71.5 | 7.3 |
| Under 15 years ......... | 5,084 | 2,087 | 1,188 | 899 | 1,969 | 792 | 554 | 238 | 236 | 43.0 | 16.3 |
| 15-19 years .............. | 127,616 | 75,601 | 49,437 | 26,164 | 36,129 | 10,992 | 7,419 | 3,573 | 4,894 | 61.6 | 9.0 |
| 15 years ................ | 10,301 | 5,096 | 3,064 | 2,032 | 3,598 | 1,152 | 797 | 355 | 455 | 51.8 | 11.7 |
| 16 years ................. | 18,367 | 9,982 | 6,156 | 3,826 | 5,918 | 1,774 | 1,217 | 557 | 693 | 56.5 | 10.0 |
| 17 years ................ | 26,134 | 15,269 | 9,828 | 5,441 | 7,599 | 2,233 | 1,488 | 745 | 1,033 | 60.8 | 8.9 |
| 18 years ................. | 33,616 | 20,370 | 13,475 | 6,895 | 9,183 | 2,825 | 1,929 | 896 | 1,238 | 62.9 | 8.7 |
| 19 years ................. | 39,198 | 24,884 | 16,914 | 7,970 | 9,831 | 3,008 | 1,988 | 1,020 | 1,475 | 66.0 | 8.0 |
| 20-24 years .............. | 174,958 | 118,524 | 84,338 | 34,186 | 37,591 | 12,163 | 7,662 | 4,501 | 6,680 | 70.4 | 7.2 |
| 25-29 years .............. | 129,002 | 94,855 | 70,918 | 23,937 | 20,816 | 7,821 | 4,317 | 3,504 | 5,510 | 76.8 | 6.3 |
| 30-34 years .............. | 91,050 | 68,253 | 51,809 | 16,444 | 13,036 | 5,548 | 2,806 | 2,742 | 4,213 | 78.6 | 6.4 |
| 35-39 years .............. | 42,279 | 30,920 | 23,080 | 7,840 | 6,490 | 2,721 | 1,310 | 1,411 | 2,148 | 77.0 | 6.8 |
| 40 years and over ..... | 8,110 | 5,726 | 4,132 | 1,594 | 1,381 | 568 | 282 | 286 | 435 | 74.6 | 7.4 |
| Hispanic 2 ................ | 701,339 | 490,207 | 341,814 | 148,393 | 143,590 | 45,154 | 33,263 | 11,891 | 22,388 | 72.2 | 6.7 |
| Under 15 years ......... | 3,056 | 1,475 | 881 | 594 | 1,020 | 439 | 310 | 129 | 122 | 50.3 | 15.0 |
| 15-19 years .............. | 118,878 | 72,376 | 46,401 | 25,975 | 32,015 | 10,543 | 7,774 | 2,769 | 3,944 | 63.0 | 9.2 |
| 15 years ................ | 7,971 | 4,455 | 2,725 | 1,730 | 2,403 | 834 | 603 | 231 | 279 | 57.9 | 10.8 |
| 16 years ................. | 16,139 | 9,468 | 5,848 | 3,620 | 4,591 | 1,562 | 1,164 | 398 | 518 | 60.6 | 10.0 |
| 17 years ................ | 24,234 | 14,666 | 9,353 | 5,313 | 6,635 | 2,131 | 1,580 | 551 | 802 | 62.6 | 9.1 |
| 18 years ................ | 31,711 | 19,308 | 12,469 | 6,839 | 8,482 | 2,819 | 2,069 | 750 | 1,102 | 63.1 | 9.2 |
| 19 years ................ | 38,823 | 24,479 | 16,006 | 8,473 | 9,904 | 3,197 | 2,358 | 839 | 1,243 | 65.1 | 8.5 |
| 20-24 years .............. | 214,173 | 144,210 | 97,962 | 46,248 | 47,848 | 15,281 | 11,340 | 3,941 | 6,834 | 69.6 | 7.4 |
| 25-29 years .............. | 185,478 | 136,130 | 97,328 | 38,802 | 33,468 | 10,166 | 7,541 | 2,625 | 5,714 | 75.7 | 5.7 |
| 30-34 years .............. | 119,690 | 91,200 | 66,825 | 24,375 | 19,114 | 5,576 | 4,053 | 1,523 | 3,800 | 78.7 | 4.8 |
| 35-39 years .............. | 49,812 | 37,531 | 27,295 | 10,236 | 8,187 | 2,509 | 1,781 | 728 | 1,585 | 77.8 | 5.2 |
| 40 years and over ..... | 10,252 | 7,285 | 5,122 | 2,163 | 1,938 | 640 | 464 | 176 | 389 | 73.9 | 6.5 |

1 Includes races other than white and black and origin not stated.
2 Persons of Hispanic origin may be of any race.

Table 34. Percent of mothers beginning prenatal care in the first trimester and percent of mothers with late or no prenatal care by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
[By place of residence]

| State | Percent beginning care in first trimester |  |  |  |  |  | Percent late ${ }^{1}$ or no care |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { races }{ }^{2} \end{gathered}$ | White |  | Black |  | Hispanic ${ }^{3}$ | $\begin{gathered} \text { All } \\ \text { races }^{2} \end{gathered}$ | White |  | Black |  | Hispanic ${ }^{3}$ |
|  |  | Total | NonHispanic | Total | NonHispanic |  |  | Total | NonHispanic | Total | NonHispanic |  |
| United States 4 ............ | 81.9 | 84.0 | 87.4 | 71.4 | 71.5 | 72.2 | 4.0 | 3.3 | 2.4 | 7.3 | 7.3 | 6.7 |
| Alabama ...................... | 81.6 | 87.8 | 88.3 | 68.8 | 68.8 | 62.1 | 3.8 | 2.3 | 2.1 | 6.9 | 6.9 | 11.0 |
| Alaska ......................... | 80.8 | 83.2 | 83.8 | 81.8 | 82.5 | 75.5 | 3.3 | 2.3 | 2.2 |  |  | 3.6 |
| Arizona ....................... | 73.7 | 74.8 | 83.5 | 69.6 | 69.7 | 62.5 | 7.4 | 7.0 | 3.7 | 9.2 | 9.2 | 11.7 |
| Arkansas ..................... | 74.8 | 78.7 | 79.8 | 61.0 | 61.1 | 56.9 | 6.8 | 5.1 | 4.7 | 12.7 | 12.7 | 13.8 |
| California | 80.6 | 80.4 | 87.1 | 78.8 | 78.8 | 75.5 | 3.8 | 3.9 | 2.4 | 4.3 | 4.3 | 4.9 |
| Colorado ...................... | 81.4 | 81.9 | 86.7 | 75.5 | 75.7 | 66.8 | 4.5 | 4.3 | 2.9 | 6.5 | 6.7 | 8.8 |
| Connecticut .................. | 88.2 | 89.7 | 91.8 | 77.1 | 77.7 | 77.1 | 2.3 | 1.9 | 1.4 | 5.1 | 4.9 | 4.9 |
| Delaware ..................... | 83.6 | 87.0 | 88.8 | 72.8 | 72.9 | 67.1 | 3.2 | 2.3 | 1.9 | 6.3 | 6.2 | 6.5 |
| District of Columbia ....... | 64.6 | 77.4 | 87.5 | 60.0 | 60.0 | 60.8 | 11.8 | 7.2 | 5.3 | 13.5 | 13.6 | 10.0 |
| Florida ......................... | 83.3 | 86.5 | 88.3 | 72.3 | 72.3 | 80.5 | 3.3 | 2.5 | 2.0 | 6.3 | 6.3 | 4.0 |
| Georgia ....................... | 85.2 | 89.0 | 90.5 | 78.0 | 78.0 | 73.3 | 3.2 | 2.2 | 1.8 | 5.0 | 5.0 | 7.0 |
| Hawaii ......................... | 84.2 | 89.3 | 89.6 | 86.4 | 87.0 | 83.6 | 3.5 | 1.9 | 1.8 | * | * | 3.0 |
| Idaho | 78.9 | 79.2 | 81.7 | 75.7 | 77.9 | 60.0 | 4.5 | 4.5 | 3.6 | * | * | 10.8 |
| Illinois | 81.5 | 84.7 | 88.6 | 68.8 | 68.7 | 71.4 | 4.2 | 3.0 | 2.1 | 8.8 | 8.8 | 6.2 |
| Indiana | 80.4 | 82.2 | 82.8 | 64.7 | 64.7 | 66.8 | 3.8 | 3.3 | 3.1 | 8.4 | 8.4 | 8.1 |
| lowa | 87.1 | 87.7 | 88.5 | 75.0 | 74.4 | 69.1 | 2.5 | 2.3 | 2.1 | 7.2 | 7.3 | 7.8 |
| Kansas | 85.5 | 86.4 | 88.8 | 76.4 | 76.3 | 64.7 | 2.6 | 2.4 | 1.7 | 5.0 | 5.0 | 8.5 |
| Kentucky ..................... | 84.7 | 85.8 | 85.9 | 74.3 | 74.3 | 75.5 | 2.9 | 2.6 | 2.6 | 5.6 | 5.6 | 7.5 |
| Louisiana ..................... | 81.1 | 88.7 | 88.9 | 70.4 | 70.3 | 81.9 | 4.2 | 1.9 | 1.8 | 7.5 | 7.5 | 4.0 |
| Maine .......................... | 89.9 | 90.1 | 90.4 | 85.5 | 85.9 | 78.9 | 1.7 | 1.7 | 1.6 | * | * |  |
| Maryland ...................... | 88.3 | 92.4 | 93.2 | 78.5 | 78.5 | 81.0 | 2.7 | 1.6 | 1.4 | 5.3 | 5.3 | 4.2 |
| Massachusetts ............. | 83.7 | 85.6 | 87.1 | 70.6 | 70.6 | 70.2 | 3.0 | 2.4 | 2.0 | 7.2 | 7.2 | 6.4 |
| Michigan | 84.2 | 87.0 | 88.1 | 71.5 | 71.5 | 73.1 | 3.0 | 2.3 | 2.1 | 6.2 | 6.2 | 5.5 |
| Minnesota | 83.5 | 86.0 | 86.7 | 64.5 | 64.4 | 59.8 | 3.4 | 2.7 | 2.4 | 10.0 | 10.0 | 10.0 |
| Mississippi ................... | 78.6 | 88.0 | 88.1 | 68.0 | 68.0 | 80.2 | 4.2 | 2.1 | 2.0 | 6.6 | 6.6 |  |
| Missouri ...................... | 85.5 | 87.9 | 88.2 | 72.2 | 72.2 | 77.9 | 2.9 | 2.1 | 2.1 | 7.0 | 7.0 | 4.0 |
| Montana | 82.7 | 84.4 | 84.7 | 81.6 | 77.4 | 73.9 | 3.2 | 2.5 | 2.4 | * |  |  |
| Nebraska ..................... | 84.5 | 85.4 | 87.3 | 73.2 | 73.1 | 66.6 | 2.6 | 2.3 | 1.9 | 5.9 | 6.0 | 6.7 |
| Nevada ....................... | 77.6 | 78.5 | 84.2 | 67.4 | 67.3 | 65.7 | 6.0 | 5.8 | 3.4 | 8.9 | 8.9 | 11.2 |
| New Hampshire ............ | 89.1 | 89.3 | 89.6 | 76.4 | 74.2 | 75.5 | 1.5 | 1.5 | 1.4 | * | * |  |
| New Jersey ................... | 81.8 | 85.5 | 89.4 | 65.5 | 65.5 | 70.9 | 4.6 | 3.0 | 2.2 | 11.6 | 11.8 | 6.3 |
| New Mexico .................. | 69.7 | 71.9 | 78.9 | 60.9 | 61.9 | 66.4 | 8.0 | 7.5 | 4.3 | 7.4 | 7.7 | 9.9 |
| New York . | 79.1 | 82.6 | 87.0 | 68.4 | 68.5 | 68.4 | 5.4 | 4.2 | 2.9 | 9.3 | 9.3 | 8.3 |
| North Carolina .............. | 83.5 | 88.1 | 89.6 | 71.8 | 71.8 | 67.8 | 3.3 | 2.1 | 1.7 | 6.7 | 6.7 | 7.4 |
| North Dakota ................ | 84.7 | 86.3 | 86.6 | 78.7 | 77.9 | 71.5 | 2.0 | 1.4 | 1.3 | * | * | * |
| Ohio | 85.4 | 87.6 | 87.9 | 72.5 | 72.5 | 76.4 | 3.4 | 2.7 | 2.6 | 8.1 | 8.1 | 5.6 |
| Oklahoma .................... | 78.7 | 81.1 | 81.8 | 67.1 | 67.0 | 70.1 | 4.6 | 3.8 | 3.6 | 8.6 | 8.6 | 7.3 |
| Oregon ....................... | 79.9 | 80.3 | 82.6 | 76.6 | 76.3 | 65.6 | 3.9 | 3.8 | 3.1 | 5.7 | 5.9 | 7.8 |
| Pennsylvania ................ | 84.2 | 87.1 | 88.0 | 67.1 | 67.2 | 70.6 | 3.6 | 2.5 | 2.3 | 10.6 | 10.6 | 6.6 |
| Rhode Island ................ | 89.6 | 90.8 | 91.8 | 78.6 | 80.6 | 84.1 | 1.5 | 1.2 | 0.9 | 4.4 | 4.0 | 2.4 |
| South Carolina .............. | 79.4 | 86.2 | 86.9 | 67.1 | 67.2 | 63.9 | 4.7 | 2.8 | 2.6 | 8.1 | 8.1 | 10.3 |
| South Dakota ................ | 81.7 | 85.5 | 85.7 | 63.9 | 65.0 | 71.3 | 3.5 | 2.0 | 2.0 | * | * | * |
| Tennessee ................... | 83.3 | 86.7 | 87.2 | 71.5 | 71.5 | 65.5 | 3.7 | 2.4 | 2.2 | 8.3 | 8.2 | 11.7 |
| Texas .......................... | 78.1 | 78.4 | 86.6 | 74.0 | 74.0 | 70.2 | 5.4 | 5.4 | 2.5 | 6.1 | 6.1 | 8.2 |
| Utah ............................ | 83.8 | 84.7 | 86.8 | 64.5 | 68.4 | 64.9 | 3.3 | 3.0 | 2.4 | 7.2 | * | 8.5 |
| Vermont ....................... | 87.4 | 87.5 | 87.6 |  | * | 89.5 | 2.0 | 2.0 | 2.0 | * | * | * |
| Virginia ....................... | 84.5 | 88.4 | 89.7 | 72.1 | 72.1 | 72.6 | 3.3 | 2.2 | 1.9 | 6.8 | 6.8 | 5.5 |
| Washington .................. | 83.2 | 84.1 | 86.1 | 76.7 | 76.7 | 70.7 | 3.6 | 3.2 | 2.6 | 7.1 | 7.1 | 6.4 |
| West Virginia ................ | 81.9 | 82.5 | 82.6 | 65.9 | 66.0 | 73.7 | 2.7 | 2.5 | 2.5 | 6.2 | 6.2 | * |
| Wisconsin .................... | 84.1 | 87.0 | 88.0 | 66.2 | 66.2 | 69.5 | 3.3 | 2.4 | 2.1 | 9.3 | 9.3 | 7.1 |
| Wyoming ..................... | 81.9 | 82.5 | 83.8 | 64.6 | 63.8 | 69.3 | 3.7 | 3.5 | 3.2 | * | * | 6.3 |
| Puerto Rico ................... | 77.3 | 78.3 | --- | 66.2 | --- | --- | 3.5 | 3.2 | --- | 6.9 | --- | --- |
| Virgin Islands ............... | 55.4 | 60.1 | 76.3 | 54.5 | 54.3 | 52.6 | 11.6 | 8.6 | * | 12.2 | 11.6 | 14.8 |
| Guam .......................... | 66.7 | 79.8 | 80.1 | 80.5 | 78.4 | 78.0 | 11.0 | * | * | * |  |  |

[^30]Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 1996

| Number of prenatal visits and race and Hispanic origin of mother | All births | Month of pregnancy prenatal care began |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st trimester |  |  | $\frac{2 d \text { trimester }}{\begin{array}{l} \text { 4th-6th } \\ \text { months } \end{array}}$ | Late or no care |  |  | Not stated |
|  |  | Total | 1st and 2d months | $3 d$ month |  | Total | 7th-9th months | No care |  |
| All races ${ }^{1}$ | 3,891,494 | 3,102,972 | 2,351,222 | 751,750 | 536,402 | 151,302 | 106,759 | 44,543 | 100,818 |
| No visits | 44,543 |  |  |  |  | 44,543 |  | 44,543 |  |
| 1-2 visits | 40,612 | 9,316 | 5,851 | 3,465 | 10,075 | 19,212 | 19,212 | ,5 | 2,009 |
| $3-4$ visits | 82,777 | 22,643 | 12,623 | 10,020 | 31,014 | 26,974 | 26,974 | ... | 2,146 |
| $5-6$ visits .. | 179,054 | 74,312 | 42,443 | 31,869 | 75,329 | 26,241 | 26,241 | ... | 3,172 |
| 7-8 visits | 333,522 | 200,056 | 121,706 | 78,350 | 113,534 | 15,756 | 15,756 |  | 4,176 |
| $9-10$ visits | 739,021 | 572,955 | 377,478 | 195,477 | 149,518 | 8,505 | 8,505 |  | 8,043 |
| 11-12 visits | 1,003,513 | 910,282 | 691,333 | 218,949 | 84,448 | 3,493 | 3,493 |  | 5,290 |
| $13-14$ visits | 646,478 | 610,592 | 503,996 | 106,596 | 31,548 | 1,455 | 1,455 |  | 2,883 |
| 15-16 visits | 447,611 | 424,414 | 361,133 | 63,281 | 20,089 | 1,066 | 1,066 |  | 2,042 |
| 17-18 visits | 96,300 | 91,825 | 77,897 | 13,928 | 3,776 | 224 | 224 | ... | 475 |
| 19 visits or more ............................ | 140,751 | 132,733 | 115,228 | 17,505 | 6,703 | 416 | 416 | ... | 899 |
| Not stated | 137,312 | 53,844 | 41,534 | 12,310 | 10,368 | 3,417 | 3,417 | ... | 69,683 |
| Median number of visits | 12.3 | 12.6 | 12.8 | 11.6 | 9.6 | 5.4 | 5.4 | $\ldots$ | 10.3 |
| White, total | 3,093,057 | 2,541,849 | 1,945,679 | 596,170 | 383,106 | 100,212 | 74,080 | 26,132 | 67,890 |
| No visits | 26,132 |  |  |  |  | 26,132 |  | 26,132 |  |
| 1-2 visits | 25,046 | 5,890 | 3,811 | 2,079 | 5,627 | 12,443 | 12,443 | ... | 1,086 |
| $3-4$ visits ...................................... | 53,746 | 14,636 | 8,245 | 6,391 | 19,451 | 18,324 | 18,324 |  | 1,335 |
| $5-6$ visits ..................................... | 124,070 | 53,041 | 30,410 | 22,631 | 50,724 | 18,230 | 18,230 |  | 2,075 |
| 7-8 visits | 251,957 | 156,404 | 96,429 | 59,975 | 81,241 | 11,308 | 11,308 | ... | 3,004 |
| $9-10$ visits | 582,216 | 461,281 | 307,245 | 154,036 | 108,959 | 6,181 | 6,181 | $\ldots$ | 5,795 |
| 11-12 visits | 828,162 | 757,920 | 579,782 | 178,138 | 63,432 | 2,686 | 2,686 | ... | 4,124 |
| $13-14$ visits ................................... | 542,993 | 515,339 | 427,043 | 88,296 | 24,153 | 1,190 | 1,190 | ... | 2,311 |
| 15-16 visits ................................... | 367,154 | 349,674 | 298,981 | 50,693 | 15,052 | 837 | 837 | ... | 1,591 |
| 17-18 visits ................................... | 80,331 | 76,898 | 65,542 | 11,356 | 2,872 | 189 | 189 | ... | 372 |
| 19 visits or more ............................ | 115,612 | 109,833 | 96,172 | 13,661 | 4,767 | 315 | 315 | ... | 697 |
| Not stated ..................................... | 95,638 | 40,933 | 32,019 | 8,914 | 6,828 | 2,377 | 2,377 | ... | 45,500 |
| Median number of visits | 12.4 | 12.6 | 12.8 | 11.8 | 9.8 | 5.5 | 5.5 | ... | 10.5 |
| White, non-Hispanic ......................... | 2,358,989 | 2,024,891 | 1,581,949 | 442,942 | 238,182 | 54,570 | 40,713 | 13,857 | 41,346 |
| No visits | 13,857 |  |  |  |  | 13,857 |  | 13,857 |  |
| 1-2 visits ...................................... | 13,298 | 3,159 | 2,115 | 1,044 | 2,981 | 6,517 | 6,517 | ... | 641 |
| 3-4 visits | 29,161 | 8,550 | 5,013 | 3,537 | 10,458 | 9,392 | 9,392 | $\ldots$ | 761 |
| 5-6 visits | 74,868 | 34,923 | 20,819 | 14,104 | 28,989 | 9,739 | 9,739 | . | 1,217 |
| 7-8 visits | 170,878 | 113,698 | 72,195 | 41,503 | 48,858 | 6,579 | 6,579 | ... | 1,743 |
| $9-10$ visits | 423,727 | 348,934 | 239,305 | 109,629 | 67,321 | 3,697 | 3,697 |  | 3,775 |
| 11-12 visits | 667,279 | 618,716 | 480,076 | 138,640 | 43,787 | 1,764 | 1,764 | ... | 3,012 |
| $13-14$ visits | 451,381 | 431,364 | 359,454 | 71,910 | 17,378 | 823 | 823 | ... | 1,816 |
| 15-16 visits ................................... | 294,870 | 283,410 | 245,557 | 37,853 | 9,683 | 561 | 561 | ... | 1,216 |
| 17-18 visits .................................. | 66,200 | 63,701 | 54,795 | 8,906 | 2,086 | 126 | 126 | ... | 287 |
| 19 visits or more | 94,934 | 90,905 | 80,315 | 10,590 | 3,282 | 223 | 223 | ... | 524 |
| Not stated ..................................... | 58,536 | 27,531 | 22,305 | 5,226 | 3,359 | 1,292 | 1,292 | ... | 26,354 |
| Median number of visits .................. | 12.5 | 12.7 | 12.9 | 12.0 | 10.0 | 5.8 | 5.8 | $\ldots$ | 10.7 |
| Black, total .......................................... | 594,781 | 406,278 | 291,968 | 114,310 | 120,726 | 41,737 | 25,249 | 16,488 | 26,040 |
| No visits ........................................ | 16,488 |  |  |  |  | 16,488 |  | 16,488 |  |
| 1-2 visits ...................................... | 12,959 | 2,904 | 1,725 | 1,179 | 3,837 | 5,417 | 5,417 | ... | 801 |
| $3-4$ visits ...................................... | 23,470 | 6,611 | 3,621 | 2,990 | 9,477 | 6,729 | 6,729 | ... | 653 |
| $5-6$ visits ...................................... | 42,585 | 16,382 | 9,450 | 6,932 | 19,182 | 6,161 | 6,161 | ... | 860 |
| $7-8$ visits ...................................... | 60,158 | 31,194 | 18,212 | 12,982 | 24,742 | 3,314 | 3,314 | ... | 908 |
| $9-10$ visits .................................... | 115,739 | 80,316 | 50,347 | 29,969 | 31,950 | 1,786 | 1,786 | ... | 1,687 |
| 11-12 visits ................................... | 123,760 | 106,044 | 76,766 | 29,278 | 16,278 | 598 | 598 | ... | 840 |
| $13-14$ visits .................................. | 73,964 | 67,627 | 54,212 | 13,415 | 5,746 | 181 | 181 | .. | 410 |
| 15-16 visits ................................... | 60,287 | 55,629 | 45,988 | 9,641 | 4,155 | 167 | 167 | $\ldots$ | 336 |
| 17-18 visits ................................... | 11,970 | 11,163 | 9,175 | 1,988 | 703 | 23 | 23 | ... | 81 |
| 19 visits or more ............................ | 20,057 | 18,136 | 14,973 | 3,163 | 1,691 | 72 | 72 | ... | 158 |
| Not stated ..................................... | 33,344 | 10,272 | 7,499 | 2,773 | 2,965 | 801 | 801 | ... | 19,306 |
| Median number of visits .................. | 11.5 | 12.4 | 12.7 | 11.2 | 9.2 | 5.0 | 5.0 | $\ldots$ | 9.4 |

Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 1996 --Con.

| Number of prenatal visits and race and Hispanic origin of mother | All births | Month of pregnancy prenatal care began |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st trimester |  |  | $\frac{2 d \text { trimester }}{\begin{array}{c} \text { 4th-6th } \\ \text { months } \end{array}}$ | Late or no care |  |  | Not stated |
|  |  | Total | 1 st and 2d months | $3 d$ month |  | Total | 7th-9th months | No care |  |
| Black, non-Hispanic ........................... | 578,099 | 395,966 | 284,902 | 111,064 | 117,412 | 40,605 | 24,350 | 16,255 | 24,116 |
| No visits | 16,255 |  |  |  |  | 16,255 |  | 16,255 |  |
| 1-2 visits | 12,620 | 2,840 | 1,681 | 1,159 | 3,756 | 5,260 | 5,260 | ... | 764 |
| $3-4$ visits | 22,830 | 6,471 | 3,546 | 2,925 | 9,237 | 6,508 | 6,508 | ... | 614 |
| 5-6 visits | 41,307 | 15,911 | 9,183 | 6,728 | 18,675 | 5,926 | 5,926 | ... | 795 |
| 7-8 visits ..................................... | 58,258 | 30,260 | 17,725 | 12,535 | 23,986 | 3,175 | 3,175 | ... | 837 |
| 9-10 visits .................................... | 112,085 | 77,745 | 48,714 | 29,031 | 31,067 | 1,719 | 1,719 | ... | 1,554 |
| 11-12 visits | 120,665 | 103,482 | 74,986 | 28,496 | 15,848 | 571 | 571 | ... | 764 |
| 13-14 visits | 72,206 | 66,090 | 53,045 | 13,045 | 5,562 | 172 | 172 | ... | 382 |
| 15-16 visits | 59,033 | 54,499 | 45,082 | 9,417 | 4,070 | 162 | 162 | ... | 302 |
| 17-18 visits | 11,676 | 10,895 | 8,952 | 1,943 | 686 | 22 | 22 | ... | 73 |
| 19 visits or more | 19,682 | 17,818 | 14,715 | 3,103 | 1,650 | 67 | 67 | ... | 147 |
| Not stated ..................................... | 31,482 | 9,955 | 7,273 | 2,682 | 2,875 | 768 | 768 | ... | 17,884 |
| Median number of visits .................. | 11.5 | 12.4 | 12.7 | 11.2 | 9.2 | 5.0 | 5.0 | ... | 9.3 |
| Hispanic ${ }^{2}$.............................................. | 701,339 | 490,207 | 341,814 | 148,393 | 143,590 | 45,154 | 33,263 | 11,891 | 22,388 |
| No visits | 11,891 |  |  |  |  | 11,891 |  | 11,891 |  |
| 1-2 visits ...................................... | 11,676 | 2,673 | 1,653 | 1,020 | 2,637 | 5,927 | 5,927 | ... | 439 |
| 3-4 visits ....................................... | 24,554 | 6,052 | 3,217 | 2,835 | 8,997 | 8,946 | 8,946 | ... | 559 |
| $5-6$ visits | 48,577 | 17,585 | 9,258 | 8,327 | 21,663 | 8,498 | 8,498 | ... | 831 |
| 7-8 visits | 78,393 | 40,242 | 22,404 | 17,838 | 32,191 | 4,762 | 4,762 | ... | 1,198 |
| $9-10$ visits | 152,829 | 107,235 | 64,044 | 43,191 | 41,266 | 2,452 | 2,452 | ... | 1,876 |
| 11-12 visits | 151,662 | 130,616 | 92,619 | 37,997 | 19,217 | 887 | 887 | ... | 942 |
| 13-14 visits | 86,806 | 79,336 | 63,629 | 15,707 | 6,704 | 345 | 345 | ... | 421 |
| 15-16 visits | 69,449 | 63,542 | 50,979 | 12,563 | 5,309 | 268 | 268 | ... | 330 |
| 17-18 visits ................................... | 13,413 | 12,518 | 10,138 | 2,380 | 767 | 53 | 53 | ... | 75 |
| 19 visits or more ............................. | 19,728 | 18,022 | 15,021 | 3,001 | 1,464 | 89 | 89 | ... | 153 |
| Not stated ..................................... | 32,361 | 12,386 | 8,852 | 3,534 | 3,375 | 1,036 | 1,036 | ... | 15,564 |
| Median number of visits .................. | 11.3 | 12.3 | 12.6 | 11.0 | 9.3 | 5.3 | 5.3 | ... | 9.6 |

[^31]Table 36. Live births to mothers with selected obstetric procedures and rates by age of mother, by race of mother: United States, 1996
[Rates are number of live births with specified procedure per 1,000 live births in specified group]

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


| All races ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Amniocentesis | 3,891,494 | 124,711 | 32.3 | 9.1 | 10.6 | 14.8 | 27.6 | 140.6 | 192.4 | 32,311 |
| Electronic fetal monitoring ............................ | 3,891,494 | 3,184,945 | 825.3 | 833.8 | 828.0 | 827.2 | 823.5 | 812.7 | 794.9 | 32,311 |
| Induction of labor ......................................... | 3,891,494 | 653,877 | 169.4 | 151.0 | 164.9 | 176.8 | 175.0 | 170.3 | 174.4 | 32,311 |
| Stimulation of labor ..................................... | 3,891,494 | 652,196 | 169.0 | 177.0 | 172.2 | 171.6 | 165.9 | 155.6 | 146.2 | 32,311 |
| Tocolysis | 3,891,494 | 83,662 | 21.7 | 24.0 | 22.1 | 21.4 | 20.8 | 20.4 | 22.0 | 32,311 |
| Ultrasound 2 | 3,881,339 | 2,457,576 | 638.7 | 618.2 | 630.3 | 644.6 | 649.0 | 645.5 | 635.8 | 33,366 |
| White |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 3,093,057 | 106,391 | 34.7 | 9.3 | 10.8 | 15.1 | 28.7 | 148.8 | 205.5 | 26,456 |
| Electronic fetal monitoring | 3,093,057 | 2,540,938 | 828.6 | 836.7 | 830.1 | 831.0 | 828.1 | 816.8 | 798.2 | 26,456 |
| Induction of labor | 3,093,057 | 554,925 | 181.0 | 165.0 | 177.3 | 187.5 | 184.8 | 179.1 | 183.8 | 26,456 |
| Stimulation of labor | 3,093,057 | 529,023 | 172.5 | 183.7 | 176.7 | 174.9 | 168.4 | 158.7 | 149.1 | 26,456 |
| Tocolysis | 3,093,057 | 66,723 | 21.8 | 24.7 | 22.4 | 21.4 | 20.7 | 20.4 | 22.1 | 26,456 |
| Ultrasound ${ }^{2}$ | 3,085,504 | 1,992,208 | 651.5 | 635.0 | 642.8 | 656.2 | 660.2 | 656.5 | 646.9 | 27,451 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Amniocentesis | 594,781 | 10,722 | 18.2 | 8.3 | 9.8 | 13.0 | 20.2 | 76.8 | 109.4 | 4,095 |
| Electronic fetal monitoring | 594,781 | 487,391 | 825.1 | 833.0 | 830.4 | 823.0 | 815.7 | 808.6 | 810.7 | 4,095 |
| Induction of labor ......................................... | 594,781 | 73,716 | 124.8 | 117.6 | 122.9 | 128.2 | 129.0 | 131.8 | 144.5 | 4,095 |
| Stimulation of labor ...................................... | 594,781 | 91,358 | 154.7 | 162.1 | 158.4 | 152.8 | 149.0 | 138.3 | 133.3 | 4,095 |
| Tocolysis | 594,781 | 12,430 | 21.0 | 21.4 | 20.9 | 21.0 | 21.3 | 19.8 | 20.5 | 4,095 |
| Ultrasound 2 | 592,410 | 344,461 | 585.6 | 578.3 | 587.2 | 589.4 | 587.4 | 584.9 | 589.4 | 4,146 |

[^32]Delaware does not report this procedure.
NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 37. Live births to mothers with selected complications of labor and/or delivery and rates by age of mother, by race of mother: United States, 1996
[Rates are number of live births with specified complication per 1,000 live births in specified group]

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


| All races ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Febrile | 3,891,494 | 61,850 | 16.1 | 19.2 | 16.6 | 16.4 | 14.9 | 13.2 | 12.6 | 42,175 |
| Meconium, moderate/heavy | 3,891,494 | 223,536 | 58.1 | 63.1 | 58.0 | 56.0 | 56.6 | 59.8 | 64.6 | 42,175 |
| Premature rupture of membrane .................... | 3,891,494 | 113,112 | 29.4 | 28.6 | 27.8 | 29.1 | 30.0 | 32.4 | 36.1 | 42,175 |
| Abruptio placenta ....................................... | 3,891,494 | 22,062 | 5.7 | 5.4 | 5.3 | 5.4 | 5.9 | 7.0 | 8.7 | 42,175 |
| Placenta previa | 3,891,494 | 12,915 | 3.4 | 1.2 | 1.9 | 3.1 | 4.6 | 6.4 | 8.9 | 42,175 |
| Other excessive bleeding ${ }^{3}$ | 3,777,188 | 21,142 | 5.7 | 5.7 | 5.7 | 5.4 | 5.5 | 6.2 | 7.4 | 42,892 |
| Seizures during labor .................................. | 3,891,494 | 1,617 | 0.4 | 0.8 | 0.4 | 0.3 | 0.3 | 0.4 | 0.6 | 42,175 |
| Precipitous labor ......................................... | 3,891,494 | 77,614 | 20.2 | 14.2 | 18.6 | 19.9 | 23.1 | 24.8 | 24.1 | 42,175 |
| Prolonged labor .......................................... | 3,891,494 | 34,445 | 8.9 | 9.4 | 8.8 | 9.0 | 8.7 | 8.7 | 9.7 | 42,175 |
| Dysfunctional labor | 3,891,494 | 105,749 | 27.5 | 25.7 | 26.1 | 28.3 | 28.2 | 28.3 | 32.2 | 42,175 |
| Breech/Malpresentation | 3,891,494 | 146,431 | 38.0 | 29.4 | 32.1 | 38.3 | 43.0 | 47.8 | 56.5 | 42,175 |
| Cephalopelvic disproportion .......................... | 3,891,494 | 90,105 | 23.4 | 21.6 | 21.7 | 24.6 | 24.7 | 23.5 | 23.9 | 42,175 |
| Cord prolapse ............................................ | 3,891,494 | 8,244 | 2.1 | 1.7 | 1.9 | 2.1 | 2.3 | 2.8 | 3.3 | 42,175 |
| Anesthetic complication ${ }^{4}$............................. | 3,561,088 | 2,214 | 0.6 | 0.4 | 0.5 | 0.7 | 0.7 | 0.8 | 1.0 | 44,789 |
| Fetal distress ${ }^{4}$........................................... | 3,561,088 | 147,814 | 42.0 | 45.7 | 41.3 | 40.3 | 40.9 | 44.4 | 52.6 | 44,789 |
| White |  |  |  |  |  |  |  |  |  |  |
| Febrile | 3,093,057 | 46,821 | 15.3 | 18.0 | 16.1 | 15.9 | 14.1 | 12.4 | 12.1 | 34,689 |
| Meconium, moderate/heavy | 3,093,057 | 163,798 | 53.6 | 56.7 | 53.2 | 52.0 | 52.7 | 55.7 | 60.4 | 34,689 |
| Premature rupture of membrane .................... | 3,093,057 | 86,973 | 28.4 | 27.1 | 26.7 | 28.3 | 29.1 | 31.4 | 35.2 | 34,689 |
| Abruptio placenta ........................................ | 3,093,057 | 16,990 | 5.6 | 5.3 | 5.2 | 5.2 | 5.8 | 6.7 | 8.2 | 34,689 |
| Placenta previa .. | 3,093,057 | 10,093 | 3.3 | 1.1 | 1.9 | 3.0 | 4.4 | 6.1 | 8.5 | 34,689 |
| Other excessive bleeding ${ }^{3}$ | 3,006,671 | 16,630 | 5.6 | 5.8 | 5.7 | 5.4 | 5.4 | 6.0 | 6.8 | 35,415 |
| Seizures during labor .................................. | 3,093,057 | 994 | 0.3 | 0.7 | 0.4 | 0.3 | 0.2 | 0.3 | 0.4 | 34,689 |
| Precipitous labor | 3,093,057 | 60,183 | 19.7 | 13.0 | 17.5 | 19.2 | 22.8 | 24.9 | 23.8 | 34,689 |
| Prolonged labor | 3,093,057 | 27,958 | 9.1 | 9.9 | 9.3 | 9.2 | 8.8 | 8.8 | 10.0 | 34,689 |
| Dysfunctional labor | 3,093,057 | 85,113 | 27.8 | 25.9 | 26.7 | 28.7 | 28.3 | 28.2 | 32.4 | 34,689 |
| Breech/Malpresentation | 3,093,057 | 121,992 | 39.9 | 31.9 | 33.9 | 39.7 | 44.4 | 48.6 | 57.0 | 34,689 |
| Cephalopelvic disproportion .......................... | 3,093,057 | 73,728 | 24.1 | 22.1 | 22.8 | 25.4 | 24.9 | 23.7 | 24.7 | 34,689 |
| Cord prolapse | 3,093,057 | 6,524 | 2.1 | 1.7 | 1.9 | 2.0 | 2.3 | 2.8 | 3.3 | 34,689 |
| Anesthetic complication ${ }^{4}$ | 2,811,247 | 1,805 | 0.7 | 0.4 | 0.5 | 0.7 | 0.8 | 0.8 | 1.0 | 36,831 |
| Fetal distress ${ }^{4}$........................................... | 2,811,247 | 111,299 | 40.1 | 43.7 | 39.5 | 38.6 | 39.1 | 42.2 | 50.3 | 36,831 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Febrile | 594,781 | 10,544 | 17.9 | 21.8 | 17.8 | 16.7 | 16.1 | 15.0 | 11.4 | 5,265 |
| Meconium, moderate/heavy | 594,781 | 48,020 | 81.5 | 79.7 | 77.2 | 81.3 | 86.6 | 91.2 | 93.6 | 5,265 |
| Premature rupture of membrane .................... | 594,781 | 19,710 | 33.4 | 31.5 | 31.1 | 33.6 | 36.5 | 40.5 | 41.9 | 5,265 |
| Abruptio placenta | 594,781 | 4,045 | 6.9 | 5.9 | 6.1 | 7.0 | 7.9 | 9.7 | 10.9 | 5,265 |
| Placenta previa ... | 594,781 | 1,904 | 3.2 | 1.3 | 2.2 | 3.3 | 5.3 | 7.7 | 8.5 | 5,265 |
| Other excessive bleeding ${ }^{3}$........................... | 574,264 | 2,668 | 4.7 | 4.4 | 4.7 | 4.2 | 5.2 | 5.4 | 7.1 | 5,228 |
| Seizures during labor ................................... | 594,781 | 323 | 0.5 | 0.9 | 0.5 | 0.5 | 0.3 | * |  | 5,265 |
| Precipitous labor ......................................... | 594,781 | 12,663 | 21.5 | 16.1 | 21.3 | 23.1 | 25.8 | 24.1 | 24.5 | 5,265 |
| Prolonged labor | 594,781 | 4,051 | 6.9 | 7.6 | 6.5 | 6.9 | 6.7 | 6.7 | 5.9 | 5,265 |
| Dysfunctional labor | 594,781 | 15,076 | 25.6 | 24.9 | 23.4 | 26.5 | 27.7 | 27.9 | 33.4 | 5,265 |
| Breech/Malpresentation | 594,781 | 17,526 | 29.7 | 22.7 | 25.5 | 31.5 | 36.4 | 44.3 | 55.6 | 5,265 |
| Cephalopelvic disproportion .......................... | 594,781 | 11,344 | 19.2 | 20.7 | 17.7 | 19.3 | 21.1 | 17.6 | 14.0 | 5,265 |
| Cord prolapse | 594,781 | 1,351 | 2.3 | 1.9 | 2.0 | 2.4 | 2.9 | 3.2 | 2.9 | 5,265 |
| Anesthetic complication 4 | 555,925 | 306 | 0.6 | 0.4 | 0.5 | 0.6 | 0.7 | 0.7 | * | 5,675 |
| Fetal distress ${ }^{4}$........................................... | 555,925 | 29,961 | 54.4 | 52.0 | 50.6 | 54.1 | 58.5 | 65.1 | 78.7 | 5,675 |

[^33]Table 38. Live births by attendant, place of delivery, and race and Hispanic origin of mother: United States, 1996

|  |  | Physician |  |  | Midwife |  |  | Other | Unspecified |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Place of delivery and race and Hispanic origin of mother | All births | Total | Doctor of medicine | Doctor of osteopathy | Total | Certified nurse midwife | Other midwife |  |  |


| All races ${ }^{1}$ |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |


| White, non-Hispanic |
| :---: |
| Total ........................... |
| In hospital ${ }^{2}$ |
| Not in hospital .... |
| Freestanding birthing center |
| Clinic or doctor's office ....... |
| Residence ................... |
| Other ...... |
| Not specified ................... |
| Black, total |



| 594,781 | 548,597 |
| ---: | ---: |
| 590,877 | 547,226 |
| 3,832 | 1,340 |
| 356 | 36 |
| 45 | 34 |
| 2,773 | 965 |
| 658 | 305 |
| 72 | 31 |

533,468
532,136
1,302
35
33
944
290
30
15,129
15,090
38
1
1
21
15
1

| 41,739 | 40,928 | 811 | 3,970 | 475 |
| ---: | ---: | ---: | ---: | ---: |
| 41,192 | 40,514 | 678 | 2,291 | 168 |
| 543 | 410 | 133 | 1,668 | 281 |
| 309 | 253 | 56 | 11 | - |
| 6 | 5 | 1 | 5 | - |
| 207 | 136 | 71 | 1,400 | 201 |
| 21 | 16 | 5 | 252 | 80 |
| 4 | 4 | - | 11 | 26 |


| Black, non-Hispanic |
| :---: |
| Total |
| In hospital ${ }^{2}$ |
| Not in hospital |
| Freestanding birthing center |
| Clinic or doctor's office .... |
| Residence |
| Other .... |
| Not specified ...... |

Hispanic ${ }^{3}$

701,339
696,135
5,173
2,766
79
1,924
404
31

| 638,539 | 618,859 |
| ---: | ---: |
| 637,939 | 618,288 |
| 584 | 559 |
| 211 | 204 |
| 34 | 30 |
| 248 | 238 |
| 91 | 87 |
| 16 | 12 |

19,680
19,651
25
7
4
10
4
4
57,787
54,416
3,362
2,526
34
731
71
9
55,628
54,031
1,588
1,368
21
135
64

[^34]Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989-96

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


| All races ${ }^{4}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1996 ................................. | 3,891,494 | 3,061,092 | 116,045 | 797,119 | 503,724 | 293,395 | 33,283 | 20.7 | 14.6 | 28.3 |
| 1995 ................................. | 3,899,589 | 3,063,724 | 112,439 | 806,722 | 510,104 | 296,618 | 29,143 | 20.8 | 14.7 | 27.5 |
| 1994 ................................. | 3,952,767 | 3,087,576 | 110,341 | 830,517 | 520,647 | 309,870 | 34,674 | 21.2 | 14.9 | 26.3 |
| 1993 .................................. | 4,000,240 | 3,098,796 | 103,581 | 861,987 | 539,251 | 322,736 | 39,457 | 21.8 | 15.3 | 24.3 |
| 1992 | 4,065,014 | 3,100,710 | 97,549 | 888,622 | 554,662 | 333,960 | 75,682 | 22.3 | 15.6 | 22.6 |
| 1991 | 4,110,907 | 3,100,891 | 90,690 | 905,077 | 569,195 | 335,882 | 104,939 | 22.6 | 15.9 | 21.3 |
| 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, total |  |  |  |  |  |  |  |  |  |  |
| 1996 .................................. | 3,093,057 | 2,434,079 | 93,783 | 631,409 | 395,851 | 235,558 | 27,569 | 20.6 | 14.5 | 28.5 |
| 1995 | 3,098,885 | 2,435,191 | 90,940 | 639,818 | 401,098 | 238,720 | 23,876 | 20.8 | 14.6 | 27.6 |
| 1994 | 3,121,004 | 2,435,965 | 88,471 | 656,400 | 407,946 | 248,454 | 28,639 | 21.2 | 14.8 | 26.3 |
| 1993 | 3,149,833 | 2,435,229 | 82,995 | 682,355 | 423,540 | 258,815 | 32,249 | 21.9 | 15.3 | 24.3 |
| 1992 | 3,201,678 | 2,434,959 | 77,977 | 705,841 | 437,398 | 268,443 | 60,878 | 22.5 | 15.7 | 22.5 |
| 1991 | 3,241,273 | 2,434,900 | 72,564 | 723,088 | 452,534 | 270,554 | 83,285 | 22.9 | 16.1 | 21.1 |
| 19905 | 3,252,473 | 2,453,857 | 67,191 | 732,713 | 458,656 | 274,057 | 65,903 | 23.0 | 16.1 | 19.7 |
| 1989 6 | 3,022,537 | 2,212,843 | 56,851 | 667,114 | 418,177 | 248,937 | 142,580 | 23.2 | 16.2 | 18.6 |
| White, non-Hispanic |  |  |  |  |  |  |  |  |  |  |
| 1996 | 2,358,989 | 1,851,058 | 73,973 | 485,530 | 308,482 | 177,048 | 22,401 | 20.8 | 14.8 | 29.5 |
| 1995 | 2,382,638 | 1,867,024 | 72,124 | 496,103 | 313,933 | 182,170 | 19,511 | 21.0 | 14.9 | 28.4 |
| 1994 | 2,438,855 | 1,896,609 | 71,597 | 518,021 | 324,236 | 193,785 | 24,225 | 21.5 | 15.1 | 27.0 |
| 1993 | 2,472,031 | 1,902,433 | 67,536 | 542,013 | 338,236 | 203,777 | 27,585 | 22.2 | 15.6 | 24.9 |
| 19928 | 2,527,207 | 1,916,414 | 63,828 | 566,788 | 352,470 | 214,318 | 44,005 | 22.8 | 16.0 | 22.9 |
| 19918 | 2,589,878 | 1,941,726 | 60,174 | 587,802 | 368,721 | 219,081 | 60,350 | 23.2 | 16.4 | 21.5 |
| 1990 5,9 | 2,626,500 | 1,972,754 | 55,952 | 603,467 | 378,508 | 224,959 | 50,279 | 23.4 | 16.5 | 19.9 |
| 1989 6, 10 ........................... | 2,526,367 | 1,806,753 | 47,559 | 556,585 | 349,858 | 206,727 | 163,029 | 23.6 | 16.6 | 18.7 |
| Black, total |  |  |  |  |  |  |  |  |  |  |
| 1996 .................................. | 594,781 | 462,378 | 16,866 | 128,357 | 82,646 | 45,711 | 4,046 | 21.7 | 15.6 | 27.0 |
| 1995 ................................. | 603,139 | 468,984 | 16,224 | 130,482 | 84,441 | 46,041 | 3,673 | 21.8 | 15.7 | 26.1 |
| 1994 ................................. | 636,391 | 493,879 | 16,970 | 138,067 | 88,636 | 49,431 | 4,445 | 21.8 | 15.7 | 25.6 |
| 1993 | 658,875 | 509,816 | 16,179 | 143,452 | 91,677 | 51,775 | 5,607 | 22.0 | 15.7 | 23.8 |
| 1992 | 673,633 | 514,929 | 15,382 | 146,480 | 93,165 | 53,315 | 12,224 | 22.1 | 15.7 | 22.4 |
| 1991 | 682,602 | 519,047 | 14,213 | 145,583 | 92,645 | 52,938 | 17,972 | 21.9 | 15.5 | 21.2 |
| $1990{ }^{5}$.............................. | 679,236 | 516,581 | 13,496 | 146,472 | 93,476 | 52,996 | 16,183 | 22.1 | 15.7 | 20.3 |
| 1989 6 .............................. | 611,147 | 452,291 | 11,104 | 127,907 | 82,695 | 45,212 | 30,319 | 22.0 | 15.8 | 19.7 |
| Black, non-Hispanic |  |  |  |  |  |  |  |  |  |  |
| 1996 | 578,099 | 449,544 | 16,322 | 124,836 | 80,457 | 44,379 | 3,719 | 21.7 | 15.7 | 26.9 |
| 1995 | 587,781 | 457,104 | 15,721 | 127,171 | 82,395 | 44,776 | 3,506 | 21.8 | 15.7 | 26.0 |
| 1994 | 619,198 | 480,551 | 16,478 | 134,526 | 86,411 | 48,115 | 4,121 | 21.9 | 15.7 | 25.5 |
| 1993 | 641,273 | 496,333 | 15,675 | 139,702 | 89,315 | 50,387 | 5,238 | 22.0 | 15.7 | 23.7 |
| 19928 | 657,450 | 502,669 | 14,950 | 143,153 | 91,086 | 52,067 | 11,628 | 22.2 | 15.7 | 22.3 |
| 19918 | 666,758 | 507,522 | 13,847 | 142,417 | 90,664 | 51,753 | 16,819 | 21.9 | 15.5 | 21.1 |
| 1990 5, 9 | 661,701 | 503,720 | 13,157 | 142,838 | 91,175 | 51,663 | 15,143 | 22.1 | 15.7 | 20.3 |
| 1989 6, 10 | 611,269 | 440,310 | 10,726 | 125,290 | 81,177 | 44,113 | 45,669 | 22.2 | 15.9 | 19.6 |
| Hispanic ${ }^{7}$ |  |  |  |  |  |  |  |  |  |  |
| 1996 .................................. | 701,339 | 558,105 | 18,491 | 139,554 | 83,392 | 56,162 | 3,680 | 20.0 | 13.4 | 24.8 |
| 1995 .................................. | 679,768 | 539,731 | 17,396 | 136,640 | 82,662 | 53,978 | 3,397 | 20.2 | 13.7 | 24.4 |
| 1994 ...................................................... | 665,026 | 525,928 | 16,206 | 135,569 | 81,961 | 53,608 | 3,529 | 20.5 | 13.9 | 23.2 |
| 1993 | 654,418 | 514,493 | 14,586 | 136,279 | 82,576 | 53,703 | 3,646 | 20.9 | 14.2 | 21.4 |
| 19928 | 643,271 | 494,338 | 13,111 | 133,369 | 81,211 | 52,158 | 15,564 | 21.2 | 14.4 | 20.1 |
| 19918 | 623,085 | 472,126 | 11,615 | 129,752 | 80,228 | 49,524 | 21,207 | 21.6 | 14.8 | 19.0 |
| 1990 5, 9 | 595,073 | 458,242 | 10,395 | 122,969 | 76,027 | 46,942 | 13,862 | 21.2 | 14.5 | 18.1 |
| 1989 6, 10 ........................... | 532,249 | 385,462 | 8,549 | 105,268 | 64,905 | 40,363 | 41,519 | 21.5 | 14.7 | 17.5 |

[^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 and Hispanic origin of mother: United States, 1996

| Age and race and Hispanic origin of mother | Births by method of delivery |  |  |  |  |  |  | Cesarean delivery rate |  | Rate of vaginal birth after previous cesarean ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All births | Vaginal |  | Cesarean |  |  | Not stated | Total ${ }^{1}$ | Primary ${ }^{2}$ |  |
|  |  | Total | After previous cesarean | Total | Primary | Repeat |  |  |  |  |
| All races ${ }^{4}$......................... | 3,891,494 | 3,061,092 | 116,045 | 797,119 | 503,724 | 293,395 | 33,283 | 20.7 | 14.6 | 28.3 |
| Under 20 years ................... | 502,725 | 426,649 | 3,956 | 72,296 | 64,439 | 7,857 | 3,780 | 14.5 | 13.2 | 33.5 |
| 20-24 years ........................ | 945,210 | 774,542 | 21,852 | 162,789 | 113,189 | 49,600 | 7,879 | 17.4 | 13.1 | 30.6 |
| 25-29 years ........................ | 1,071,287 | 843,609 | 33,830 | 218,535 | 136,873 | 81,662 | 9,143 | 20.6 | 14.5 | 29.3 |
| 30-34 years ........................ | 897,913 | 678,495 | 36,419 | 211,410 | 117,743 | 93,667 | 8,008 | 23.8 | 15.5 | 28.0 |
| 35-39 years .... | 399,510 | 287,146 | 17,302 | 108,640 | 57,806 | 50,834 | 3,724 | 27.4 | 17.6 | 25.4 |
| 40-49 years ........................ | 74,849 | 50,651 | 2,686 | 23,449 | 13,674 | 9,775 | 749 | 31.6 | 22.2 | 21.6 |
| White, total ......................... | 3,093,057 | 2,434,079 | 93,783 | 631,409 | 395,851 | 235,558 | 27,569 | 20.6 | 14.5 | 28.5 |
| Under 20 years ................... | 350,211 | 298,322 | 2,441 | 49,060 | 44,204 | 4,856 | 2,829 | 14.1 | 13.0 | 33.5 |
| 20-24 years ........................ | 726,669 | 596,341 | 16,116 | 124,076 | 87,431 | 36,645 | 6,252 | 17.2 | 13.1 | 30.5 |
| 25-29 years ........................ | 878,449 | 692,751 | 27,609 | 177,926 | 111,422 | 66,504 | 7,772 | 20.4 | 14.3 | 29.3 |
| 30-34 years ........................ | 747,436 | 566,817 | 30,701 | 173,748 | 95,746 | 78,002 | 6,871 | 23.5 | 15.2 | 28.2 |
| 35-39 years ........................ | 329,782 | 238,611 | 14,681 | 87,953 | 46,225 | 41,728 | 3,218 | 26.9 | 17.1 | 26.0 |
| 40-49 years ........................ | 60,510 | 41,237 | 2,235 | 18,646 | 10,823 | 7,823 | 627 | 31.1 | 21.7 | 22.2 |
| White, non-Hispanic .......... | 2,358,989 | 1,851,058 | 73,973 | 485,530 | 308,482 | 177,048 | 22,401 | 20.8 | 14.8 | 29.5 |
| Under 20 years ................... | 227,729 | 193,317 | 1,450 | 32,308 | 29,553 | 2,755 | 2,104 | 14.3 | 13.3 | 34.5 |
| 20-24 years ........................ | 508,056 | 415,449 | 11,132 | 87,655 | 62,944 | 24,711 | 4,952 | 17.4 | 13.5 | 31.1 |
| 25-29 years ........................ | 683,376 | 538,905 | 21,135 | 138,025 | 89,280 | 48,745 | 6,446 | 20.4 | 14.7 | 30.2 |
| 30-34 years ........................ | 616,224 | 469,754 | 25,732 | 140,761 | 79,529 | 61,232 | 5,709 | 23.1 | 15.2 | 29.6 |
| 35-39 years ........................ | 274,431 | 199,956 | 12,632 | 71,777 | 38,397 | 33,380 | 2,698 | 26.4 | 17.0 | 27.5 |
| 40-49 years ........................ | 49,173 | 33,677 | 1,892 | 15,004 | 8,779 | 6,225 | 492 | 30.8 | 21.6 | 23.3 |
| Black, total .......................... | 594,781 | 462,378 | 16,866 | 128,357 | 82,646 | 45,711 | 4,046 | 21.7 | 15.6 | 27.0 |
| Under 20 years ................... | 135,789 | 113,573 | 1,413 | 21,454 | 18,599 | 2,855 | 762 | 15.9 | 14.2 | 33.1 |
| 20-24 years ........................ | 179,361 | 144,669 | 5,037 | 33,468 | 21,791 | 11,677 | 1,224 | 18.8 | 13.5 | 30.1 |
| 25-29 years ....................... | 133,204 | 101,536 | 4,768 | 30,753 | 18,305 | 12,448 | 915 | 23.2 | 15.9 | 27.7 |
| 30-34 years ........................ | 94,295 | 67,630 | 3,762 | 25,930 | 14,470 | 11,460 | 735 | 27.7 | 18.5 | 24.7 |
| 35-39 years ........................ | 43,716 | 29,580 | 1,622 | 13,804 | 7,687 | 6,117 | 332 | 31.8 | 21.6 | 21.0 |
| 40-49 years ........................ | 8,416 | 5,390 | 264 | 2,948 | 1,794 | 1,154 | 78 | 35.4 | 25.9 | 18.6 |
| Black, non-Hispanic ........... | 578,099 | 449,544 | 16,322 | 124,836 | 80,457 | 44,379 | 3,719 | 21.7 | 15.7 | 26.9 |
| Under 20 years ................... | 132,700 | 110,980 | 1,380 | 20,998 | 18,188 | 2,810 | 722 | 15.9 | 14.2 | 32.9 |
| 20-24 years ........................ | 174,958 | 141,065 | 4,918 | 32,738 | 21,277 | 11,461 | 1,155 | 18.8 | 13.5 | 30.0 |
| 25-29 years ........................ | 129,002 | 98,396 | 4,605 | 29,783 | 17,711 | 12,072 | 823 | 23.2 | 15.9 | 27.6 |
| 30-34 years ........................ | 91,050 | 65,279 | 3,609 | 25,115 | 14,070 | 11,045 | 656 | 27.8 | 18.6 | 24.6 |
| 35-39 years ........................ | 42,279 | 28,619 | 1,556 | 13,359 | 7,476 | 5,883 | 301 | 31.8 | 21.6 | 20.9 |
| 40-49 years ........................ | 8,110 | 5,205 | 254 | 2,843 | 1,735 | 1,108 | 62 | 35.3 | 25.9 | 18.6 |
| Hispanic $5^{\text {.......................... }}$ | 701,339 | 558,105 | 18,491 | 139,554 | 83,392 | 56,162 | 3,680 | 20.0 | 13.4 | 24.8 |
| Under 20 years ................... | 121,934 | 104,573 | 999 | 16,692 | 14,594 | 2,098 | 669 | 13.8 | 12.4 | 32.3 |
| 20-24 years ........................ | 214,173 | 177,235 | 4,863 | 35,816 | 24,004 | 11,812 | 1,122 | 16.8 | 12.2 | 29.2 |
| 25-29 years ........................ | 185,478 | 146,287 | 6,123 | 38,233 | 20,998 | 17,235 | 958 | 20.7 | 13.0 | 26.2 |
| 30-34 years ........................ | 119,690 | 88,489 | 4,437 | 30,576 | 14,767 | 15,809 | 625 | 25.7 | 14.9 | 21.9 |
| 35-39 years ........................ | 49,812 | 34,693 | 1,776 | 14,867 | 7,154 | 7,713 | 252 | 30.0 | 17.9 | 18.7 |
| 40-49 years ........................ | 10,252 | 6,828 | 293 | 3,370 | 1,875 | 1,495 | 54 | 33.0 | 22.3 | 16.4 |

[^36]Table 41. Rates of cesarean delivery and vaginal birth after previous cesarean delivery by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
[By place of residence]

| State | Cesarean delivery rate ${ }^{1}$ |  |  |  |  |  | Rate of vaginal births after previous cesarean ${ }^{2}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | White |  | Black |  | Hispanic ${ }^{4}$ | $\begin{gathered} \text { All } \\ \text { races } 3 \end{gathered}$ | White |  | Black |  | Hispanic 4 |
|  | $\begin{gathered} \text { All } \\ \text { races }^{3} \end{gathered}$ | Total | NonHispanic | Total | NonHispanic |  |  | Total | NonHispanic | Total | NonHispanic |  |
| United States ${ }^{5}$......... | 20.7 | 20.6 | 20.8 | 21.7 | 21.7 | 20.0 | 28.3 | 28.5 | 29.5 | 27.0 | 26.9 | 24.8 |
| Alabama ................... | 23.3 | 23.7 | 23.8 | 22.7 | 22.6 | 22.3 | 22.4 | 21.9 | 21.8 | 23.8 | 23.9 | 23.6 |
| Alaska | 16.7 | 19.2 | 19.2 | 19.7 | 18.6 | 20.0 | 34.6 | 30.9 | 30.4 |  |  | 36.5 |
| Arizona .................... | 16.1 | 16.2 | 16.8 | 19.3 | 19.4 | 15.4 | 28.9 | 27.4 | 28.7 | 25.0 | 25.0 | 25.9 |
| Arkansas .................. | 25.3 | 25.0 | 25.1 | 26.5 | 26.5 | 22.4 | 19.4 | 19.6 | 19.4 | 18.8 | 18.8 | 21.9 |
| California .................. | 20.6 | 20.6 | 21.6 | 22.9 | 23.0 | 19.8 | 22.8 | 22.9 | 24.7 | 20.1 | 20.0 | 21.5 |
| Colorado ................. | 15.1 | 15.1 | 15.3 | 16.6 | 17.0 | 14.4 | 40.4 | 40.1 | 40.1 | 43.3 | 43.3 | 39.7 |
| Connecticut .............. | 19.8 | 19.8 | 20.1 | 20.5 | 20.6 | 18.3 | 33.3 | 32.7 | 32.6 | 36.1 | 36.9 | 32.2 |
| Delaware .................. | 21.0 | 21.3 | 21.6 | 20.5 | 20.7 | 17.6 | 35.0 | 34.4 | 33.8 | 37.4 | 36.8 | 43.6 |
| District of Columbia ... | 21.3 | 19.2 | 23.3 | 22.1 | 22.2 | 13.6 | 21.2 | 27.6 | * | 20.0 | 20.0 | . |
| Florida ..................... | 21.6 | 22.1 | 21.4 | 20.3 | 20.3 | 24.0 | 25.7 | 25.6 | 27.8 | 25.3 | 25.4 | 19.6 |
| Georgia ................... | 20.9 | 20.7 | 21.2 | 21.7 | 21.6 | 15.6 | 25.2 | 26.5 | 26.4 | 22.1 | 22.2 | 27.3 |
| Hawaii ...................... | 17.5 | 19.3 | 19.3 | 20.4 | 21.3 | 16.5 | 35.2 | 34.8 | 34.7 |  |  | 36.6 |
| Idaho | 16.0 | 15.9 | 15.8 | 29.3 | 27.8 | 16.6 | 36.8 | 36.9 | 36.8 | * | * | 37.1 |
| Illinois | 19.3 | 19.3 | 20.1 | 19.4 | 19.4 | 16.7 | 30.1 | 31.3 | 31.5 | 25.4 | 25.4 | 30.2 |
| Indiana | 20.3 | 20.2 | 20.2 | 21.1 | 21.2 | 21.2 | 26.3 | 26.6 | 26.8 | 24.1 | 24.0 | 24.1 |
| lowa ........................ | 18.6 | 18.6 | 18.7 | 19.6 | 19.6 | 17.4 | 35.7 | 35.5 | 35.3 | 34.8 | 33.3 | 36.6 |
| Kansas .. | 19.2 | 19.3 | 19.4 | 19.8 | 19.9 | 19.0 | 25.1 | 25.0 | 24.6 | 26.1 | 26.1 | 27.1 |
| Kentucky ................. | 21.3 | 21.4 | 21.4 | 21.0 | 20.9 | 16.7 | 26.8 | 26.2 | 26.0 | 31.9 | 31.8 |  |
| Louisiana ................. | 26.4 | 27.9 | 28.0 | 24.6 | 24.6 | 23.4 | 12.9 | 11.2 | 11.0 | 15.5 | 15.4 | 15.7 |
| Maine ...................... | 20.8 | 20.9 | 20.8 | * | * | 23.5 | 30.4 | 30.4 | 30.5 | * | * | * |
| Maryland .................. | 21.6 | 21.0 | 21.3 | 23.2 | 23.2 | 17.8 | 33.0 | 33.5 | 33.2 | 31.6 | 31.8 | 34.7 |
| Massachusetts ......... | 19.8 | 20.0 | 20.3 | 20.2 | 20.3 | 17.1 | 34.0 | 34.2 | 33.8 | 30.7 | 29.4 | 38.3 |
| Michigan ................... | 20.2 | 20.5 | 20.6 | 18.9 | 18.9 | 19.1 | 27.1 | 27.0 | 27.1 | 27.5 | 27.5 | 27.4 |
| Minnesota ................ | 16.9 | 17.2 | 17.3 | 16.9 | 16.8 | 16.5 | 36.1 | 35.6 | 35.7 | 41.9 | 41.9 | 37.5 |
| Mississippi ................ | 26.6 | 28.0 | 28.1 | 25.2 | 25.2 | 27.0 | 18.1 | 16.4 | 16.2 | 19.8 | 19.8 |  |
| Missouri ................... | 20.4 | 20.7 | 20.7 | 18.8 | 18.8 | 18.3 | 32.2 | 31.3 | 31.3 | 37.6 | 37.7 | 28.5 |
| Montana .................. | 19.1 | 18.8 | 18.7 |  |  | 20.2 | 32.7 | 33.3 | 33.6 | * | * | * |
| Nebraska .................. | 19.8 | 20.0 | 20.1 | 18.5 | 18.5 | 19.2 | 30.6 | 30.3 | 30.8 | 31.0 | 31.0 | 26.2 |
| Nevada ........... | 19.3 | 19.0 | 20.6 | 22.1 | 22.3 | 15.7 | 29.0 | 29.2 | 26.5 | 30.2 | 29.5 | 35.5 |
| New Hampshire ........ | 20.3 | 20.2 | 20.2 | 21.6 | * | 22.9 | 31.7 | 31.7 | 31.7 | * | * | * |
| New Jersey | 24.0 | 24.2 | 24.1 | 23.5 | 23.2 | 24.8 | 35.7 | 35.3 | 36.9 | 38.3 | 39.4 | 29.0 |
| New Mexico ............... | 17.2 | 17.5 | 18.0 | 22.2 | 22.4 | 17.1 | 36.9 | 35.8 | 36.7 | 37.9 | 38.5 | 35.0 |
| New York ................ | 22.9 | 22.9 | 23.6 | 23.2 | 23.3 | 21.8 | 31.6 | 31.5 | 30.7 | 32.0 | 32.2 | 31.6 |
| North Carolina .......... | 21.1 | 21.1 | 21.5 | 21.4 | 21.4 | 15.9 | 29.3 | 29.0 | 28.5 | 29.4 | 29.5 | 37.0 |
| North Dakota ............ | 18.9 | 18.2 | 18.2 | 24.7 | 23.3 | 20.4 | 28.9 | 31.2 | 31.2 | * | * |  |
| Ohio ....................... | 19.0 | 19.2 | 19.2 | 18.6 | 18.6 | 18.3 | 35.5 | 35.4 | 35.5 | 35.5 | 35.4 | 34.3 |
| Oklahoma ................ | 22.5 | 22.2 | 22.3 | 24.0 | 24.0 | 21.0 | 22.3 | 23.0 | 22.9 | 20.9 | 21.0 | 24.1 |
| Oregon .................... | 16.9 | 16.8 | 17.1 | 21.2 | 21.5 | 15.4 | 39.5 | 39.5 | 38.8 | 28.4 | 27.8 | 43.5 |
| Pennsylvania ............ | 19.4 | 19.5 | 19.7 | 19.0 | 19.0 | 17.5 | 34.5 | 33.8 | 33.7 | 38.6 | 38.8 | 35.4 |
| Rhode Island ............ | 17.7 | 18.1 | 18.8 | 18.0 | 18.1 | 16.7 | 35.1 | 34.2 | 32.9 | 42.4 | 41.2 | 36.7 |
| South Carolina ......... | 22.6 | 22.8 | 22.8 | 22.3 | 22.3 | 23.1 | 23.3 | 24.4 | 24.6 | 21.2 | 21.1 | 20.7 |
| South Dakota ........... | 20.8 | 21.4 | 21.3 |  | * | 24.7 | 22.8 | 23.1 | 23.2 | . |  |  |
| Tennessee | 21.7 | 21.9 | 21.9 | 21.3 | 21.3 | 22.1 | 27.4 | 26.9 | 27.0 | 28.8 | 28.8 | 25.4 |
| Texas ..................... | 23.1 | 23.1 | 23.7 | 24.5 | 24.5 | 22.4 | 21.7 | 21.8 | 23.9 | 19.4 | 19.3 | 19.8 |
| Utah ....................... | 15.9 | 15.8 | 15.7 | 22.5 | 22.2 | 17.4 | 34.3 | 34.0 | 33.7 | * | * | 36.9 |
| Vermont .................. | 16.5 | 16.4 | 16.1 |  |  | * | 41.7 | 41.9 | 41.6 | * | * | - |
| Virginia ....................... | 21.1 | 20.8 | 21.0 | 22.2 | 22.2 | 18.3 | 32.2 | 32.1 | 31.9 | 32.8 | 32.9 | 34.1 |
| Washington .............. | 16.8 | 16.5 | 16.6 | 21.1 | 20.8 | 16.6 | 35.9 | 36.1 | 36.2 | 32.6 | 32.3 | 35.8 |
| West Virginia ............ | 22.8 | 22.8 | 22.8 | 23.9 | 24.0 | 20.2 | 23.9 | 24.0 | 24.1 |  |  |  |
| Wisconsin ................ | 15.6 | 16.2 | 16.3 | 12.0 | 12.0 | 13.7 | 35.5 | 35.8 | 35.6 | 30.1 | 30.1 | 39.2 |
| Wyoming ................. | 18.3 | 18.4 | 18.6 |  |  | 16.3 | 34.2 | 34.4 | 34.2 |  |  |  |
| Puerto Rico .............. | 31.5 | 32.1 | --- | 24.2 | --- | --- | 8.2 | 8.2 | --- | 8.7 | --- | --- |
| Virgin Islands ............ | 22.4 | 26.3 | 26.8 | 21.6 | 20.5 | 25.9 | 21.8 | * | * | 20.1 | 21.2 | * |
| Guam ..................... | 15.1 | 13.7 | 14.4 |  |  |  | 16.9 | * | * |  |  | * |

[^37]Table 42. Rates of cesarean delivery and vaginal birth after previous cesarean delivery, by selected maternal medical risk factors and complications of labor and/or delivery: United States, 1996

| Medical risk factor and complication | All births to mothers with specified condition and/or procedure | Cesarean delivery rate |  | Rate of vaginal birth after previous cesarean ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Total ${ }^{1}$ | Primary ${ }^{2}$ |  |
| Medical risk factors |  |  |  |  |
| Anemia | 75,400 | 22.0 | 15.6 | 31.9 |
| Cardiac disease | 19,226 | 24.1 | 17.5 | 32.2 |
| Acute or chronic lung disease ....................................... | 32,006 | 24.2 | 17.8 | 30.6 |
| Diabetes .................................................................. | 100,845 | 35.2 | 25.4 | 20.3 |
| Genital herpes ${ }^{4}$........................................................ | 31,795 | 36.0 | 30.4 | 30.8 |
| Hydramnios/Oligohydramnios ...................................... | 47,824 | 37.0 | 31.8 | 25.9 |
| Hemoglobinopathy .................................................... | 2,979 | 24.0 | 17.9 | 33.5 |
| Hypertension, chronic ................................................. | 26,221 | 38.6 | 29.5 | 20.0 |
| Hypertension, pregnancy-associated ............................ | 137,724 | 36.1 | 31.5 | 22.4 |
| Eclampsia ................................................................ | 13,591 | 47.8 | 43.7 | 17.7 |
| Incompetent cervix ...................................................... | 9,817 | 31.8 | 25.1 | 28.3 |
| Renal disease ${ }^{5}$......................................................... | 10,372 | 24.1 | 17.9 | 30.7 |
| Rh sensitization ${ }^{6}$....................................................... | 24,396 | 21.5 | 15.3 | 33.8 |
| Uterine bleeding ${ }^{4}$...................................................... | 25,671 | 31.2 | 24.7 | 28.0 |
| Complications of labor and/or delivery |  |  |  |  |
| Febrile ....................................................................... | 61,850 | 30.3 | 28.4 | 49.0 |
| Meconium, moderate/heavy ........................................ | 223,536 | 20.6 | 17.6 | 47.5 |
| Premature rupture of membrane .................................. | 113,112 | 25.1 | 22.0 | 41.4 |
| Abruptio placenta ...................................................... | 22,062 | 58.1 | 53.8 | 18.5 |
| Placenta previa ......................................................... | 12,915 | 81.6 | 77.4 | 4.3 |
| Other excessive bleeding 7 | 21,142 | 27.3 | 21.4 | 34.1 |
| Seizures during labor .................................................. | 1,617 | 42.6 | 40.9 | 36.8 |
| Precipitous labor (less than 3 hours) ............................. | 77,614 | 2.8 | 1.8 | 76.5 |
| Prolonged labor (more than 20 hours) ............................ | 34,445 | 35.5 | 34.0 | 45.7 |
| Dysfunctional labor .................................................... | 105,749 | 63.1 | 60.4 | 17.3 |
| Breech/Malpresentation | 146,431 | 84.7 | 83.0 | 5.3 |
| Cephalopelvic disproportion ........................................ | 90,105 | 96.5 | 96.1 | 1.4 |
| Cord prolapse ........................................................... | 8,244 | 66.4 | 63.9 | 13.8 |
| Anesthetic complication 8 | 2,214 | 41.8 | 32.1 | 20.7 |
| Fetal distress ${ }^{8}$.......................................................... | 147,814 | 54.5 | 51.7 | 23.9 |

[^38]Table 43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 1996

| Birthweight ${ }^{1}$ and race and Hispanic origin of mother | All births | Period of gestation ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Preterm |  |  |  |  | Term |  |  |  | Postterm | Not stated |
|  |  | Total under 37 weeks | Under 28 weeks | $\begin{aligned} & \text { 28-31 } \\ & \text { weeks } \end{aligned}$ | $\begin{aligned} & 32-35 \\ & \text { weeks } \end{aligned}$ | 36 weeks | Total 37-41 weeks | $\begin{aligned} & 37-39 \\ & \text { weeks } \end{aligned}$ | 40 weeks | $\begin{gathered} 41 \\ \text { weeks } \end{gathered}$ | 42 weeks and over |  |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| All races ${ }^{3}$ | 3,891,494 | 423,107 | 27,456 | 45,275 | 198,918 | 151,458 | 3,093,025 | 1,735,210 | 868,341 | 489,474 | 334,713 | 40,649 |
| Less than 500 grams ........ | 5,462 | 5,295 | 5,069 | 203 | 21 | 2 | 9 | 3 | 4 | 2 | 2 | 156 |
| 500-999 grams ............... | 21,094 | 20,519 | 15,130 | 4,734 | 618 | 37 | 182 | 116 | 36 | 30 | 23 | 370 |
| 1,000-1,499 grams .......... | 26,869 | 24,748 | 3,666 | 13,898 | 6,641 | 543 | 1,414 | 1,015 | 241 | 158 | 254 | 453 |
| 1,500-1,999 grams .......... | 55,943 | 45,417 | 1,019 | 10,513 | 29,177 | 4,708 | 8,865 | 7,257 | 1,035 | 573 | 860 | 801 |
| 2,000-2,499 grams .......... | 177,862 | 87,029 | 767 | 4,107 | 55,462 | 26,693 | 82,808 | 66,692 | 10,856 | 5,260 | 6,059 | 1,966 |
| 2,500-2,999 grams ........... | 639,110 | 110,395 | 1,111 | 4,308 | 49,820 | 55,156 | 483,440 | 347,337 | 92,877 | 43,226 | 38,573 | 6,702 |
| 3,000-3,499 grams ........... | 1,434,698 | 84,825 | - | 4,955 | 36,318 | 43,552 | 1,215,035 | 718,399 | 328,702 | 167,934 | 120,937 | 13,901 |
| 3,500-3,999 grams .......... | 1,127,294 | 35,121 |  | 2,449 | 16,287 | 16,385 | 964,314 | 460,764 | 316,002 | 187,548 | 117,637 | 10,222 |
| 4,000-4,499 grams ........... | 336,514 | 7,309 |  | - | 3,726 | 3,583 | 284,370 | 113,468 | 100,540 | 70,362 | 41,576 | 3,259 |
| 4,500-4,999 grams .......... | 55,558 | 1,192 |  | - | 564 | 628 | 46,093 | 17,297 | 16,037 | 12,759 | 7,732 | 541 |
| 5,000 grams or more ........ | 6,268 | 155 | - | - | 77 | 78 | 5,124 | 2,089 | 1,652 | 1,383 | 903 | 86 |
| Not stated ....................... | 4,822 | 1,102 | 694 | 108 | 207 | 93 | 1,371 | 773 | 359 | 239 | 157 | 2,192 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight <br> Low birthweight 5 | 1.4 | 12.0 | 89.2 | 41.7 | 3.7 | 0.4 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 2.5 |
|  | 7.4 | 43.4 | 95.8 | 74.1 | 46.3 | 21.1 | 3.0 | 4.3 | 1.4 | 1.2 | 2.2 | 9.7 |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| White, total ..................... | 3,093,057 | 299,923 | 15,912 | 29,484 | 141,145 | 113,382 | 2,491,649 | 1,374,026 | 710,854 | 406,769 | 270,957 | 30,528 |
| Less than 500 grams ........ | 3,006 | 2,907 | 2,768 | 126 | 11 | 2 | 9 | 3 | 4 | 2 | ${ }^{-}$ | 90 |
| 500-999 grams ................ | 12,785 | 12,404 | 8,864 | 3,119 | 397 | 24 | 127 | 76 | 27 | 24 | 17 | 237 |
| 1,000-1,499 grams .......... | 17,782 | 16,424 | 2,251 | 9,214 | 4,583 | 376 | 907 | 657 | 146 | 104 | 151 | 300 |
| 1,500-1,999 grams ........... | 38,421 | 31,246 | 561 | 7,154 | 20,295 | 3,236 | 6,074 | 4,998 | 677 | 399 | 583 | 518 |
| 2,000-2,499 grams .......... | 123,825 | 61,607 | 414 | 2,429 | 39,770 | 18,994 | 56,804 | 45,875 | 7,365 | 3,564 | 4,134 | 1,280 |
| 2,500-2,999 grams .......... | 458,830 | 79,396 | 618 | 2,443 | 35,280 | 41,055 | 347,497 | 249,634 | 66,350 | 31,513 | 27,436 | 4,501 |
| 3,000-3,499 grams ........... | 1,127,144 | 61,717 | - | 3,151 | 25,150 | 33,416 | 960,282 | 565,664 | 260,318 | 134,300 | 94,688 | 10,457 |
| 3,500-3,999 grams .......... | 956,042 | 26,624 |  | 1,769 | 12,088 | 12,767 | 821,552 | 390,155 | 270,220 | 161,177 | 99,510 | 8,356 |
| 4,000-4,499 grams .......... | 296,883 | 5,805 |  | - | 2,945 | 2,860 | 251,658 | 99,439 | 89,541 | 62,678 | 36,654 | 2,766 |
| 4,500-4,999 grams ........... | 49,494 | 944 |  | - | 425 | 519 | 41,206 | 15,179 | 14,454 | 11,573 | 6,883 | 461 |
| 5,000 grams or more ........ | 5,415 | 122 | - | 79 | 56 | 66 | 4,445 | 1,746 | 1,463 | 1,236 | 784 | 64 |
| Not stated ...................... | 3,430 | 727 | 436 | 79 | 145 | 67 | 1,088 | 600 | 289 | 199 | 117 | 1,498 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... <br> Low birthweight 5 | 1.1 | 10.6 | 89.7 | 42.4 | 3.5 | 0.4 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 2.2 |
|  | 6.3 | 41.6 | 96.0 | 75.0 | 46.1 | 20.0 | 2.6 | 3.8 | 1.2 | 1.0 | 1.8 | 8.4 |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| White, non-Hispanic ....... | 2,358,989 | 222,592 | 11,747 | 21,774 | 103,279 | 85,792 | 1,915,914 | 1,050,238 | 548,994 | 316,682 | 205,431 | 15,052 |
| Less than 500 grams ........ | 2,235 | 2,192 | 2,087 | 94 | 11 | - | 7 | 2 | 3 | 2 | - | 36 |
| 500-999 grams ................ | 9,609 | 9,398 | 6,630 | 2,448 | 299 | 21 | 93 | 56 | 19 | 18 | 12 | 106 |
| 1,000-1,499 grams ........... | 13,521 | 12,625 | 1,629 | 7,147 | 3,557 | 292 | 638 | 469 | 95 | 74 | 103 | 155 |
| 1,500-1,999 grams .......... | 29,786 | 24,412 | 383 | 5,523 | 15,937 | 2,569 | 4,680 | 3,883 | 494 | 303 | 436 | 258 |
| 2,000-2,499 grams .......... | 94,688 | 47,876 | 284 | 1,697 | 30,944 | 14,951 | 43,035 | 34,945 | 5,447 | 2,643 | 3,120 | 657 |
| 2,500-2,999 grams .......... | 338,305 | 59,738 | 401 | 1,586 | 26,027 | 31,724 | 256,520 | 185,272 | 48,242 | 23,006 | 19,918 | 2,129 |
| 3,000-3,499 grams .......... | 839,320 | 42,980 | - | 2,009 | 16,307 | 24,664 | 721,732 | 425,755 | 195,058 | 100,919 | 69,557 | 5,051 |
| 3,500-3,999 grams .......... | 745,169 | 18,095 | - | 1,204 | 7,839 | 9,052 | 646,251 | 305,794 | 213,046 | 127,411 | 76,659 | 4,164 |
| 4,000-4,499 grams ........... | 239,174 | 3,965 | - | , | 1,936 | 2,029 | 204,518 | 79,981 | 73,112 | 51,425 | 29,243 | 1,448 |
| 4,500-4,999 grams ........... | 40,507 | 652 | - | - | 272 | 380 | 33,947 | 12,201 | 12,047 | 9,699 | 5,647 | 261 |
| 5,000 grams or more ........ | 4,333 | 84 | - | ${ }^{-}$ | 34 | 50 | 3,572 | 1,369 | 1,185 | 1,018 | 639 | 38 |
| Not stated ....................... | 2,342 | 575 | 333 | 66 | 116 | 60 | 921 | 511 | 246 | 164 | 97 | 749 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... | 1.1 | 10.9 | 90.6 | 44.6 | 3.7 | 0.4 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 2.1 |
| Low birthweight 5 ............ | 6.4 | 43.5 | 96.5 | 77.9 | 49.2 | 20.8 | 2.5 | 3.7 | 1.1 | 1.0 | 1.8 | 8.5 |

[^39]Table 43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 1996 --Con.

| Birthweight ${ }^{1}$ and race and Hispanic origin of mother | All births | Period of gestation ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Preterm |  |  |  |  | Term |  |  |  | Postterm | Not stated |
|  |  | Total under 37 weeks | Under 28 weeks | $\begin{aligned} & 28-31 \\ & \text { weeks } \end{aligned}$ | $\begin{aligned} & 32-35 \\ & \text { weeks } \end{aligned}$ | 36 weeks | $\begin{aligned} & \text { Total } \\ & 37-41 \\ & \text { weeks } \end{aligned}$ | $\begin{aligned} & 37-39 \\ & \text { weeks } \end{aligned}$ | 40 weeks | $\begin{gathered} 41 \\ \text { weeks } \end{gathered}$ | 42 weeks and over |  |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| Black, total ...................... | 594,781 | 102,539 | 10,596 | 13,766 | 48,020 | 30,157 | 438,434 | 263,430 | 113,934 | 61,070 | 48,351 | 5,457 |
| Less than 500 grams ........ | 2,273 | 2,218 | 2,139 | 69 | 10 | - | - | - | - | - | 2 | 53 |
| 500-999 grams ................ | 7,536 | 7,382 | 5,747 | 1,439 | 185 | 11 | 50 | 36 | 8 | 6 | 6 | 98 |
| 1,000-1,499 grams .......... | 7,949 | 7,309 | 1,280 | 4,098 | 1,788 | 143 | 438 | 315 | 78 | 45 | 89 | 113 |
| 1,500-1,999 grams .......... | 14,937 | 12,177 | 427 | 2,891 | 7,641 | 1,218 | 2,332 | 1,876 | 297 | 159 | 236 | 192 |
| 2,000-2,499 grams .......... | 44,560 | 21,412 | 329 | 1,506 | 13,234 | 6,343 | 21,054 | 16,750 | 2,898 | 1,406 | 1,648 | 446 |
| 2,500-2,999 grams .......... | 138,659 | 25,327 | 431 | 1,634 | 12,089 | 11,173 | 103,017 | 73,530 | 20,305 | 9,182 | 9,040 | 1,275 |
| 3,000-3,499 grams .......... | 224,383 | 18,336 |  | 1,535 | 8,952 | 7,849 | 184,282 | 109,734 | 49,461 | 25,087 | 20,081 | 1,684 |
| 3,500-3,999 grams .......... | 121,528 | 6,690 |  | 567 | 3,347 | 2,776 | 100,779 | 49,666 | 32,166 | 18,947 | 13,210 | 849 |
| 4,000-4,499 grams .......... | 27,199 | 1,140 |  | - | 610 | 530 | 22,463 | 9,665 | 7,488 | 5,310 | 3,370 | 226 |
| 4,500-4,999 grams .......... | 4,140 | 185 |  | - | 100 | 85 | 3,343 | 1,493 | 1,050 | 800 | 573 | 39 |
| 5,000 grams or more ........ | 565 | 27 | - | - | 17 | 10 | 463 | 234 | 131 | 98 | 69 | 6 |
| Not stated ....................... | 1,052 | 336 | 243 | 27 | 47 | 19 | 213 | 131 | 52 | 30 | 27 | 476 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... <br> Low birthweight 5 | 3.0 | 16.5 | 88.5 | 40.8 | 4.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 5.3 |
|  | 13.0 | 49.4 | 95.8 | 72.8 | 47.6 | 25.6 | 5.4 | 7.2 | 2.9 | 2.6 | 4.1 | 18.1 |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| Black, non-Hispanic ....... | 578,099 | 100,371 | 10,390 | 13,509 | 46,995 | 29,477 | 425,729 | 256,301 | 110,426 | 59,002 | 46,962 | 5,037 |
| Less than 500 grams ........ | 2,221 | 2,167 | 2,090 | 67 | 10 | - | - | - | - | - | 2 | 52 |
| 500-999 grams ................ | 7,387 | 7,239 | 5,631 | 1,417 | 180 | 11 | 49 | 35 | 8 | 6 | 6 | 93 |
| 1,000-1,499 grams .......... | 7,811 | 7,185 | 1,260 | 4,017 | 1,766 | 142 | 426 | 308 | 74 | 44 | 88 | 112 |
| 1,500-1,999 grams .......... | 14,660 | 11,954 | 418 | 2,844 | 7,494 | 1,198 | 2,287 | 1,839 | 295 | 153 | 233 | 186 |
| 2,000-2,499 grams .......... | 43,627 | 20,967 | 325 | 1,478 | 12,951 | 6,213 | 20,612 | 16,401 | 2,841 | 1,370 | 1,619 | 429 |
| 2,500-2,999 grams .......... | 135,480 | 24,822 | 427 | 1,605 | 11,854 | 10,936 | 100,592 | 71,826 | 19,816 | 8,950 | 8,856 | 1,210 |
| 3,000-3,499 grams .......... | 218,044 | 17,890 |  | 1,503 | 8,728 | 7,659 | 179,007 | 106,727 | 47,977 | 24,303 | 19,550 | 1,597 |
| 3,500-3,999 grams .......... | 117,360 | 6,495 |  | 551 | 3,256 | 2,688 | 97,339 | 48,080 | 31,037 | 18,222 | 12,743 | 783 |
| 4,000-4,499 grams .......... | 26,118 | 1,119 | - | - | 599 | 520 | 21,559 | 9,291 | 7,193 | 5,075 | 3,229 | 211 |
| 4,500-4,999 grams .......... | 3,967 | 181 | - | - | 99 | 82 | 3,202 | 1,439 | 1,004 | 759 | 546 | 38 |
| 5,000 grams or more ........ | 544 | 24 |  | - | 15 | 9 | 449 | 229 | 129 | 91 | 65 | 6 |
| Not stated ...................... | 880 | 328 | 239 | 27 | 43 | 19 | 207 | 126 | 52 | 29 | 25 | 320 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 ..... <br> Low birthweight 5 | 3.0 | 16.6 | 88.5 | 40.8 | 4.2 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 5.4 |
|  | 13.1 | 49.5 | 95.8 | 72.9 | 47.7 | 25.7 | 5.5 | 7.3 | 2.9 | 2.7 | 4.2 | 18.5 |
|  | Number |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic ${ }^{6}$...................... | 701,339 | 74,850 | 3,944 | 7,493 | 36,765 | 26,648 | 549,392 | 310,366 | 153,740 | 85,286 | 62,824 | 14,273 |
| Less than 500 grams ........ | 694 | 651 | 622 | 29 | - | - | 2 | 1 | 1 | - | - | 41 |
| 500-999 grams ............... | 3,030 | 2,868 | 2,124 | 641 | 99 | 4 | 34 | 20 | 8 | 6 | 5 | 123 |
| 1,000-1,499 grams .......... | 4,105 | 3,650 | 590 | 2,015 | 969 | 76 | 271 | 188 | 55 | 28 | 46 | 138 |
| 1,500-1,999 grams .......... | 8,196 | 6,481 | 176 | 1,546 | 4,121 | 638 | 1,336 | 1,071 | 171 | 94 | 142 | 237 |
| 2,000-2,499 grams .......... | 27,987 | 13,148 | 131 | 713 | 8,399 | 3,905 | 13,284 | 10,543 | 1,847 | 894 | 972 | 583 |
| 2,500-2,999 grams .......... | 116,713 | 18,978 | 210 | 848 | 9,006 | 8,914 | 88,150 | 62,374 | 17,562 | 8,214 | 7,308 | 2,277 |
| 3,000-3,499 grams .......... | 276,870 | 18,401 | - | 1,127 | 8,780 | 8,494 | 228,924 | 134,521 | 62,462 | 31,941 | 24,347 | 5,198 |
| 3,500-3,999 grams .......... | 199,955 | 8,408 |  | 562 | 4,204 | 3,642 | 165,788 | 80,075 | 53,917 | 31,796 | 21,762 | 3,997 |
| 4,000-4,499 grams .......... | 53,916 | 1,806 | - | - | 988 | 818 | 43,909 | 18,308 | 15,219 | 10,382 | 6,959 | 1,242 |
| 4,500-4,999 grams .......... | 8,315 | 283 | - | - | 148 | 135 | 6,715 | 2,817 | 2,203 | 1,695 | 1,132 | 185 |
| 5,000 grams or more ........ | 1,028 | 40 | 1 | ${ }^{-}$ | 24 | 16 | 831 | 369 | 258 | 204 | 132 | 25 |
| Not stated ....................... | 530 | 136 | 91 | 12 | 27 | 6 | 148 | 79 | 37 | 32 | 19 | 227 |
|  | Percent |  |  |  |  |  |  |  |  |  |  |  |
| Very low birthweight 4 .... | 1.1 | 9.6 | 86.6 | 35.9 | 2.9 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 2.2 |
| Low birthweight ${ }^{5}$............ | 6.3 | 35.9 | 94.5 | 66.1 | 37.0 | 17.4 | 2.7 | 3.8 | 1.4 | 1.2 | 1.9 | 8.0 |

[^40]Table 44. Percent of live births preterm and percent of live births of low birthweight and very low birthweight, by race of mother: United States, 1981-96

| Year | Preterm ${ }^{1}$ |  |  | Low birthweight ${ }^{3}$ |  |  | Very low birthweight ${ }^{4}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All races ${ }^{2}$ | White | Black | All races ${ }^{2}$ | White | Black | All races ${ }^{2}$ | White | Black |
| 1996 | 11.0 | 9.8 | 17.4 | 7.4 | 6.3 | 13.0 | 1.37 | 1.09 | 2.99 |
| 1995 | 11.0 | 9.7 | 17.7 | 7.3 | 6.2 | 13.1 | 1.35 | 1.06 | 2.97 |
| 1994 | 11.0 | 9.6 | 18.1 | 7.3 | 6.1 | 13.2 | 1.33 | 1.02 | 2.96 |
| 1993 | 11.0 | 9.5 | 18.5 | 7.2 | 6.0 | 13.3 | 1.33 | 1.01 | 2.96 |
| 1992 | 10.7 | 9.1 | 18.4 | 7.1 | 5.8 | 13.3 | 1.29 | 0.96 | 2.96 |
| 1991 | 10.8 | 9.1 | 18.9 | 7.1 | 5.8 | 13.6 | 1.29 | 0.96 | 2.96 |
| 1990 | 10.6 | 8.9 | 18.8 | 7.0 | 5.7 | 13.3 | 1.27 | 0.95 | 2.92 |
| 1989 | 10.6 | 8.8 | 18.9 | 7.0 | 5.7 | 13.5 | 1.28 | 0.95 | 2.95 |
| 1988 | 10.2 | 8.5 | 18.7 | 6.9 | 5.7 | 13.3 | 1.24 | 0.93 | 2.86 |
| 1987 | 10.2 | 8.5 | 18.4 | 6.9 | 5.7 | 13.0 | 1.24 | 0.94 | 2.79 |
| 1986 | 10.0 | 8.4 | 18.0 | 6.8 | 5.7 | 12.8 | 1.21 | 0.93 | 2.73 |
| 1985 | 9.8 | 8.2 | 17.8 | 6.8 | 5.7 | 12.6 | 1.21 | 0.93 | 2.71 |
| 19845 | 9.4 | 7.9 | 17.1 | 6.7 | 5.6 | 12.6 | 1.19 | 0.93 | 2.60 |
| 19835 | 9.6 | 8.0 | 17.7 | 6.8 | 5.7 | 12.8 | 1.19 | 0.92 | 2.60 |
| 19825 | 9.5 | 8.0 | 17.4 | 6.8 | 5.6 | 12.6 | 1.18 | 0.91 | 2.56 |
| 19815 | 9.4 | 7.9 | 17.3 | 6.8 | 5.7 | 12.7 | 1.16 | 0.91 | 2.52 |

1 Births of less than 37 completed weeks gestation.
2 Includes races other than white and black.
3 Less than 2,500 grams ( 5 lb .8 oz ).
4 Less than 1,500 grams ( 3 lb .4 oz ).
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.
NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

Table 45. Number and percent low birthweight and number of live births by birthweight, by age and race and Hispanic origin of mother: United States, 1996

| Age and race and Hispanic origin of mother | Low birthweight ${ }^{1}$ |  | Birthweight ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Total | Less than 500 grams | $\begin{gathered} 500- \\ 999 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 1,000- \\ 1,499 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 1,500- \\ 1,999 \\ \text { grams } \end{gathered}$ | $\begin{aligned} & 2,000- \\ & \text { 2,499 } \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 2,500- \\ & 2,999 \\ & \text { grams } \end{aligned}$ | 3,0003,499 grams | $\begin{aligned} & 3,500- \\ & 3,999 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 4,000- \\ & 4,499 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 4,500- \\ & 4,999 \\ & \text { grams } \end{aligned}$ | 5,000grams or more | Not stated |


| All races ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All ages ......................... | 287,230 | 7.4 | 3,891,494 | 5,462 | 21,094 | 26,869 | 55,943 | 177,862 | 639,110 | 1,434,698 | 1,127,294 | 336,514 | 55,558 | 6,268 | 4,822 |
| Under 15 years ..... | 1,422 | 12.8 | 11,148 | 34 | 157 | 161 | 289 | 781 | 2,903 | 4,367 | 2,056 | 350 | 27 | 3 | 20 |
| 15-19 years .................... | 45,667 | 9.3 | 491,577 | 839 | 3,426 | 4,201 | 8,539 | 28,662 | 105,280 | 196,839 | 115,186 | 24,728 | 3,028 | 230 | 619 |
| 15 years ...................... | 3,196 | 11.2 | 28,540 | 64 | 270 | 318 | 618 | 1,926 | 6,778 | 11,537 | 5,764 | 1,098 | 120 | 6 | 41 |
| 16 years ....................... | 6,037 | 10.0 | 60,287 | 111 | 498 | 603 | 1,125 | 3,700 | 13,835 | 24,331 | 13,150 | 2,595 | 243 | 21 | 75 |
| 17 years ..... | 9,374 | 9.7 | 96,894 | 163 | 674 | 852 | 1,747 | 5,938 | 21,218 | 39,155 | 21,836 | 4,584 | 557 | 36 | 134 |
| 18 years ...... | 12,506 | 9.3 | 135,059 | 244 | 897 | 1,139 | 2,401 | 7,825 | 28,870 | 53,945 | 32,024 | 6,689 | 803 | 69 | 153 |
| 19 years ....... | 14,554 | 8.5 | 170,797 | 257 | 1,087 | 1,289 | 2,648 | 9,273 | 34,579 | 67,871 | 42,412 | 9,762 | 1,305 | 98 | 216 |
| 20-24 years | 69,809 | 7.4 | 945,210 | 1,389 | 4,937 | 6,125 | 12,973 | 44,385 | 170,289 | 365,392 | 258,783 | 68,692 | 10,091 | 995 | 1,159 |
| 25-29 years | 69,499 | 6.5 | 1,071,287 | 1,351 | 5,253 | 6,401 | 13,315 | 43,179 | 161,557 | 392,935 | 327,639 | 100,223 | 16,379 | 1,856 | 1,199 |
| 30-34 years | 61,331 | 6.8 | 897,913 | 1,126 | 4,422 | 5,793 | 12,485 | 37,505 | 127,695 | 315,106 | 281,123 | 93,262 | 16,403 | 1,877 | 1,116 |
| 35-39 years .................... | 32,268 | 8.1 | 399,510 | 581 | 2,391 | 3,374 | 6,762 | 19,160 | 59,530 | 135,479 | 121,067 | 41,418 | 8,127 | 1,062 | 559 |
| 40-44 years .................... | 6,782 | 9.5 | 71,804 | 137 | 480 | 765 | 1,462 | 3,938 | 11,331 | 23,611 | 20,670 | 7,588 | 1,452 | 228 | 142 |
| 45-49 years .................... | 452 | 14.9 | 3,045 | 5 | 28 | 49 | 118 | 252 | 525 | 969 | 770 | 253 | 51 | 17 | 8 |
| White, total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All ages ......................... | 195,819 | 6.3 | 3,093,057 | 3,006 | 12,785 | 17,782 | 38,421 | 123,825 | 458,830 | 1,127,144 | 956,042 | 296,883 | 49,494 | 5,415 | 3,430 |
| Under 15 years ................ | 579 | 10.5 | 5,526 | 12 | 63 | 69 | 112 | 323 | 1,264 | 2,248 | 1,173 | 234 | 15 | 3 | 10 |
| 15-19 years .................... | 27,238 | 7.9 | 344,685 | 432 | 1,902 | 2,392 | 5,123 | 17,389 | 66,645 | 138,613 | 88,942 | 20,194 | 2,498 | 188 | 367 |
| 15 years ...................... | 1,634 | 9.6 | 16,978 | 35 | 130 | 162 | 333 | 974 | 3,478 | 6,960 | 3,967 | 828 | 90 | 3 | 18 |
| 16 years ..... | 3,390 | 8.6 | 39,401 | 62 | 274 | 323 | 627 | 2,104 | 8,090 | 16,000 | 9,623 | 2,047 | 196 | 17 | 38 |
| 17 years ...... | 5,489 | 8.2 | 66,997 | 72 | 382 | 500 | 1,023 | 3,512 | 13,259 | 27,317 | 16,627 | 3,733 | 462 | 32 | 78 |
| 18 years ...................... | 7,614 | 7.9 | 96,246 | 125 | 512 | 663 | 1,497 | 4,817 | 18,680 | 38,628 | 25,048 | 5,461 | 656 | 57 | 102 |
| 19 years ....................... | 9,111 | 7.3 | 125,063 | 138 | 604 | 744 | 1,643 | 5,982 | 23,138 | 49,708 | 33,677 | 8,125 | 1,094 | 79 | 131 |
| 20-24 years .................... | 45,667 | 6.3 | 726,669 | 715 | 2,785 | 3,873 | 8,574 | 29,720 | 119,256 | 279,281 | 213,094 | 59,009 | 8,748 | 836 | 778 |
| 25-29 years .................... | 49,346 | 5.6 | 878,449 | 766 | 3,299 | 4,399 | 9,460 | 31,422 | 120,483 | 318,176 | 283,770 | 89,498 | 14,692 | 1,610 | 874 |
| 30-34 years .................... | 44,550 | 6.0 | 747,436 | 669 | 2,843 | 4,154 | 9,117 | 27,767 | 97,137 | 258,637 | 245,648 | 84,082 | 14,877 | 1,647 | 858 |
| 35-39 years .................... | 23,305 | 7.1 | 329,782 | 325 | 1,575 | 2,323 | 4,921 | 14,161 | 45,186 | 110,495 | 105,127 | 36,992 | 7,337 | 919 | 421 |
| 40-44 years ..... | 4,764 | 8.2 | 58,062 | 83 | 296 | 525 | 1,022 | 2,838 | 8,452 | 18,932 | 17,660 | 6,659 | 1,284 | 196 | 115 |
| 45-49 years .................... | 370 | 15.2 | 2,448 | 4 | 22 | 47 | 92 | 205 | 407 | 762 | 628 | 215 | 43 | 16 | 7 |
| White, non-Hispanic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All ages ......................... | 149,839 | 6.4 | 2,358,989 | 2,235 | 9,609 | 13,521 | 29,786 | 94,688 | 338,305 | 839,320 | 745,169 | 239,174 | 40,507 | 4,333 | 2,342 |
| Under 15 years ................ | 285 | 11.3 | 2,532 | 5 | 36 | 33 | 63 | 148 | 553 | 950 | 589 | 136 | 12 | 1 | 6 |
| 15-19 years .................... | 18,257 | 8.1 | 225,197 | 318 | 1,305 | 1,597 | 3,463 | 11,574 | 41,780 | 87,590 | 60,637 | 14,630 | 1,927 | 145 | 231 |
| 15 years ...................... | 863 | 9.5 | 9,071 | 26 | 80 | 82 | 173 | 502 | 1,782 | 3,532 | 2,294 | 528 | 61 | 2 | 9 |
| 16 years... | 2,063 | 8.9 | 23,312 | 46 | 174 | 193 | 385 | 1,265 | 4,477 | 9,122 | 6,065 | 1,412 | 139 | 13 | 21 |
| 17 years ... | 3,564 | 8.4 | 42,686 | 55 | 259 | 338 | 682 | 2,230 | 8,104 | 16,806 | 11,130 | 2,661 | 345 | 24 | 52 |
| 18 years ...................... | 5,240 | 8.2 | 64,290 | 91 | 357 | 437 | 1,041 | 3,314 | 12,123 | 24,964 | 17,413 | 3,933 | 515 | 43 | 59 |
| 19 years ...................... | 6,527 | 7.6 | 85,838 | 100 | 435 | 547 | 1,182 | 4,263 | 15,294 | 33,166 | 23,735 | 6,096 | 867 | 63 | 90 |
| 20-24 years .................... | 32,675 | 6.4 | 508,056 | 520 | 1,989 | 2,769 | 6,298 | 21,099 | 81,124 | 189,813 | 152,221 | 44,286 | 6,777 | 642 | 518 |
| 25-29 years .................... | 38,834 | 5.7 | 683,376 | 568 | 2,542 | 3,493 | 7,505 | 24,726 | 91,692 | 242,996 | 223,642 | 72,242 | 12,036 | 1,308 | 626 |
| 30-34 years .................... | 36,465 | 5.9 | 616,224 | 512 | 2,273 | 3,340 | 7,482 | 22,858 | 78,751 | 210,923 | 204,792 | 70,847 | 12,542 | 1,321 | 583 |
| 35-39 years .................... | 19,184 | 7.0 | 274,431 | 250 | 1,218 | 1,843 | 4,081 | 11,792 | 37,258 | 91,179 | 88,310 | 31,336 | 6,111 | 756 | 297 |
| 40-44 years .................... | 3,816 | 8.1 | 47,215 | 61 | 224 | 400 | 814 | 2,317 | 6,820 | 15,267 | 14,496 | 5,525 | 1,064 | 151 | 76 |
| 45-49 years .................... | 323 | 16.5 | 1,958 | 1 | 22 | 46 | 80 | 174 | 327 | 602 | 482 | 172 | 38 | 9 | 5 |

Table 45. Number and percent low birthweight and number of live births by birthweight, by age and race and Hispanic origin of mother: United States, 1996--Con.

| Age and race and Hispanic origin of mother | Low birthweight 1 |  | Birthweight ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Total | Less than 500 grams | $\begin{gathered} 500- \\ 99 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 1,000- \\ 1,499 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 1,500- \\ 1,999 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 2,000- \\ 2,499 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 2,500- \\ 2,999 \\ \text { grams } \end{gathered}$ | $\begin{gathered} 3,000- \\ 3,499 \\ \text { grams } \end{gathered}$ | $\begin{aligned} & \text { 3,500- } \\ & 3,999 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 4,000- \\ & 4,499 \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & \text { 4,500- } \\ & \text { 4,999 } \\ & \text { grams } \end{aligned}$ | $\begin{aligned} & 5,000- \\ & \text { grams } \\ & \text { or more } \end{aligned}$ | Not stated |


| Black, total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All ages ......................... | 77,255 | 13.0 | 594,781 | 2,273 | 7,536 | 7,949 | 14,937 | 44,560 | 138,659 | 224,383 | 121,528 | 27,199 | 4,140 | 565 | 1,052 |
| Under 15 years ................ | 797 | 15.4 | 5,193 | 21 | 92 | 80 | 165 | 439 | 1,519 | 1,961 | 799 | 99 | 9 |  | 9 |
| 15-19 years .................... | 17,104 | 13.1 | 130,596 | 392 | 1,428 | 1,685 | 3,155 | 10,444 | 34,929 | 51,621 | 22,615 | 3,695 | 400 | 30 | 202 |
| 15 years ...................... | 1,454 | 13.9 | 10,498 | 28 | 128 | 146 | 263 | 889 | 3,050 | 4,128 | 1,588 | 232 | 22 | 2 | 22 |
| 16 years ....................... | 2,465 | 13.2 | 18,753 | 45 | 209 | 267 | 458 | 1,486 | 5,277 | 7,448 | 3,066 | 438 | 34 | 1 | 24 |
| 17 years ....................... | 3,630 | 13.6 | 26,775 | 85 | 272 | 331 | 672 | 2,270 | 7,220 | 10,577 | 4,506 | 715 | 75 | 4 | 48 |
| 18 years ...................... | 4,511 | 13.1 | 34,394 | 116 | 367 | 438 | 829 | 2,761 | 9,188 | 13,573 | 5,967 | 997 | 107 | 11 | 40 |
| 19 years ....................... | 5,044 | 12.6 | 40,176 | 118 | 452 | 503 | 933 | 3,038 | 10,194 | 15,895 | 7,488 | 1,313 | 162 | 12 | 68 |
| 20-24 years .................... | 21,345 | 11.9 | 179,361 | 636 | 2,021 | 2,070 | 3,932 | 12,686 | 42,556 | 70,315 | 36,310 | 7,398 | 1,017 | 119 | 301 |
| 25-29 years .................... | 16,338 | 12.3 | 133,204 | 545 | 1,764 | 1,704 | 3,203 | 9,122 | 28,699 | 49,859 | 29,442 | 7,320 | 1,140 | 167 | 239 |
| 30-34 years .................... | 13,139 | 14.0 | 94,295 | 415 | 1,383 | 1,369 | 2,685 | 7,287 | 19,676 | 33,326 | 21,275 | 5,572 | 978 | 142 | 187 |
| 35-39 years .................... | 6,991 | 16.0 | 43,716 | 218 | 698 | 850 | 1,472 | 3,753 | 9,453 | 14,647 | 9,345 | 2,605 | 494 | 86 | 95 |
| 40-44 years .................... | 1,488 | 18.4 | 8,124 | 46 | 144 | 189 | 309 | 800 | 1,766 | 2,560 | 1,676 | 495 | 100 | 21 | 18 |
| 45-49 years .................... | 53 | 18.2 | 292 | - | 6 | 2 | 16 | 29 | 61 | 94 | 66 | 15 | 2 | - | 1 |
| Black, non-Hispanic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All ages ........................... | 75,706 | 13.1 | 578,099 | 2,221 | 7,387 | 7,811 | 14,660 | 43,627 | 135,480 | 218,044 | 117,360 | 26,118 | 3,967 | 544 | 880 |
| Under 15 years ................ | 786 | 15.5 | 5,084 | 21 | 91 | 80 | 162 | 432 | 1,490 | 1,917 | 778 | 96 | 9 | - | 8 |
| 15-19 years .................... | 16,817 | 13.2 | 127,616 | 385 | 1,407 | 1,661 | 3,105 | 10,259 | 34,254 | 50,364 | 21,980 | 3,603 | 388 | 29 | 181 |
| 15 years ...................... | 1,440 | 14.0 | 10,301 | 28 | 127 | 145 | 263 | 877 | 2,990 | 4,048 | 1,552 | 228 | 21 | 2 | 20 |
| 16 years ...................... | 2,430 | 13.2 | 18,367 | 45 | 207 | 264 | 452 | 1,462 | 5,190 | 7,278 | 2,985 | 429 | 33 | 1 | 21 |
| 17 years ...... | 3,559 | 13.6 | 26,134 | 83 | 269 | 324 | 660 | 2,223 | 7,091 | 10,288 | 4,377 | 701 | 71 | 4 | 43 |
| 18 years ...................... | 4,431 | 13.2 | 33,616 | 112 | 364 | 429 | 811 | 2,715 | 9,006 | 13,271 | 5,792 | 965 | 104 | 10 | 37 |
| 19 years ....................... | 4,957 | 12.7 | 39,198 | 117 | 440 | 499 | 919 | 2,982 | 9,977 | 15,479 | 7,274 | 1,280 | 159 | 12 | 60 |
| 20-24 years .................... | 20,973 | 12.0 | 174,958 | 624 | 1,987 | 2,040 | 3,865 | 12,457 | 41,683 | 68,566 | 35,254 | 7,136 | 973 | 116 | 257 |
| 25-29 years .................... | 15,987 | 12.4 | 129,002 | 528 | 1,728 | 1,673 | 3,154 | 8,904 | 27,957 | 48,296 | 28,340 | 6,989 | 1,088 | 160 | 185 |
| 30-34 years .................... | 12,824 | 14.1 | 91,050 | 402 | 1,351 | 1,337 | 2,622 | 7,112 | 19,132 | 32,198 | 20,365 | 5,302 | '942 | 136 | 151 |
| 35-39 years .................... | 6,818 | 16.2 | 42,279 | 217 | 679 | 830 | 1,437 | 3,655 | 9,196 | 14,146 | 8,978 | 2,505 | 469 | 83 | 84 |
| 40-44 years .................... | 1,451 | 18.6 | 7,835 | 44 | 138 | 188 | 301 | 780 | 1,709 | 2,472 | 1,602 | 472 | 96 | 20 | 13 |
| 45-49 years .................... | 50 | 18.2 | 275 | - | 6 | 2 | 14 | 28 | 59 | 85 | 63 | 15 | 2 | - | 1 |
| Hispanic 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All ages ......................... | 44,012 | 6.3 | 701,339 | 694 | 3,030 | 4,105 | 8,196 | 27,987 | 116,713 | 276,870 | 199,955 | 53,916 | 8,315 | 1,028 | 530 |
| Under 15 years ................ | 301 | 9.9 | 3,056 | 7 | 28 | 36 | 51 | 179 | 731 | 1,319 | 602 | 96 | 3 | 2 | 2 |
| 15-19 years .................... | 8,958 | 7.5 | 118,878 | 109 | 601 | 797 | 1,639 | 5,812 | 24,830 | 50,914 | 28,046 | 5,426 | 559 | 46 | 99 |
| 15 years ...................... | 779 | 9.8 | 7,971 | 9 | 49 | 82 | 161 | 478 | 1,733 | 3,446 | 1,683 | 295 | 28 | 1 | 6 |
| 16 years ...................... | 1,332 | 8.3 | 16,139 | 14 | 99 | 127 | 242 | 850 | 3,619 | 6,903 | 3,577 | 632 | 57 | 5 | 14 |
| 17 years ...................... | 1,929 | 8.0 | 24,234 | 18 | 128 | 165 | 336 | 1,282 | 5,167 | 10,505 | 5,449 | 1,040 | 115 | 8 | 21 |
| 18 years ...................... | 2,355 | 7.4 | 31,711 | 33 | 151 | 227 | 451 | 1,493 | 6,537 | 13,610 | 7,538 | 1,489 | 138 | 15 | 29 |
| 19 years ...................... | 2,563 | 6.6 | 38,823 | 35 | 174 | 196 | 449 | 1,709 | 7,774 | 16,450 | 9,799 | 1,970 | 221 | 17 | 29 |
| 20-24 years .................... | 12,668 | 5.9 | 214,173 | 172 | 779 | 1,076 | 2,216 | 8,425 | 37,657 | 87,969 | 59,377 | 14,251 | 1,898 | 188 | 165 |
| 25-29 years .................... | 9,966 | 5.4 | 185,478 | 180 | 720 | 868 | 1,831 | 6,367 | 27,673 | 71,895 | 56,880 | 16,180 | 2,467 | 287 | 130 |
| 30-34 years .................... | 7,439 | 6.2 | 119,690 | 150 | 507 | 766 | 1,502 | 4,514 | 17,025 | 43,840 | 37,000 | 11,884 | 2,115 | 306 | 81 |
| 35-39 years .................... | 3,762 | 7.6 | 49,812 | 54 | 325 | 449 | 752 | 2,182 | 7,242 | 17,467 | 15,053 | 5,028 | 1,072 | 148 | 40 |
| 40-44 years .................... | 881 | 9.0 | 9,819 | 19 | 70 | 112 | 196 | 484 | 1,484 | 3,323 | 2,864 | 1,014 | 197 | 44 | 12 |
| 45-49 years .................... | 37 | 8.6 | 433 | 3 | - | 1 | 9 | 24 | 71 | 143 | 133 | 37 | 4 | 7 | 1 |

[^41]Table 46. Number and percent of births of low birthweight by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
[By place of residence. Low birthweight is birthweight of less than 2,500 grams (5 lb 8 oz )]

| State | Number |  |  |  |  |  | Percent |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | White |  | Black |  | Hispanic ${ }^{2}$ | $\begin{aligned} & \text { All } \\ & \text { races } 1 \end{aligned}$ | White |  | Black |  | Hispanic ${ }^{2}$ |
|  | $\begin{aligned} & \text { All } \\ & \text { races } 1 \end{aligned}$ | Total | NonHispanic | Total | NonHispanic |  |  | Total | NonHispanic | Total | NonHispanic |  |
| United States ${ }^{3}$............ | 287,230 | 195,819 | 149,839 | 77,255 | 75,706 | 44,012 | 7.4 | 6.3 | 6.4 | 13.0 | 13.1 | 6.3 |
| Alabama ...................... | 5,614 | 2,893 | 2,837 | 2,668 | 2,665 | 60 | 9.3 | 7.2 | 7.2 | 13.6 | 13.7 | 6.4 |
| Alaska ......................... | 549 | 339 | 318 | 51 | 48 | 39 | 5.5 | 5.0 | 5.1 | 12.1 | 12.4 | 6.0 |
| Arizona ....................... | 5,039 | 4,287 | 2,552 | 288 | 277 | 1,767 | 6.7 | 6.5 | 6.6 | 12.4 | 12.4 | 6.3 |
| Arkansas ..................... | 3,077 | 1,959 | 1,886 | 1,072 | 1,066 | 77 | 8.5 | 7.0 | 7.1 | 13.6 | 13.6 | 5.9 |
| California ..................... | 32,729 | 24,044 | 10,307 | 4,544 | 4,418 | 13,820 | 6.1 | 5.5 | 5.6 | 11.8 | 11.9 | 5.4 |
| Colorado ...................... | 4,906 | 4,334 | 3,253 | 387 | 370 | 1,064 | 8.8 | 8.5 | 8.4 | 15.0 | 15.1 | 8.6 |
| Connecticut ................. | 3,203 | 2,417 | 1,792 | 674 | 633 | 494 | 7.2 | 6.4 | 5.9 | 12.9 | 13.1 | 8.7 |
| Delaware | 863 | 509 | 461 | 334 | 331 | 50 | 8.5 | 6.7 | 6.7 | 14.1 | 14.1 | 7.6 |
| District of Columbia ....... | 1,196 | 148 | 88 | 1,034 | 1,026 | 62 | 14.3 | 7.2 | 7.1 | 16.7 | 16.7 | 8.0 |
| Florida ........................ | 14,868 | 9,348 | 7,159 | 5,171 | 5,067 | 2,281 | 7.9 | 6.6 | 6.6 | 12.2 | 12.3 | 6.4 |
| Georgia ....................... | 9,729 | 4,692 | 4,309 | 4,887 | 4,853 | 339 | 8.5 | 6.4 | 6.5 | 12.7 | 12.7 | 5.4 |
| Hawaii ......................... | 1,330 | 234 | 200 | 44 | 41 | 131 | 7.3 | 4.9 | 4.9 | 8.6 | 8.4 | 6.1 |
| Idaho | 1,071 | 1,023 | 863 | 3 | 3 | 146 | 5.8 | 5.7 | 5.5 | * | * | 6.7 |
| Illinois | 14,617 | 8,842 | 6,940 | 5,246 | 5,221 | 1,919 | 8.0 | 6.3 | 6.4 | 14.5 | 14.5 | 5.8 |
| Indiana ........................ | 6,327 | 5,040 | 4,820 | 1,217 | 1,210 | 208 | 7.6 | 6.9 | 6.9 | 13.9 | 13.9 | 7.1 |
| lowa | 2,359 | 2,125 | 2,003 | 154 | 145 | 88 | 6.4 | 6.0 | 6.0 | 14.7 | 14.8 | 5.9 |
| Kansas ....................... | 2,545 | 2,107 | 1,896 | 370 | 370 | 194 | 6.9 | 6.4 | 6.5 | 13.4 | 13.5 | 6.0 |
| Kentucky ...................... | 4,144 | 3,499 | 3,456 | 616 | 613 | 41 | 7.9 | 7.4 | 7.4 | 12.7 | 12.7 | 7.4 |
| Louisiana ..................... | 6,440 | 2,561 | 2,500 | 3,777 | 3,769 | 66 | 9.9 | 6.9 | 6.9 | 14.3 | 14.3 | 5.2 |
| Maine .......................... | 809 | 786 | 766 | 12 | 12 | 6 | 5.9 | 5.8 | 5.9 | * | * |  |
| Maryland ...................... | 6,158 | 2,914 | 2,692 | 3,064 | 3,018 | 201 | 8.6 | 6.3 | 6.4 | 13.4 | 13.4 | 6.2 |
| Massachusetts ............. | 5,069 | 4,082 | 3,510 | 750 | 655 | 613 | 6.4 | 6.0 | 5.7 | 10.4 | 11.2 | 8.0 |
| Michigan ...................... | 10,187 | 6,717 | 6,044 | 3,268 | 3,198 | 306 | 7.7 | 6.4 | 6.4 | 13.6 | 13.5 | 6.1 |
| Minnesota .................... | 3,707 | 3,094 | 2,866 | 373 | 370 | 137 | 5.8 | 5.4 | 5.7 | 12.0 | 12.1 | 5.9 |
| Mississippi ................... | 4,047 | 1,571 | 1,555 | 2,440 | 2,439 | 17 | 9.9 | 7.3 | 7.4 | 12.9 | 12.9 |  |
| Missouri ...................... | 5,540 | 4,012 | 3,911 | 1,428 | 1,425 | 96 | 7.5 | 6.5 | 6.5 | 12.8 | 12.9 | 6.3 |
| Montana ...................... | 694 | 593 | 544 | 5 | 5 | 24 | 6.4 | 6.2 | 6.1 | * | * | 8.1 |
| Nebraska | 1,462 | 1,287 | 1,150 | 129 | 128 | 119 | 6.3 | 6.0 | 6.0 | 10.7 | 10.7 | 6.4 |
| Nevada ....................... | 1,960 | 1,528 | 1,100 | 276 | 271 | 430 | 7.5 | 6.8 | 7.2 | 14.0 | 14.0 | 6.2 |
| New Hampshire ............ | 695 | 673 | 631 | 8 | 7 | 15 | 4.8 | 4.7 | 4.6 | * | * |  |
| New Jersey .................. | 8,741 | 5,499 | 4,129 | 2,677 | 2,592 | 1,380 | 7.7 | 6.4 | 6.2 | 13.1 | 13.5 | 7.1 |
| New Mexico ................. | 2,046 | 1,741 | 732 | 63 | 58 | 1,021 | 7.5 | 7.5 | 7.3 | 13.5 | 13.3 | 7.7 |
| New York | 20,231 | 12,487 | 7,211 | 6,575 | 5,915 | 3,970 | 7.7 | 6.5 | 6.1 | 11.9 | 12.3 | 7.5 |
| North Carolina .............. | 9,115 | 5,022 | 4,702 | 3,767 | 3,755 | 335 | 8.7 | 6.8 | 6.9 | 13.9 | 13.9 | 6.2 |
| North Dakota ................ | 479 | 423 | 411 | 9 | 8 | 9 | 5.7 | 5.7 | 5.8 | * | * |  |
| Ohio ............................ | 11,387 | 8,326 | 8,111 | 2,901 | 2,891 | 205 | 7.5 | 6.5 | 6.5 | 13.2 | 13.2 | 6.8 |
| Oklahoma .................... | 3,372 | 2,487 | 2,299 | 582 | 579 | 192 | 7.4 | 6.8 | 6.8 | 13.1 | 13.1 | 6.8 |
| Oregon ....................... | 2,325 | 2,099 | 1,776 | 100 | 100 | 323 | 5.3 | 5.2 | 5.1 | 11.2 | 11.5 | 5.9 |
| Pennsylvania ................ | 11,153 | 8,028 | 7,397 | 2,891 | 2,850 | 638 | 7.5 | 6.5 | 6.3 | 14.1 | 14.1 | 9.5 |
| Rhode Island ................ | 869 | 723 | 502 | 112 | 90 | 122 | 6.9 | 6.5 | 6.1 | 12.0 | 12.1 | 7.4 |
| South Carolina .............. | 4,698 | 2,263 | 2,202 | 2,374 | 2,370 | 62 | 9.2 | 7.0 | 7.0 | 13.2 | 13.2 | 6.4 |
| South Dakota ................ | 611 | 506 | 495 | 8 | 8 | 11 | 5.8 | 5.8 | 5.8 | * | * |  |
| Tennessee ................... | 6,515 | 4,148 | 4,047 | 2,272 | 2,268 | 99 | 8.8 | 7.3 | 7.3 | 14.2 | 14.2 | 7.0 |
| Texas .......................... | 23,782 | 18,326 | 8,934 | 4,803 | 4,770 | 9,392 | 7.2 | 6.5 | 6.4 | 12.4 | 12.4 | 6.6 |
| Utah ............................ | 2,790 | 2,625 | 2,299 | 39 | 38 | 322 | 6.6 | 6.6 | 6.4 | 12.0 | 15.1 | 8.2 |
| Vermont ....................... | 417 | 412 | 383 | 1 | 1 | 4 | 6.2 | 6.2 | 6.0 | + | , |  |
| Virginia ........................ | 7,056 | 4,205 | 3,838 | 2,546 | 2,538 | 369 | 7.7 | 6.3 | 6.2 | 12.2 | 12.2 | 7.2 |
| Washington ................. | 4,327 | 3,572 | 2,951 | 333 | 313 | 489 | 5.6 | 5.3 | 5.2 | 10.8 | 10.9 | 5.5 |
| West Virginia ............... | 1,653 | 1,554 | 1,550 | 92 | 92 | 6 | 8.0 | 7.8 | 7.8 | 12.4 | 12.5 |  |
| Wisconsin .................... | 4,200 | 3,219 | 3,019 | 814 | 810 | 203 | 6.3 | 5.6 | 5.5 | 12.7 | 12.7 | 6.5 |
| Wyoming .................... | 529 | 496 | 442 | 6 | 6 | 50 | 8.4 | 8.3 | 8.1 | * | * | 9.6 |
| Puerto Rico ................... | 6,569 | 6,030 | --- | 534 | --- | -- | 10.4 | 10.4 | --- | 10.7 | --- | --- |
| Virgin Islands ................ | 142 | 19 | 2 | 119 | 103 | 16 | 7.5 | * | * | 7.9 | 7.6 | * |
| Guam .......................... | 304 | 11 | 10 | 3 | 3 | 1 | 7.2 | * | * | * | * |  |

[^42]Table 47. Number and percent of births of very low birthweight by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996
[By place of residence. Very low birthweight is birthweight of less than 1,500 grams ( 3 lb 4 oz )]

| State | Number |  |  |  |  |  | Percent |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | White |  | Black |  | Hispanic ${ }^{2}$ | $\begin{gathered} \text { All } \\ \text { races } 1 \end{gathered}$ | White |  | Black |  | Hispanic ${ }^{2}$ |
|  | $\begin{gathered} \text { All } \\ \text { races } 1 \end{gathered}$ | Total | NonHispanic | Total | NonHispanic |  |  | Total | NonHispanic | Total | NonHispanic |  |
| United States ${ }^{3}$............ | 53,425 | 33,573 | 25,365 | 17,758 | 17,419 | 7,829 | 1.4 | 1.1 | 1.1 | 3.0 | 3.0 | 1.1 |
| Alabama ...................... | 1,166 | 536 | 520 | 623 | 621 | 18 | 1.9 | 1.3 | 1.3 | 3.2 | 3.2 | * |
| Alaska ......................... | 98 | 52 | 46 | 15 | 13 | 14 | 1.0 | 0.8 | 0.7 | * | * | * |
| Arizona ....................... | 842 | 709 | 407 | 68 | 67 | 306 | 1.1 | 1.1 | 1.1 | 2.9 | 3.0 | 1.1 |
| Arkansas ..................... | 596 | 350 | 339 | 238 | 235 | 13 | 1.6 | 1.3 | 1.3 | 3.0 | 3.0 | * |
| California ..................... | 5,813 | 4,238 | 1,675 | 971 | 944 | 2,571 | 1.1 | 1.0 | 0.9 | 2.5 | 2.5 | 1.0 |
| Colorado ...................... | 715 | 634 | 466 | 61 | 58 | 159 | 1.3 | 1.2 | 1.2 | 2.4 | 2.4 | 1.3 |
| Connecticut ................. | 653 | 459 | 323 | 171 | 160 | 105 | 1.5 | 1.2 | 1.1 | 3.3 | 3.3 | 1.9 |
| Delaware ..................... | 183 | 99 | 92 | 79 | 79 | 7 | 1.8 | 1.3 | 1.3 | 3.3 | 3.4 |  |
| District of Columbia ....... | 296 | 20 | 15 | 274 | 271 | 7 | 3.5 | 1.0 | * | 4.4 | 4.4 | * |
| Florida ........................ | 2,831 | 1,606 | 1,210 | 1,172 | 1,148 | 413 | 1.5 | 1.1 | 1.1 | 2.8 | 2.8 | 1.2 |
| Georgia ........................ | 1,915 | 797 | 725 | 1,099 | 1,094 | 63 | 1.7 | 1.1 | 1.1 | 2.9 | 2.9 | 1.0 |
| Hawaii ......................... | 196 | 45 | 42 | 9 | 8 | 17 | 1.1 | 0.9 | 1.0 |  |  | * |
| Idaho ......................... | 158 | 148 | 122 | 1 | 1 | 21 | 0.8 | 0.8 | 0.8 | * | * | 1.0 |
| Illinois ......................... | 2,759 | 1,545 | 1,219 | 1,141 | 1,136 | 330 | 1.5 | 1.1 | 1.1 | 3.2 | 3.2 | 1.0 |
| Indiana ......................... | 1,168 | 890 | 834 | 270 | 270 | 50 | 1.4 | 1.2 | 1.2 | 3.1 | 3.1 | 1.7 |
| lowa .. | 449 | 396 | 368 | 40 | 39 | 15 | 1.2 | 1.1 | 1.1 | 3.8 | 4.0 | * |
| Kansas ....................... | 508 | 402 | 363 | 94 | 94 | 35 | 1.4 | 1.2 | 1.2 | 3.4 | 3.4 | 1.1 |
| Kentucky ...................... | 715 | 581 | 572 | 131 | 131 | 8 | 1.4 | 1.2 | 1.2 | 2.7 | 2.7 | * |
| Louisiana ..................... | 1,233 | 410 | 405 | 808 | 806 | 8 | 1.9 | 1.1 | 1.1 | 3.1 | 3.1 | * |
| Maine .......................... | 167 | 162 | 157 | 3 | 3 | 1 | 1.2 | 1.2 | 1.2 | * | * | * |
| Maryland ...................... | 1,357 | 511 | 462 | 816 | 808 | 44 | 1.9 | 1.1 | 1.1 | 3.6 | 3.6 | 1.4 |
| Massachusetts ............. | 907 | 693 | 585 | 181 | 164 | 105 | 1.1 | 1.0 | 0.9 | 2.5 | 2.8 | 1.4 |
| Michigan ...................... | 1,989 | 1,210 | 1,094 | 745 | 727 | 60 | 1.5 | 1.1 | 1.2 | 3.1 | 3.1 | 1.2 |
| Minnesota .................... | 706 | 571 | 536 | 89 | 87 | 30 | 1.1 | 1.0 | 1.1 | 2.9 | 2.9 | 1.3 |
| Mississippi ................... | 787 | 246 | 245 | 533 | 533 | 1 | 1.9 | 1.1 | 1.2 | 2.8 | 2.8 |  |
| Missouri ...................... | 944 | 631 | 608 | 302 | 302 | 22 | 1.3 | 1.0 | 1.0 | 2.7 | 2.7 | 1.5 |
| Montana ..................... | 121 | 105 | 90 | - | - | 6 | 1.1 | 1.1 | 1.0 | * | * |  |
| Nebraska ..................... | 290 | 255 | 227 | 31 | 31 | 26 | 1.2 | 1.2 | 1.2 | 2.6 | 2.6 | 1.4 |
| Nevada ........................ | 283 | 209 | 163 | 52 | 52 | 46 | 1.1 | 0.9 | 1.1 | 2.6 | 2.7 | 0.7 |
| New Hampshire ............ | 118 | 115 | 103 | - | - | 3 | 0.8 | 0.8 | 0.8 | 2.6 | . | * |
| New Jersey .................. | 1,765 | 1,016 | 755 | 673 | 656 | 253 | 1.5 | 1.2 | 1.1 | 3.3 | 3.4 | 1.3 |
| New Mexico .................. | 312 | 261 | 107 | 12 | 12 | 158 | 1.1 | 1.1 | 1.1 |  | * | 1.2 |
| New York ..................... | 3,923 | 2,130 | 1,172 | 1,630 | 1,486 | 729 | 1.5 | 1.1 | 1.0 | 2.9 | 3.1 | 1.4 |
| North Carolina .............. | 1,864 | 908 | 860 | 891 | 888 | 54 | 1.8 | 1.2 | 1.3 | 3.3 | 3.3 | 1.0 |
| North Dakota ............... | 73 | 62 | 59 | 2 | 1 | 2 | 0.9 | 0.8 | 0.8 | . | . | * |
| Ohio ............................ | 2,143 | 1,450 | 1,405 | 674 | 672 | 42 | 1.4 | 1.1 | 1.1 | 3.1 | 3.1 | 1.4 |
| Oklahoma ....................... | 518 | 333 | 313 | 137 | 136 | 21 | 1.1 | 0.9 | 0.9 | 3.1 | 3.1 | 0.7 |
| Oregon ........................ | 392 | 349 | 288 | 18 | 18 | 62 | 0.9 | 0.9 | 0.8 | * | * | 1.1 |
| Pennsylvania ................ | 2,070 | 1,390 | 1,280 | 650 | 637 | 114 | 1.4 | 1.1 | 1.1 | 3.2 | 3.2 | 1.7 |
| Rhode Island ................ | 129 | 98 | 64 | 27 | 22 | 21 | 1.0 | 0.9 | 0.8 | 2.9 | 3.0 | 1.3 |
| South Carolina .............. | 922 | 384 | 367 | 531 | 531 | 16 | 1.8 | 1.2 | 1.2 | 3.0 | 3.0 | * |
| South Dakota ................ | 101 | 79 | 79 | 2 | 2 | 1 | 1.0 | 0.9 | 0.9 | 3.0 | 3.0 | * |
| Tennessee ..................... | 1,255 | 712 | 701 | 531 | 531 | 11 | 1.7 | 1.3 | 1.3 | 3.3 | 3.3 | * |
| Texas .......................... | 4,121 | 3,019 | 1,452 | 1,011 | 1,004 | 1,571 | 1.2 | 1.1 | 1.0 | 2.6 | 2.6 | 1.1 |
| Utah ............................ | 457 | 417 | 363 | 12 | 12 | 53 | 1.1 | 1.0 | 1.0 | * | * | 1.3 |
| Vermont ....................... | 63 | 63 | 53 | - | - | 1 | 0.9 | 0.9 | 0.8 | * | * | * |
| Virginia ....................... | 1,418 | 726 | 657 | 651 | 646 | 70 | 1.5 | 1.1 | 1.1 | 3.1 | 3.1 | 1.4 |
| Washington ................. | 788 | 642 | 528 | 80 | 75 | 87 | 1.0 | 1.0 | 0.9 | 2.6 | 2.6 | 1.0 |
| West Virginia ................ | 253 | 233 | 232 | 18 | 18 | 2 | 1.2 | 1.2 | 1.2 | * | * | * |
| Wisconsin .................... | 829 | 612 | 563 | 190 | 189 | 49 | 1.2 | 1.1 | 1.0 | 3.0 | 3.0 | 1.6 |
| Wyoming ..................... | 66 | 64 | 54 | 1 | 1 | 8 | 1.1 | 1.1 | 1.0 |  |  |  |
| Puerto Rico .................. | 841 | 773 | --- | 67 | --- | --- | 1.3 | 1.3 | --- | 1.3 | --- | --- |
| Virgin Islands ............... | 39 | 3 | - | 35 | 27 | 4 | 2.0 | , | * | 2.3 | 2.0 | * |
| Guam .......................... | 32 | 2 | 1 | - | - | 1 | 0.8 | * | * | * | * | * |

[^43]Table 48. Live births with selected abnormal conditions of the newborn and rates by age of mother, by race of mother: United States, 1996
[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 | 3,891,494 | 4,240 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 70,766 |
| Birth injury ${ }^{3}$ | 3,457,526 | 10,676 | 3.2 | 3.1 | 3.2 | 3.4 | 3.1 | 2.9 | 2.7 | 71,053 |
| Fetal alcohol syndrome ${ }^{4}$ | 3,824,388 | 276 | 0.1 | * | 0.1 | 0.1 | 0.1 | 0.1 | * | 71,923 |
| Hyaline membrane disease/RDS ........................... | 3,891,494 | 25,266 | 6.6 | 7.9 | 6.8 | 6.3 | 6.0 | 6.5 | 6.7 | 70,766 |
| Meconium aspiration syndrome ............................ | 3,891,494 | 9,483 | 2.5 | 2.7 | 2.6 | 2.4 | 2.3 | 2.5 | 2.8 | 70,766 |
| Assisted ventilation less than 30 minutes 5 .............. | 3,768,538 | 77,028 | 20.9 | 21.6 | 20.0 | 20.5 | 20.9 | 22.5 | 24.4 | 78,493 |
| Assisted ventilation 30 minutes or longer ${ }^{5}$.............. | 3,768,538 | 31,996 | 8.7 | 10.5 | 8.7 | 8.1 | 8.0 | 8.9 | 10.9 | 78,493 |
| Seizures .......................................................... | 3,891,494 | 2,380 | 0.6 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.8 | 70,766 |
| White |  |  |  |  |  |  |  |  |  |  |
| Anemia | 3,093,062 | 3,101 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 56,048 |
| Birth injury ${ }^{3}$ | 2,720,759 | 9,011 | 3.4 | 3.6 | 3.5 | 3.6 | 3.2 | 3.0 | 2.8 | 57,240 |
| Fetal alcohol syndrome ${ }^{4}$ | 3,035,128 | 156 | 0.1 | * | 0.0 | 0.1 | 0.0 | 0.1 | * | 57,151 |
| Hyaline membrane disease/RDS ........................... | 3,093,062 | 20,349 | 6.7 | 8.1 | 6.9 | 6.5 | 6.1 | 6.5 | 6.7 | 56,048 |
| Meconium aspiration syndrome ............................ | 3,093,062 | 7,208 | 2.4 | 2.7 | 2.5 | 2.3 | 2.2 | 2.4 | 2.6 | 56,048 |
| Assisted ventilation less than 30 minutes 5 .............. | 3,023,488 | 61,757 | 20.9 | 21.1 | 19.7 | 20.6 | 21.0 | 22.7 | 24.8 | 62,637 |
| Assisted ventilation 30 minutes or longer ${ }^{5}$.............. | 3,023,488 | 24,616 | 8.3 | 10.2 | 8.3 | 7.8 | 7.7 | 8.5 | 10.5 | 62,637 |
| Seizures .......................................................... | 3,093,062 | 1,826 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 56,048 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Anemia | 594,782 | 914 | 1.6 | 1.4 | 1.4 | 1.7 | 1.6 | 1.8 | 2.4 | 10,838 |
| Birth injury ${ }^{3}$ | 547,344 | 934 | 1.7 | 1.8 | 1.7 | 1.8 | 1.7 | 1.7 | * | 9,999 |
| Fetal alcohol syndrome ${ }^{4}$ | 588,351 | 98 | 0.2 | * | * | 0.2 | 0.4 | * | * | 10,875 |
| Hyaline membrane disease/RDS ........................... | 594,782 | 4,178 | 7.2 | 7.6 | 7.0 | 6.9 | 6.7 | 8.1 | 8.0 | 10,838 |
| Meconium aspiration syndrome ............................ | 594,782 | 1,883 | 3.2 | 2.9 | 2.9 | 3.5 | 3.6 | 3.6 | 4.9 | 10,838 |
| Assisted ventilation less than 30 minutes ${ }^{5}$.............. | 554,031 | 12,026 | 22.2 | 22.6 | 21.3 | 21.2 | 22.8 | 25.2 | 25.4 | 11,327 |
| Assisted ventilation 30 minutes or longer ${ }^{5}$.............. | 554,031 | 6,085 | 11.2 | 11.2 | 10.3 | 11.2 | 11.7 | 13.1 | 17.1 | 11,327 |
| Seizures ........................................................... | 594,782 | 467 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | * | 10,838 |

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

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

Table 49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 1996
[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

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


| All races ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anencephalus | 3,864,266 | 486 | 12.8 | 14.1 | 12.0 | 13.0 | 13.3 | 12.0 |  | 56,424 |
| Spina bifida/Meningocele | 3,864,266 | 984 | 25.8 | 27.1 | 31.0 | 27.0 | 21.7 | 18.2 | * | 56,424 |
| Hydrocephalus | 3,864,266 | 1,047 | 27.5 | 33.6 | 28.6 | 26.1 | 24.5 | 22.5 | 56.1 | 56,424 |
| Microcephalus | 3,864,266 | 310 | 8.1 | 9.8 | 7.1 | 8.2 | 7.7 | 8.7 |  | 56,424 |
| Other central nervous system anomalies ............... | 3,864,266 | 854 | 22.4 | 26.7 | 23.1 | 22.3 | 19.0 | 22.3 | 28.7 | 56,424 |
| Heart malformations | 3,864,266 | 4,398 | 115.5 | 107.3 | 111.9 | 111.2 | 117.7 | 128.5 | 182.0 | 56,424 |
| Other circulatory/respiratory anomalies ................. | 3,864,266 | 5,234 | 137.5 | 143.8 | 143.0 | 126.0 | 133.5 | 145.6 | 192.9 | 56,424 |
| Rectal atresia/stenosis | 3,864,266 | 343 | 9.0 | 11.0 | 8.9 | 7.5 | 9.1 | 10.7 | * | 56,424 |
| Tracheo-esophageal fistula/Esophageal atresia ..... | 3,864,266 | 562 | 14.8 | 14.9 | 13.5 | 13.9 | 16.8 | 14.3 |  | 56,424 |
| Omphalocele/Gastroschisis ................................. | 3,864,266 | 1,029 | 27.0 | 52.1 | 35.0 | 22.3 | 14.8 | 17.7 | * | 56,424 |
| Other gastrointestinal anomalies .......................... | 3,864,266 | 1,259 | 33.1 | 37.9 | 30.8 | 34.5 | 29.0 | 35.8 | 42.4 | 56,424 |
| Malformed genitalia | 3,864,266 | 2,875 | 75.5 | 79.0 | 69.8 | 74.8 | 76.7 | 84.4 | 72.5 | 56,424 |
| Renal agenesis | 3,864,266 | 511 | 13.4 | 15.1 | 11.5 | 15.4 | 12.6 | 12.0 | * | 56,424 |
| Other urogenital anomalies ................................ | 3,864,266 | 4,505 | 118.3 | 106.7 | 106.6 | 116.9 | 129.1 | 134.8 | 146.4 | 56,424 |
| Cleft lip/palate | 3,864,266 | 3,307 | 86.8 | 91.6 | 91.9 | 84.6 | 83.5 | 85.0 | 72.5 | 56,424 |
| Polydactyly/Syndactyly/Adactyly | 3,864,266 | 3,242 | 85.1 | 111.4 | 94.4 | 78.4 | 74.0 | 73.4 | 83.5 | 56,424 |
| Clubfoot | 3,864,266 | 2,224 | 58.4 | 61.9 | 60.3 | 64.1 | 51.7 | 49.4 | 57.5 | 56,424 |
| Diaphragmatic hernia | 3,864,266 | 499 | 13.1 | 15.1 | 11.8 | 11.9 | 12.9 | 17.1 | * | 56,424 |
| Other musculoskeletal/integumental anomalies ...... | 3,864,266 | 7,775 | 204.2 | 223.4 | 201.3 | 197.3 | 202.0 | 207.5 | 218.9 | 56,424 |
| Down's syndrome .............................................. | 3,864,266 | 1,676 | 44.0 | 26.7 | 24.4 | 26.4 | 44.5 | 101.1 | 350.3 | 56,424 |
| Other chromosomal anomalies | 3,864,266 | 1,463 | 38.4 | 32.4 | 34.7 | 33.8 | 35.7 | 60.6 | 105.4 | 56,424 |
| White |  |  |  |  |  |  |  |  |  |  |
| Anencephalus | 3,069,862 | 393 | 13.0 | 16.4 | 12.0 | 13.4 | 12.6 | 12.4 | * | 45,436 |
| Spina bifida/Meningocele | 3,069,862 | 833 | 27.5 | 31.4 | 34.2 | 28.7 | 22.8 | 17.7 | * | 45,436 |
| Hydrocephalus ............ | 3,069,862 | 866 | 28.6 | 36.3 | 32.0 | 27.1 | 24.3 | 22.0 | 55.9 | 45,436 |
| Microcephalus | 3,069,862 | 219 | 7.2 | 7.3 | 7.2 | 6.9 | 8.1 | 7.1 | * | 45,436 |
| Other central nervous system anomalies ............... | 3,069,862 | 691 | 22.8 | 25.5 | 23.2 | 23.6 | 19.4 | 23.6 | * | 45,436 |
| Heart malformations | 3,069,862 | 3,612 | 119.4 | 112.8 | 118.0 | 115.1 | 121.8 | 125.3 | 176.1 | 45,436 |
| Other circulatory/respiratory anomalies ................. | 3,069,862 | 4,264 | 141.0 | 152.7 | 151.5 | 127.7 | 134.6 | 146.7 | 188.0 | 45,436 |
| Rectal atresia/stenosis | 3,069,862 | 291 | 9.6 | 12.9 | 9.3 | 7.9 | 9.6 | 12.1 | * | 45,436 |
| Tracheo-esophageal fistula/Esophageal atresia ..... | 3,069,862 | 467 | 15.4 | 16.1 | 14.8 | 13.6 | 17.8 | 14.6 | * | 45,436 |
| Omphalocele/Gastroschisis ................................ | 3,069,862 | 794 | 26.3 | 56.3 | 34.9 | 21.7 | 13.8 | 16.8 |  | 45,436 |
| Other gastrointestinal anomalies .......................... | 3,069,862 | 1,024 | 33.9 | 36.6 | 33.0 | 35.6 | 28.8 | 38.5 | 40.6 | 45,436 |
| Malformed genitalia | 3,069,862 | 2,453 | 81.1 | 87.0 | 75.5 | 79.9 | 82.3 | 88.1 | 79.6 | 45,436 |
| Renal agenesis ... | 3,069,862 | 430 | 14.2 | 16.7 | 11.7 | 15.9 | 13.5 | 13.3 | * | 45,436 |
| Other urogenital anomalies ................................. | 3,069,862 | 3,910 | 129.3 | 118.1 | 122.4 | 124.5 | 139.1 | 141.8 | 155.8 | 45,436 |
| Cleft lip/palate ................................................... | 3,069,862 | 2,881 | 95.3 | 110.5 | 100.8 | 91.3 | 89.7 | 93.4 | 77.9 | 45,436 |
| Polydactyly/Syndactyly/Adactyly ......................... | 3,069,862 | 1,838 | 60.8 | 70.6 | 64.5 | 56.4 | 57.3 | 61.4 | 62.7 | 45,436 |
| Clubfoot ........................................................... | 3,069,862 | 1,939 | 64.1 | 74.7 | 66.6 | 70.1 | 55.4 | 51.5 | 62.7 | 45,436 |
| Diaphragmatic hernia | 3,069,862 | 425 | 14.1 | 15.5 | 13.7 | 12.8 | 12.8 | 18.6 | * | 45,436 |
| Other musculoskeletal/integumental anomalies ...... | 3,069,862 | 5,980 | 197.7 | 222.4 | 195.9 | 190.2 | 195.0 | 199.8 | 208.3 | 45,436 |
| Down's syndrome ............................................... | 3,069,862 | 1,467 | 48.5 | 31.4 | 26.2 | 28.4 | 49.5 | 108.0 | 372.6 | 45,436 |
| Other chromosomal anomalies | 3,069,862 | 1,182 | 39.1 | 34.3 | 34.8 | 35.3 | 35.9 | 60.8 | 93.1 | 45,436 |

[^44]Table 49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 1996 --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 births ${ }^{1}$ | Congenital anomaly reported | Age of mother |  |  |  |  |  |  | Not stated |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All ages | Under 20 years | 20-24 years | $\begin{aligned} & 25-29 \\ & \text { years } \end{aligned}$ | 30-34 years | $\begin{aligned} & 35-39 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 40-49 \\ & \text { years } \end{aligned}$ |  |
| Black |  |  |  |  |  |  |  |  |  |  |
| Anencephalus | 594,314 | 70 | 11.9 | * | * | * | * | * | * | 7,759 |
| Spina bifida/Meningocele ................................... | 594,314 | 114 | 19.4 | 17.9 | 18.1 | 19.8 | * |  |  | 7,759 |
| Hydrocephalus .................................................. | 594,314 | 136 | 23.2 | 23.9 | 17.0 | 22.1 | 28.0 | * | * | 7,759 |
| Microcephalus | 594,314 | 77 | 13.1 | 15.7 | * | 16.0 | * | * | * | 7,759 |
| Other central nervous system anomalies ............... | 594,314 | 119 | 20.3 | 26.9 | 19.8 | 17.5 | * | * | * | 7,759 |
| Heart malformations | 594,314 | 586 | 99.9 | 92.5 | 88.2 | 90.6 | 102.2 | 164.7 | 253.8 | 7,759 |
| Other circulatory/respiratory anomalies ................. | 594,314 | 598 | 102.0 | 103.7 | 96.1 | 98.2 | 104.4 | 109.1 | * | 7,759 |
| Rectal atresia/stenosis | 594,314 | 34 | 5.8 | * | * | * | * | * | * | 7,759 |
| Tracheo-esophageal fistula/Esophageal atresia ..... | 594,314 | 64 | 10.9 | * | * | * | * | * | * | 7,759 |
| Omphalocele/Gastroschisis ................................. | 594,314 | 187 | 31.9 | 38.8 | 32.8 | 30.5 | 22.6 | * | * | 7,759 |
| Other gastrointestinal anomalies .......................... | 594,314 | 187 | 31.9 | 39.5 | 24.9 | 32.0 | 34.4 | * | * | 7,759 |
| Malformed genitalia ........................................... | 594,314 | 311 | 53.0 | 60.4 | 44.1 | 48.7 | 58.1 | 67.3 | * | 7,759 |
| Renal agenesis | 594,314 | 63 | 10.7 | * | * | * | * | * |  | 7,759 |
| Other urogenital anomalies ................................. | 594,314 | 423 | 72.1 | 79.1 | 50.9 | 75.4 | 86.1 | 99.8 | * | 7,759 |
| Cleft lip/palate | 594,314 | 264 | 45.0 | 43.3 | 53.1 | 42.6 | 43.0 | * | * | 7,759 |
| Polydactyly/Syndactyly/Adactyly .......................... | 594,314 | 1,291 | 220.1 | 220.8 | 219.9 | 228.5 | 222.8 | 183.3 | 241.7 | 7,759 |
| Clubfoot ........................................................... | 594,314 | 216 | 36.8 | 30.6 | 34.5 | 38.8 | 37.7 | 53.4 | * | 7,759 |
| Diaphragmatic hernia ........................................ | 594,314 | 55 | 9.4 | 14.9 | * | * | * | * | * | 7,759 |
| Other musculoskeletal/integumental anomalies ...... | 594,314 | 1,089 | 185.7 | 190.2 | 182.0 | 178.2 | 200.2 | 181.0 | * | 7,759 |
| Down's syndrome .............................................. | 594,314 | 155 | 26.4 | 16.4 | 18.7 | 16.8 | 22.6 | 62.6 | 362.5 | 7,759 |
| Other chromosomal anomalies ............................. | 594,314 | 203 | 34.6 | 25.4 | 31.1 | 25.9 | 43.0 | 67.3 | * | 7,759 |

* Figure does not meet standards of reliability or precision.

1 Total number of births.
2 Includes races other than white and black.
NOTES: Excludes data for New Mexico, which did not report congenital anomalies.
 according to the mother's reported race; see Technical notes.

Table 50. Live births by plurality of birth and ratios, by age and race and Hispanic origin of mother: United States, 1996


[^45]
## Technical notes

## Source of data

Data shown in this report for 1996 are based on 100 percent of the birth certificates in all States and the District of Columbia. The data are provided to the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program (VSCP). In 1984 and earlier years, the VSCP included varying numbers of States that provided data based on 100 percent of their birth certificates. Data for States not in the VSCP were based on a 50-percent sample of birth certificates filed in those States. Information on sampling procedures and sampling errors for 1984 and earlier years is provided in the annual report, Vital Statistics of the United States, Volume I, Natality (3). Information on the percent of records with missing information for maternal and infant characteristics included in this report is shown by State in table I. Data are not shown for the variables race, age, and marital status of mother. Missing data are imputed in these cases; see separate sections in the Technical notes for more information.

## Age of mother

Age of mother is computed in most cases from the mother's and infant's dates of birth as reported on the birth certificate. The mother's age is directly reported by six States (Hawaii, Kentucky, Nevada, North Dakota, Virginia, and Wyoming). Since 1964, mother's age has been edited for ages 10-49 years. Births reported to occur to mothers younger than age 10 or older than age 49 years have had age imputed according to the age of mother from the previous record with the same race and total birth order (total of live births and fetal deaths). As noted in the text section, "Births and birth rates," a small number of babies have been born to women aged 50 years and over, a consequence of the increased use of fertilityenhancing therapies. For this report, a limited analysis was done of the birth records for which the mother's age was reported as 50 years or over. It was not possible to verify independently the reported age for these records. Based on this analysis, about 100 women aged 50
years and over gave birth in 1996. The vast majority of these births were to women aged 50-54 years. Beginning with 1997 data, editing procedures will be revised to take into account recent changes in childbearing patterns by age. In 1996 age of mother was not reported on 0.02 percent of the records; for these records age of mother was imputed according to the last record with the same race of mother and total birth order.

## Race and Hispanic origin

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

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

The factors influencing the decision to tabulate births by race of the mother have been discussed in detail elsewhere (85). 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 all these instances, it is more appropriate to tabulate births by the mother's race. Another factor influencing the decision to tabulate births by race of mother is the large proportion of births with race of father not stated, 15 percent in 1996. Although this proportion has stabilized and declined slightly in the 1990's, it is still much higher than in 1976, 10 percent. The high proportion of records with the father's race not reported reflects the increase in the proportion of births to unmarried
women; in many such cases, no information is reported on the father. These births are already assigned the race of the mother because there is no alternative. Tabulating all births by race of mother, therefore, provides for a more uniform approach, rather than a necessarily arbitrary combination of parental races.

In 1996 race of mother was not reported for 0.7 percent of births. In these cases, if the race of the father was known, the race of the father was assigned to the mother. When information was not available for either parent, the race of the mother was imputed electronically according to the specific race of the mother on the preceding record with a known race of mother. This was necessary for just 0.3 percent of births in 1996.

Hispanic origin and race are reported independently on the birth certificate, as noted previously. In tabulations of birth data by race only, data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race. In tabulations of birth data by race and Hispanic origin, data for persons of Hispanic origin are not further classified by race because the vast majority of births to Hispanic women are reported as white. In these tabulations, data for non-Hispanic persons are classified according to the race of the mother, because there are substantial differences in fertility and maternal and infant health between Hispanic and nonHispanic white women.

Items asking for the Hispanic origin of the mother and the father have been included on the birth certificates of all States and the District of Columbia, the Virgin Islands, and Guam since 1993. Puerto Rico does not collect this information. In 1989 Louisiana, New Hampshire, and Oklahoma did not report this information; in 1990 New Hampshire and Oklahoma did not report, and in 1991-92 New Hampshire did not report Hispanic origin. The percent of records for which Hispanic origin of the parents was not reported in 1996 is shown by State in table I.

## Marital status

National estimates of births to unmarried women are based on two methods of determining marital status. For 1994

Table I. Percent of birth records on which specified items were not stated: United States and each State, Puerto Rico, Virgin Islands, and Guam: 1996
[By place of residence]

| Area | Number of births | Place of birth | Attendant at birth | Mother's birthplace | Father's age | Father's race | Hispanic origin |  | Educational attainment Mother | Livebirth order | Length of Gestation | Month prenatal care began | Number of prenatal visits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Mother | Father |  |  |  |  |  |
| Total of reporting areas ${ }^{1}$ | 3,891,494 | 0.0 | 0.1 | 0.3 | 14.8 | 14.9 | 1.5 | 15.6 | 1.4 | 0.6 | 1.0 | 2.6 | 3.5 |
| Alabama. | 60,488 | - | - | 0.1 | 25.5 | 25.6 | 0.0 | 25.5 | 0.4 | 0.0 | 0.1 | 0.7 | 1.0 |
| Alaska | 10,037 | - | 0.0 | 0.2 | 12.1 | 13.8 | 0.2 | 12.8 | 1.3 | 0.2 | 0.3 | 1.3 | 1.1 |
| Arizona. | 75,322 | 0.0 | 0.1 | 0.3 | 25.5 | 29.0 | 0.2 | 29.1 | 1.7 | 0.1 | 0.1 | 1.1 | 2.7 |
| Arkansas | 36,371 | 0.0 | 0.1 | 0.5 | 20.0 | 20.3 | 0.1 | 20.2 | 1.0 | 0.3 | 0.4 | 2.0 | 2.5 |
| California | 539,433 | 0.0 | 0.4 | 0.0 | 5.8 | 3.8 | 0.4 | 3.4 | 1.2 | 0.1 | ${ }^{2} 4.8$ | 1.2 | 2.7 |
| Colorado. | 55,807 | 0.0 | - | 0.2 | 11.1 | 11.8 | 0.6 | 12.3 | 1.1 | 0.4 | 0.0 | 1.0 | 1.3 |
| Connecticut | 44,469 | 0.0 | 0.0 | 0.3 | 9.5 | 11.1 | 4.8 | 13.6 | 5.5 | 11.6 | 4.0 | 7.9 | 10.9 |
| Delaware | 10,155 | - | 0.0 | 0.3 | 24.9 | 29.9 | 0.2 | 29.7 | 0.3 | 0.1 | 0.1 | 1.0 | 1.1 |
| District of Columbia | 8,390 | - | . | 1.4 | 51.6 | 57.7 | 1.0 | 51.3 | 7.5 | 1.3 | 0.6 | 16.2 | 15.7 |
| Florida . . . . . . | 189,392 | 0.0 | - | 0.1 | 18.5 | 18.6 | 0.1 | 20.4 | 0.4 | 0.1 | 0.1 | 1.1 | 1.8 |
| Georgia | 114,043 | 0.0 | 0.0 | 0.3 | 18.9 | 19.2 | 0.9 | 19.5 | 1.1 | 0.3 | 0.1 | 1.8 | 1.4 |
| Hawaii. | 18,401 | 0.0 | 0.0 | 0.1 | 10.4 | 10.5 | 0.1 | 9.4 | 0.3 | 0.1 | 5.8 | 2.9 | 3.2 |
| Idaho | 18,625 | - | 0.0 | 0.2 | 8.2 | 10.8 | 1.4 | 11.3 | 5.6 | 1.6 | 1.4 | 3.8 | 11.4 |
| Illinois | 183,180 | 0.0 | 0.0 | 0.1 | 16.6 | 17.4 | 0.1 | 17.5 | 0.7 | 0.1 | 0.2 | 1.8 | 2.1 |
| Indiana. | 83,513 | 0.0 | 0.1 | 0.2 | 12.9 | 12.9 | 0.3 | 12.9 | 1.3 | 0.7 | 0.1 | 2.3 | 3.8 |
| lowa | 37,139 | 0.0 | 0.0 | 0.3 | 13.4 | 14.8 | 1.3 | 15.6 | 1.9 | 0.1 | 0.1 | 1.6 | 5.2 |
| Kansas. | 36,651 | - | 0.0 | 0.0 | 11.2 | 11.6 | 0.9 | 12.5 | 0.3 | 0.0 | 0.1 | 0.4 | 1.1 |
| Kentucky. | 52,706 | 0.0 | 0.0 | 0.0 | 21.5 | 22.3 | 0.1 | 29.4 | 0.3 | 0.4 | 0.1 | 1.0 | 1.0 |
| Louisiana | 65,204 | 0.1 | 0.1 | 0.0 | 24.8 | 25.0 | 0.1 | 24.9 | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 |
| Maine. | 13,774 | - | 0.0 | - | 11.6 | 15.0 | 3.0 | 17.6 | 0.4 | 0.1 | 0.1 | 0.3 | 0.8 |
| Maryland. | 71,533 | 0.0 | 0.0 | 0.9 | 8.7 | 10.2 | 1.4 | 7.0 | 3.8 | 5.3 | 1.3 | 10.8 | 16.9 |
| Massachusetts | 80,276 | 0.0 | 0.1 | 0.4 | 8.8 | 8.2 | 1.2 | 7.3 | 1.1 | 1.3 | 1.0 | 1.7 | 2.1 |
| Michigan. . . . | 133,387 | 0.0 | 0.1 | 0.1 | 17.8 | 19.8 | 4.8 | 23.5 | 1.1 | 1.0 | 0.1 | 3.6 | 5.0 |
| Minnesota . | 63,700 | 0.1 | 0.1 | 0.0 | 9.2 | 11.9 | 6.3 | 16.7 | 2.2 | 0.3 | 1.3 | 4.5 | 3.8 |
| Mississippi. | 40,987 | 0.0 | 0.0 | 0.1 | 26.1 | 25.8 | 0.1 | 25.9 | 0.2 | 0.1 | 0.2 | 0.6 | 0.6 |
| Missouri | 73,832 | 0.0 | - | 0.2 | 18.7 | 20.8 | 0.1 | 20.8 | 0.9 | 0.3 | 0.2 | 1.9 | 2.8 |
| Montana . | 10,856 | . | 0.7 | 0.0 | 9.5 | 11.1 | 3.1 | 13.9 | 0.2 | 0.1 | 0.1 | 0.5 | 0.4 |
| Nebraska | 23,286 | - | - | 0.0 | 12.4 | 12.9 | 1.9 | 14.2 | 0.1 | 0.0 | 0.0 | 0.3 | 0.5 |
| Nevada | 26,125 | - | 0.1 | 0.6 | 23.0 | 23.8 | 0.5 | 22.6 | 2.1 | 0.7 | 0.2 | 2.7 | 5.4 |
| New Hampshire | 14,520 | - | 0.0 | 0.0 | 7.7 | 8.7 | 2.5 | 10.3 | 0.5 | 0.1 | 0.3 | 2.7 | 1.7 |
| New Jersey | 114,306 | 0.1 | 0.1 | 0.4 | 9.7 | 11.6 | 1.0 | 10.7 | 2.2 | 0.1 | 0.2 | 3.9 | 5.0 |
| New Mexico. | 27,228 | - | - | 1.3 | 26.1 | 25.6 | 0.0 | 25.6 | 2.9 | 0.6 | 0.2 | 3.7 | 4.1 |
| New York | 263,963 | 0.1 | 0.2 | 0.6 | 18.6 | 19.0 | 10.4 | 27.0 | 2.1 | 0.4 | 0.3 | 7.6 | 5.5 |
| North Carolina | 104,470 | 0.0 | 0.0 | 0.0 | 18.0 | 18.0 | 0.0 | 18.0 | 0.2 | 0.1 | 0.1 | 0.5 | 0.6 |
| North Dakota . | 8,347 | - | - | - | 9.2 | 10.4 | 1.7 | 12.0 | 0.2 | 0.0 | 0.0 | 0.3 | 0.3 |
|  | 151,692 | 0.0 | 0.0 | 0.3 | 12.9 | 13.7 | 0.2 |  | 0.4 | 0.0 | 0.0 | 1.0 |  |
| Oklahoma | 46,193 | , | 0.0 | 0.0 | 17.5 | 19.3 | 0.1 | 19.1 | 4.0 | 0.6 | 4.7 | 10.1 | 11.0 |
| Oregon. . | 43,658 | - | 0.8 | 0.1 | 11.4 | 4.3 | 0.1 | 4.9 | 0.8 | 0.0 | 0.0 | 0.3 | 0.4 |
| Pennsylvania | 148,338 | 0.0 | 0.0 | 0.7 | 6.1 | 3.1 | 0.3 | 2.6 | 2.0 | 0.2 | 0.2 | 2.2 | 2.6 |
| Rhode Island | 12,652 | - | - | 0.2 | 14.6 | 15.1 | 12.2 | 23.5 | 3.0 | 2.2 | 0.7 | 8.5 | 9.1 |
| South Carolina | 51,117 | 0.0 | 0.0 | 0.2 | 29.0 | 28.9 | 0.1 | 28.9 | 4.1 | 0.1 | 0.2 | 1.2 | 1.2 |
| South Dakota. | 10,473 | - | - | 2.0 | 12.4 | 12.6 | 0.1 | 12.9 | 0.5 | 0.0 | 0.1 | 0.7 | 0.9 |
| Tennessee. | 73,754 | 0.0 | 0.0 | 0.1 | 16.3 | 16.5 | 0.1 | 16.4 | 0.2 | 0.1 | 0.2 | 1.4 | 1.7 |
| Texas. | 330,406 | 0.0 | 0.0 | 0.4 | 16.0 | 15.9 | 0.2 | 15.8 | 1.1 | 1.3 | 0.6 | 2.5 | 5.1 |
| Utah | 42,087 | 0.0 | 0.0 | 0.1 | 9.2 | 9.9 | 0.3 | 8.1 | 0.7 | 0.2 | 0.1 | 0.7 | 0.8 |

See footnotes at end of table.

Table I. Percent of birth records on which specified items were not stated: United States and each State, Puerto Rico, Virgin Islands, and Guam: 1996-Con.
[By place of residence]

| Area | Number of births | Place of birth | Attendant at birth | Mother's birthplace | Father's age | Father's race | Hispanic origin |  | Educational attainment Mother | Livebirth order | Length of Gestation | Month prenatal care began | Number of prenatal visits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Mother | Father |  |  |  |  |  |
| Vermont | 6,767 | 0.0 | 0.0 | 0.1 | 4.4 | 5.6 | 4.4 | 8.5 | 2.7 | 0.1 | 0.1 | 2.8 | 0.7 |
| Virginia. | 92,354 | 0.0 | 0.0 | 0.1 | 18.7 | 19.3 | 0.1 | 18.8 | 0.5 | 0.2 | 0.2 | 0.8 | 3.0 |
| Washington | 77,945 | 0.0 | 0.0 | 0.6 | 12.8 | 12.0 | 3.1 | 12.8 | 9.0 | 1.8 | 1.5 | 7.6 | 12.2 |
| West Virginia | 20,750 | 0.0 | 0.0 | 0.1 | 13.4 | 16.8 | 0.1 | 16.7 | 0.4 | 0.2 | 0.3 | 3.3 | 2.7 |
| Wisconsin | 67,106 | 0.0 | 0.0 | 0.0 | 27.1 | 27.1 | 0.0 | 27.1 | 0.1 | 0.0 | 0.1 | 0.2 | 0.3 |
| Wyoming | 6,286 | - | - | 0.0 | 13.5 | 13.7 | 0.1 | 13.6 | 0.4 | 0.1 | 0.0 | 0.5 | 0.6 |
| Puerto Rico | 63,141 | - | 0.0 | - | 2.5 | 3.1 | --- | --- | 0.2 | 0.0 | 0.1 | 0.2 | 0.1 |
| Virgin Islands | 1,905 | - | - | - | 28.7 | 30.1 | 4.1 | 33.2 | 1.9 | 0.6 | 0.6 | 3.4 | 4.8 |
| Guam. . . . . | 4,254 | 0.1 | 0.1 | 0.6 | 27.4 | 56.3 | 0.6 | 27.8 | 2.8 | 1.0 | 3.9 | 5.3 | 5.3 |

Table I. Percent of birth records on which specified items were not stated: United States and each State, Puerto Rico, Virgin Islands, and Guam: 1996-Con.
[By place of residence]

| Area | Number of births | Birth weight | 5-minute Apgar score | Medical risk factors | Tobacco use | Alcohol use | Weight gain | Obstetric procedures | Complications of labor and/ or delivery | Method of delivery | Abnormal conditions of newborn | Congenital anomalies |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total of reporting areas ${ }^{1}$ | 3,891,494 | 0.1 | 0.7 | 1.3 | 1.6 | 1.5 | 8.6 | 0.8 | 1.1 | 0.9 | 1.8 | 1.5 |
| Alabama. | 60,488 | 0.1 | 0.2 | ${ }^{3} 0.3$ | 0.4 | 0.4 | 5.8 | 0.2 | 0.3 | 0.1 | 1.0 | 0.6 |
| Alaska | 10,037 | 0.1 | 0.4 | 0.1 | 0.4 | 0.4 | 2.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Arizona. | 75,322 | 0.2 | 0.5 | 0.0 | 0.5 | 0.5 | 13.6 | 0.0 | 0.0 | 0.3 | 0.0 | 0.4 |
| Arkansas | 36,371 | 0.2 | 3.7 | 0.5 | 0.5 | 0.5 | 6.4 | 0.3 | 0.5 | 0.4 | 0.4 | 0.5 |
| California | 539,433 | 0.0 | -- - | 0.0 | -- - | -- - | -- - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Colorado. | 55,807 | 0.0 | 0.3 | 0.0 | 0.4 | 0.3 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Connecticut | 44,469 | 0.0 | 4.3 | 15.2 | 13.0 | 12.7 | 28.4 | 14.0 | 15.5 | 8.0 | 21.3 | 22.4 |
| Delaware | 10,155 | 0.1 | 0.2 | 0.0 | 0.2 | 0.2 | 1.3 | ${ }^{7} 0.0$ | 0.0 | 0.1 | 0.1 | 0.1 |
| District of Columbia | 8,390 | 0.0 | 1.2 | - | 0.2 | 0.2 | 14.2 | - | - | 0.0 | - | - |
| Florida . . . . . . . | 189,392 | 0.0 | 0.2 | 0.0 | 0.1 | 0.1 | 4.5 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| Georgia | 114,043 | 0.0 | 0.5 | 0.4 | 0.3 | 0.3 | 5.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| Hawaii | 18,401 | 0.9 | 7.5 | 0.4 | 0.3 | 0.3 | 14.1 | 0.1 | 0.3 | 0.6 | 0.6 | 0.6 |
| Idaho. | 18,625 | 0.1 | 0.5 | 4.4 | 1.9 | 2.0 | 9.7 | 3.9 | 4.1 | 0.4 | 3.9 | 3.8 |
| Illinois | 183,180 | 0.1 | 0.3 | 0.1 | 1.0 | 0.2 | 4.6 | 0.1 | 0.1 | 0.4 | 0.1 | 0.1 |
| Indiana. | 83,513 | 0.6 | 0.5 | 0.2 | 相 | 0.5 | 4.6 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 |
| lowa | 37,139 | 0.0 | 0.5 | 0.1 | 2.1 | 2.5 | 6.8 | 0.0 | 0.0 | 0.3 | 0.1 | 0.1 |
| Kansas. | 36,651 | 0.0 | 0.3 | 4.4 | 0.6 | 0.5 | 0.7 | 0.3 | 0.4 | 2.4 | 0.4 | 0.4 |
| Kentucky. | 52,706 | 0.1 | 0.4 | 6.1 | 4.7 | 4.5 | 8.9 | 3.8 | 6.8 | 4.6 | 10.3 | 9.7 |
| Louisiana | 65,204 | 0.1 | 0.4 | 0.1 | 0.2 | 0.2 | 6.5 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 |
| Maine. | 13,774 | 0.1 | 0.2 | 0.1 | 3.4 | 4.4 | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 |
| Maryland. | 71,533 | 0.0 | 0.5 | 0.0 | 2.6 | 2.9 | 12.3 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Massachusetts | 80,276 | 1.2 | 1.3 | 4.2 | 1.3 | 1.3 | 2.9 | 4.0 | 4.1 | 3.5 | 87.0 | 4.7 |
| Michigan. | 133,387 | 0.3 | 0.5 | 0.2 | 2.2 | 1.9 | 10.1 | 0.2 | 0.2 | 0.6 | 0.2 | 0.2 |
| Minnesota | 63,700 | 0.0 | 0.7 | 5.8 | 4.5 | 4.7 | 15.1 | 3.9 | 5.0 | 3.6 | 6.4 | 6.6 |
| Mississippi. | 40,987 | 0.0 | 0.6 | 0.1 | 0.3 | 0.3 | 4.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Missouri | 73,832 | 0.0 | 0.4 | 0.1 | 0.6 | 0.6 | 3.6 | 0.0 | 0.0 | 0.4 | 0.1 | 0.1 |
| Montana | 10,856 | 0.1 | 0.4 | 0.1 | 0.8 | 1.0 | 1.1 | 0.1 | 0.1 | 0.5 | 0.1 | 0.1 |
| Nebraska | 23,286 | 0.0 | 0.2 | 0.0 | 1.0 | 0.9 | 1.6 | 0.0 | 0.0 | 0.1 | ${ }^{8} .0$ | 0.0 |
| Nevada | 26,125 | 0.0 | 1.5 | 1.7 | 1.6 | 1.7 | 8.9 | 0.3 | 1.3 | 0.9 | 1.9 | 2.3 |
| New Hampshire | 14,520 | 0.4 | 0.6 | 0.4 | 0.2 | 0.2 | 5.6 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 |
| New Jersey | 114,306 | 0.2 | 0.3 | 1.5 | 1.3 | 1.2 | 6.1 | 0.2 | ${ }^{9} 1.0$ | 0.4 | 14.9 | 2.7 |
| New Mexico. | 27,228 | 0.1 | 3.4 | 0.0 | 1.3 | 1.4 | 10.1 | 0.0 | 0.0 | 0.4 | 0.0 | --- |
| New York | 263,963 | 0.1 | 0.4 | 2.2 | 55.2 | 0.9 | 11.3 | 1.2 | 1.4 | 0.5 | ${ }^{10} 2.2$ | 2.4 |
| North Carolina | 104,470 | 0.0 | 0.4 | 0.0 | 0.1 | 0.1 | 4.5 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| North Dakota | 8,347 | 0.0 | 0.2 | 0.4 | 0.4 | 0.5 | 1.4 | 0.1 | 0.4 | 0.3 | 0.5 | 0.4 |
| Ohio | 151,692 | 0.1 | 0.4 | 0.1 | 0.4 | 0.3 | 3.4 | 0.1 | 0.1 | 0.5 | 0.2 | 0.2 |
| Oklahoma | 46,193 | 0.8 | 5.5 | 28.8 | 20.5 | 20.9 | 31.1 | 25.0 | 28.5 | 21.6 | 33.8 | 34.5 |
| Oregon. | 43,658 | 0.0 | 0.4 | 0.6 | 0.6 | 0.7 | 2.5 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Pennsylvania | 148,338 | 0.1 | 0.3 | 0.1 | 0.6 | 0.3 | 5.8 | 0.0 | 0.0 | 0.2 | 0.4 | 0.4 |
| Rhode Island | 12,652 | 0.3 | 0.4 | 4.8 | 2.3 | 2.5 | 9.0 | 4.8 | 4.9 | 0.2 | 12.7 | 12.6 |
| South Carolina | 51,117 | 0.0 | 0.3 | 0.0 | 0.3 | 0.3 | 2.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| South Dakota. | 10,473 | 0.0 | 0.4 | 0.1 | --- | --- | 2.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Tennessee. | 73,754 | 0.0 | 0.4 | 0.0 | 0.4 | 0.5 | 3.1 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| Texas. | 330,406 | 0.1 | --- | ${ }^{6} 1.8$ | 0.3 | 0.3 | 20.1 | 0.1 | ${ }^{11} 0.1$ | 0.6 | ${ }^{8} 0.1$ | 0.1 |
| Utah | 42,087 | 0.0 | 0.3 | 0.2 | 0.4 | 0.4 | 1.8 | 0.0 | 0.1 | 0.0 | 0.2 | 0.4 |

See footnotes at end of table.

Table I. Percent of birth records on which specified items were not stated: United States and each State, Puerto Rico, Virgin Islands, and Guam: 1996-Con.
[By place of residence]

| Area | Number of births | Birth weight | 5-minute Apgar score | Medical risk factors | Tobacco use | Alcohol use | Weight gain | Obstetric procedures | Complications of labor and/ or delivery | Method of delivery | Abnormal conditions of newborn | Congenital anomalies |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vermont | 6,767 | 0.2 | 0.3 | 0.1 | 0.6 | 0.4 | 1.7 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Virginia. | 92,354 | 0.2 | 0.3 | 0.1 | 0.1 | 0.2 | 5.9 | 0.1 | 0.1 | 0.3 | 0.1 | 0.1 |
| Washington | 77,945 | 0.2 | 0.4 | 0.6 | 4.0 | 13.0 | 19.4 | 0.3 | 0.6 | 0.4 | 0.8 | 0.7 |
| West Virginia | 20,750 | 0.1 | 0.3 | 0.5 | 0.8 | 2.7 | 6.8 | 0.2 | 0.6 | 0.3 | 1.0 | 0.5 |
| Wisconsin . | 67,106 | 0.0 | 0.4 | 3.5 | 0.1 | 0.1 | 1.6 | 0.0 | 3.8 | 0.0 | ${ }^{12} 0.1$ | 0.1 |
| Wyoming | 6,286 | 0.0 | 0.4 | 0.0 | 1.3 | 1.3 | 1.4 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| Puerto Rico . | 63,141 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Virgin Islands | 1,905 | 0.1 | 3.9 | 14.6 | 2.1 | 2.3 | 16.1 | 8.6 | 16.4 | 3.3 | 17.6 | 15.7 |
| Guam. | 4,254 | 0.3 | 2.8 | 5.9 | 3.4 | 3.9 | 43.0 | 3.6 | 13.9 | 3.7 | 5.0 | 5.4 |

0.0 Quantity more than zero but less than 0.05 .

Quantity zero.

-     - Data not available.

Excludes data for Puerto Rico, Virgin Islands, and Guam
California reports date last normal menses began but does not report clinical estimate of gestation.
Kansas does not report renal disease.
${ }^{5}$ New York city (but not New York State) reports tobacco use.
Texas does not report genital herpes and uterine bleeding.
7 Delaware does not report ultrasound.
${ }^{3}$ Massachusetts, Nebraska, and Texas do not report birth injury
${ }^{9}$ New Jersey does not report other excessive bleeding
${ }^{10}$ New York City does not report assisted ventilation less than 30 minutes or assisted ventilation of 30 minutes or more.
Texas does not report anesthetic complications and fetal distress.
${ }^{12}$ Wisconsin does not report fetal alcohol syndrome.
through 1996, birth certificates in 45 states and the District of Columbia included a question about the mother's marital status. (Beginning in 1997, all but four States (Connecticut, Michigan, Nevada, and New York) include a direct question on their birth certificates.) In 1996 the mother's marital status was inferred in five states (California, Connecticut, Michigan, Nevada, and New York) by comparing the parents' and child's surnames and other information concerning the father. 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 (27).

In the five States that used inferential procedures to compile birth statistics by marital status in 1996, 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 were used in California to compare the parents' surnames when hyphenated if the parents were born in countries where naming practices can identify the parents' marital status. This procedure was in effect for many years for Asian mothers and for 1995-96 for Hispanic mothers (51).

Although Nevada's birth certificate does not include a direct question on the mother's marital status, Nevada has implemented procedures to identify the mother's marital status more accurately from the electronic birth registration process. All of Nevada's birth records are now received electronically. In New York (excluding New York City) mother's marital status is inferred as "Unmarried" if the father's name is missing, or if the father's name is given and a paternity acknowledgment is filed.

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. The results of this evaluation for changes during 1995-96 differ slightly for the States reporting marital status and the States inferring this information. Nonmarital births in States reporting mother's marital status directly on the birth certificate increased about 1 percent, while nonmarital births in the 5 nonreporting States declined 2 percent. Trends in birth rates for unmarried women for rates computed on the basis of estimated data and on the basis of inferred data are fairly similar.

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. The presence of a paternity acknowledgment therefore is the most reliable indicator that the birth is nonmarital in the States not reporting this information directly. Changes in reporting procedures in Michigan and Texas, related to paternity acknowledgment, were reported for 1994; the impact of those changes on trends in nonmarital births has been described elsewhere (87).

The mother's marital status was not reported in 1996 on 0.3 percent of the birth records in the 45 States and the District of Columbia where this information is obtained by a direct question. Marital status was imputed as "married" for these records.

## Gestation

The 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 4.6 percent of the births in 1996 was based on the clinical estimate of gestation. For 97 percent of these records, the clinical estimate was used because the LMP date was not reported. For the remaining 3 percent, the clinical estimate was used because it was compatible with the reported birthweight, whereas the LMP-based gestation was not. In cases where the reported birthweight was inconsistent with both the LMP-computed gestation and the clinical estimate of gestation, the LMP-computed gestation was used and birthweight was reclassified as "not stated." This was necessary for fewer than 400 births or less than 0.01 percent of all birth records in 1996. The levels of the adjustments in 1996 data were similar to those for 1995 and earlier years (51).

## 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 $=8 \mathrm{lb} 14 \mathrm{oz}-9 \mathrm{lb} 14 \mathrm{oz}$ $4,500-4,999$ 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 which relates the number of women having a first cesarean delivery to all women giving birth who have never had a cesarean delivery. The denominator for this rate includes all births less those with method of delivery classified as repeat cesarean, vaginal birth after previous cesarean, or method not stated. The rate for vaginal birth after previous cesarean (VBAC) delivery is computed by relating all VBAC deliveries to the sum of VBAC and repeat cesarean deliveries, that is, to women with a previous cesarean section.

## Computations of percents, percent distributions, and medians

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

## Population denominators

Birth and fertility rates for 1996 shown in tables 1, 3-6, 8-9, and 13-14 are based on populations estimated as of July 1, 1996. These populations are shown in tables II and III. The population estimates have been published by the U.S. Bureau of the Census (4) and are based on the 1990 census counts by race and age, which were modified to be consistent with Office of Management and Budget racial categories and historical categories for birth data, and in the case of age, to reflect age as of the census reference
date. The modification procedures are described in detail in a census report (88).

Birth and fertility rates by State shown in table 10 are based on Statelevel population estimates provided by the U.S. Bureau of the Census which are consistent with the U.S. populations (89). Rates by State shown in this report may differ from rates computed on the basis of other population estimates. Birth and fertility rates by month shown in table 15 are based on monthly population estimates also based on the 1996 estimates. Rates for unmarried women shown in table B and tables 17 and 18 are based on distributions of the population by marital status as of March 1996 provided by the U.S. Bureau of the Census (90) which have been adjusted to July 1996 population levels (4) by the Division of Vital Statistics, NCHS (27).

Birth and fertility rates for the Hispanic population, shown in tables 6,8 , 9 , and 14 , are based on estimates of the total Hispanic population as of July 1, 1996 (4). Rates for Hispanic subgroups are based on special population estimates which are presented in table III in the Technical notes (91).

## Computation of rates

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

In computing birth and fertility rates for the Hispanic population, births with origin of mother not stated are included with non-Hispanic births rather than being distributed. Thus, rates for the U.S. Hispanic population are underestimates of the true rates to the extent that the births with origin of mother not stated ( 1.5 percent) were actually to Hispanic mothers (see table I). The population with origin not stated was imputed. The effect on the rates is believed to be small.

Age of father-Information on age of father is often missing on birth certificates of children born to unmarried women, greatly inflating the number of
"not stated" in all tabulations by age of father (table I). In computing birth rates by age of father, births tabulated as age of father not stated are distributed in the same proportions as births with known age within each 5 -year age classification of mother. This procedure is followed because, while father's age is missing on 15 percent of the birth certificates, one third of these were on records where the mother is a teenager. This distribution procedure is done separately by race. The resulting distributions are summed to form a composite frequency distribution that is the basis for computing birth rates by age of father. This procedure avoids the distortion in rates that would result if the relationship between age of mother and age of father were disregarded.

## Graphic presentation

Trend data shown in figures 2-4, 6, 8 , and 9 are plotted using a logarithmic scale. This approach is taken to facilitate comparison of the relative change in rates over time for each series of rates as well as the differentials among rates for different series. The trend lines in figure 2, for example, show that women 40-44 years of age experienced the most change of any group over the period, and also that they had the greatest increase in rates since 1985.

## Random variation and relative standard error

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

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

1. The "true" number of events lies between
$N-2 \sqrt{N}$ and $N+2 \sqrt{ } \bar{N}$

Table II. Estimated total population by race and estimated female population by age and race: United States, 1996
[Populations estimated as of July 1]


Table III. Estimated total population by specified Hispanic origin and estimated female population, by age and specified Hispanic origin and by race for women of non-Hispanic origin: United States, 1996
[Populations estimated as of July 1]

| Age | Hispanic |  |  |  |  | Non-Hispanic |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Mexican | Puerto Rican | Cuban | Other Hispanic ${ }^{1}$ | Total ${ }^{2}$ | White | Black |
| Total population | 28,268,886 | 17,874,569 | 3,067,943 | 1,174,341 | 6,152,033 | 237,014,884 | 193,977,657 | 31,912,232 |
| Female population |  |  |  |  |  |  |  |  |
| 15-44 years | 6,686,603 | 4,104,663 | 769,594 | 214,210 | 1,598,136 | 52,919,075 | 42,043,406 | 8,031,963 |
| 10-14 years | 1,194,035 | 814,491 | 162,660 | 23,597 | 193,287 | 8,060,050 | 6,253,560 | 1,361,190 |
| 15-19 years | 1,167,775 | 716,759 | 150,219 | 27,688 | 273,109 | 7,875,232 | 6,098,670 | 1,363,307 |
| 15-17 years | 700,824 | 422,667 | 100,487 | 16,386 | 161,284 | 4,787,091 | 3,702,432 | 826,813 |
| 18-19 years | 466,951 | 294,092 | 49,732 | 11,302 | 111,825 | 3,088,141 | 2,396,238 | 536,494 |
| 20-24 years | 1,130,349 | 765,125 | 111,481 | 30,012 | 223,731 | 7,430,645 | 5,743,986 | 1,249,649 |
| 25-29 years | 1,152,322 | 732,714 | 119,537 | 31,724 | 268,347 | 8,316,420 | 6,518,857 | 1,290,748 |
| 30-34 years | 1,220,578 | 736,932 | 143,891 | 45,258 | 294,497 | 9,487,650 | 7,556,628 | 1,417,990 |
| 35-39 years | 1,103,646 | 642,658 | 134,155 | 45,007 | 281,826 | 10,214,804 | 8,273,748 | 1,437,673 |
| 40-44 years | 911,933 | 510,475 | 110,311 | 34,521 | 256,626 | 9,594,324 | 7,851,517 | 1,272,596 |
| 45-49 years | 714,593 | 402,214 | 85,375 | 44,925 | 182,079 | 8,661,227 | 7,217,808 | 1,042,865 |

${ }_{2}^{1}$ Includes Central and South American and other and unknown Hispanic.
${ }^{2}$ Includes races other than white and black.
SOURCE: Population estimates based on unpublished tabulations prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Totals for Hispanic population and non-Hispanic population by race are consistent with figures published in Deardorff KE, Hollmann FW. U.S. population estimates, by age, sex, race, and Hispanic origin: 1990 to 1996 . U.S. Bureau of the Census. PPL-57. Washington: U.S. Department of Commerce. 1997.
2. The "true" rate lies between
$R-2 \frac{R}{\sqrt{N}} \quad$ and $\quad R+2 \frac{R}{\sqrt{N}}$

If the rate $R_{1}$ corresponding to $N_{1}$ events is compared to the rate $R_{2}$ corresponding to $N_{2}$ events, the difference between the two rates may be regarded as statistically significant if it exceeds
$2 \sqrt{\frac{R_{1}^{2}}{N_{1}}+\frac{R_{2}^{2}}{N_{2}}}$
For example, the proportion of mothers receiving first trimester care for area A for 1996 was 63.9 percent and this
proportion or rate was based on 53 recorded births. Given prevailing conditions, the chances are 19 in 20 that the "true" or underlying proportion of women receiving early prenatal care in area A lies between 46.3 and 81.5 percent. The 1995 proportion receiving early care in area A was 78.7 based on 70 recorded births. The difference between the rates is 14.8 which is less than twice the standard error of the difference
$2 \sqrt{\frac{(63.9)^{2}}{53}+\frac{(78.7)^{2}}{70}}$
of the two rates that is computed to be 25.7. From this, it is concluded that
the difference between the proportions receiving early prenatal care in 1995 and 1996 is not statistically significant. More information on this topic is included in the Technical Appendix of the annual report, Vital Statistics of the United States, 1992, Volume I, Natality (3). In addition, the relative standard errors for birth rates for Hispanic subgroups, particularly Puerto Rican, Cuban, and "other" Hispanic women, may be somewhat higher than if based only on the number of births. This reflects the considerable sampling variability in the population estimates for these groups (91).

## 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 which follow are adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials for the National Association of Public Health Statistics and Information Systems, formerly known as the Association for Vital Records and Health Statistics (92).

## 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-The birthweight of a previous live-born child was over $4,000+$ grams ( 8 pounds 14 ounces).

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

## Renal disease-Kidney disease.

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

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

## Obstetric procedures

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

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

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

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

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

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

## Complications of labor and/or delivery

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

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

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

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

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

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

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

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

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

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

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

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

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


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

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 ano-malies-Other specified anomalies of the brain, spinal cord, and nervous system.

Heart malformations-Congenital anomalies of the heart.

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

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

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

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

Other gastrointestinal 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 Hispanic origin births (2), triplet births (74), teenage birth rates by State (11), birth rates by educational attainment of the mother (28), cesarean deliveries $(65,93)$, birth and fertility rates for States (20), births to unmarried mothers (27), characteristics of births in Asian or Pacific Islander population subgroups (19), trends in pregnancies and pregnancy rates (10), and prenatal care (94).

This report presents summary tabulations from the final natality statistics for 1996. The National Center for Health Statistics will respond to requests for unpublished data whenever possible.

## Contents

| Abstract | 1 | Births to unmarried |  |
| :---: | :---: | :---: | :---: |
| Highlights | 1 | women | 9 |
| Introduction | 3 | Age of father. | 11 |
| Methods | 3 | Educational attainment. | 11 |
| Demographic characteristics | 4 | Maternal lifestyle and health |  |
| Births and birth rates | 4 | characteristics | 12 |
| Age of mother. | 4 | Weight gain | 12 |
| Live-birth order | 6 | Medical risk factors | 12 |
| Race and Hispanic origin. | 6 | Tobacco use during pregnancy. | 13 |
| Total fertility rate | 7 | Alcohol use during |  |
| Births and birth rates |  | pregnancy. | 14 |
| by State . . . . . . . . | 8 | Medical services utilization |  |
| Sex ratio. | 8 | Prenatal care | 15 |
| Month of birth. | 8 | Obstetric procedures |  |
| Day of the week of birth. | 8 | Complications of labor and/or delivery | 17 |

## Suggested citation

Ventura SJ, Martin JA, Curtin SC, Mathews
TJ. Report of final natality statistics, 1996. Monthly vital statistics report; vol 46 no 11, supp. Hyattsville, Maryland: National Center for Health Statistics. 1998.

## Copyright information

All material appearing in this report is in the public domain and may be reproduced or copied without permission; citation as to source, however, is appreciated.

## National Center for Health Statistics <br> Director

Edward J. Sondik, Ph.D.

## Deputy Director

 Jack R. Anderson
## Division of Vital Statistics

Director
Mary Anne Freedman

## U.S. DEPARTMENT OF <br> HEALTH \& HUMAN SERVICES

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

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $\$ 300$

[^46]
[^0]:    ${ }^{1}$ Includes races other than white and black and origin not stated.
    ${ }^{2}$ Persons of Hispanic origin may be of any race.

[^1]:    NOTE: See reference 59 for information on calculation of this measure.

[^2]:    - Data not available

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

[^3]:    Figure does not meet standards of reliability or precision.
    For 1970-91 includes births to races not shown separately
    Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes
    Based on a 50-percent sample of births.
    Includes births to Aleuts and Eskimos.

[^4]:    1 Includes races other than white and black.

[^5]:    1 Includes origin not stated
    2 Includes races other than white and black.
    3 Excludes data for New Hampshire, which did not report Hispanic origin.
    4 Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.
    5 Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.
    ${ }_{7}$ Live births per 1,000 population in specifed group.
    7 Includes Central and South American and other and unknown Hispanic.
    8 Rates are estimated for the United States based on birth data for 49 States and the District of Columbia. Births for New Hampshire that did not report Hispanic origin,
    are included in the rates for non-Hispanic women; see Technical notes.
    Live births per 1,000 women aged 15-44 years in specified group.

[^6]:    See footnotes at end of table

[^7]:    Quantity zero.
    1 Includes only births with stated origin of mother.
    2 Includes races other than white and black.

[^8]:    See footnotes at end of table.

[^9]:    See footnotes at end of table

[^10]:    *- Data not available
    . Figure does not meet standards of reliability or precision
    0.0 Quantity more than zero but less that 0.05 .

    1 Rates computed by relating total births, regardless of age of mother, to women 15-44 years.
    2 Excludes data for New Hampshire, which did not report Hispanic origin.
    3 Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.
    4 Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.
    5 Includes Central and South American and other and unknown Hispanic.
    5 Includes origin not stated.
    Includes races other than white and black.

[^11]:    1 Excludes data for Puerto Rico, Virgin Islands, and Guam.

[^12]:    --- Data not available.
    1 Includes births to Aleuts and Eskimos.
    2 Excludes data for Puerto Rico, Virgin Islands, and Guam.

[^13]:    - Quantity zero.
    - Quanta ot available.
    1 Includes races other than white and black.
    2 Excludes data for Puerto Rico, Virgin Islands, and Guam.

[^14]:    --- Data not available.
    1 Includes births to Aleuts and Eskimos.
    2 Rate per 1,000 population.
    3 Rate per 1,000 population.
    4 Rates are sums of birth rates for 5 -year age groups multiplied by 5 .
    Rates are sums of birth rates for 5 -year age
    NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

[^15]:    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.

[^16]:    ... Category not applicable
    1 The method of seasonal adjustment, developed by the U.S. Bureau of the Census, is described in The X11 Variant of the Census Method II Seasonal Adjustment Program, Technical Paper No. 15 (1967 revision).
    2 Includes races other than white and black.

[^17]:    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.

[^18]:    -- Data not available.
    1 Includes races other than white and black and origin not stated.
    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 births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.

[^19]:    See footnotes at end of table.

[^20]:    * Figure does not meet standards of reliability or precision.
    --- Data not available.
    1 Includes races other than white and black and origin not stated.
    2 Persons of Hispanic origin may be of any race.
    3 Excludes data for Puerto Rico, Virgin Islands, and Guam.

[^21]:    1 Rates computed by relating total births, regardless of age of father, to men aged 15-54 years.
    2 Rates computed by relating births of fathers under 20 years of age to men aged 15-19 years.
    3 Includes races other than white and black.
    4 Based on 100 percent of births in selected States and on a 50 -percent sample of births in all other States; see Technical notes
    NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the father's reported race; see Technical notes.

[^22]:    - Quantity zero.

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

[^23]:    . Category not applicable.
    Expressed in completed weeks.
    2 Includes births with period of gestation not stated.
    4 Includes races other than white and black and origin not stated
    4 Persons of Hispanic origin may be of any race.
    NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy

[^24]:    Expressed in completed weeks.
    2 Includes births with period of gestation not stated.
    4 Includes races other than white and black and origin not stated.
    Persons of Hispanic origin may be of any race.

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

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

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

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

    1 Includes races other than white and black.
    NOTES: Excludes data for California, Indiana, New York State (but includes New York City), and South Dakota, which did not require reporting of tobacco use during pregnancy.
    Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

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

[^30]:    * Figure does not meet standards of reliability or precision.
    -- Data not available.
    Care beginning in 3rd trimester.
    2 Includes races other than white and black and origin not stated
    Persons of Hispanic origin may be of any race.
    4 Excludes data for Puerto Rico, Virgin Islands, and Guam.

[^31]:    .. Category not applicable.
    1 Includes races other than white and black and origin not stated.
    2 Persons of Hispanic origin may be of any race.

[^32]:    1 Includes races other than white and black.

[^33]:    ${ }^{*}$ Figure does not meet standards of reliability or precision.
    1 Total number of births to residents of areas reporting specified complication.
    2 Includes races other than white and black.
    3 New Jersey does not report this complication.
    4 Texas does not report this complication.
    NOTE: Race and Hispanic origin are reported separately on the birth certificate. Persons of Hispanic origin may be of any race. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see Technical notes.

[^34]:    Quantity zero.
    Includes races other than white and black and origin not stated.
    Includes births occurring en route to or on arrival at hospital.
    3 Persons of Hispanic origin may be of any race.

[^35]:    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 and origin not stated.
    5 Excludes data for Oklahoma, which did not report method of delivery on the birth certificate.
    5 Excludes data for Louisiana, Maryland, Nebraska, Nevada, and Oklahoma, which did not report method of delivery on the birth certificate.
    Persons of Hispanic origin may be of any race.
    8 Excludes data for New Hampshire which did not report Hispanic origin
    10 Excludes data for New Hampshire and Oklahoma which did not report Hispanic origin.
    10 Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

[^36]:    Percent of all live births by cesarean delivery.
    Number of primary cesareans per 100 live births to women who have not had a previous cesarean
    3 Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.
    Includes races other than white and black and origin not stated
    5 Persons of Hispanic origin may be of any race.

[^37]:    * Figure does not meet standards of reliability or precision.
    --- Data not available.
    1 Percent of all live births by cesarean delivery.
    2 Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.
    3 Includes races other than white and black and origin not stated.
    4 Persons of Hispanic origin may be of any race.
    5 Excludes data for Puerto Rico, Virgin Islands, and Guam.

[^38]:    Percent of all live births by cesarean delivery
    Number of primary cesareans per 100 live births to women who have not had a previous cesarean.
    Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.
    Texas does not report this risk factor.
    Alabama does not report this risk factor
    Kansas does not report this risk factor.
    New Jersey does not report this complication.
    Texas does not report this complication.

[^39]:    See footnotes at end of table.

[^40]:    Quantity zero.
    0.0 Quantity more than zero but less than 0.05 .

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

[^41]:    -Quantity zero.
    1 Less than 2,500 grams.
    Equivalents of gram weights in terms of pounds and ounces are shown in Technical notes.
    3 Includes races other than white and black and origin not stated.
    4

[^42]:    * Figure does not meet standards of reliability or precision.
    -- Data not available.
    1 Includes races other than white and black and origin not stated.
    2 Persons of Hispanic origin may be of any race.
    3 Excludes data for Puerto Rico, Virgin Islands, and Guam.

[^43]:    * Figure does not meet standards of reliability or precision.
    - Quantity zero
    -- Data not available.
    1 Includes races other than white and black and origin not stated.
    2 Persons of Hispanic origin may be of any race.
    3 Excludes data for Puerto Rico, Virgin Islands, and Guam.

[^44]:    See footnotes at end of table.

[^45]:    Quantity zero.

    * Figure does not meet standards of reliability or precision.

    Includes races other than white and black and origin not stated.
    Persons of Hispanic origin may be of any race.
    Births in greater than twin deliveries.

[^46]:    To receive this publication regularly, contact the National Center for Health Statistics by calling 301-436-8500
    E-mail: nchsquery@cdc.gov
    Internet: www.cdc.gov/nchswww/

